CV of Prof Dr Md Enamul Hoque

(Updated on 17 April 2023)

Dr Md Enamul Hoque

PhD (NUS, Singapore), **PGCHE** (Nottingham Uni, UK), **FHEA** (UK); **FIMechE** (UK), **CEng** (UK)

Professor, Department of Biomedical Engineering

Faculty of Engineering

Military Institute of Science and Technology (MIST)

Mirpur Cantonment, Dhaka - 1216

Bangladesh

Email: enamul1973@gmail.com

Tel: +8801730496139 (Cell)

https://scholar.google.com/citations?hl=en&user=aRvzzrEAAAAJ

Scopus preview - Hoque, M. Enamul - Author details - Scopus

https://orcid.org/0000-0003-0393-6771

- Total Working Experience: 23 Years (Since 1999)
- Academic Experience: ~ 15 Years (Since 2007)
- **Areas of Research Interests:** Biomaterials, Bioceramics, Biocomposites, Biofabrication, Biomechanics, Biomedical Implants, Nanomaterials, Nanotechnology, Rapid Prototyping Technology, 3D Printing, Rehabilitation Engineering, Stem Cells, Tissue Engineering, and so on.
- Plenary Speech: 1
- Keynote Speech: 5
- Invited Speech: 18
- Scientific Session Chair: 8
- Professional Seminar/Training/Workshop Attended: 41
- Countries Travelled/Lived in (Total 15): Bangladesh (Mother Land), Australia, Brunei, Canada, China, Hong Kong, India, Japan, Korea, Malaysia, Saudi Arabia, Singapore, Thailand, UK, USA

Major Scholarly Achievements

- PhD Student Supervised: ~ 10
- Professional Fellowship/ Membership: 10
- Scientific Awards: 6
- Research Supervision: 89 (1 Postdoc + 10 PhD + 11 M.Eng. + 67 Bachelors)
- Edited Special Journal Issue: 5
- Journal Articles: 131 (111 Published + 20 Under Review)
- Conference Presentations: 100
- Books: 18 (11 Published + 7 Under Review)
- Book Chapters: 97 (70 Published + 27 Under Review)
- Citation: 3451 (Google Scholar) https://scholar.google.com/citations?hl=en&user=aRvzzrEAAAAJ
- h-index: ~ 27
- i-10 index: ~ 70
- Journal Editorship: 10
- Journal Reviewer: 12
- External Examiner: Total 30 (4 Book Proposal + 3 Research Proposal + 8 PhD Theses + 15 Masters Theses)
- Conference/Seminar Organized: 58
- Research Grants Received: ~ USD 300,000 (Three Hundred Thousand US Dollars)

Interpersonal Skills:

Punctual, sincere, committed and well-organized academic with 23 years of experience in globally diverse working environments. Enjoy teamwork (especially, team leadership and decision-making) and also work on own initiative. Communicates respectfully and comfortably at all required levels with professional standards and integrity

Research Devices/Systems Developed:

- ✓ Developed a Customized Desktop Robot Based Rapid Prototyping (DRBRP) System to Fabricate 3D Object/Scaffold
- ✓ Developed a Customized Electrospinning System to Fabricate Nanofibre Matrix/Scaffold

Academic Qualifications:

Degree/Certificate & University/Organization	Year of Completion
PGCHE (Post Graduate Certificate in Higher Education) **University of Nottingham**, UK (10th in UK and 103rd **in QS World University Rankings 2022)**	25 July 2015
PhD (Division of Biomaterials/Biomedical Engineering, Department of Mechanical Engineering) National University of Singapore (NUS), Singapore (**1st in Asia** and **Globally 11th** in **QS World University Rankings 2022)** **Thesis Title:** Design and Development of Tissue Engineering Scaffolds Using Rapid Prototyping Technology **Thesis Supervisor:** Prof Dietmar Hutmacher Highly Cited Scientist in Bioprinting (citation rank: 1); https://scholar.google.com/citations?user=LtVox2wAAAAJ&hl=en	07 December 2007
M.Eng. (Division of Biomaterials/Biomedical Engineering, Department of Mechanical Engineering) National University of Singapore (NUS), Singapore **Thesis Title:** Development of a Novel Hybrid Fibrous Scaffold for Bioartificial Liver Assist Devices **Thesis Supervisor: Prof Seeram Ramakrishna**; Highly Cited Scientist in Materials Engineering (citation rank: 1); https://scholar.google.com/citations?user=a49NVmkAAAAJ&hl=en	14 April 2003
B. Sc. Eng. (Materials & Metallurgical Engineering) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh; **Top Most Technical University in Bangladesh; 185th in QS World Ranking (Engineering and Technology)**	September 1998 CGPA 3.73 (out of 4.00) **Merit Position: 3rd** (Class Size 20 Stu.)

Professional Fellowship/Membership:

1) C.Eng. (Chartered Engineer) Equivalent to P.Eng. (Professional Engineer), Certified by Engineering Council, UK; Since 24 August 2015
2) Fellow, Higher Education Academy, UK; Since 09 June 2015
3) Fellow, Institute of Mechanical Engineering (IMechE), UK; Since 24 August 2015
4) Member, Royal Society of Chemistry, UK; Since 26 June 2020
5) Member, Institute of Materials, Minerals and Mining (IOM3), UK, Since 01 June 2014
6) Member, Tissue Engineering and Regenerative Medicine International Society (TERMIS), USA; Since 01 June 2005
7) Member, World Academy of Science, Engineering and Technology; Since 18 July 2018
8) Member, Institute for Engineering Research and Publication (IFERP); Since 09 April 2020
9) Member, Malaysian Tissue Engineering and Regenerative Medicine Society (MTERMS), Malaysia; Since 01 Jan 2008
10) Member, Institute of Materials Malaysia (IMM), Malaysia; Since 01 June 2014

Career History:

Date of Employment	Position, Organization and Responsibilities
01 January 2018 – To Date	**Professor** Department of Biomedical Engineering, Faculty of Engineering Military Institute of Science and Technology (MIST) Mirpur Cantonment, Dhaka – 1216, Bangladesh **Responsibilities:** Teaching, Research and Administration
08 Sept 2015 – 15 Sept 2017	**Associate Professor and Head of Department** Department of Biomedical Engineering, College of Engineering King Faisal University, Al-Hofuf, Al-Ahsa, Saudi Arabia **Responsibilities:** Teaching, Research and Administration
01 January 2011 – 31 August 2015	**Associate Professor and Head of Bioengineering Division** Department of Mechanical, Materials & Manufacturing Engineering; **University of Nottingham** (UK, China, Malaysia) Malaysia Campus **Responsibilities:** Teaching, Research and Administration
29 August 2007 – 31 December 2010	**Assistant Professor** Department of Mechanical, Materials & Manufacturing Engineering; **University of Nottingham** (UK, China, Malaysia) Malaysia Campus **Responsibilities:** Teaching & Research
05 May 2000 – 31 July 2007	**Research Scholar** Division of Bioengineering, Department of Mechanical Engineering National University of Singapore (NUS), Singapore **Responsibilities:** Postgraduate research, mentoring undergraduate final year research projects, laboratory demonstration
01 March 1999 – 30 April 2000	**Teaching Assistant** Department of Materials and Metallurgical Engineering Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh **Responsibilities:** Assistance to teaching and research

Administrative Roles:

1) **Chairman, Accreditation Board**, Department of Biomedical Engineering, Faculty of Engineering, Military Institute of Science and Technology (MIST), Bangladesh: January 2020 – To date
2) **President, Board of Scholarship Policy**, Military Institute of Science and Technology (MIST), Bangladesh: November 2021 – To date
3) **President, Syllabus Review Board**, Department of Biomedical Engineering, Faculty of Engineering, Military Institute of Science and Technology (MIST), Bangladesh: January 2020 – To date
4) **Member, Board of Research Policy,** Military Institute of Science and Technology (MIST), Bangladesh: November 2021 – To date
5) **Member, Faculty Recruitment Committee,** Department of Biomedical Engineering, Faculty of Engineering, Military Institute of Science and Technology (MIST), Bangladesh: January 2018 – To date
6) **Member, Postgraduate Admission Committee**, Department of Biomedical Engineering, Faculty of Engineering, Military Institute of Science and Technology (MIST), Bangladesh: January 2018 – To date
7) **Head of Department**, Department of Biomedical Engineering, King Faisal University, Kingdom of Saudi Arabia: January 2016 – December 2016
8) **Founding Head of Bioengineering Division**, Faculty of Engineering, University of Nottingham Malaysia Campus: Jan 2010 – Dec 2013
9) **Member of Academic Advising Unit,** College of Engineering, King Faisal University: Oct 2016 – Sept 2017
10) **Member of Quality & Academic Accreditation Unit,** College of Engineering, King Faisal University: Oct 2016 – Sept 2017
11) **Member of ABET** (Accreditation Board for Engineering and Technology) Accreditation Committee, College of Engineering, King Faisal University: Sept. 2015 – Sept 2017
12) **Member of NCAAA** (National Commission for Academic Accreditation & Assessment) Accreditation Committee, College of Engineering, King Faisal University: Sept. 2015 – Sept 2017
13) **Faculty Representative for PGCHE** (Post Graduate Certificate in Higher Education) Course, University of Nottingham Malaysia Campus: Jan 2013 – Dec 2015
14) **Member of Accreditation Committee**, Faculty of Engineering, University of Nottingham Malaysia Campus: Jan 2010 – Dec 2015
15) **Member of Library Liaison Committee**, University of Nottingham Malaysia Campus: Jan 2009 – Dec 2015
16) **Departmental Online Documents Coordinator**, Department of Mechanical, Materials & Manufacturing Engineering; University of Nottingham Malaysia Campus: Jan 2010 – Dec 2015

Academic Scholarships:

Date of Scholarship	Scholarship & Awarding Organization
2003-2006	PhD Research Scholarship National University of Singapore (NUS), Singapore
2000-2002	M. Eng. Research Scholarship National University of Singapore (NUS), Singapore
1994-1998	Undergraduate Technical Scholarship and Dean's List Award Bangladesh University of Engineering & Technology (BUET), Bangladesh
1989-1991	Merit Scholarship Bangladesh Education Board, Bangladesh

Awards/Honors:

Award/Honors	Awarding Organization/ Date of Award
Excellent Researcher Recognition	Military Institute of Science and Technology (MIST), Dhaka, Bangladesh; 03 Feb 2022
Outstanding Nano-scientist Award	International Workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7 - 8 September 2018, AMET University, Chennai, India
Best Lecturer	University of Nottingham Malaysia Campus, 15 December 2011
Best Poster Award	1) Postgraduate Research Showcase, University of Nottingham Malaysia Campus, Malaysia, 23 Sept 2014 Poster Title: Ecofriendly Isolation of Nano Crystalline Cellulose 2) Global Research Workshop. University of Nottingham Malaysia Campus, Malaysia, 23 – 27 April 2012 Poster Title: Increasing the Lifespan of Human Joint Implants 3) 3rd International Workshop on Biomodeling and Bioprinting, Singapore, 10 - 11 May 2006 Poster Title: Study of Structural Anisotropy of Scaffolds Developed By Solid Free Form Fabrication Technique
2nd Poster Award	Research Presentation and Competition, University of Nottingham Malaysia Campus, 27th April 2011. Poster title: Processing of Biopolymers into 3D Tissue Engineering Scaffolds. Postgraduate.
3rd Poster Award	Research Poster Competition, University of Nottingham, UK, 27th April 2011 Poster Title: Biocompatible Coating on Biomedical Implant
Plenary Speaker	1) 2nd International Conference & Exhibition on Materials Science & Engineering (Materials Science - 2013), 7 - 9 October 2013, Las Vegas, USA.

Keynote Speaker (05)	1) 7th Annual World Congress of Smart Materials-2023, 08-10 February 2023, Sapporo, Japan 2) Advanced Technologies in Rapid Product Development. International Conference on Advanced Automotive and Mechanical Engineering (INCAAMS 2021), 2-3 July 2021, India (Virtual). 3) International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021), 11-13 March 2021, Dhaka, Bangladesh. 4) International workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7 - 8 September 2018, AMET University, Chennai, India 5) Postgraduate Symposium on Technology Biocomposite 2015, Universiti Putra Malaysia, Kuala Lumpur, Malaysia, 03 March 2015
Invited Speaker (17)	1) International Pathogens Research eConference (Pathogens-eCon2022), 30 November 2022, London (UK) to 01 December 2022 Tokyo (Japan) 2) International Online Conference on Nano Materials (ICN 2022), 12-14 August 2022, Kerala, India 3) 5th International Webinar on Chemistry and Pharmaceutical Chemistry, 08-09 July 2022, Kington, United Kingdom 4) 2nd Online International Conference on Materials Science and Nanomaterials, 13-14 August 2021, USA. 5) International Conference on Polymer Science and Composite Materials, 05-07 July, 2021, Bucharest, Romania (Virtual). 6) International Conference on Multidisciplinary Sciences and Advanced Technologies (SICMSAT'2020), Webinar (India), 29-30 June, 2020. 7) International Conference on Biomathematics and Modeling (ICBM-19), 31 August 2019, Guwahati, Assam, India. 8) 2nd International Conference of Bangladesh Stem Cell & Regenerative Medicine Society, 04 November 2018, Dhaka, Bangladesh 9) 3rd International Conference on Medical Physics in Radiation Oncology and Imaging (ICMPROI-2018), Dhaka, Bangladesh, 10-12 March, 2018 10) 4th International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) Kottayam, Kerala, India, 12-14 August 2016 11) 13th International Conference on Environment, Ecosystems and Development (EED 2015), Kuala Lumpur, Malaysia, 23 – 25 April 2015 12) 9th International Materials Technology Conference and Exhibition (IMTCE 2014), Kuala Lumpur, Malaysia, 13 – 16 May 2014 13) Tissue Processing and Cell Culture Workshop, Kuala Lumpur, Malaysia, 11 – 14 Nov 2013 14) Biomedical Engineering in Healthcare Conference 2013, Kuala Lumpur, Malaysia, 3 – 4 July 2013 15) Tissue Engineering Society Malaysia (TESMA) Seminar Series 2011, Kuala Lumpur, Malaysia, 19–26 Oct 2011 16) 3rd Annual Congress of Regenerative Medicine & Stem Cell 2010, Shanghai, China, 5-7 Dec 2010 17) 3rd Malaysian Tissue Engineering & Regenerative Medicine (MTERMS) Scientific Meeting 2010, Malaysia, 13-14 Oct 2010

	18) 3rd World Congress of Industrial Biotechnology 2010, Dalian, China, 25-27 July 2010
Scientific Session Chair (08)	1) 7th Annual World Congress of Smart Materials-2023, 08-10 February 2023, Sapporo, Japan 2) 5th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT 2021), 18-20 November 2021, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh. 3) International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021), 11-13 March 2021, Dhaka, Bangladesh. 4) 2nd International Conference of Bangladesh Stem Cell & Regenerative Medicine Society, 04 November 2018, Dhaka, Bangladesh 5) International workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7-8 September 2018, AMET University, Chennai, India 6) 4th International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) Kottayam, Kerala, India, 12-14 August 2016 7) 9th International Materials Technology Conference and Exhibition (IMTCE 2014), Kuala Lumpur, Malaysia, 13 – 16 May 2014 8) 2nd International Conference and Expo on Material Science & Engineering (Materials Science-2013), Las Vegas, USA, 7 - 9 October 2013
Judge for Scientific Session/Competition (06)	1) International workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7-8 September 2018, AMET University, Chennai, India 2) Project competition organized during Biomedical Engineering Feast, Military Institute of Science and Technology (MIST), Dhaka; 04 October 2018 3) Scientific competition organized by Robotics Club “Robolution”, Military Institute of Science and Technology (MIST), Dhaka; 24 March 2018 4) Undergraduate Final Year Project Competition, Faculty of Engineering, Universiti Putra Malaysia; 05 June 2014 5) 4th MTERMS Scientific Meeting 2012, Langkawi, Malaysia, 3-4 June 2012 6) 3rd MTERMS Scientific Meeting 2010, Kuala Lumpur, Malaysia, 13-14 Oct 2010

Courses Teaching/Taught (in BME Department) at MIST, Bangladesh: Since Jan 2018 to Date

Courses	Role	App. No. of Students
BME 7525: Biomechanics and Medical Implants (Postgrad)	Coordinator	15
BME 7513 Biomedical Prosthetics (Postgrad)	Coordinator	10
BME 7511 Biomaterials & Nanotechnology	Coordinator	15

(Postgrad)		
BME 419 Tissue Engineering	Coordinator	40
BME411 Biomedical Transport Fundamentals	Coordinator	40
BME 408 Biomedical Implants & Braces Lab	Coordinator	40
BME 407 Biomedical Implants & Braces	Coordinator	40
BME 406 Motion Analysis and Rehabilitation Engineering Lab	Coordinator	40
BME 405 Motion Analysis and Rehabilitation Engineering	Coordinator	40
BME 307 Hospital Planning and Management	Coordinator	40
BME 305 Biomechanics	Coordinator	40
BME 303 Biomaterials	Coordinator	40
BME 207 Biomedical Instrumentation and Measurements	Coordinator	40
BME 203 Biofluid Mechanics and Heat Transfer	Coordinator	40

Courses Taught (in BME Dep) at King Faisal University, Saudi Arabia: From Sep 2015 to Sep 2017

Courses	Role	App. No. of Students
BME 440 Management of Healthcare Technology	Coordinator	30
BME 322 Biomedical Transport Phenomena	Coordinator	35
BME 320 Biomechanics	Coordinator	35
ENGR303 Thermofluids	Coordinator	35
BME 202 Molecular Biology and Genetics	Coordinator	40
ENGR 206 Electric Circuits	Co-Lecturer	90

Courses Taught (in Mechanical, Materials & Manufacturing Engineering Department) at Nottingham University Malaysia Campus: From Aug 2007 to Aug 2015

Courses	Role	No. of Students
MM3BIO Biomechanics	Coordinator	> 20
MM4RPD Rapid Product Development	Coordinator	50
MM3FRC Fibre Reinforced Composites Engineering	Coordinator	50
MM3PEA Processing of Engineering Alloys	Coordinator	55

MM3MMM Materials Models and Modes of Failure	Coordinator	65
MM2MID Materials in Design	Coordinator	110
MM2DM2 Design & Manufacture 2	Design Tutor	110
MM1DM1 Design & Manufacture 1	Design Tutor	115

Courses Taught (in Mechanical & Materials Engineering Department) at University of Malaya, Malaysia (as an Adjunct Faculty): From Aug 2007 to Aug 2015

Courses	Role	Ave. No. of Students
KMEB 4131 Corrosion Engineering	Coordinator	30
KMEB 2205 Microstructure and Phase Transformation	Coordinator	50
KMEB 1105 Materials Production	Coordinator	50

Other Courses Willing to Teach: Any course relevant to my expertise/interest in the areas of Biomedical/Mechanical/Materials/Manufacturing Engineering.

Research Activity Overview:

Research Supervision: 85 (1 Postdoc + 10 PhD + 11 M.Eng. + 63 Bachelors)

Level of Research	No. of Researchers/Students	Year of Completion
Postdoc & Research Fellow	3	2012 & 2022
Ph. D.	10 (9 completed + 1 Ongoing)	2013 – To Date
M. Eng.	11 (6 completed + 5 Ongoing)	2012 - To Date
B. Eng. (Final Year Project)	67	2008 – To Date

Research Grants Received (Total Approx. USD 337,000):

1) **Science and Technology Fund 2021, Ministry of Science and Technology, Bangladesh 2021.** Project Title: Development of a CNT Integrated r-PET electrospun antibacterial/anti-viral respirator mask to combat COVID-19
Allocated Amount: Tk 400,000 (Four Lac Taka)

2) **Ministry of Health and Family Welfare, Bangladesh 2021**. Project Title: Therapeutic effects of pulsed electromagnetic field (PEMF) in diabetic neuropathy (Under Review)
Amount Applied For: Tk 1,26,10,000 (One Core Twenty Six Lacs and Ten Thousand Taka)

3) Military Institute of Science and Technology (MIST) Research & Development Fund 2018. Project Title: Development of a biomedically vibrant and economically viable composite bone plate.
Allocated Amount: BDT ~ 650,000

4) **Military Institute of Science and Technology (MIST) Research & Development Fund 2018.** Project Title: Design and Development of an Advanced Device for the Measurement of Hemoglobin by Non-invasive Method. **Allocated Amount: BDT ~ 50,000**

5) **Military Institute of Science and Technology (MIST) Research & Development Fund 2018.** Project Title: Design and Development of a Multi-Channel Prosthetic Hand for Amputees. **Allocated Amount: BDT ~ 50,000**

6) **Exploratory Research Grant Scheme in 2013 (ERGS 2013; Malaysian Government Research Grant)** Project Title: Synthesis and Characterization of Graphene-Magnetite Hybrids and Their Polymer Nanocomposites.
Allocated Amount: MYR ~ 102,000

7) **Fundamental Research Grant Scheme in 2013, (FRGS2 2013; Malaysian Government Research Grant)**; Project Title: First Principal Modelling of the Fundamental Electronic Properties of Graphene Nanoflake Materials.
Allocated Amount: MYR ~ 58,600

8) **Exploratory Research Grant Scheme in 2013 (ERGS 2013; Malaysian Government Research Grant).** Project Title: Exploration and characterization of kenaf fiber-based composites for prosthetic leg socket fabrication.
Allocated Amount: MYR ~ 100,000

9) **Dean's Undergraduate Research Scheme 2013 (DURS 2013; Nottingham University Research Grant)**; Project Title: Development and degradation characterization of bioresorbable glass fibre polymer composites.
Allocated Amount: MYR ~ 30,000

10) **Exploratory Research Grant Scheme in 2012, ERGS 2012 (Malaysian Government Research Grant);** Project Title: Electrospun Nanofibre Matrix for Wound Healing and Antibacterial Activity - Development and In vitro Evaluation.
Allocated Amount: MYR ~ 50,000

11) **Malaysia Inter Doctorate Award Scheme, MIDAS Grant (Nottingham University Intercampus PhD Research Grant) in 2009;** Project Title - Characterization and failure analysis of in-situ bone substitute materials.
Allocated Amount: Full Stipend (Estimated to be MYR ~ 200,000)

12) **Faculty Research Assistant Grant in 2008 (Nottingham University Research Grant).** Project Title - Design and fabrication of tissue engineering scaffolds incorporating rapid prototyping (RP) technology and synthetic biopolymers – Towards the development of a scaffold library.
Allocated Amount: Full Stipend (Estimated to be MYR ~ 200,000)

List of Project Supervision (Postdoc, PhD and M. Eng. Only):

Postdoctoral Research

1) Bone mesh prepared from polymeric scaffold filed with ceramic material for fixation as grafting materials – **Completed in 2012,** University of Nottingham Malaysia Campus.

PhD Projects: 10

1) Study on Hemodynamic Blood Flow in Presence of Arterial Stenosis and Aneurism of Complex Geometry – **Started in 2019**

Joint Supervisor – Dr Ab Hakim, Professor, Dept of Mathematics, BUET, Bangladesh

2) Radiation Compatible Thermoplastic Elastomers (TPEs) for Medical Applications – **Completed in 2018**

Joint Supervisor - Dr Mohammad Khalid Siddiqui (Chemical Engineering, University of Nottingham Malaysia Campus; Chem Eng, University of Nottingham Malaysia Campus (UNMC)).

3) Ethnopharmacological Study on Herbs Available in Asian Market - **Completed in 2018**

Joint Supervisor: Dr Christophe Wiart (Pharmacy, University of Nottingham Malaysia Campus)

4) Electrospun Nanofibre Matrix for Wound Healing and Antibacterial Activity - Development and In vitro Evaluation – **Completed in 2017**

Collaboration with Universiti Putra Malaysia (UPM). Joint Supervisors - Dr Norshariza Nordin (UPM) and Dr Albert Tshai Kim (Department of Mechanical, Materials & Manufacturing Engineering Dept; M3 Eng, University of Nottingham Malaysia Campus)

5) Preparation and Characterization of Irradiation Modified Biocomposites Reinforced With Isolated Celloluse Nanocrystals – **Completed in 2017**

Joint Supervisors - Dr Mohammad Khalid Siddiqui (Chem Eng, University of Nottingham Malaysia Campus) and Dr Ing Kong (M3 Eng, UNMC).

6) First Principle Modelling of the Fundamental Electronic Properties of Graphene Nanoflake Materials – **Completed in 2017**

Joint Supervisor - Dr Jeffrey Frank Webb (M3 Eng, University of Nottingham Malaysia Campus)

7) Preparation and properties of irradiation modified Poly ether-ether ketone (PEEK)/graphene nanoplatelets (GNP)/ hydroxyapatite nanocrystals (HAN) blend for load-bearing bioimplants – **Completed in 2017**

Collaboration with Malaysia Nuclear Agency (MNA). Joint Supervisors - Dr. Chantara Thevy Ratnam (MNA) and Dr Mohammad Khalid Siddiqui (Chem. Eng, University of Nottingham Malaysia Campus)

8) Development of trans fatty acid (TFA) free food formulation focusing on palm-based oils and fats – **Completed in 2014**

Collaboration with the Malaysian Palm Oil Board (MPOB). Dr Miskandar Mat Sahri (MPOB) and Joint Supervisors – Dr Andrew Spowage (M3 Eng, University of Nottingham Malaysia Campus)

9) Characterization and failure analysis of in-situ bone substitute materials – **Completed in 2014**.
Collaborative MIDAS Project. Joint Supervisors – Dr Andrew Spowage (M3 Eng, UNMC) & Professor Paul Brown (M3 Eng, University of Nottingham, UK)

10) Design and fabrication of tissue engineering scaffolds incorporating rapid prototyping (RP) technology and synthetic biopolymers – **Completed in 2013**
Collaboration with Hospital Universiti Kebangsaan Malaysia (HUKM). Joint Supervisors – Prof Ruszymah Idrus (HUKM) and Prof Ian Pashby (M3 Eng, University of Nottingham Malaysia Campus)

M. Eng. Projects (Individual): 11

1) Green synthesized hydroxyapatite in combination with gelatin and chitosan as biocomposite scaffold crosslinked with genipin for bone tissue engineering application - **Started in 2020**

2) Design and development of cost-effective transfemoral prosthetic leg - **Started in 2020**

3) Development of a biomedically vibrant and economically viable composite bone plate - **Started in 2020**

4) Development of radiation-resistant materials for advanced applications **- Started in 2020**

5) Fabrication and performance evaluation of low-cost high impact resistant composite – Completed **in 2022**

6) Electrospun non-woven meshes of natural polymer blends for new generation water filtration **– Completed in 2014**

7) Montmorillonite/nanocellulose reinforced hybrid epoxy nanocomposite – **Completed in 2014**
8) Design and Development of a Prosthetic Leg – Economically Viable for Developing Countries **– Completed in 2014**

9) Effects of Acidic Environments on the Physical and Mechanical Properties of Conventional Dental Porcelain - **Completed in 2013**

10) Physical and Mechanical Characterization of Single- and Hybrid- Material Tissue Engineering Scaffolds - **Completed in 2013**

11) Design and Development of a Composite Pressure Vessel for Domestic Gas Storage **– Completed in 2012**

Thesis/Project Examiner: Total 30 (4 Book Proposal + 3 Research Proposal + 8 PhD Theses + 15 Masters Theses)

Book Proposals (4):

1) Conducting Polymers: Chemistries, Properties and Biomedical Applications. Publisher: CRC Press (Taylor & Francis Group), 2021

2) Sandwich Composites: Fabrication and Characterization. Publisher: CRC Press (Taylor & Francis), 2020

3) Agricultural Biomass Based Potential Materials. Publisher: Springer, USA, 2014

4) Contemporary Metallic Materials. Publisher: International Islamic University Malaysia (IIUM) Press, 2012

Research Project Report (3):

5) Research Project: Effects of pulsatile electromagnetic fields in treating COVID-19 patients. Ministry of Health and Family Welfare. June 2022

6) Research Project: Synthesis of Amides as Active Pharmaceutical Ingredients byUsing Metal Oxide as Reusable Heterogeneous Catalyst. Research and Innovation Centre for Science and Engineering (RISE), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, October 2021

7) Research Project: Development of Cellulose Based Wet-Spun Fiber With Improved Mechanical and Functional Properties for Wound Dressing Application. Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, January 2021

PhD Theses (8):

8) PhD Thesis: Invertigation on Mechanical and Thermal Properties of Hybrid Fiber Reinforced Polylactic Acid (Pla) Sandwich Panel Structured Composite. Universiti Putra Malaysia, 2021.

9) PhD Thesis: Development of Fish Scale-Collagen Cream (CoC) From Water-In-Virgin Coconut Oil Emulsion Medium for Topical Application. Universiti Pendidikan Sultan Idris, Malaysia, December 2018.

10) PhD Thesis: Experimental Investigation on the Performance of Composite Leaf Spring. Anna University, Chennai, India, February 2018.

11) PhD Thesis: Development of Chitosan/ Fish Scales Collagen/Glycerin/Nano-ZnO 3D Porous Scaffolds for Skin Tissue Engineering and Regeneration Applications. Universiti Pendidikan Sultan Idris, Malaysia, January 2018.

12) PhD Thesis: Studies on Radiation Protection Methodologies for In situ Shielding By Iterative Approach and Measurement. AMET University, India, October 2017.

13) PhD Thesis: Synthesis, Characterization and In Vitro Response of Nano Chitosan - HA Doped with Sr, Mg and Zn. Universiti Pendidikan Sultan Idris, Malaysia, August 2016

14) PhD Thesis: Studies on synthesis and characterization of functional methacrylate-based polymer-metal nanocomposites. Thiruvalluvar University, India, February 2016.

15) PhD Thesis: Bio-nanocomposites for packaging applications: Physico-chemical properties of poly (lactic acid)/halloysite nanotube nanocomposite films. Monash University, Australia, August 2015.

Masters Theses (Total 16):

16) Master's Thesis: Predicting The Depth Of Anesthesia For Operating Patient Using Music-Based Spectral Features Of Eeg Signals. Military Institute of Science and Technology (MIST), Bangladesh, Jan 2023

17) Master's Thesis: Fabrication of Collagen-Based Hybrid Bio-nanocomposites for Skin Tissue Engineering Vaccinated by Natural Antiseptic Agent. Bangladesh University of Textiles (BUTex), Bangladesh, 19 Sep 2022.

18) Master's Thesis: Optimum Material Distributions for Minimizing Stresses in a Rotating Functionally Graded Material Circular Disk. Bangladesh University of Engineering & Technology (BUET), Bangladesh, July 2022.

19) Master's Thesis: Prediction of Ovarian Cancer from Blood Biomarker and TVUS Data Using Machine Learning Technique. Khulna University of Engineering & Technology (KUET), Bangladesh, June 2022.

20) Master's Thesis: Electrospinning and Functionalization of Cellulose Acetate Nanofibre, Bangladesh University of Engineering And Technology, Dhaka, Bangladesh, June 2019.

21) Master's Thesis: Functionalized Bionanocomposite Films based on Alginate and Pectin for Food Packaging Applications, Monash University, Australia, March 2018.

22) Master's Thesis: Design and Fabrication of Kenaf (*Hibiscus Cannabinus L*.) Fibre Reinforced Unsaturated Polyester Composite Shoe Shelf, Universiti Putra Malaysia (UPM), Malaysia, November 2016.

23) Master's Thesis: Mechanical and Ageing Characteristics of Zirconia Doped Ceramics via Microwave Sintering Technique, University Tenaga Nasional (UniTen), Malaysia, February 2016.

24) Master's Thesis: Mechanical Properties and Morphological Studies on Pu-Ha Biocomposite, University Tenaga Nasional (UniTen), Malaysia, February 2015.

25) Master's Thesis: Development of a Prefabricated Stance-Control-Orthosis to Improve Walking Ability of Handicapped Patients. University of Malaya, Malaysia, December 2014.

26) Master's Thesis: Electrospinning of Chitosan/Halloysite Nanocomposites For Biomedical Applications. Monash University, Australia, October 2014.

27) Master's Thesis: Preparation and Characterization of Poly(Ethylene Terephthalate) (PET)/Chitosan Composite for Dental Applications, University Tenaga Nasional (UniTen), Malaysia, June 2014.

28) Master's Thesis: Mechanical Properties and Morphological Studies On Pu-Ha Biocomposite, University Tenaga Nasional (UniTen), Malaysia, February 2014.

29) Master's Thesis: A Study on Optimization, Machinability and Surface Morphology of Halloysite Nanotube with Aluminium Reinforced Epoxy Matrix (HNT/Al/Ep) Composite Board for Rapid Tooling Applications, University Tenaga Nasional (UniTen), Malaysia, June 2013.

30) Master's Thesis: The Effect of Copper Particle Addition into Sn-3.5 Ag Solder, University of Malaya, Malaysia, January 2011.

31) Master's Thesis: Production of Bioethanol from Pineapple Wastes, University of Malaya, Malaysia, August 2010.

Editorial Involvements in Journal:

1) Guest Editor (Special Issue), Materials
2) Guest Editor (Special Issue), Polymers
3) Guest Editor (Special Issue), Open Chemical Engineering
4) Member of Editorial Advising Group, Cambridge Scholars Publishing
5) Executive Editor, Journal of Bioprocessing and Biotechniques
6) Editor, Regenerative Research
7) Editor, Journal of Applied Mechanical Engineering
8) Editorial Board Member, International Journal of Nanoparticles and Nanotechnology
9) Editorial Board Member, Journal of Biomedical Science & Applications
10) Editorial Board Member, Journal of Chemical Engineering Research Updates

Journal Reviewer:

1) Materials Today; IF: 26.943
2) Trends in Biotechnology; IF: 14.343
3) ACS Sustainable Chemistry & Engineering; IF: 8.198
4) Materials & Design; IF: 8.09
5) International Journal of Biological Macromolecules; IF: 6.953
6) Tissue Engineering, Part B; IF: 6.389
7) Materials Science and Engineering C; IF: 5.880
8) Arabian Journal of Chemistry; IF: 5.165
9) Journal of Materials Research and Technology; IF: 5.289
10) Biochimie; IF: 4.079
11) Journal of Biomaterials Science: Polymer Edition; IF: 3.18
12) Journal of the Mechanical Behavior of Biomedical Materials; IF: 3.902
13) Rapid Prototyping Journal; IF: 3.095

Conference/Seminar Organized (Total 58):

1) 7th Annual World Congress of Smart Materials-2023, 08-10 February 2023, Sapporo, Japan
   Role: Session Chair

2) Global Webinar on Applied Science, Engineering and Technology (GWAET-2023) 09-10 February, 2023
   Role: Organizing Committee Member

3) International Pathogens Research eConference (Pathogens-eCon2022), 30 November 2022, London (UK) to 01 December 2022 Tokyo (Japan)
   Role: Organizing Committee Member

4) 4th International Conference on Biopolymers & Bioplastics (Biopolymers 2022), 14-15 November 2022, Rome, Italy
   Role: Organizing Committee Member

5) 3rd International conference on Biomaterials & Biodevices, November 10-11, 2022, Paris, France.
   Role: Organizing Committee Member

6) 6th International Conference on Biomaterials and Nanomaterials which will be held on October 17-18, 2022 in Rome, Italy
   Role: Organizing Committee Member

7) 3rd International Congress of Applied Chemistry and Environment (ICACE-2022), 27-29 May 2022, Zarzis, Tunisia.
   Role: Scientific Committee Member

8) 5th International Conference on Information and Computer Technologies (ICICT 2022), 4-6 March 2022, New York City, USA
   Role: Technical Committee Member

9) 3rd Global Conference & Expo on Materials Science and Engineering (ISTMAE-2021), 26-27 August 2021, Amsterdam, Netherlands.
   Role: Organizing Committee Member

10) 2nd International Conference on Biopolymers & Polymer Chemistry (ISTBPC-2021), 25-26 March 2021, Prague, Czech Republic.
   Role: Organizing Committee Member

11) 2nd Global Conference & Expo on Materials Science and Nanoscience (ISTMSN-2021), 25-26 March 2021, Prague, Czech Republic.
   Role: Organizing Committee Member

12) Global Congress & Expo on Nanotechnology. 21-22 October 2020, Rome, Italy.
   Role: Organizing Committee Member

13) 2nd World Conference on By-Products of Palm Trees and Their Applications (ByPalma), 15–17 December 2020, Kuala Lumpur, Malaysia.
   Role: Member of Scientific Committee

14) 2020 3rd International Conference on Manufacturing Technology, Materials and Chemical Engineering (MTMCE 2020), 19-21 June 2020, Hangzhou, China.
Role: Member of the International Scientific Committee

15) IEEE TENSYMP 2020, 5–7 June 2020, Dhaka, Bangladesh.
Role: Biomedical Engineering Track Chair and Member of Technical Program Committee

16) International Conference on Electrical Engineering Research and Practice (ICEERP), 24-28 November, 2019, Sydney, Australia.
Role: Member of Organizing Committee

17) IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (IEEE BECITHCON 2019), 28-30 November, 2019, Dhaka, Bangladesh.
Role: Co-Chair (Biomedical Engineering Track) and Member of Technical Program Committee

18) 5th International Conference on Advances in Electrical Engineering (ICAEE): Biomedical Engineering Track, 26-28 September 2019, Dhaka, Bangladesh
Role: Co-Chair (Biomedical Engineering Track) and Member of Technical Program Committee

19) 2nd International Translational and Regenerative Medicine Conference, April 15-17, 2019, Valencia, Spain
Role: Member of Organizing Committee

20) Seminar on Birth Defects: Social Awareness and Preventions, 03 March 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh
Role: Scientific Session Chair

21) International Conference on Health and Scientific Research and Practice (iCHSRP- 2019) 19-23 January 2019, Dhaka, Bangladesh
Role: Technical Committee Member

22) International Conference on Robotics, Electrical and Signal Processing Techniques 2019 (ICREST 2019). 10-12 January 2019, Dhaka, Bangladesh
Role: Technical Committee Member

23) 4th International Conference on Crystallography & Novel Materials, November 19-20, 2018 Bucharest, Romania
Role: Member of Organizing Committee

24) 9th International Conference on Tissue Engineering and Regenerative Medicine, 9-10 November, 2018, Atlanta, Georgia, USA
Role: Member of Organizing Committee

25) Fifth International Conference on Nanomedicine and Tissue Engineering (ICNT 2018) 12-14 October 2018, Kottayam, Kerala, India
Role: International Advisory Committee

26) 4th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT 2018), 13 – 15 September 2018, Military Institute of Science and Technology, Dhaka, Bangladesh

Role: Track Co-chair for Biomedical Engineering

27) International workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7-8 September 2018, AMET University, Chennai, India

Role: Member of Technical Committee

28) Seminar on Regenerative Medicine, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 26 July 2018

Role: Member of Organizing Committee

29) 3rd International Nanotechnology Conference & Expo (Nanotech-2), 7-9 May, 2018, Rome, Italy

Role: Member of Organizing Committee

30) International Translational and Regenerative Medicine Conference (ITRMC), April 25-27, 2018, Rome, Italy.

Role: Member of Organizing Committee

31) 4th Global Nanotechnology Congress and Expo (GNCE – 2018), 16-18 April, 2018, Dubai, UAE

Role: Member of Organizing Committee

32) International Conference on Toxicology and Clinical Pharmacology, 14 – 16 December, 2017, Rome, Italy

Role: Member of Organizing Committee

33) International Conference on Molecular Spectroscopy (ICMS 2017) 8-10 December 2017, Kottayam, Kerala, India.

Role: Member of International Advisory Committee

34) 2nd International Congress & Expo on Biotechnology and Bioengineering (Biotechnology-2017), 25-27 September 2017, Valencia, Spain.

Role: Member of Organizing Committee

35) International Conference on Emerging Technologies on Nanoelectronics and Nanomedicines (ETNEM – 2017), 11 August 2017, Chennai, India.

Role: Member of Organizing Committee

36) Global Conference and Expo on Applied Science, Management and Technology (Applied Science-2017), 6-8 April 2017, Dubai, UAE.

Role: Member of Organizing Committee

37) 2nd International Nanotechnology Conference & Expo (Nanotech-2017). 03-05 April, 2017, Dubai, UAE

Role: Member of Organizing Committee

38) International Conference on Nanomaterials, Graphene & Liquid Crystals Manufacturing (ICNGLCM-2017),15-17 March 2017, Goa, India
Role: Convener & Co-Chairman

39) 1st International Conference on Functional Nanomaterials, Graphene& Liquid Crystals Design and Applications (ICFNGLCDA 2017), 26-29 January 2017, Chennani, India.
Role: Member of Organizing Committee

40) Global Nanotechnology Congress and Expo (Nanotech-2016), 21-23 April 2016, Dubai, UAE.
Role: Member of Organizing Committee

41) International Nanotechnology Conference & Expo (Nanotech-2016), 04-06 April 2016, Baltimore, USA
Role: Member of Organizing Committee

42) 2nd World Congress and Expo on Nanotechnology and Materials Science, 04-06 April 2016, Dubai, UAE
Role: Member of Organizing Committee

43) World Congress and Expo on Materials Science & Polymer Engineering (Materials Science–2015), 26-28 November 2015, Dubai, UAE
Role: Member of Organizing Committee

44) World Congress on Dental Research (Dental-2015), 23 – 25 November 2015, Dubai, UAE.
Role: Member of Organizing Committee

45) World Congress and Expo on Nanotechnology and Materials Science (Nanotechnology – 2015), 13 – 15 April 2015, Dubai, UAE
Role: Member of Organizing Committee

46) 5th Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (MTERMS 2014), 17 – 19 September 2014, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

47) 9th International Materials Technology Conference and Exhibition (IMTCE 2014), 13 – 16 May 2014, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

48) International Conference on the Science and Engineering of Materials (ICoSEM2013), 13-14 November 2013, Kuala Lumpur, Malaysia
Role: Member of Advisory Committee

49) International Conference Management, Manufacturing and Materials Engineering (ICMMM 2013), 25 – 27 October 2013, Xi'an, China
Role: Member of Organizing Committee

50) International Conference and Exhibition on Materials Science & Engineering (Materials Science-2013), 7 – 9 October 2013, Las Vegas, USA
Role: Member of Organizing Committee

51) 6th International Conference on Advanced Computer Theory and Engineering (ICACTE 2013), 17-18 August 2013, Malé, Maldives.
Role: Member of Technical Committee

52) International Conference and Expo on Material Science & Engineering, 22-24 October 2012, Chicago-North Shore, USA.
Role: Member of Organizing Committee

53) 4th Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (4th MTERMS 2012). 3-4 June, Langkawi, Malaysia.
Role: Member of Organizing Committee

54) 7th Tissue Engineering Society Malaysia (TESMA) Seminar Series 2011. 2 May 2011, University of Nottingham Malaysia Campus, Semenyih, Malaysia.
Role: Chairman

55) 8th International Conference on Composite Science and Technology (8th ICCT). 22 – 24 March 2011, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

56) International Conference on Experimental Mechanics 2010 (ICEM 2010). 29 November - 1 December 2010, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

57) 3rd Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (3rd MTERMS 2010). 13-14 October 2010, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

58) 2nd Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (2nd MTERMS 08), 22-23 July 2008, Kuala Lumpur, Malaysia.
Role: Member of Organizing Committee

Professional Seminar/Training/Workshop Attended (Selected): 41

1) Multinary Clusters – Materials with Uncommon Properties. American Chemical Society (ACS) Science Talks Virtual. 21 April 2023.

2) Staff Development Program. Military Institute of Science and Technology (MIST), Dhaka, Bangladesh. 13 - 14 March 2023.

3) International Workshop on Hybrid Composites for Railway Applications, Bangkok, Thailand (Virtual), 18 February 2022.

4) Staff Development Program. Military Institute of Science and Technology (MIST), Dhaka, Bangladesh. 16 - 20 January 2022.

5) International Online Workshop on Palm Byproducts: A Springboard to Circular Bioeconomy. Kuala Lumpur, Malaysia. 27 April 2021.
6) Webinar on NUS Engineering's Distinguished Leader's Lecture. Organized by Faculty of Engineering, National University of Singapore (NUS), Singapore. 19 Feb 2021.

7) 51st Asia Pacific Advanced Network Meeting, Islamabad, Pakistan (February 1 – 5, 2021), Patroned by Bangladesh Research and Education Network (BdREN), University Grants Commission of Bangladesh (UGC), Bangladesh.

8) International Webinar on Natural Products Chemistry. 29 January 2021, Organized by International Science Programme (ISP), Uppsala University, Sweden supported Research Group BAN:04, Department of Chemistry, University of Dhaka, Bangladesh.

9) International Webinar on Cooperativism, Self-management and Decentralized Development. 27 – 30 August 2020, Organized (Online) by Mahatma Gandhi University and Kerala Institute of Local Administration (KILA), Kerela, India.

10) Seminar on Explore the challenges and benefits of flexible working. 18 June 2020, Organized (Online) by Royal Society of Chemistry, UK

11) International Seminar on COVID-19 Testing in Pandemic Management and the Race for an Effective Vaccine, 21 August 2020, Organized (Online) by University of Dhaka, Bangladesh

12) International Seminar on A Journey to Chemical, Biological and Clinical Research. will be held virtually on 28 August 2020, Organized (Online) by University of Dhaka, Bangladesh

13) Seminar on Medical Coding Opportunities Among Health Care Professionals. 29 May 2020, Organized (Online) by GRT Institute of Engineering and Technology, Tiruttani, India

14) Seminar on Sustainable Energy Sectors Development: Its challenges and Energy Security of Bangladesh. 01 October 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh

15) Seminar on Growing Cyber Threats Around the World and Preparedness for Bangladesh. 04 August 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh.

16) Workshop on Integrated Design Project (IDP) and Capstone Project - Towards Outcome Based Education (OBE). 03 April 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh

17) Seminar on Firefighting - Towards Safe Living and Working Environment. April 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh

18) Seminar on Birth Defects: Social Awareness and Preventions, 03 March 2019, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh

19) Seminar on Postgraduate Study Ordinance, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 13 August 2018

20) Seminar on ANSYS Software, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 07 August 2018

21) Seminar on Mental Health – A Motivational Talk, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 22 July 2018

22) AQUAwareness Seminar & Exhibition on World Water Day, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 01 April 2018

23) Seminar on Research Methodology, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 21 March 2018

24) Seminar on Fatigue Behavior of Composite Biomaterials, Military Institute of Science and Technology (MIST), Dhaka, Bangladesh, 28 January 2018

25) Workshop on Self Study Report for Program, King Faisal University, 6 – 7 March 2017

26) Workshop on Annual Program Report, King Faisal University, 29 February 2016

27) Workshop on Program Specifications, King Faisal University, 22 February 2016

28) Training on Active Teaching and Learning, King Faisal University, 2 – 3 December 2015

29) Training on Dignity at the Work. University of Nottingham Malaysia Campus, 12 August 2015.

30) Training on Emotional Intelligence at the Workplace – A competitive advantage. University of Nottingham Malaysia Campus, 11-12 May 2015

31) Training on Creative Thinking & Problem-Solving Skills. University of Nottingham Malaysia Campus, 18-19 December 2014

32) Pilot Course on Researcher Connect. British Council, Singapore, October 2014

33) Training on Introduction to Development Needs Analysis and Goal-Setting for Supervisors. University of Nottingham Malaysia Campus, 9 April 2014

34) Academic Misconduct Training. The University of Nottingham Malaysia Campus, 25 March 2014

35) Training on Academic Misconduct, University of Nottingham Malaysia Campus, March 2014

36) Training on Higher Education (Teaching Dialogue & Teaching Development), University of Nottingham Malaysia Campus, Jan 2013 – Dec 2013

37) University-Wide Moodle Training. The University of Nottingham Malaysia Campus, 2 May 2012.

38) PhD supervision training. The University of Nottingham Malaysia Campus, 25 – 26 November 2010.

39) Seminar on Staff Development. University of Nottingham Malaysia Campus, Malaysia. March 13, 2008.

40) Workshop on M ATLAB & Simulink, Science & Technology Complex, University Technology MARA, Malaysia. March 5, 2008.

41) Biomechanics Course 2008. Department of Orthopaedic Surgery, University of Malaya, Malaysia. February 23-24, 2008.

Technical Skills: Trained on the Following Equipment:

• Confocal Laser Microscope (CLM) • Differential Scanning Calorimeter (DSC) • Fine Sputter Coater (JFC-1200) • Freeze Dryer • Light Microscope • Mercury Porosimeter1	• Microplate Reader • Modern Microbraiding Machine • Scanning Electron Microscope (SEM) • Universal Testing Machine • Ultra Gas Pycnometer • Water Contact Angle Measurement

List of Publications – Prof Dr M Enamul Hoque

Journal Papers (Total 130; 111 Published + 19 Under Review):

1) Adib Bin Rashid, Abu Saleh Md. Nakib Uddin, Fahima Akter Azrin, Khondokar Safin Kaosar Saad, **Md Enamul Hoque**. 3D Bioprinting in the era of 4th Industrial Revolution – Insights, Advanced Applications, and Future Prospects. Rapid Prototyping Journal (Accepted on 04 April 2023).

2) Md Rubel Alam, Md Abdus Shahid, Shah Alimuzzaman, Md Mehedi Hasan, **Md Enamul Hoque**. Electrospun bio-nano hybrid scaffold from collagen, Nigella sativa, and chitosan for skin tissue engineering application. Journal of Bioactive and Compatible Polymers. Published on March 30, 2023; https://doi.org/10.1177/08839115231162365

3) Adib Bin Rashid, Nazmir-Nur Showva, Md Enamul Hoque. Gelatin-based scaffolds: An intuitive support structure for regenerative therapy. Current Opinion in Biomedical Engineering. Current Opinion in Biomedical Engineering, 2023, 26, 100452; https://doi.org/10.1016/j.cobme.2023.100452

4) Shashank Shekhar, Md Enamul Hoque, Pramendra Kumar Bajpai, Habibul Islam & Bhasha Sharma. Chemical upcycling of plastics as a solution to the plastic trash problem for an ideal, circular polymer economy and energy recovery. Environment, Development and Sustainability, 2023 DOI: https://doi.org/10.1007/s10668-023-03003-8

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5) Md Zillur Rahman, Maliha Rahman, Tariq Mahbub, Md Ashiquzzaman, Suresh Sagadevan, Md Enamul Hoque. Advanced biopolymers for automobile and aviation engineering applications. Journal of Polymer Research, 2023, 30, 106. DOI: https://doi.org/10.1007/s10965-023-03440-z

6) Faris AL-Oqla, **Md Enamul Hoque**. Structural Integrity and Performance of a Novel Chemically Treated Cellulosic Paper Corn / Polyester Sustainable Biocomposites. Functional Composites and Structures. **DOI:** 10.1088/2631-6331/acbf20.

7) Adib Bin Rashid, Shariful Islam Shishir, Md. Azim Mahfuz, Md. Tanvir Hossain, Md Enamul Hoque. Silica Aerogel: Synthesis, Characterization, Applications, and Recent Advancements. Particle and Particle Systems Characterization. Published on 09 February 2023; https://doi.org/10.1002/ppsc.202200186

8) Md. Rubel Alam, Shah Alimuzzaman, Md. Abdus Shahid, Fahmida-E-Karim, **Md Enamul Hoque**. Collagen/Nigella sativa/chitosan inscribed electrospun hybrid bio-nanocomposites for skin tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2023, 16, 1-22 DOI: 10.1080/09205063.2023.2170139

9) **Md Enamul Hoque**, Shifat Al Hasnayeen Riham and Md. Abdul Alim Shuvo. A cost-effective prosthetic leg: Design and development. Hybrid Advances, 2023, Volume 2, 100017; https://doi.org/10.1016/j.hybadv.2022.100017

10) Huaizhong Xu, Shinichi Yagi, Sherry Ashour, Lei Du, Md Enamul Hoque, and Lin Tan. A Review on Current Nanofiber Technologies: Electrospinning, Centrifugal Spinning, and Electro-Centrifugal Spinning. Macromolecular Materials and Engineering. Published on 26 October 2022 https://doi.org/10.1002/mame.202200502

11) **Md Enamul Hoque,** Nazmir-Nur Showva, Mansura Ahmed, Adib Bin Rashid, Sarder Elius Sadique, Tarek El-Bialy, Huaizhong Xu. Titanium and Titanium Alloys in Dentistry: Current Trends, Recent Developments, and Future Prospects. Heliyon, 2022, 8(11), e11300; https://doi.org/10.1016/j.heliyon.2022.e11300

12) Rahman S.M.A, Salah Issa, Mamdouh El Haj Assad, Sheikh Khaleduzzaman Shah, Mohammad Ali Abdelkareem, **M. Enamul Hoque**, A.G. Olabi. Performance enhancement and life cycle analysis of a novel solar HVAC system using underground water and energy recovery technique. Thermal Science and Engineering Progress, 2022, 36, 101515; https://doi.org/10.1016/j.tsep.2022.101515

13) Balaji Ayyanar Chinnapan, Marimuthu Krishnaswamy, Huaizhong Xu, **Md Enamul Hoque**. Electrospinning of Biomedical Nanofibers/Nanomembranes: Effects of Process Parameters. Polymers, 2022, 14(18), 3719; https://doi.org/10.3390/polym14183719

14) AL-Oqla, F.M., Alaaeddin, M.H., **Hoque, M.E**., Thakur, V.K. Biopolymers and Biomimetic Materials in Medical and Electronic-Related Applications for Environment–Health–Development Nexus: Systematic Review. *Journal of Bionic Engineering* (2022). https://doi.org/10.1007/s42235-022-00240-x

15) Sankar Rajan, K. Marimuthu, C. Balaji Ayyanar, **Md Enamul Hoque**. Development and in-vitro characterization of HAP blended PVA/PEG bio-membrane. Journal of Materials Research and Technology. Journal of Materials Research and Technology, 18, 4956-4964, 2022. https://doi.org/10.1016/j.jmrt.2022.04.130

16) Md Zillur Rahman, **Md Enamul Hoque**, Md Rubel Alam, Md Abdur Rouf, Saiful Islam Khan, Huaizhong Xu, and Seeram Ramakrishna. Face Masks to Combat Coronavirus (COVID-19)—Processing, Roles, Requirements, Efficacy, Risk and Sustainability, Polymers, 14(7), 1296, 2022. doi: 10.3390/polym14071296

17) Balaji Ayyanar Chinnappan, Marimuthu Krishnaswamy, Mugilan Thanigachalam, Huaizhong Xu, Saiful Islam Khan, **Md Enamul Hoque**. Fabrication, Characterization and In Vitro Assessment of Laevistrombus canarium-Derived Hydroxyapatite Particulate-Filled Polymer Composite for Implant Applications, Pol*ymers* 14 (5), 872, 2022. https://doi.org/10.3390/polym14050872

18) Enock Siankwilimba, Jacqueline Hiddlestone-Mumford, Bernard Hang'ombe Mudenda, Chisoni Mumba, **Md Enamul Hoque**. COVID-19 and the Sustainability of Agricultural Extension Models. International Journal of Applied Chemical and Biological Sciences, 3(1), 1-20, 2022. https://identifier.visnav.in/1.0001/ijacbs-21l-05003/

19) Tamrin Nuge, Xiaoling Liu, Kim Yeow Tshai, Siew Shee Lim, Norshariza Nordin, **Md Enamul Hoque**, Ziqian Liu. Accelerated wound closure: Systematic evaluation of cellulose acetate effects on biologically active molecules release from amniotic fluid stem cells. Biotechnology and Applied Biochemistry, 69(3), 906-919, 2022; https://doi.org/10.1002/bab.2162

20) Tawsifur Rahman, Amith Khandakar, Md Enamul Hoque, Nabil Ibtehaz, Saad Bin Kashem, Reehum Masud, Lutfunnahar Shampa, Mohammad Mehedi Hasan, Mohammad T. Islam, Somaya Al-Madeed, Susu M. Zughaier, Saif Badran, Suhail A. R. Doi,Muhammad E. H. Chowdhury. Development and Validation of an Early Scoring System for Prediction of Disease Severity in COVID-19 Using Complete Blood Count Parameters. IEEE Access, 9, 120422, Published 16 Aug 2021. **DOI:** 10.1109/ACCESS.2021.3105321.

21) Biswas, M.C., Jony, B., Nandy, P.K., Chowdhury, R.A., Halder, S., Kumar, D., Ramakrishna, S., Hassan, M., Ahsan, M.A., **Hoque, M.E.,** Imam, M.A. Recent Advancement of Biopolymers and Their Potential Biomedical Applications. J Polym Environ (2021). Published 13 June 2021. https://doi.org/10.1007/s10924-021-02199-y

22) J Anita Lett, Suresh Sagadevan, Is Fatimah, **Md Enamul Hoque**, Yogeswaran Lokanathan, Estelle Léonard, Solhe F Alshahateet, Romana Schirhagl, Won Chun Oh. Recent advances in natural polymer-based hydroxyapatite scaffolds: Properties and applications. European Polymer Journal, 148, 110360, 2021. https://doi.org/10.1016/j.eurpolymj.2021.110360.

23) Tamrin Nuge, Ziqian Liu, Xiaoling Liu, Bee Chin Ang, Andri Andriyana, Hendrik Simon Cornelis Metselaar, **Md Enamul Hoque**. Recent advances in scaffolding from natural-based polymers for volumetric muscle injury. Molecules, 26(3), 699, 2021. https://doi.org/10.3390/molecules26030699.

24) **Md Enamul Hoque**, Asif Mahmud Rayhan, Samira Islam Shaily. Natural Fiber-Based Green Composites: Processing, Properties and Biomedical Applications. Applied Science and Engineering Progress, 2021. DOI: 10.14416/j.asep.2021.09.005.

25) Shek Rahman, Hegazy Rezk, Mohammad Ali Abdelkareem, **Md Enamul Hoque**, Tariq Mahbub, Sheikh Shah, Ahmed M. Nassef. Predicting Drying Performance of Osmotically Treated Heat Sensitive Products Using Artificial Intelligence. CMC-Computers, Materials & Continua 67(3), 3143-3160, 2021. doi:10.32604/cmc.2021.015048

26) K Karthik, D Radhika, D Gnanasangeetha, K Gurushankar, **ME Hoque**. Two-dimensional based hybrid materials for photocatalytic conversion of carbon dioxide into hydrocarbon fuels: A mini review. Physics and Chemistry of Solid State, 22 (1), 132-140, 2021. https://doi.org/10.15330/pcss.22.1.132-140

27) SMA Rahman, AM Nassef, H Rezk, MEH Assad, **ME Hoque.** Experimental investigations and modeling of vacuum oven process using several semi-empirical models and a fuzzy model of cocoa beans. Heat Mass Transfer 57, 175–188 (2021). https://doi.org/10.1007/s00231-020-02943-5

28) Mohsen Golieskardi, Meenaloshini Satgunam, Dinesh Ragurajan, **Md Enamul Hoque**, Angela Min Hwei Ng. Microstructural, Tribological, and Degradation Properties of Al2O3- and CeO2-Doped 3 mol.% Yttria-Stabilized Zirconia Bioceramic for Biomedical Applications. Journal of Materials Engineering and Performance, 29, 2890–2897, 2020; https://doi.org/10.1007/s11665-020-04829-3

29) Md. Eaqub Ali, **Md Enamul Hoque**, SK Safdar Hossain, Manik Chandra Biswas. Nanoadsorbents for Wastewater Treatment – Next Generation Biotechnological Solution. International Journal of Environmental Science and Technology, Published online on 26 May 2020; DOI: https://doi.org/10.1007/s13762-020-02755-4

30) T Nuge, KY Tshai, SS Lim, N Nordin, **ME Hoque**. Characterization and optimization of the mechanical properties of electrospun gelatin nanofibrous scaffolds. World Journal of Engineering. Vol. 17(1), pp. 12-20, 2020; https://doi.org/10.1108/WJE-04-2019-0119

31) Varun Prasath Padmanabhan, Ravichandran Kulandaivelu, Vijayaraj Venkatachalam, Sarath Chandra Veerla, Faruq Mohammad, Hamad A. Al-Lohedan, Won Chun Oh, Romana Schirhagl, Prasanna Kumar Obulapuram, **Md Enamul Hoque**, Suresh Sagadevan. Influence of sonication towards the physicochemical and biological characteristics of selenium substituted hydroxyapatites. New Journal of Chemistry. Published online on 22 Sep 2020; https://doi.org/10.1039/D0NJ03771K

32) Mohsen Golieskardi, Meenaloshini Satgunam, Dinesh Ragurajan, **Md Enamul Hoque**, Angela Min Hwei Ng & Lohashenpahan Shanmuganantha (2019). Advanced 3Y-TZP bioceramic doped with Al2O3 and CeO2 potentially for biomedical implant applications, Materials Technology. Vol. 34(8), pp. 480-489, 2019; DOI: 10.1080/10667857.2019.1578912

33) Varun Prasath Padmanabhan, Sankara Narayanan, T.S.N., Suresh Sagadevan, **Md Enamul Hoque** and Ravichandran Kulandaivelu. Advanced lithium substituted hydroxyapatite nanoparticles for antimicrobial and hemolytic studies. New Journal of Chemistry. Vol **43(47)**, pp. 18484-18494, 2019; https://doi.org/10.1039/C9NJ03735G

34) **Md Enamul Hoque**, Sumona Azad, Mansura Ahmed, Sk S M Tareq Aziz Shovon, Md. Tareq Aziz, Sharjis Ibne Wadud. A Low-Cost Multichannel Prosthetic Hand: Design and Development. International Journal of Mathematics and Computers in Simulation, Vol. 13, pp. 9-13, 2019.

35) **M. Enamul Hoque**, J. Mahmoud Ghorban Daei, M. Khalid. Next Generation Biomimetic Bone Tissue Engineering Matrix From Poly (L- Lactic Acid) Pla/Calcium Carbonate Composites Doped With Silver Nanoparticles. Current Analytical Chemistry. Vol. 14(3), pp. 268 – 277, 2018; **DOI**: 10.2174/1573411013666171003155024

36) **M Enamul Hoque**, A. Maryanne Peiris, S. M. Atiqure Rahman, M. Abdul Wahab. New Generation Antibacterial Nanofibrous Membrane For Potential Water Filtration. Current Analytical Chemistry. Vol. 14(3), pp. 278 – 284, 2018; DOI: 10.2174/1573411013666171009162832.

37) S. Sagadevan, Z. Z. Chowdhury, M. R. Bin Johan, R. F. Rafique, F. A. Aziz, **M. Enamul Hoque**, R. Suriakarthick. Investigation on Optical, Dielectric And In Vitro Anti-Inflammatory Responses of Titanium Dioxide (Tio2) Nanoparticles. Digest Journal of Nanomaterials and Biostructures Vol. 13(3), pp. 641 – 652, 2018.

38) Md A Wahab, Nazrul Islam, **M Enamul Hoque** and David James Young. Recent Advances in Silver Nanoparticle Containing Biopolymer Nanocomposites for Infectious Disease Control – A Mini Review. Current Analytical Chemistry. Vol. 14(6), pp. 198 - 202, 2018; **DOI**: 10.2174/1573411013666171009163829

39) **Md Enamul Hoque**, Wahab M A, Daei J M G, Chuan Y L. Polycaprolactone (PCL) based synthetic biopolymers for modern scaffold-based tissue engineering. International Journal of Applied Science - Research and Review. Vol. 5, pp. 56, 2018; DOI: 10.21767/2394-9988-C2-006

40) Sagadevan S, Chowdhury ZZ, Johan M. RB, Khan A.A, Aziz FA, F. Rafique R, **Hoque M.E**. A facile hydrothermal approach for catalytic and optical behavior of tin oxide- graphene (SnO2/G) nanocomposite. PLoS ONE 13(10): e0202694, 2018. https://doi.org/10.1371/journal.pone.0202694.

41) Isha Das, Suresh Sagadevan, Zaira Zaman Chowdhury, **M Enamul Hoque**. Development, optimization and characterization of a two step sol-gel synthesis route for ZnO/SnO2 nanocomposite. Journal of Materials Science: Materials in Electronics, Vol. 29(5), pp. 4128–4135, 2018; https://doi.org/10.1007/s10854-017-8357-5

42) S. M. Sapuan, Mohammad Jawaid, **M. Enamul Hoque**. Biopolymers and Biocomposites: Chemistry and Technology. Current Analytical Chemistry. Vol. 14(3), pp. e184, 2018; DOI: 10.2174/1573411014031805071150 57.

43) Dinesh Ragurajan, Mohsen Golieskardi, Meenaloshini Satgunam, **Md Enamul Hoque,** Angela Ng Min Hwei, Mariyam Jameelah Ghazali, Ahmad Kamal Ariffin. Advanced 3Y-TZP Bioceramic Doped with Al2O3 and MnO2 Particles Potentially for Biomedical Applications: Study on Mechanical and Degradation Properties. Journal of Materials Research and Technology, Vol. 7(4), 2018, pp. 432–442; https://doi.org/10.1016/j.jmrt.2017.05.015

44) **M Enamul Hoque**. Robust formulation for the design of tissue engineering scaffolds: A comprehensive study on structural anisotropy, viscoelasticity and degradation of 3D scaffolds fabricated with customized desktop robot based rapid prototyping (DRBRP) system. Materials Science and Engineering C, Vol. 72, 2017, pp. 433–443, 2017; http://dx.doi.org/10.1016/j.msec.2016.11.019.

45) Suresh Sagadevan, Zaira Zaman Chowdhury, **Md Enamul Hoque** and Jiban Podder. Chemically stabilized reduced graphene oxide/zirconia nanocomposite: synthesis and characterization. Materials Research Express, Vol. 4(11), Paper ID 115031, pp 1-13, 2017.

46) Suresh Sagadevan, Kaushik Pal, Zaira Zaman Chowdhury, **M. Enamul Hoque**. Structural, dielectric and optical investigation of chemically synthesized Ag-doped ZnO nanoparticles composites. Journal of Sol-Gel Science and Technology. Vol. 83(2), pp 394–404, 2017; DOI 10.1007/s10971-017-4418-8.

47) T. Nuge, K. Y. Tshai, S. S. Lim, N. Nordin, **M. E. Hoque**. Preparation And Characterization Of Cu, Fe-, Ag-, Zn- And Ni- Doped Gelatin Nanofibers For Possible Applications In Antibacterial Nanomedicine. Journal of Engineering Science and Technology, Vol. 12 (Special Issue 3), pp. 68-81, 2017

48) S. Md Atiqure Rahman, **M. Enamul Hoque**, Saidur Rahman, M. Mahbubur Rahman. A Novel Vortex Tube-Assisted Atmospheric Freeze-Drying System: Effect of Osmotic Pretreatment on Biological Products. Journal of Food Process Engineering. Vol. 40, pp. e12449 (11 pages), 2017; https://doi.org/10.1111/jfpe.12449.

49) Suresh Sagadevan, Jagpreet Singh, Kaushik Pal, Zaira Zaman Chowdhury, **Md Enamul Hoque**. Hydrothermal synthesis of zinc stannate nanoparticles spectroscopic investigation. Journal of Materials Science: Materials in Electronics, Vol. 28(15), pp 11268–11274, 2017; DOI:10.1007/s10854-017-6916-4.

50) Suresh Sagadevan, Kaushik Pal, **Enamul Hoque**, Zaira Zaman Chowdhury. A chemical synthesized Al-doped PbS nanoparticles hybrid composite for optical and electrical response. Journal of Materials Science: Materials in Electronics, Vol. 28(15), pp 10902–10908, 2017; DOI:10.1007/s10854-017-6869-7.

51) Suresh Sagadevan, Kaushik Pal, Zaira Zaman Chowdhury, **Md Enamul Hoque**. Structural, optical and dielectric investigation of $CdFe_2O_4$ nanoparticles. Materials Research Express, Vol. 4 (7), pp. 1-12, 2017; https://doi.org/10.1088/2053-1591/aa77b5

52) **M. Enamul Hoque**, Arsalan Maroof Khan, M. S. Islam, M. Asim, M. Jawaid, O. A. Othman. Effects of natural degradation on the mechanical and morphological properties of tropical woods. Cellulose Chemistry and Technology, Vol. 50(7-8), pp. 723-730, 2016; http://www.cellulosechemtechnol.ro/firstonline.php.

53) S.M. Sapuan, W.H. Haniffah, Faris M. AL-Oqla, Y. Nukman, **M. Enamul Hoque**, M.L. Sanyang. Effects of Reinforcing Elements on the Performance of Laser Transmission Welding Process in Polymer Composites: A Systematic Review. International Journal of Performability Engineering, Vol. 12(6), pp. 535-550, 2016.

54) Mohammad Reza Ketabchi, Mohammad Khalid, Chantara Thevy Ratnam, Sivakumar Manickam, Rashmi Walvekar, **Md Enamul Hoque**. Sonosynthesis of Cellulose Nanoparticles (CNP) from Kenaf Fiber: Effects of Processing Parameters. Fibers and Polymers, Vol. 17(9), pp. 1352-1358, 2016; DOI: 10.1007/s12221-016-5813-4

55) Feven Mattews Michael, Mohammad Khalid, Rashmi Walvekar, Chantara Thevy Ratnam, Suganti Ramarad, Humaira Siddiqui, **M. Enamul Hoque**. Effect of Nanofillers on the Physico-Mechanical Properties of Load Bearing Bone Implants. Materials Science and Engineering C Vol. 67, pp. 792–806, 2016; DOI:10.1016/j.msec.2016.05.037

56) Feven Mattews Michael, M. Khalid, C.T. Ratnam, Ching Yern Chee, W. Rashmi, **M.E. Hoque**. Sono-synthesis of nanohydroxyapatite: Effects of process parameters. Ceramics International, Vol. 42(5), pp. 6263–6272, 2016; DOI:10.1016/j.ceramint.2016.01.009

57) Feven Mattews Michael, M. Khalid, C.T. Ratnam, W. Rashmi, M.E. Hoque, M. Reza Ketabchi. Nanohydroxyapatite synthesis using optimized process parameters for load-bearing implant. Bulletin of Materials Science, Vol. 39(1), pp. 133-145, 2016; DOI: 10.1007/s12034-015-1120-8

58) **M. Enamul Hoque**, Tan Wei Jin, Saied H. Mohamed. Physical and mechanical characteristics of conventional dental porcelain: effects of exposure environments. Materials Letters, Vol. 143, pp. 67-70, 2015; DOI:10.1016/j.matlet.2014.12.085

59) Sai Aditya Pradeep, G. Prem Kumar, A.R. Phani, R.G.S.V. Prasad, **M. Enamul Hoque**, H.L. Raghavendra. Fabrication, characterization and in vitro osteogenic potential of polyvinyl pyrrolidone-titania (PVP-TiO) nanofibers. Analytical Chemistry Letters, Vol. 5(2), pp.61-72, 2015; www.tandfonline.com/doi/pdf/10.1080/22297928.2015.1048728

60) K.Y. Tshai, H.J. Tan, P.S. Khiew, **M.E. Hoque** and C.H. Chia. Effects of Aluminum Trihydrate on the Flame-Retardant and Smoke-Suppressant Properties of Natural Fibres Filled Composites. Polymers Research Journal. 9(2), 181-195, 2015.

61) Faris M. AL- Oqla, S. M. Sapuan, T. Anwer, M. Jawaid, **M. E. Hoque**. Natural fiber reinforced conductive polymer composites as functional materials: A review. Synthetic Metals, Vol. 206, pp. 42 – 54, 2015; DOI:10.1016/j.synthmet.2015.04.014

62) W. H. Haniffah, S. M. Sapuan, K. Abdan, M. Khalid, M. Hasan, **M. Enamul Hoque**. Kenaf fibre reinforced polypropylene composites: effect of cyclic immersion on tensile properties. International Journal of Polymer Science, Vol. 2015, Article ID 872387, pp. 1-6, 2015; http://dx.doi.org/10.1155/2015/872387

63) S.M. Atiqure Rahman, **M. Enamul Hoque**, S. Rahman and M. Hasanuzzaman. Osmotic Dehydration of Pumpkin Using Response Surface Methodology - Influences of Operating Conditions on Water Loss and Solute Gain. Journal of Bioprocessing & Biotechniques, Vol. 5(5), pp. 1 – 6, 2015; DOI: 10.4172/2155-9821.1000226

64) M. Asim, Khalina Abdan, M. Jawaid, M. Nasir, Zahra Dashtizadeh, M. R. Ishak, **M. Enamul Hoque** and Y. Deng. A Review on Pineapple Leaves Fibre and Its Composites. International Journal of Polymer Science, Article ID 950567, pp. 1- 16, 2015; http://dx.doi.org/10.1155/2015/950567

65) Y. Leng Chuan, **M. Enamul Hoque**, Chan Jian Sheng, Saktiyaramana Karpayah and Mohammad Hossein Sharifi. Applying Nature's Best Ideas to Biomimetics: Frog Calling. Journal of Applied Mechanical Engineering, Vol. 4(1), pp. 1-2, 2015; DOI: 10.4172/2168-9873.1000150

66) A. Azali, S. M. Sapuan, Zulkifli Abdul Rahman, N. M. Adam, Mahbub Hasan, **M. Enamul Hoque**. Temperature profile of produced gas in oil palm biomass fluidized bed gasifier: Effect of fibre/shell composition ratio. Journal of Bioprocessing & Biotechniques, Vol. 5(8), Paper Id. 245, pp. 1-6; 2015; DOI: 10.4172/2155-9821.1000245

67) **M. Enamul Hoque**, Tamrin Nuge, Tshai Kim Yeow, Norshariza Nordin, R.G.S.V. Prasad. Gelatin Based Scaffolds For Tissue Engineering – A review. Polymers Research Journal, Vol. 9(1), pp. 15-32, 2015.

68) Azizeh-Mitra Yousefi, **Md Enamul Hoque**, R.G.S.V.Prasad, Nicholas Uth. Current strategies in multiphasic scaffold design for osteochondral tissue engineering: A review. Journal of Biomedical Materials Research: Part A, Vol. 103(7), pp. 2460-2481, 2015; DOI: 10.1002/jbm.a.35356

69) **M. Enamul Hoque**, Terrence Teh Hooi Meng, Y. Leng Chuan, Moniruddin Chowdhury, R.G.S.V. Prasad. Fabrication and characterization of hybrid PCL/PEG 3D scaffolds for potential tissue engineering applications. Materials Letters, Vol. 131, pp. 255 - 258, 2014; DOI:10.1016/j.matlet.2014.05.111

70) **M. Enamul Hoque**, M. A. M. Aminudin, M. Jawaid, M. S. Islam, N. Saba, M. T. Paridah. Physical, Mechanical, and Biodegradable Properties of Meranti Wood Polymer Composites. Materials & Design, Vol. 64, pp. 743, 2014; Doi: 10.1016/j.matdes.2014.08.024

71) Sheikh Imranudin Sheikh-Ali, Akil Ahmad, Siti-Hamidah Mohd-Setapar, Zainul Akmal Zakaria, Norfahana Abdul-Talib, Aidee Kamal Khamis, **Md Enamul Hoque**. The potential hazards of Aspergillus sp. in foods and feeds, and the role of biological treatment: A review. Journal of Microbiology, Vol. 52(10), pp. 807-818, 2014; DOI: 10.1680/bbn.14.00014

72) Sheik Mohideen Mohamed Nainar, Shahida Begum, M. N. M. Ansari, **Md. Enamul Hoque**, S. Sharen Aini, M. H. Ng, B. H. I. Ruszymah. Effect of compatibilizers on in vitro biocompatibility of PLA-HA bioscaffold. Bioinspired, Biomimetic and Nanobiomaterials, Vol. 3(4), pp. 208-216, 2014; DOI: 10.1680/bbn.14.00014

73) K. Y. Tshai, A. B. Chai, I. Kong, **M. E. Hoque** and K. H. Tshai. Hybrid Fibre Polylactide Acid Composite with Empty Fruit Bunch: Chopped Glass Strands. Journal of Composites, Vol. 2014, Article ID 987956, pp. 1- 7, 2014; Doi: 10.1155/2014/987956

74) **M. Enamul Hoque**, Nurul Sakinah, Y. Leng Chuan, M.N.M. Ansari. Synthesis and Characterization of Hydroxyapatite Bioceramic. International Journal of Scientific Engineering and Technology, Vol. 3(5), pp. 458, 2014.

75) Y. L. Chuan, **M. Enamul Hoque**. Engineering and Biomimetics: Harnessing Light Energy for Sustainability. Journal of Applied Mechanical Engineering. Vol. 3, pp. e131, 2014; doi:10.4172/2168-9873.1000e131.

76) **M. Enamul Hoque**, L. Weng Lum, M.N.M. Ansari. Computational Characterization of Porous and Mechanical Properties of 3D Scaffolds for Potential Tissue Engineering Applications. International Journal of Science, Engineering And Technology, Vol. 2(4), pp. 138, 2014.

77) **M Enamul Hoque**, Tan Wei Jin, Saied Hamd Mohamed, Moniruddin Chowdhury. Physical and Mechanical Characterization of Conventional Dental Porcelain: Study On Environmental Effects. Regenerative Research, Vol. 3(2), pp. 154, 2014.

78) **M. Enamul Hoque**, R.G.S.V. Prasad. Lab-on-a-chip: A mechanistic approach for biological screening. Journal of Applied Mechanical Engineering. Vol. 3(2), pp. e127, 2014; DOI: 10.4172/2168-9873.1000e127.

79) Sharen Aini S, Mohamed Nainar S, Shahida Begum, Ansari MNM, Vicki WV, **Hoque ME**, Ng MH and Ruszymah BHI. Biocompatibility Screening Of Biomaterials For Bone Tissue Engineering – Study Of The Osteogenic Cell Morphology And Attachment Behaviour In Vitro. Regenerative Research, Vol. 3(2), pp. 171, 2014.

80) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby, S. Sheren Aini, Angela Ng Min Hwei, Ruszymah Idrus. Hybrid and Single Design Scaffolds for New Generation Tissue Engineering Applications. Advanced Science, Engineering and Medicine, Vol. 6(1), pp. 92, 2014; DOI: http://dx.doi.org/10.1166/asem.2014.1462

81) Sivaruby Kanagaratnam, **M. Enamul Hoque**, Miskandar Mat Sahri and Andrew Spowage. Investigating the effect of deforming temperature on the oil-binding capacity of palm oil based shortening. Journal of Food Engineering, Vol. 118(1), pp. 90, 2013; DOI:10.1016/j.jfoodeng.2013.03.021

82) **Md Enamul Hoque**, R.G.S.V. Prasad. Rapid Prototyping Technology in Bone Tissue Engineering. Journal of Applied Mechanical Engineering, Vol. 2(5), pp. e124, 2013; DOI: 10.4172/2168-9873.1000e124.

83) **Md Enamul Hoque**, Muhammad Shehryar, Khandakar Md Nurul Islam. Processing and characterization of cockle shell calcium carbonate ($CaCO_3$) bioceramic for potential application in bone tissue engineering. Journal of Material Sciences & Engineering. Vol 2(4), pp. 132, 2013; doi.org/10.4172/2169-0022.1000132

84) Moniruddin Chowdhury, **M Enamul Hoque**, Rajamanickam Baskar, William Ying Khee Hwang. Umbilical cord blood stem cells as a source of non-hematopoietic cells: Role in regenerative medicine. Regenerative Research. Vol. 2(2), pp. 1, 2013

85) **Md Enamul Hoque**, Tan Jie Ye, Leng Chuan Yong, and KhairulZaman Mohd Dahlan. Sago Starch-Mixed Low-Density Polyethylene Biodegradable Polymer: Synthesis and Characterization. Journal of Materials, Vol. 2013, Article ID 365380, 7 pages, 2013; DOI:10.1155/2013/365380

86) Tamrin Nuge, **M Enamul Hoque**, Tshai Kim Yeow, Norshariza Nordin, Moniruddin Chowdhury. Electrospun gelatin composite nanofibres: A review on structural and mechanical characterizations. Regenerative Research. Vol. 2(2), pp. 39-42, 2013.

87) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby, Rusnah Mustaffa, S. Sheren Aini, Angela Ng Min Hwei, Ruszymah Idrus. Single and Hybrid Design Polycaprolactone (PCL) Scaffolds: Cell Culture Study. Journal of Materials Science and Engineering A, Vol. 3 (5), pp. 315, 2013

88) Yong L. Chuan, **Md. E. Hoque**, and Ian Pashby. Prediction of patient-specific tissue engineering scaffolds for optimal design. International Journal of Modeling and Optimization, Vol. 3, No. 5, pp. 468-470, 2013; DOI: 10.7763/IJMO.2013.V3.322

89) **M. Enamul Hoque**, Lu Pui Gee. Biodiesel from Plant Resources - Sustainable Solution to Ever Increasing Fuel Oil Demands. Journal of Sustainable Bioenergy System, Vol. 3, pp. 163-170, 2013; **DOI:** 10.4236/jsbs.2013.33023

90) **Md Enamul Hoque,** Tamrin Nuge, Tshai Kim Yeow and Norshariza Nordin. Electrospinning of Gelatin Nanofibre: Current Trends in Tissue Engineering Applications. Journal of Applied Mechanical Engineering. Vol. 2(4), pp e122, 2013; doi: 10.4172/2168-9873.1000e122

91) **M. Enamul Hoque**, Thayabaran Ramasamy, Tamrin Nuge. Hybrid Nanofibre Matrix for Regenerative Therapy Fabricated by Electrospinning: Effects of Process Parameters on the Fibre Efficacy. Journal of Nanomedicine and Biotherapeutic Discovery. Vol. 4(1), pp 118, 2013; http://dx.doi.org/10.4172/2155-983X.1000118 (Ranked as Best Paper in the Issue).

92) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby, Angela Ng Min Hwei. Extrusion Based Rapid Prototyping Technique: An Advanced Platform for Tissue Engineering Scaffold Fabrication. Biopolymers, Vol 97(2), pp. 83, 2012.

93) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Development of PCL-PEG Hybrid Tissue Engineering Scaffolds Using Extrusion Based Rapid Prototyping System. Regenerative Research, Vol. 1, Supplement 1, pp. 22, 2012.

94) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby, S. Sheren Aini, A. Ng Min Hwei, Ruszymah Idrus. 3D Multi-Architectural Tissue Engineering Scaffolds: Degradation and Cell Culture Study. Journal of Applied Mechanical Engineering Vol. 1(3), pp. e106, 2012; DOI: http://dx.doi.org/10.4172/2168-9873.1000e106

95) **M. Enamul Hoque**, Yong Leng Chuan, Ian Pashby. Mathematical Modeling on Degradation of 3D Tissue Engineering Scaffold Materials. Regenerative Research, Vol. 1, No. 1, pp. 58, 2012.

96) **M. E. Hoque** and Obbard J. Philip. Biotechnological Recovery of Heavy Metals from Secondary Sources – An Overview. Materials Science and Engineering C, Vol. 31, pp. 57, 2011. **This article was ranked 4th out of the "Hottest 25 articles published in Materials Science and Engineering: C in 2011" – Evaluated by Elsevier Publisher in March 2012.**

97) **M. Enamul Hoque**, Amrit Singh, Yong Leng Chuan. Biodiesel from low cost feedstocks: The effects of process parameters on the biodiesel yield. Biomass and Bioenergy, Vol 35(4), pp. 1582, 2011.

98) **M. E. Hoque**, Y. L. Chuan, Ian Pashby, Angela Ng Min Hwei, Ruszymah Idrus. Process Optimization to Improve the Processing of Poly(DL-Lactide-co-Glycolide) into 3D Tissue Engineering Scaffolds. International Federation for Medical and Biological Engineering Proceedings, Vol. 35, pp. 836, 2011.

99) **M. Enamul Hoque.** Rapid Prototyping Technique – Today's and Tomorrow's Technology to Develop 3D Tissue Engineering Scaffold. The Medical Journal of Malaysia, Vol. 65, Supplement B, pp. 33, 2010.

100) **M. Enamul Hoque**, L. Festus Oguichen, Angela Ng, Ruszymah Idrus. Physical Model of a Dynamic Bioreactor Prototype for Skin Tissue Culture. Medical Journal of Malaysia, Vol. 65, Supplement B, pp. 109, 2010.

101) M.Y. Yusof, W.S. Wan Abdullah, V. Tharmalingamm, A.N. Ahmad Puad, **M. E. Hoque**. Corrosion Detection in Pipeline by Laser Speckle Correlation. NDT Spectra, Vol. 4, pp. 14, 2010.

102) W.S. Wan Abdullah, M.Y. Yusof, A.N. Ahmad Puad, **M. E. Hoque**. Analysis of corrosion in pressurized pipelines by advanced laser shearography. Engineering e-Transaction, Vol. 4, No. 1, pp. 51, 2009.

103) **M. Enamul Hoque,** Y. S. Wong, W. Feng, S. Li, M-H Huang, M. Vert, D. W. Hutmacher. Processing of Polycaprolactone and Polycaprolactone-Based Copolymers into 3D Scaffolds, and Their Cellular Responses. Tissue Engineering: Part A, Vol. 15, No. 10, pp. 3013, 2009. **This article was ranked 1st out of the "Top 10 Articles Published in the Same Domain" – Evaluated by BioMedLib in September 2010.**

104) **M. Enamul Hoque**, D. Wijewardena, S. Mei Tan, S. M. Fadhlan, Angela Ng, Ruszymah Idrus. Design of an Incubator-Suited Bioreactor for Dynamic Tissue Culture – A Prototype. Tissue Engineering and Regenerative Medicine, Vol. 6, No. 12, pp. S125, 2009.

105) **M. Enamul Hoque**, W. Feng, Y.S. Wong, D.W. Hutmacher, S. Li, M-H Huang, M. Vert. In vitro physical and mechano-chemical properties of biodegradable scaffolds fabricated with PCL and PCL-PEG. International Federation for Medical and Biological Engineering Proceedings. Vol. 21, No. 3, pp. 821, 2008.

106) **M. Enamul Hoque**, W. Feng, Y.S. Wong, D.W. Hutmacher, S. Li, M-H Huang, M. Vert, P.J. Bártolo. Scaffolds Designed and Fabricated with Elastic Biomaterials Applying CAD-CAM Technique. Tissue Engineering: Part A, Vol.14, No. 5, pp.907, 2008.

107) **Hoque, M. E.**, Zainal, N. H., Syarif J. Investigation on mechanical properties of contemporary metallic bone plates – Towards the development of composite bone plates. Medical Journal of Malaysia, Vol. 63, Supplement A, pp. 91, 2008.

108) **M. E. Hoque**, H.-Q. Mao, And S. Ramakrishna. Hybrid braided 3-D scaffold for bioartificial liver assist devices. Journal of Biomaterials Science: Polymer Edition, Vol. 18, No. 1, pp. 45, 2007.

109) **M. Enamul Hoque**, Y.S. Wong, W. Feng, L. Suming, M.-H. Huang, M. Vert and D.W. Hutmacher. Accelerated degradation of 3-D scaffolds fabricated with various architectures using various biopolymers via rapid prototyping technology. Journal of Biomechanics, Vol. 39, Supplement 1, pp. S261, 2006.

110) **M. Enamul Hoque**, Hutmacher Dietmar W, Feng Wei, S. Li, M-H Huang, M. Vert, Wong YS. Characterization of scaffolds-evaluation of the effect of material, scaffold architecture and test environment on mechanical properties. Tissue Engineering Part A, Vol.12, No. 4, pp.1079, 2006.

111) **M. E. Hoque**, D. W. Hutmacher, W. Feng, S. Li, M-H Huang, M. Vert, Wong Y S. Fabrication using a rapid prototyping system and in vitro characterization of PEG-PCL-PLA scaffolds for tissue engineering. Journal of Biomaterials Science: Polymer Edition, Vol. 16, No. 12, pp. 1595-1610, 2005, DOI: 10.1163/156856205774576709.

Journal Papers (Under Review): 20

112) Enock Siankwilimba, Chisoni Mumba, Bernard Hang'ombe Mudenda, Joshua Munkombwe, Jacqueline Hiddlestone-Mumford, Munyaradzi A. Dzvimbo, **Md Enamul Hoque**. Sustainable Agricultural Extension Delivery in Traditional Bioecosystems: Effects of Various Factors. Environment, Development and Sustainability (Under Review).

113) Balaji Ayyanar Chninnappan; K. Marimuthu; B. Gayathri; **Md Enamul Hoque**. Characterization Laevistrombus Canarium Fillers Loaded PVA/PEG Biomebrane. Biomass Conversion and Biorefinery (Under Review).

114) **Md Enamul Hoque**, Asif Mahmud Rayhan, Samira Islam Shaily, Faris M. AL-Oqla. Orthopedic Bone Plate Application of Biomaterials: Underpinning Science and Technology. Journal of Biomedical Materials Research Part A (Under Review).

115) **Md Enamul Hoque**, Sadia Mannan Shanta, Rhythem Tahrin, Saem Chowdhury, Zarin Tasnim, Md. Abdul Alim Shuvo, Shifat Al Hasnayeen Riham. A Benign Way of Measuring Hemoglobin in Blood – Towards Development of a Non-invasive Method. Hybrid Advances (Under Review).

116) Md. Selim Hossain, **Md Enamul Hoque**, Mohammed Saad Aleissa, A.B.M. Sharif Hossain, Shuvo Sen, Md. Habibur Rahman, Mir Mohammad Azad. PCF-based Octagonal Chemical Sensor Design to Detect Benzene, Ethanol, and Water in Terahertz Spectrum. Applied Sciences (Under Review).

117) Mahatab Bin Rashid, **Md Enamul Hoque**, Kamruzzaman Nayem, Tousif Reza, Yashdi Saif Autul. Advanced Materials in Energy - Comparison Between Lithium-Ion Batteries and Solid Oxide Fuel Cell (SOFC), and Applications of Advanced Materials in SOFC. Journal of Materials Science (Under Review).

118) A. Subashini; Sagadevan Suresh; J. Anita Lett; Is Fatimah; Saiful Izwan Abd Razak; Faruq Mohammad; **Md. Enamul Hoque**; Tetsuo Soga. Hydrothermal synthesis and physicochemical characterization of Gd-ZnO nanostructures for biological applications. Applied Physics A (Under Review).

119) Sazedur Rahman, Somya Sadaf, **Md Enamul Hoque**, Akash Mishra, Jawed Iqbal, Valeria De Matteis, Seeram Ramakrishna, Jagpreet Singh. Unleashing the Promise of Emerging Nanomaterials as a Sustainable Platform to Mitigate Antimicrobial Resistance. Science of the Total Environment (Under Review).

120) **Md Enamul Hoque**, Mirajul Alam Sarker, Kiswa Arif, M. Azam Ali, Tarek El-Bialy. Antibacterial/Antiviral Face Mask: Processing, Characteristics, Challenges, and Sustainability. MIST International Journal of Science and Technology (Under Review).

121) **Md Enamul Hoque**, A S M Mahadiuzzaman, Shafiul Alam, Zarin Tasnim Chawdhury, Mohiuddin Hasan, Adib Bin Rashid. Visual Neuroprostheses for Impaired Human Nervous System: The State of the Art and Future Outlook. Brain Structure and Function (Under Review).

122) Adib Bin Rashid, Nahiyan Kabir, Fahim Ferdin Rifat, Hasin Ishrak, **Md Enamul Hoque**. Synthesis of Cellulose Nano Crystal, Its Properties, Advanced Applications, and Future Prospectives. European Polymer Journal (Under Review).

123) Shashank Shekhar, **Md Enamul Hoque**, Mirajul Alam Sarker, Amit Kumar, Ajay Kumar Bhagi, Navneet Manav, Kiran Pal Singh, Bhasha Sharma, Sabu Thomas. Insights of Pathophysiology and Therapeutics for COVID-19. Expert Review of Respiratory Medicine (Under Review).

124) Muammer Din Arif, **Md Enamul Hoque**, Seeram Ramakrishna. Current and Emerging Directions in Green Nanomaterials: Synthesis, Physicochemical Properties and Applications. Electrochimica Acta (Under Review).

125) **Md Enamul Hoque**, Habibul Islam, Tamrin Nuge, Daisy Joseph. Nanoferrites for Effective Cancer Detection: Towards Enhanced Magnetic and Optical Image Processing. Journal of Nanomaterials (Under Review).

126) Varun Prasath Padmanabhan, Prakash Natrajan, Sankara Narayanan T.S.N., Suresh Sagadevan, Romana Schirhagl, **Md Enamul Hoque**, Ravichandran Kulandaivelu. Synthesis of Nanoporous Hydroxyapatite Using Gum Ghatti as a Surfactant for Drug Delivery and Tissue Engineering Applications. Materials Science & Engineering C (Under Review).

127) Zayed Bin Zakir Shawon, **Md Enamul Hoque**. Hydroxyapatite bioceramic-filled biocomposites: Processing, microstructure, properties, and performances. Journal of Materials Engineering and Performance (Under Review).

128) **Md Enamul Hoque**, Mehrab Sadat, Bipin Thapa, Kumar Shrestha, Habibul Islam, Hassan Mehboob. Correlation Between Vocational Rehabilitation and Lower-Income Amputees in Developing Countries: Overview, Challenges and Ways to Overcome the Hurdles. Quality of Life Research (Under Review).

129) **M Enamul Hoque**, M Abu Saif Tahsin, S Laila Ayesha, S M Rezowan Kabir, Hassan Mehboo. Vertebral Disc Degeneration: Current Practices, Recent Developments and Future Prospects. Journal of Biological Engineering (Under Review).

130) **Md Enamul Hoque**, Sk Laila Ayesha, Md Abu Saif Tahsin, Taslima Jahan Tonny, Vaibhav Jaiswal, Subramani Kanagaraj. Knee prosthesis for arthroplasty using 3D printing technology – Current practices, recent developments and future prospects. Journal of Orthopaedic Research (Under Review).

131) **Md Enamul Hoque**, Ashiq E Mustafa, Navid Anjum Leon, Sk Laila Ayesha, Subramani Kanagaraj, Vaibhav Jaiswal. Recent advances in hip joint replacement: Biomechanical and Biomaterials Aspects. American Journal of Orthopedics (Under Review).

Edited Special Issues in Journals (5 Issues)

1) Lalit Mohan Pandey, **Md Enamul Hoque**, Mahesh Kumar Joshi (Guest Editors). Special Issue on 'Advances in Bionanocomposites for Biomedical Engineering', Materials, 2022 (Under Review).

2) **Md Enamul Hoque**, Lalit Mohan Pandey (Guest Editors). Special Issue on 'Advances in Biochemical Engineering for Biomedical Applications', The Open Chemical Engineering Journal (Under Review).

3) M E H Chowdhury, **Md Enamul Hoque** (Guest Editors). Special Issue on 'Machine Learning Applications in Polymeric Biomaterials', Polymers (Under Review).
4) S.M. Sapuan, M. Jawaid and **M.E. Hoque** (Guest Editors), Current Analytical Chemistry. Vol. 14(3), 2018.

5) S.M. Sapuan, R. Wirawan, **M.E. Hoque**, Y.A. El-Shekeil and A. Mamun (Guest Editors). Special Issue on 'Kenaf Fibre Composites', Advances in Materials Science and Engineering, 2014.

Book Publications: 18 Books (11 Published + 7 Under Review), Authored 96 Book Chapters (70 Published + 26 Under Review)

Books: 11 Published + 7 Under Review

1) **M. Enamul Hoque**, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications. Elsevier, UK 2022. https://www.elsevier.com/books/advanced-polymer-nanocomposites/hoque/978-0-12-824492-0

2) Senthil Muthu Kumar Thiagamani, **Md Enamul Hoque**, Senthilkumar Krishnasamy, Chandrasekar Muthukumar, Habil Suchart Siengchin (Eds). Vibration and Damping Behavior of Biocomposites. CRC (Taylor & Francis Group), USA, 2022. https://doi.org/10.1201/9781003173625

3) **M. Enamul Hoque**, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites For Biomedical Engineering: Design, Properties, And Applications (1st Edition). Elsevier, UK, 2021. https://www.elsevier.com/books/green-biocomposites-for-biomedical-engineering/hoque/978-0-12-821553-1

4) Anish Khan, Francis Verpoort, Abdullah Asiri, **Md Enamul Hoque**, Anwar Bilgrami, Mohammad Azam, Kadiyala Chandra Babu Naidu (Eds). Metal-Organic Frameworks For Chemical Reactions: From Organic Transformations to Energy Applications. Elsevier, USA, 2021. https://www.elsevier.com/books/metal-organic-frameworks-for-chemical-reactions/khan/978-0-12-822099-3

5) Catalin Pruncu, Selim Gürgen, **M. Enamul Hoque** (Eds). Fiber-Reinforced Polymers: Processes and Applications. Nova Science Publishers, USA, 2021. https://novapublishers.com/shop/fiber-reinforced-polymers-processes-and-applications/

6) M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, **M. Enamul Hoque** (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. http://www.springer.com/gp/book/9783319079431

7) Y. Leng Chuan, **M. Enamul Hoque**. Modern Concept of New Generation Hybrid Tissue Engineering Scaffold: A Rapid Prototyping Approach. Scholars' Press, Germany, 2014. https://www.amazon.com/Modern-Concept-Generation-Engineering-Scaffold/dp/3639669606

8) **M. Enamul Hoque** (Ed). Rapid Prototyping Technology - Principles and Functional Requirements. InTech Publisher, Uk, 2011. https://www.intechopen.com/books/rapid-prototyping-technology-principles-and-functional-requirements

9) **M. Enamul Hoque** (Ed). Advanced Applications of Rapid Prototyping Technology in Modern Engineering. InTech Publisher, UK, 2011. https://www.intechopen.com/books/advanced-applications-of-rapid-prototyping-technology-in-modern-engineering

10) **M. Enamul Hoque**. Tissue Engineering Scaffold and Rapid Prototyping Technology. Lambert Academic Publishing (LAP), Germany, 2010. https://www.amazon.com/Tissue-Engineering-Scaffold-Prototyping-Technology/dp/3838349296

11) **M. Enamul Hoque.** Bioartificial Liver Assist System: Tissue Engineering Challenges. Lambert Academic Publishing (LAP), Germany, 2010. https://www.amazon.com/Bioartificial-Liver-Assist-System-Engineering/dp/3838314603

12) **Md Enamul Hoque**, Kheng Lim Goh, Suresh Sagadevan (Eds). Advanced Bioceramics: Processing, Properties and Applications. CRC (Taylor & Francis Group), USA (Accepted)
13) Bhasha Sharma, **Md Enamul Hoque**, Shreya Sharma. Polysaccharides: Advanced Polymeric Materials. CRC (Taylor & Francis Group), USA (Accepted)

14) **M. Enamul Hoque**, R. Kumar, Ian Gibson. Current Trends in 3D Printing for Biomedical Applications. Elsevier, UK (Under Review)

15) KM. Ramkumar, R. Senthilkumar, **Md Enamul Hoque** (Eds). Advanced Mammalian Cell Culture Techniques - Principles and Practices. CRC (Taylor & Francis Group), USA (Under Review)

16) **Md Enamul Hoque**, Sunita Negi, Azam Ali (Eds). Nanomachines for Drug Delivery. Elsevier, UK (Under Review)

17) **Md Enamul Hoque**, Suresh Sagadevan. Biowastes to Bioproducts: Resources, Processes and Applications. Springer Nature, USA (Under Review).

18) Mohit Hemath Kumar, M. Irfan Iqbal, Sanjay Mavinkere Rangappa, Suchart Siengchin, **Md Enamul Hoque**. Advanced Inorganic Filler-Based Polymer Composites. CRC (Taylor & Francis Group), USA (Under Review)

Chapters in Books: Total 97 (70 Published + 27 Under Review)

1) Foysal Anwar, Asrafuzzaman, Kazi Faiza Amin, Md Enamul Hoque. Tools and techniques for characterizing sustainable hydrogels. In: Sabu Thomas, Purnima Jain, Bhasha Sharma, Shreya Sharma, Shashank Shekhar (Eds). Sustainable Hydrogels: Synthesis, Properties, and Applications, Elsevier, UK, 2023. https://doi.org/10.1016/B978-0-323-91753-7.00014-4

2) Zayed Bin Zakir Shawon, Moshiur Rahman Khan, Nusra Akter Takia, Tausif Hasan Khan, Ayesha Rahman, Md Enamul Hoque. Structure-property-function relationships of sustainable hydrogels. In: Sabu Thomas, Purnima Jain, Bhasha Sharma, Shreya Sharma, Shashank Shekhar (Eds). Sustainable Hydrogels: Synthesis, Properties, and Applications, Elsevier, UK, 2023. https://doi.org/10.1016/B978-0-323-91753-7.00017-X

3) Syed Zubair Ali, Md Khalid Nahian, **Md Enamul Hoque**. Extraction of Cellulose from Agro-Industrial Wastes. In: Showkat Bhawani, Anish Khan, Fasihuddin Badruddin Ahmad (Eds). Extraction of Natural Products from Agro-Industrial Wastes: A Green and Sustainable Approach, Elsevier, UK, 2023. https://doi.org/10.1016/B978-0-12-823349-8.00013-7

4) Pranta Ray, **Md Enamul Hoque**, M. Azam Ali. Sodium alginate nanoadsorbents for wastewater treatment: synthesis and characterizations. In: Abdullah M. Ahmed Asiri, Tahseen Kamal, Ikram Ahmad, Sobia Tabassum, Awais Ahmad (Eds). Sodium Alginate Base Nanomaterials for Wastewater Treatment. Elsevier, UK, https://doi.org/10.1016/B978-0-12-823551-5.00014-8

5) Habibul Islam, **Md Enamul Hoque** and Muhammad H. Hasan. Biodegradability of polyolefins: Processes and procedures. In: Anjana Sarkar, Bhasha Sharma, Shashank Shekhar, Shreya Sharma (Eds). Biodegradability of Conventional Plastics: Opportunities, Challenges, and Misconceptions. Elsevier, UK, 2022. https://www.elsevier.com/books/biodegradability-of-conventional-plastics/sarkar/978-0-323-89858-4

6) Md Zillur Rahman, M Mahfuza Khatun and **Md Enamul Hoque**. Plastic waste to plastic value: Role of industrial biotechnology. In: Anjana Sarkar, Bhasha Sharma, Shashank Shekhar, Shreya Sharma (Eds). Biodegradability of Conventional Plastics: Opportunities, Challenges, and Misconceptions. Elsevier, UK, 2022. https://www.elsevier.com/books/biodegradability-of-conventional-plastics/sarkar/978-0-323-89858-4

7) Yashdi Saif Autul, Rowfi Khan, Muhammad Ifaz Shahria Chowdhury, **Md Enamul Hoque** and Suresh Sagadevan. Synthesis of Two-dimensional Hybrid Materials, Unique Properties, and Challenges. In: Kishor Kumar Sadasivuni, Karthik Kannan, Aboubakr M Abdullah, Bijandra Kumar (Eds). 2D Nanomaterials for CO2 Conversion into Chemicals and Fuels. Royal Society of Chemistry, UK, 2022; https://doi.org/10.1039/9781839165542-00064

8) Muhammad Ifaz Shahriar Chowdhury, **Md Enamul Hoque** and Shek Md Atiqure Rahman. CO2 Conversion to Chemicals and Fuel Cells Using Renewable Energy Sources. In: Kishor Kumar Sadasivuni, Karthik Kannan, Aboubakr M Abdullah, Bijandra Kumar (Eds). 2D Nanomaterials for CO2 Conversion into Chemicals and Fuels. Royal Society of Chemistry, UK, 2022; https://doi.org/10.1039/9781839165542-00126

9) Habibul Islam, **Md Enamul Hoque**, Carlo Santulli. Polymer Nanocomposites for Biomedical Applications. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00016-7

10) Mamun Rabbani, Sharjis Ibne Wadud, **Md Enamul Hoque**. Polymer Nanocomposites for Microelectronic Devices and Biosensors. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00002-7.

11) Kazi Faiza Amin, Asrafuzzaman, Ayeman Mazdi Nahin, **Md Enamul Hoque**. Polymer Nanocomposites for Adhesives and Coatings. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00014-3

12) Muhammad Ifaz Shahriar Chowdhury, Yashdi Saif Autul, Sazedur Rahman, **Md Enamul Hoque**. Polymer Nanocomposites for Automotive Applications. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00010-6

13) Asrafuzzaman, Kazi Faiza Amin, Aungkan Sen, **Md Enamul Hoque**. Polymer Nanocomposites for Energy. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00007-6

14) Adib Bin Rashid, **Md Enamul Hoque**. Polymer Nanocomposites for Defense Applications. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00015-5

15) Habibul Islam, **Md Enamul Hoque**. Polymer Nanocomposites for Packaging. In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00008-8

16) Md. Rubel Alam, Tarikul Islam, Md. Reazuddin Repon and Md Enamul Hoque. Carbon-based polymer nanocomposites for electronic textiles (e-textiles). In: Md Enamul Hoque, R. Kumar, Ahmed Sharif (Eds). Advanced Polymer Nanocomposites: Science, Technology and Applications, Elsevier, UK, 2022. DOI: https://doi.org/10.1016/B978-0-12-824492-0.00020-9

17) Md Sarif Sakaeyt Hosen, Md Jaynal Abedin, **Md Enamul Hoque**. Factors Affecting the Vibration and Damping Characteristics of Polymer Composites. In: T. Senthil Muthu Kumar, Md Enamul Hoque, K. Senthilkumar, M. Chandrasekar, Habil Suchart Siengchin. Vibration and Damping Behavior of Biocomposites, CRC (Francis & Tailors), USA, 2022.

18) Muhammad Ifaz Shahriar Chowdhury, Yashdi Saif Autul, **Md Enamul Hoque**. Free Vibration and Damping Properties of the Pineapple Leaf Fiber- and Sisal Fiber-Based Polymer Composites. In: T. Senthil Muthu Kumar, Md Enamul Hoque, K. Senthilkumar, M. Chandrasekar, Habil Suchart Siengchin. Vibration and Damping Behavior of Biocomposites, CRC (Francis & Tailors), USA, 2022.

19) Md Mahmudul Haque Milu, Anika Anjum, Md Asadur Rahman, **Md Enamul Hoque**. Influence of Compatibilizer on Free Vibration and Damping Behavior of Polymer Biocomposites. In: T. Senthil Muthu Kumar, Md Enamul Hoque, K. Senthilkumar, M. Chandrasekar, Habil Suchart Siengchin. Vibration and Damping Behavior of Biocomposites, CRC (Francis & Tailors), 2022. https://doi.org/10.1201/9781003173625

20) Nabila Ali, **Md Enamul Hoque**. Bionanocomposites in the Automotive and Aerospace Applications. In: M. Chandrasekar, K. Senthilkumar, T. Senthil Muthukumar, Habil Suchart Siengchin (Eds). Polymer Based Bio-nanocomposites - Properties, Durability and Applications, Springer Nature, Singapore, 2022. https://doi.org/10.1007/978-981-16-8578-1_13

21) Hosen M.S.S., Abedin M.J., **Hoque M.E.**, Rahman M.Z. (2022) Influence of Moisture Absorption on Physico-Chemical Properties of Natural Fiber-Based Hybrid Composites. In: Muthukumar C., Krishnasamy S., Thiagamani S.M.K., Siengchin S. (eds). Aging Effects on Natural Fiber-Reinforced Polymer Composites: Durability and Life Prediction. Springer, Singapore. https://doi.org/10.1007/978-981-16-8360-2_16.

22) Hosen M.S.S., **Hoque M.E.**, Rahman M.Z., Sagadevan S. (2022) Aging Effects on Mechanical Properties of Biocomposites with Recycled Polymers. In: Muthukumar C., Krishnasamy S., Thiagamani S.M.K., Siengchin S. (eds). Aging Effects on Natural Fiber-Reinforced Polymer Composites: Durability and Life Prediction. Springer, Singapore. https://doi.org/10.1007/978-981-16-8360-2_17.

23) **Md Enamul Hoque**, Zayed Bin Zakir Shawon, Dilshat Rubia Dola, Abdullah Alamin, Abu Bakkar Siddique Samrat, Tausif Hasan Khan, and Moshiur Rahman Khan. Resistive switching in bio-inspired natural solid polymer electrolytes. In: Kaushik Pal, Sabu Thomas (Eds). Functional Materials Processing for Switchable Device Modulation, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-823972-8.00008-3

24) Abolfazl Golieskardi, **Md Enamul Hoque**, Mohsen Golieskardi. Introduction to Green Biocomposites. In: Md Enamul Hoque, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites for Biomedical Engineering: Design, Properties, and Applications, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-821553-1.00002-8

25) Jarin Tusnim, **Md Enamul Hoque**. Bioresorbable Biocomposites. In: Md Enamul Hoque, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites for Biomedical Engineering: Design, Properties, and Applications, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-821553-1.00004-1

26) Reaz Ahmed Chowdhury, Arif Mohaimin Sadri, **M Enamul Hoque**. Industrial Implementations of Biocomposites. In: Md Enamul Hoque, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites for Biomedical Engineering: Design, Properties, and Applications, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-821553-1.00020-X

27) R. Kumar, P. Suresh Kumar, **Md Enamul Hoque**. Ethical Issues of Biocomposites. In: Md Enamul Hoque, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites for Biomedical Engineering: Design, Properties, and Applications, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-821553-1.00019-3

28) Manik Chandra Biswas, Pranab K. Nandy, **Md Enamul Hoque**. Safety and Health Issues of Biocomposites. In: Md Enamul Hoque, Ahmed Sharif, Mohammad Jawaid (Eds). Green Biocomposites for Biomedical Engineering: Design, Properties, and Applications, Elsevier, UK, 2021. https://doi.org/10.1016/B978-0-12-821553-1.00003-X

29) S. Ravichandran, Suresh Sagadevan, **Md Enamul Hoque**. Physical, Mechanical, and Thermal Properties of Fiber-Reinforced Hybrid Polymer Composites. In: K. Senthilkumar, T. Senthil Muthukumar, M. Chandrasekar, N. Rajini, Habil Suchart Siengchin (Eds). Natural Fibre-Reinforced Hybrid Polymer Composites: Thermal Properties and Applications, Wiley VCH, Germany, 2021.

30) Biswas M.C., Lubna M.M., Mohammed Z., Ul Iqbal M.H., Hoque M.E. (2021) Graphene and Carbon Nanotube-Based Hybrid Nanocomposites: Preparation to Applications. In: Qaiss A..K., Bouhfid R., Jawaid M. (eds) Graphene and Nanoparticles Hybrid Nanocomposites. Composites Science and Technology. Springer, Singapore. https://doi.org/10.1007/978-981-33-4988-9_3

31) Suresh Sagadevan, Mohd. Rafie Johan, **Md Enamul Hoque**, J. Anita Lett, Preeti Singh and Muthukrishnan Lakshmipathy. Advanced Hybrid Conducting Polymers: Tissue Engineering Aspects. In: Syed Shahabuddin, Mohammad Khalid, Priyanka Jagadish, Adarsh Kumar Pandey (Eds). Advances in Hybrid Conducting Polymer Technology, Springer, USA, 2021; https://doi.org/10.1007/978-3-030-62090-5_10

32) Amin K.F., Asrafuzzaman, Sharif A., **Md Enamul Hoque** (2021) Bamboo/Bamboo Fiber Reinforced Concrete Composites and Their Applications in Modern Infrastructure. In: Jawaid M., Mavinkere Rangappa S., Siengchin S. (Eds) Bamboo Fiber Composites. Composites Science and Technology. Springer, Singapore. https://doi.org/10.1007/978-981-15-8489-3_15

33) Asrafuzzaman, Amin K.F., Sharif A., Hoque M.E. (2021) Bonding Mechanism and Interface Enhancement of Bamboo Fiber Reinforced Composites. In: Jawaid M., Mavinkere Rangappa S., Siengchin S. (Eds) Bamboo Fiber Composites. Composites Science and Technology. Springer, Singapore. https://doi.org/10.1007/978-981-15-8489-3_12

34) Asrafuzzaman, Kazi Faiza Amin, **Md Enamul Hoque**. Introduction to Fiber-Reinforced Polymers. In: Catalin Iulian Pruncu, Selim Gürgen, Md Enamul Hoque (Eds). Fiber-Reinforced Polymers: Processes and Applications, Nova Science Publishers, USA, 2021.

35) Mostakima Mafruha Lubna, Zaheeruddin Mohammed, Manik Chandra Biswas, **Md Enamul Hoque**. Fiber-Reinforced Polymer Applications in Aviation. In: Catalin Iulian Pruncu, Selim Gürgen, Md Enamul Hoque (Eds). Fiber-Reinforced Polymers: Processes and Applications, Nova Science Publishers, USA, 2021.

36) R. Kumar, R. Manju, S. Vijay Ananth, **Md Enamul Hoque**, C.K. Sharath Krishnan, Frezghi Tesfom. Mechanical Properties of Fiber-Reinforced Polymers. In: Catalin Iulian Pruncu, Selim Gürgen, **Md Enamul Hoque** (Eds). Fiber-Reinforced Polymers: Processes and Applications, Nova Science Publishers, USA, 2021.

37) Muammer Din Arif, Md Asadur Rahman, Md Mahmudul Haque Milu, Abu Bakar Siddik and **Md Enamul Hoque**. Green Nanomaterials: Synthesis, Properties & Spectroscopic Applications. In: Kaushik Pal (Ed). Functional Semiconductor Nanomaterials Spectroscopic Applications, Jenny Stanford Publishing, Singapore, 2021. DOI:10.1201/9781003160335-8.

38) Manik Chandra Biswas, Mostakima Mafruha Lubna, Md Hasan Ul Iqbal, Zaheeruddin Mohammed, **Md Enamul Hoque**. Future Trends for Fiber-Reinforced Polymers. In: Catalin Iulian Pruncu, Selim Gürgen, Md Enamul Hoque (Eds). Fiber-Reinforced Polymers: Processes and Applications, Nova Science Publishers, USA, 2021.

39) **Md Enamul Hoque,** Yong Leng Chuan, Pang Ming Meng. Agro-based Green Biocomposites for Packaging Applications. In: Naheed Saba, Mohammad Jawaid, Mohamed Thariq bin Hameed Sultan (Eds). Biopolymers and Biocomposites from Agro-Waste for Packaging Applications, Elsevier, UK, 2020. https://doi.org/10.1016/B978-0-12-819953-4.00008-2

40) Tariq Mahbub, **Md Enamul Hoque**. Introduction to Nanomaterials and Nanomanufacturing for Nanosensors. In: Kaushik Pal and Fernando Gomes de Souza (Eds). Nanofabrication And Smart Nanosensor Applications, Elsevier, UK, 2020; https://doi.org/10.1016/B978-0-12-820702-4.00001-5

41) Mamun Rabbani, **M. Enamul Hoque,** Zaid Bin Mahbub. Nanosensors in Biomedical Applications: Prospects and Perspectives. In: Kaushik Pal and Fernando Gomes de Souza (Eds). Nanofabrication And Smart Nanosensor Applications, Elsevier, UK, 2020; https://doi.org/10.1016/B978-0-12-820702-4.00007-6

42) Zayed Bin Zakir Shawon, **M. Enamul Hoque,** Shiplu Roy Chowdhury. Nanosensors and Nanobiosensors: Agricultural and Food Technology Aspects. In: Kaushik Pal and Fernando Gomes de Souza (Eds). Nanofabrication And Smart Nanosensor Applications, Elsevier, UK, 2020; https://doi.org/10.1016/B978-0-12-820702-4.00006-4

43) M. Mahfuza Khatun, **M. Enamul Hoque**, Sharjis Ibne Wadud, Zayed Bin Zakir Shawon. Recent developments in nanocellulose and nanohydrogel matrices—towards stem cell research and development. In: Faruq Mohammad, Hamad A. Al-Lohedan, Mohammad Jawaid (Eds). Sustainable Nanocellulose And Nanohydrogels From Natural Sources, Elsevier, UK, 2020; https://doi.org/10.1016/B978-0-12-816789-2.00015-8.

44) Jarin Tusnim, **Md Enamul Hoque**, Sakib Abrar Hossain, Ahmed Abdel-Wahab, Ahmed Abdala, and Md A. Wahab. Nanocellulose and nanohydrogels for the development of cleaner energy and future sustainable materials. In: Faruq Mohammad, Hamad A. Al-Lohedan, Mohammad Jawaid (Eds). Sustainable Nanocellulose And Nanohydrogels From Natural Sources, Elsevier, UK, 2020; https://doi.org/10.1016/B978-0-12-816789-2.00004-3.

45) Shiplu Roy Chowdhury, Yogeswaran Lokanathan, Law Jia Xian, Fauzi Mh Busra, Muhammad Dain Yazid, Nadiah Sulaiman, Gargy Lahiry, **Md Enamul Hoque**. 3D Printed Bioscaffolds for Developing Tissue-Engineered Constructs. In: Evren Yasa (Ed). Design Engineering and Manufacturing, IntechOpen, UK. Published on 28 May 2020. DOI: 10.5772/intechopen.92418

46) Sushmita Majumder, Ahmed Sharif and **Md Enamul Hoque**. Electrospun Cellulose Acetate Nanofiber: Characterizations and Applications. In: Faris M. Al-Oqla and M Sapuan Salit (Eds). Advanced Processing, Properties, and Applications of Starch and Other Bio-Based Polymers, Elsevier, UK, 2020. https://doi.org/10.1016/B978-0-12-819661-8.00009-3

47) Jarin Tusnim, **Md Enamul Hoque**, Manik Chandra Biswas. Biopolymers in Building Materials. In: Faris M. Al-Oqla And M Sapuan Salit (Eds). Advanced Processing, Properties, and Applications of Starch and Other Bio-Based Polymers, Elsevier, UK, 2020. https://doi.org/10.1016/B978-0-12-819661-8.00012-3

48) Tilottoma Saha, **Md Enamul Hoque,** Tariq Mahbub. Biopolymers for Sustainable Packaging in Food, Cosmetics and Pharmaceuticals. In: Faris M. Al-Oqla and M Sapuan Salit (Eds). Advanced Processing, Properties, and Applications of Starch and Other Bio-Based Polymers, Elsevier, UK, 2020. https://doi.org/10.1016/B978-0-12-819661-8.00013-5

49) **Md Enamul Hoque**, Tamrin Nuge, Tshai Kim Yeow, Norshariza Nordin. Electrospun Matrices from Natural Polymers for Skin Regeneration. In: Sarat K Swain, M. Jawaid (Eds). Nanostructured polymer composites for biomedical application, Elsevier, UK, 2019. https://doi.org/10.1016/B978-0-12-816771-7.00005-3

50) Suresh Sagadevan, Aysha Fareen, **Md Enamul Hoque**, Zaira Zaman Chowdhury, Mohd. Rafie Bin Johan, Rahman F. Rafique, Fauziah Abdul Aziz, J. Anita Lett. Nanostructured Polymer Biocomposites: Pharmaceutical Applications. In: Sarat K Swain, M. Jawaid (Ed). Nanostructured polymer composites for biomedical application, Elsevier, UK, 2019. https://doi.org/10.1016/B978-0-12-816771-7.00012-0

51) Sharif A., Mondal S., Hoque M.E. (2019) Polylactic Acid (PLA)-Based Nanocomposites: Processing and Properties. In: Sanyang M., Jawaid M. (eds) Bio-based Polymers and Nanocomposites. Springer, Cham. https://doi.org/10.1007/978-3-030-05825-8_11

52) Sharif A., **Hoque M.E.** Renewable Resource-Based Polymers. In: Sanyang M., Jawaid M. (Eds) Bio-based Polymers and Nanocomposites. Springer, USA, 2019. https://doi.org/10.1007/978-3-030-05825-8_1

53) SK Safdar Hossain, **M Enamul Hoque**. Polymer Nanocomposite Materials in Energy Storage: Properties and Applications. In: M. Jawaid, M Mansoob Khan (Eds). Polymer-based Nanocomposites for Energy and Environmental Applications, Woodhead Publishing, Elsevier, UK, 2018. https://doi.org/10.1016/B978-0-08-102262-7.00009-X

54) Rahman M., Zahin F., Saadi M.A.S.R., Sharif A., **Hoque M.E.** (2018) Surface Modification of Advanced and Polymer Nanocomposites. In: Dasgupta N., Ranjan S., Lichtfouse E. (eds) Environmental Nanotechnology. Environmental Chemistry for a Sustainable World, vol 14. Springer, Cham. https://doi.org/10.1007/978-3-319-76090-2_6

55) Mohammad Khalid, Chantara Thevy Ratnam, Rashmi Walvekar, Mohammad Reza Ketabchi and **M. Enamul Hoque**. Reinforced Natural Rubber Nanocomposites: Next Generation Advanced Material. In: Mohammad Jawaid, Mohd Sapuan Salit, Othman Y. Alothman (Eds). Green Biocomposites: Design and Applications, Springer, Switzerland, 2017. https://doi.org/10.1007/978-3-319-49382-4_14

56) Asha A.B., Sharif A., Hoque M.E. (2017) Interface Interaction of Jute Fiber Reinforced PLA Biocomposites for Potential Applications. In: Jawaid M., Salit M., Alothman O. (eds) Green Biocomposites. Green Energy and Technology. Springer, Cham. https://doi.org/10.1007/978-3-319-49382-4_13

57) Khalid M., Walvekar R., Ketabchi M.R., Siddiqui H., Hoque M.E. (2016) Rubber/Nanoclay Composites: Towards Advanced Functional Materials. In: Jawaid M., Qaiss A., Bouhfid R. (eds) Nanoclay Reinforced Polymer Composites. Engineering Materials. Springer, Singapore. https://doi.org/10.1007/978-981-10-1953-1_9

58) **M. Enamul Hoque**, R.G.S.V. Prasad, and S.M. Sapuan. Conducting Polymers: Drug Delivery and Tissue Engineering. In: Munmaya Mishra (Ed). Encyclopedia of Biomedical Polymers and Polymeric Biomaterials. Taylor and Francis, USA, 2015; DOI: 10.1081/E-EBPP-120049983.

59) **M. Enamul Hoque**, R.G.S.V. Prasad, R.S.L.Aparna and S.M. Sapuan. Nanofibers: Drug Delivery. In: Munmaya Mishra (Ed). Encyclopedia of Biomedical Polymers and Polymeric Biomaterials. Taylor and Francis, USA, 2015; DOI: 10.1081/E-EBPP-120050811.

60) Mahbub Hasan, **M. Enamul Hoque**, Samia Sultana Mir, N. Saba, S. M. Sapuan. Manufacturing of Coir Fiber Reinforced Polymer Composites by Hot Compression Technique. In: M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, M. Enamul Hoque (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. https://doi.org/10.1007/978-3-319-07944-8_15

61) Mohammad Reza Ketabchi, **M Enamul Hoque**, M Khalid Siddiqui. Critical Concerns on Manufacturing Processes of Natural Fibre Reinforced Polymer Composites. In: M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, M. Enamul Hoque (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. https://doi.org/10.1007/978-3-319-07944-8_6

62) M. Arifur Rahman, Fahmida Parvin, Mahbub Hasan, **M. Enamul Hoque**. Introduction to Manufacturing of Natural Fiber Reinforced Polymer Composites. In: M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, M. Enamul Hoque (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. https://doi.org/10.1007/978-3-319-07944-8_2

63) I. Kong, K. Y. Tshai, **M. Enamul Hoque**. Manufacturing of Natural Fibre Reinforced Polymer Composites by Solvent Casting Method. In: M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, M. Enamul Hoque (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. https://doi.org/10.1007/978-3-319-07944-8_16

64) T. C. Fong, N. Saba, C. K. Liew, R. De Silva, **M. E. Hoque**, K. L. Goh. Yarn flax fibres for polymer-coated sutures and hand lay-up polymer composite laminates. In: M. Jawaid, M. Sapuan Salit, Nukman Bin Yusoff, M. Enamul Hoque (Eds). Manufacturing of Natural Fibre Reinforced Polymer Composites. Springer-Verlag, Switzerland, 2015. https://doi.org/10.1007/978-3-319-07944-8_8

65) **M.E. Hoque**, M.K. Bhuyan and S.M. Sapuan. Introduction to Engineering Composites. In: S. M. Sapuan, E. S. Zainudin, Z. Leman (Eds). Engineering Composites: Properties and Applications. UPM Press, Malaysia, 2014.

66) R.G.S.V. Prasad, Nilesh Prakash Nirmal, **M. Enamul Hoque**. 3D Organ Printing - Future Designer Organs. In: J. N. Govil (Ed). Nanotechnology Series (Volume 12). Studium Press, USA, 2014

67) S.M. Sapuan, J. Sahari, M. Haron, L. Yusriah and **M.E. Hoque.** Advances in Biofibres, Biopolymers and Biocomposites. In: S. M. Sapuan, E. S. Zainudin, Z. Leman (Eds). Engineering Composites: Properties and Applications. UPM Press, Malaysia, 2014.

68) **M. Enamul Hoque** and Y. Leng Chuan. Desktop Robot Based Rapid Prototyping System: An Advanced Extrusion Based Processing of Biopolymers into 3D Tissue Engineering Scaffolds. In: M. Enamul Hoque (Ed). Rapid Prototyping Technology - Principles and Functional Requirements. InTech Publisher, Croatia, 2011. https://www.desktop-robot-based-rapid-prototyping-system-an-advanced-extrusion-based-processing-of-biopolymers-i

69) M. Hasan, **M. E. Hoque** and S.M. Sapuan. Application of Artificial Neural Network in Composites Materials. In: S.M. Sapuan and I.M. Mujtaba (Eds). Composite Materials Technology: Neural Network Application. Taylor & Francis, USA, 2009.

70) D. W. Hutmacher, **M. E. Hoque** and Y. S. Wong. Design, Fabrication and Physical Characterization of Scaffolds Made from Biodegradable Synthetic Polymers in combination with RP Systems based on Melt Extrusion. In: Bopaya Bidanda and Paulo Bartolo (Eds). Virtual Prototyping & Bio Manufacturing in Medical Applications. Springer, USA, 2008.

Chapters Under Review: 27

71) Muhammad Ifaz Shahriar Chowdhury, **Md Enamul Hoque**. Introduction to Bioceramics (History, Background, types of bioceramics, properties and applications etc.). In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

72) Sazedur Rahman, **Md Enamul Hoque**. Processing of Bioceramics by Extrusion and Slip Casting. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

73) Anusha Thampi V V. **Md Enamul Hoque**. Structural, Chemical Electrical, Thermal and Mechanical Properties of Bioceramics. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

74) T V Rajendran, **Md Enamul Hoque**. Bioceramics for Restorative Dentistry and Periodontology. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

75) Akhila Ravikumar, **Md Enamul Hoque**. Bioceramics for Hard and Soft Tissue Engineering. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

76) Ikramul Haque, **Md Enamul Hoque**. Bioceramics for Hip and Knee Implants. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

77) Tahrima Binte Rouf, **Md Enamul Hoque**. Bioceramics for Drug Delivery. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

78) Parnab Das, **Md Enamul Hoque**. Health and Environmental Issues of Bioceramics. In: Md Enamul Hoque, Kheng Lim Goh, Suresh Sagadevan. Advanced Bioceramics: Processing, Properties and Applications, Taylor & Francis (CRC Press), USA (Under Review).

79) Mohammad Fahim Tazwar. **Md Enamul Hoque**. Inorganic nanofillers derived polymeric applications in the biomedical field. In: Bhasha Sharma (Ed). Nanofillers: Fabrication, Characterization & Applications of Organic Nanofillers, Taylor & Francis (CRC Press), USA (Under Review).

80) Tousif Reza, **Md Enamul Hoque**. Mechanical, thermal, electrical, optical, and magnetic properties of organic nanofillers. In: Bhasha Sharma (Ed). Nanofillers: Fabrication, Characterization & Applications of Organic Nanofillers, Taylor & Francis (CRC Press), USA (Under Review).

81) Habibul Islam, **Md Enamul Hoque**, Shek Md Atiqure Rahman, Faris M. AL-Oqla. Environmental impact in terms of nanotoxicity and limitations of employing organic nanofillers in polymers. In: Bhasha Sharma (Ed). Nanofillers: Fabrication, Characterization & Applications of Organic Nanofillers, Taylor & Francis (CRC Press), USA (Under Review).

82) Asif Ahmed, **Md Enamul Hoque**. Organic pollutants and their degradation via Plant nanomaterials. In: Awais Ahmad, Francis Verpoort, Ikram Ahmad, N.M.Mubarak (Eds). Green mediated synthesis-based nanomaterials for photocatalysis. Elsevier, UK (Under Review).

83) Habibul Islam, **Md Enamul Hoque**. Silver base green composite materials for environmental pollutions. In: Awais Ahmad, Francis Verpoort, Ikram Ahmad, N.M.Mubarak (Eds). Green mediated synthesis-based nanomaterials for photocatalysis. Elsevier, UK (Under Review).

84) Md. Rubel Alam, **Md Enamul Hoque**. Synthetic Polysaccharides: Adored, Deplored and Ubiquitous. In: Bhasha Sharma, Md Enamul Hoque (Eds). Polysaccharides: Advanced Polymeric Materials. Taylor & Francis, USA (Under Review).

85) Sudhakar CK, **Md Enamul Hoque**. Progress in Polysaccharides: Biotechnological Integration. In: Bhasha Sharma, Md Enamul Hoque (Eds). Polysaccharides: Advanced Polymeric Materials. Taylor & Francis, USA (Under Review).

86) Enock Siankwilimba, **Md Enamul Hoque**. Polysaccharides for Agricultural Applications: A Growing Presence on the Farms. In: Bhasha Sharma, Md Enamul Hoque (Eds). Polysaccharides: Advanced Polymeric Materials. Taylor & Francis, USA (Under Review).

87) Syeda Afsara, **Md Enamul Hoque**. Tribological properties of the bionanocomposites. In: M. Chandrasekar, K. Senthilkumar, T. Senthil Muthukumar, Habil Suchart Siengchin (Eds). Polymer Based Bio-nanocomposites - Properties, Durability and Applications, Springer Nature, Singapore (Under Review).

88) Suresh Sagadevan, **Md Enamul Hoque**. Market potential, suitability and use of the hybrid composites reinforced with natural fibres in thermal applications. In: K. Senthilkumar, T. Senthil Muthukumar, M. Chandrasekar, N. Rajini, Habil Suchart Siengchin (Eds). Natural Fibre-Reinforced Hybrid Polymer Composites: Thermal Properties and Applications, Wiley-VCH, Germany (Under Review).

89) Zayed Bin Zakir Shawon, **Md Enamul Hoque**. Biochar from the global Carbon cycle perspective and Sustainable Development Goals. In: Showkat Ahmad Bhawani et al (Eds). Biochar a Sustainable Approach: Recent Advances in Production and Applications. Springer Nature, Singapore (Under Review).

90) Tamrin Nuge, Xiaoling Liu, Yogeswaran Lokanathan, **M Enamul Hoque**. Advances and Issues in Biomaterials for Coronary Stenting. In: Mh Busra Fauzi, Law Xia Jian, Yogeswaran Lokanathan, Ruszymah Bt Hj Idrus (Eds). Functional Bio-Based Materials For Regenerative Medicine, Bentham Science (Under Review).

91) Akib Jabed, Maliha Rahman, **M Enamul Hoque**. Rapid Prototyping in Biomedical Applications: Advanced Scopes, Capabilities and Challenges. In: Mh Busra Fauzi, Law Xia Jian, Yogeswaran Lokanathan, Ruszymah Bt Hj Idrus (Eds). Functional Bio-Based Materials For Regenerative Medicine, Bentham Science (Under Review).

92) Carlo Santulli, Mirajul Alam Sarker, **Md Enamul Hoque**. Olive oil based composites. In: Showkat Ahmad Bhawani (Ed). Vegetable Oil-Based Composites - Processing, Properties and Applications. Springer, UK (Under Review).

93) Ahmed El-Gendy, Ragab Abouzeid, Ramzi Khiari and **Md Enamul Hoque**. Characterization of nanocomposite films for food packaging. In: Chandrasekar Muthukumar, Senthil Kumar Thiagamani, Senthilkumar Krishnasamy, Jyotishkumar Parameswaranpillai, Suchart Siengchin (Eds). Biocomposites for Industrial Applications (Construction, Biomedical, Transportation and Food Packaging). Elsevier, USA (Accepted).

94) Sakib Hossain Khan, Md Zillur Rahman, Mohammad Rejaul Haque, **Md Enamul Hoque**. Characterization and comparative evaluation of thermal, structural, chemical, mechanical and morphological properties. In: Ramzi Khiari, Mohammad Jawaid, Mohamed Naceur Belgacem (Eds). Fibre and Cellulosic Derivatives from Annual Plants Sources - Processing, Properties and Applications. Springer Nature, USA (Under Review).

95) Sazedur Rahman, Muhammad Ifaz Shahriar Chowdhury, **Md Enamul Hoque**. Annual plant reinforced biocomposite fiberboards – Investigation on mechanical properties. In: Ramzi Khiari, Mohammad Jawaid, Mohamed Naceur Belgacem (Eds). Fibre and Cellulosic Derivatives from Annual Plants Sources - Processing, Properties and Applications. Springer Nature, USA (Under Review).

96) Ikhtiar Mahmud, Nahid Hasan, Md Enamul Hoque. Clay nanofiller-based elastomer nanocomposites: Preparation, characterization and applications. In: Hamid Essabir, Abouelkacem Qaiss, Rachid Bouhfid (Eds). Elastomer-Based Composite and Nanocomposite Materials. Elsevier, USA (Under Review).

97) Md Enamul Hoque, Ushama Shafoyat. Biopolymers and their Composites for Biotechnological Applications. In: Sabu Thomas, Arunima R, Akhina H (Eds). Engineering Applications of Biopolymers. Wiley, Germany (Under Review).

Conference Proceedings/Presentations: (Total 100):

1) **Md Enamul Hoque** (**Keynote Speaker**). Smart Materials for Medical Devices. 7th Annual World Congress of Smart Materials-2023, 08-10 February 2023, Sapporo, Japan

2) **Md Enamul Hoque** (**Keynote Speaker)**. Composite Bone Plate for Novel Orthopedic Implant. International Forum on Biomaterials (BIOMATFORUM2023), 06-08 February 2023, Porto, Portugal.

3) **Md Enamul Hoque (Invited Speaker)**, Mirajul Islam Sarker. Electrospun r-PET/CNT nanofibrous Mat – Towards Development of Antibacterial Face Mask. 6th Virtual Edition of Polymers, Plastics and Composites (Virtual Polymers-2022), 08-09 December 2022, London, UK.

4) **Md Enamul Hoque**, Mirajul Alam Sarker, Md. Rubel Alam, Md. Kabir Hossain, Md. Abdul Gafur. Fabrication and characterization of CNT-integrated nanofibrous membrane for developing an antibacterial face mask. BCSIR Congress-2022, 01 – 03 Dec 2022, Dhaka, Bangladesh

5) **Md Enamul Hoque (Invited Speaker)**, Md Rubel Alam. Face Mask Against COVID-19 – Roles, Requirements, Efficacy and Sustainability. Pathogens Research eConference (Pathogens-eCon2022), 30 November to 01 December 2022, Tokyo, Japan

6) C Balaji Ayyanar, K Marimuthu, B Gayathri, C Bharathiraj, **Md Enamul Hoque** (**Invited Speaker**). Characterization and In-vitro Investigation of Natural Plant Extracts Blended PVA Biomembrane for Wound-Dressing. International Online Conference on Nano Materials (ICN 2022), 12-14 August 2022, Kerala, India

7) Md Zillur Rahman, **Md Enamul Hoque** (**Plenary Speaker**), Md Rubel Alam, Md Abdur Rouf, Saiful Islam Khan, Huaizhong Xu, and Seeram Ramakrishna. Face Masks to Combat Coronavirus (COVID-19)—Processing, Roles, Requirements, Efficacy, Risk and Sustainability. 5th International Webinar on Chemistry and Pharmaceutic al Chemistry, 08-09 July 2022, Kington, United Kingdom

8) **Md Enamul Hoque**, Md Abdul Alim Shuvo, Shifat Al Hasnayeen Riham. Design and Development of a Cost-Effective Prosthetic Leg. 4th IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2022 (IEEE ECBIOS 2022), **27-29 May, 2022, Tainan, Taiwan**.

9) Divya Pradip Roy, Md Zahirul Alam Chowdhury, Farhana Afrose, **Md Enamul Hoque**. Design and Development of a Cost-effective Prosthetic Hand for Upper Limb Amputees. 13th Biomedical Engineering International Conference (BMEiCON2021), 19-21 November 2021, Ayutthaya, Thailand.

10) **Md Enamul Hoque** (**Invited Speaker**). Hybrid scaffolds potential for the advanced patient-specific need of tissue engineering. 2nd Online International Conference on Materials Science and Nanomaterials, 13-14 August 2021, USA.

11) **Md Enamul Hoque** (**Invited Speaker**), Md Abu Saif Tahsin. Processing of Biomaterials Into 3D Tissue Engineering Scaffolds. International Conference on Polymer Science and Composite Materials, 05-07 July, 2021, Bucharest, Romania (Virtual).

12) **Md Enamul Hoque** (**Keynote Speaker**), Muhammad Ifaz Shahriar Chowdhury, Md Nazmul Huda. Advanced Technologies in Rapid Product Development. International Conference on Advanced Automotive and Mechanical Engineering (INCAAMS 2021), 2-3 July 2021, India (Virtual).

13) **Md Enamul Hoque** (**Keynote Speaker**), Mohammad Habibul Islam, Md Abu Saif Tahsin and Sk Laila Ayesha. Advances in biomaterials for various biomedical applications. International Conference on Science and Technology for Celebrating the Birth Centerary of Bangabandhu (ICSTB-2021), 11-13 March 2021, Dhaka, Bangladesh.

14) Farial Tasnim, Mohiuddin Ahmed Sajeeb and **Md Enamul Hoque**. Design and development of a low-cost trans-femoral prosthesis for the amputees of Bangladesh. International Conference on Science and Technology for Celebrating the Birth Centerary of Bangabandhu (ICSTB-2021), 11-13 March 2021, Dhaka, Bangladesh.

15) Pranta Ray, Jun Ma, **Md Enamul Hoque**, M Abdul Gafur. Synthesis and characterization of hydroxyapatite derived from cockle (Pila globosa) shell waste. International Conference on Science and Technology for Celebrating the Birth Centerary of Bangabandhu (ICSTB-2021), 11-13 March 2021, Dhaka, Bangladesh.

16) **M. Enamul Hoque (Invited Speaker)**, Sk S M Tareq Aziz Shovon, Mansura Ahmed, Sumona Azad, Md Tareq Aziz, Sharjis Ibne Wadud. A Low-Cost Multichannel Prosthetic Hand: Design And Development. International Conference on Biomathematics and Modeling (ICBM-19), 31 August 2019, Guwahati, Assam, India.

17) M Enamul Hoque **(Invited Speaker)**. 3D Hybrid Scaffold for Modern Regenerative Therapy - Towards Bioartificial Liver Support System. 2nd International Conference of Bangladesh Stem Cell & Regenerative Medicine Society, 04 November 2018, Dhaka, Bangladesh

18) Hoque M E (Keynote Speaker). Advanced Nanotechnology in Regenerative Therapy – Current Trends, Recent Developments and Future Prospects of Skin Regeneration. **International workshop on Recent Advances in Nanotechnology and Applications (RANA-2018), 7-8 September 2018, AMET University, Chennai, India**

19) **Hoque M E (Invited Speaker)**, Wahab M A, Daei J M G, Chuan Y L. Vibrant 3D Scaffolds for Advanced Regenerative Therapy – An Emerging Technology. 3rd International Conference on Medical Physics in Radiation Oncology and Imaging (ICMPROI-2018), 10-12 March 2018, Dhaka, Bangladesh.

20) **M. Enamul Hoque**. Enhancement of mechanical property of gelatin nanofibers through optimization of electrospinning process parameters by response surface methodology (RSM). The 6th Annual World Congress of Molecular Medicine 2017, 25-27 September 2017, Xi'an, China

21) **M. Enamul Hoque**. Natural polymer nanofibers – An emerging nanomedicine towards efficient wound healing. International Conference on Emerging Technologies on Nanoelectronics And Nanomedicines (ETNEM – 2017), 11 August 2017, Chennai, India

22) Feven MM, Khalid M, Ratnam CT, **Hoque ME**. Advanced Nanohydroxyapatite Bioceramic Potentially for Bone Regeneration: Synthesis and Characterization. 210th International Conference on Medical and Biosciences (210th ICMBS), 16 - 17 July 2017, Zurich, Switzerland.

23) Anika Benozir Asha, Manzila Islam Tuheen, Mehedi Hasan, **Md Enamul Hoque**. Effects of Heat Treatment Temperature on the Formation and Stability of Na2Ca2Si3O9 Crystalline Phase: Advanced Bioactive Glass-Ceramic for Potential Tissue Engineering Application. 2nd International Nanotechnology Conference and Expo (Nanotech-2017), 3-5 April 2017, Dubai, UAE.

24) **M Enamul Hoque (Invited Speaker)**. Robust formulation of 3D scaffolds using various biopolymers via customised desktop robot based rapid prototyping system. 4th International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) 12-14 August 2016, Kottayam, Kerala, India.

25) **M Enamul Hoque**. Bio-technically vibrant chitosan based electrospun nanofibrous membrane for potential water filtration. International Nanotechnology Conference & Expo (Nanotech – 2016), 04 – 06 April 2016, Baltimore, USA.

26) **M Enamul Hoque**, Tan Wei Jin, Saied H. Mohamed, S M Atiqure Rahman. Conventional Dental Porcelain: Environmental Effects on Morphological and Mechanical Properties. World Congress on Dental Research (Dental-2015), 23 – 25 November 2015, Dubai, UAE.

27) F.M. Michael, M. Khalid, **M.E. Hoque**, C.T. Ratnam. PLA/GNP/NHA: Application of poly-lactic acid reinforced with graphene nano-platelets and nano-hydroxy apatite hybrids in load bearing bone implants. 5th International Conference on Nanotek and Expo 2015, 16 – 18 November 2015, San Antonio, USA.

28) **M.E. Hoque**, T. Nuge, K.Y. Tshai, N. Nordin, R.G.S.V. Prasad. Bioactive electrospun nanofibrous matrix delivering growth factors for guided skin regeneration. The International Nanotech & NanoScience Conference and Exhibition (Nanotech France 2015), 15 – 17 June 2015, Paris, France.

29) M. Reza Ketabchi, M. Khalid, **M. Enamul Hoque (Invited Speaker)**, C. T. Ratnam, W. Rashmi. Eco-friendly and Cost-effective Isolation of Cellulose Microfibres and Nano-Crystals from Kenaf Fibres. 13th International Conference on Environment, Ecosystems and Development (EED 2015), 23 – 25 April 2015, Kuala Lumpur, Malaysia.

30) **M Enamul Hoque (Invited Speaker)**, Tamrin Nuge, Tshai Kim Yeow, Norshariza Nordin. Gelatin Nanofibrous Matrix: Characterization and Evaluation of Nanometal Release. World Congress and Expo on Nanotechnology and Materials Science, 13 – 15 April 2015, Dubai, UAE.

31) FM. Michael, M. Khalid, CT. Ratnam, **ME. Hoque**. Effect of Solvents on the Dispersion of Graphene Nanoplatelets in Nanohydroxyapatite for Load Bearing Body Implants. 2nd Edition Nanotech Dubai 2015 Conference & Exhibition (NANOTECH DUBAI 2015), 16 - 18 March 2015, Dubai, UAE.

32) **M. Enamul Hoque (Keynote Speaker)**. Advanced Biomaterials (Biocomposites) in Biomedical Applications. Postgraduate Symposium on Technology Biocomposite 2015, 03 March 2015, Universiti Putra Malaysia, Kuala Lumpur, Malaysia.

33) A.H. Muhammad Ismail, M.S. Risby, A. Ali, S.M. Sapuan, **M.E. Hoque**. Flexural Strength and Fracture Toughness of Carbon Nanotubes (CNTs) Reinforced Epoxy Composites. International Conference on Science, Technology, Engineering and Management (ICSTEM – 2015), 3 January 2015, Singapore.

34) Ansari MNM, Begum S, Aini SS, Nainar SM, Ng MH and Ruszymah BHI, **Hoque ME**, Hazleen Anuar. PLA-HA Based Biocomposite for Bone Scaffold Application. BioTechnology Asia 2014, 19 - 21 November 2014, Kuala Lumpur, Malaysia.

35) M. Reza Ketabchi, M. Khalid Siddiqui, Ing Kong, **M Enamul Hoque**. Ecofriendly Isolation of Nano Crystalline Cellulose. Postgraduate Research Showcase, 23 September 2014, University of Nottingham Malaysia Campus, Selangor, Malaysia - **Won Best Poster Award.**

36) **M Enamul Hoque**, Tamrin Nuge, Tshai Kim Yeow, Norshariza Nordin. Nanometal Doped Gelatin Nanomatrix for Potential Antibacterial Wound Dressing. The Australian Biomedical Engineering Conference (ABEC 2014), 20 - 22 August 2014, Canberra, Australia.

37) **M Enamul Hoque**, Tan Wei Jin, Saied Hamd Mohamed, Moniruddin Chowdhury. Physical and Mechanical Characterization of Conventional Dental Porcelain: Study On Environmental Effects. 5th Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (MTERMS 2014), 17 – 19 September 2014, Kuala Lumpur, Malaysia.

38) Feven MM, Khalid M, **Hoque ME**, Ratnam CT. Processing and Characterization of Nanohydroxyapatite using Ultrasonic Cavitation. 5th Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (MTERMS 2014), 17 – 19 September 2014, Kuala Lumpur, Malaysia.

39) Sharen Aini S, Mohamed Nainar S, Shahida Begum, Ansari MNM, Vicki WV, **Hoque ME**, Ng MH and Ruszymah BHI. Biocompatibility Screening Of Biomaterials For Bone Tissue Engineering – Study Of The Osteogenic Cell Morphology And Attachment Behaviour In Vitro. 5th Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (MTERMS 2014), 17 – 19 September 2014, Kuala Lumpur, Malaysia.

40) **M. Enamul Hoque**, H. Meng Teh. 3D Hybrid Scaffolds for Potential Biomedical Applications: Development and Characterization. The Australian Biomedical Engineering Conference (ABEC 2014), 20 - 22 August 2014, Canberra, Australia.

41) **M Enamul Hoque (Invited Speaker)**, Tamrin Nuge, Tshai Kim Yeow, Norshariza Nordin, R.G.S.V. Prasad. Gelatin Electrospun Nanofibre Scaffold for Potential Wound Healing Application. 9th International Materials Technology Conference and Exhibition (IMTCE 2014), 13 – 16 May 2014, Kuala Lumpur, Malaysia.

42) J. W. Lee, M. J. Roe, **M. E. Hoque**, A. C. Spowage, C. A. Scotchford, D. M. Grant And P. D. Brown. Characterisation of silica-doped hydroxyapatite biomedical coatings on titanium for biomedical applications. 9th International Materials Technology Conference and Exhibition (IMTCE 2014), 13 – 16 May 2014, Kuala Lumpur, Malaysia.

43) K.Y. Tshai, H.J. Tan, P.S. Khiew, **M Enamul Hoque**. Flammability and Smoke Density of Kenaf and Oil-Palm Fibre Composites. 9th International Materials Technology Conference and Exhibition (IMTCE 2014), 13 – 16 May 2014, Kuala Lumpur, Malaysia.

44) Sivaruby Kanagaratanam, Sylvia Yui Swee Lian, Miskandar Mat Sahri, **M. Enamul Hoque**, Andrew Spowage. Palm oil-based solid fractions characterised based on dipalmitoyl-oleoyl-glycerol and tripalmitoyl-glycerol enhancement for food application. International Palm Oil Congress (PIPOC 2013), 19 - 22 November 2013, Kuala Lumpur, Malaysia.

45) Sivaruby Kanagaratnam, Miskandar Mat Sahri, **M. Enamul Hoque** and Andrew Spowage. Palm Oil Based Structural Fat in Reduced Saturated Fatty Acids Formulations, 105th AOCS Annual Meeting And Expo, 4 – 7 May 2014, Texas, USA.

46) **M. Enamul Hoque (Plenary Speaker)**. Advancement in Tissue Engineering Scaffold Development: Rapid Prototyping Technology. 2nd International Conference & Exhibition on Materials Science & Engineering (Materials Science - 2013), 7 - 9 October 2013, Las Vegas, USA.

47) S. Mohamed Nainar, Shahida Begum, M. N. M. Ansari, V. W. Vicki, **Md Enamul Hoque**, Sharen Aini Binti Shamsuddin, Angela Ng Min Hwei, Ruszymah Idrus. Biocompatibility study of a novel PLA-HA based composites for bone tissue engineering applications. National Seminar on Biopolymers & Green Composites – Emerging Science and Technology (BPGC 2013), 27 September 2013.

48) Y. Leng Chuan, **M. Enamul Hoque**, Ian Pashby. Prediction of patient-pacific tissue engineering scaffolds for optimal design. 6th International Conference on Advanced Computer Theory and Engineering (ICACTE 2013), 17-18 August 2013, Malé, Maldives.

49) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby, S. Sheren Aini, Angela Ng Min Hwei, Ruszymah Idrus. Cell Culture Efficacy of Hybrid and Single Design Tissue Engineering Scaffolds. The Annual International Conference on Science and Engineering in Biology, Medicine and Public Health (BioMedPub 2013), 16 – 17 August 2013, Jakarta, Indonesia.

50) **M. Enamul Hoque (Invited Speaker)**. Novel Tissue Engineering Approach Towards the Development of Bioartificial Liver Assist Devices. Biomedical Engineering in Healthcare Conference 2013, 3 – 4 July 2013, Kuala Lumpur, Malaysia.

51) J. W. Lee, M.J.Roe, **M. E. Hoque**, A. C. Spowage, C. A. Scotchford, D. M. Grant and P. D. Brown. Characterisation of silica-doped hydroxyapatite biomedical coatings on titanium. 8th International Materials Technology Conference and Exhibition (IMTCE 2012), 9 – 12 July 2012, Kuala Lumpur, Malaysia.

52) Sivaruby Kanagaratanam, **M. Enamul Hoque,** Miskandar Mat Sahri, Andrew Spowage. The Ability of Palm Stearin as Structuring Agent in Food Formulations. 8th International Materials Technology Conference and Exhibition (IMTCE 2012), 9 – 12 July 2012, Kuala Lumpur, Malaysia.

53) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Development of PCL-PEG Hybrid Tissue Engineering Scaffolds Using Extrusion Based Rapid Prototyping System. Malaysian Tissue Engineering and Regenerative Medicine Scientific Conference (MTERMS 2012), 3 – 4 June 2012, Langkawi, Malaysia.

54) J. W. Lee, M.J.Roe, **M. E. Hoque**, A. C. Spowage, C. A. Scotchford, D. M. Grant and P. D. Brown. Increasing the Lifespan of Human Joint Implants. Global Research Workshop, 23 – 27 April 2012. The University of Nottingham Malaysia Campus, Malaysia – **Won the Best Poster Award**.

55) Sivaruby Kanagaratanam, **M. Enamul Hoque,** Miskandar Mat Sahri, Andrew Spowage. Effect of temperature on oil binding capacity of palm-based shortening. National Food Seminar 2012, 6 – 7 March 2012, Melaka, Malaysia.

56) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Single- and hybrid-design tissue engineering scaffolds: Investigation on accelerated in vitro degradation. 1st Biotechnology World Congress (1st BWC 2012), 14 - 15 Feb 2012, Dubai, UAE.

57) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Design and Fabrication of Hybrid Tissue Engineering Scaffold for Regenerative Therapy. 3rd International Conference in Rural Medicine, 22 – 24 November 2011, Sabah, Malaysia.

58) Sivaruby Kanagaratanam, Miskandar Mat Sahri, **M. Enamul Hoque** and Andrew Spowage. Oil binding capacity of palm stearin with high percentage of liquid oil. International palm Oil Congress 2011, 15 - 17 November 2011, Kuala Lumpur, Malaysia.

59) **M. Enamul Hoque (Invited Speaker)**, Vinayak Nambiar. Hydroxyapatite Bioceramic for Biomedical Applications: Synthesis and Characterization. 5th China Medical Biotech Forum (5th CMBF), 7 - 9 November, 2011, Beijing, China.

60) Sivaruby Kanagaratanam, Miskandar Mat Sahri, **M. Enamul Hoque** and Andrew Spowage. Plam Oil Solids. Palm Oil Familiarization Program, 24-28 October 2011, Johor Bahru, Malaysia.

61) **M. Enamul Hoque (Invited Speaker)**, L. Pui Gee. Biomass to Bioenergy: Study on the Key Parameters of the Production of Biodiesel from Renewable Sources. Low Carbon Earth Summit-2011 (LCES-2011), 19 – 26 October 2011, Dalian, China.

62) J. W. Lee, **M. E. Hoque**, A. C. Spowage, C. A. Scotchford, D. M. Grant, P. D. Brown. Characterization of Biomaterial Coatings for Orthopedic Implants. Electron Microscopy and Analysis Group Conference (EMAG 2011), 6 - 9 September 2011, Birmingham, UK.

63) **Md E. Hoque**, Yong L. Chuan, Ian Pashby. Computational Modeling and Simulation on Degradation of 3D Tissue Engineering Scaffolds. 9th AES-ATEMA'2011 International Conference on Advances and Trends in Engineering Materials and their Applications, 01 - 05 August, 2011, Montreal, Canada.

64) **M. E. Hoque**, Y. L. Chuan, Ian Pashby, Angela Ng Min Hwei, Ruszymah Idrus. Process Optimization to Improve the Processing of Poly(DL-Lactide-co-Glycolide) into 3D Tissue Engineering Scaffolds. 5th Kuala Lumpur International Conference on Biomedical Engineering (Biomed 2011), 20 - 23 June 2011, Kuala Lumpur, Malaysia.

65) Sivaruby Kanagaratanam, Miskandar Mat Sahri, **M. Enamul Hoque**, Andrew Spowage. Determination of stability of blends with high percentage of liquid oils. 102nd AOCS Annual Meeting and Expo,1 - 4 May 2011, Ohio, USA.

66) M. Enamul Hoque (Invited Speaker). Novel Biopolymers for Scaffold-Based Tissue Engineering Therapy: Towards the Optimization of Scaffold Design and Development. 3rd Annual Congress of Regenerative Medicine & Stem Cell 2010, 5-7 December 2010, Shanghai, China.

67) **M. Enamul Hoque (Invited Speaker).** Rapid Prototyping Technique – Today's and Tomorrow's Technology to Develop 3D Tissue Engineering Scaffold. 3rd MTERMS Scientific Meeting 2010, 13 - 14 October 2010, Kuala Lumpur, Malaysia.

68) **M. Enamul Hoque**, L. Festus Oguichen, Angela Ng, Ruszymah Idrus. Physical Model of a Dynamic Bioreactor Prototype for Skin Tissue Culture. 3rd MTERMS Scientific Meeting 2010, 13 - 14 October 2010, Kuala Lumpur, Malaysia.

69) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Modeling, Simulation and Optimization of 3D Tissue Engineering Scaffold. TERMIS-AP 2010 Annual Conference. 15 - 17 September 2010, Sydney, Australia.

70) **M. Enamul Hoque**, Y. Leng Chuan, Ian Pashby. Simulation on 3d tissue engineering scaffold: Influences of design parameters on porous and mechanical characteristics. World Engineering Congress 2010. 2–5 August 2010, Sarawak, Malaysia.

71) **M. Enamul Hoque (Invited Speaker)**. Synthetic Biopolymers for Tissue Engineering Applications: 3D Scaffold and Rapid Prototyping Technology. 3rd World Congress of Industrial Biotechnology 2010. 25-27 July 2010, Dalian, China.

72) **M. Enamul Hoque**, Amrit Singh and Yong Leng Chuan. Biofuel from low cost feedstock - Waste to energy. World Bioenergy 2010. 25-27 May 2010, Jonkoping, Sweden.

73) **M. Enamul Hoque**, L. C. Yong, Y. J. Tan, K. Zaman, T. C. Yong. Development of Biodegradable Polymer: Effect of Cross-linked Trimethylolpropane Triacrylate and Electron Beam Irradiation. 2nd International Conference on Biomedical and Pharmaceutical Engineering. 2-4 December 2009, Singapore.

74) **M. Enamul Hoque,** J. Jonathan Netto, M.Y. Yusof, W.S. Wan Abdullah. Assessment of Corrosion Using Advance Laser Shearography. Malaysian Metallurgical Conference 2009, 1-2 December 2009, Perlis, Malaysia.

75) Sivaruby Kanagaratanam, Miskandar Mat Sahri, **M. Enamul Hoque**, Andrew Spowage. Reducing *trans* and saturated fatty acids in roll-in fats using palm oil fractions. International Palm Oil Congress 2009, 9 - 12 November 2009, Kuala Lumpur, Malaysia.

76) Sivaruby Kanagaratanam, Sylvia Yui Swee Lian, Miskandar Mat Sahri, **M. Enamul Hoque,** Andrew Spowage. Determination of stability and structural deformation of palm oil based shortening. International Palm Oil Congress 2009, 9 - 12 November 2009, Kuala Lumpur, Malaysia.

77) Sivaruby Kanagaratnam, Miskandar Mat Sahri, **M. Enamul Hoque**, Andrew Spowage. Optimizing Processing Technique in Margarine Production. 7th Euro Fed Lipid Congress 2009, 18 - 21 October 2009, Graz, Austria.

78) **M. Enamul Hoque**, D. Wijewardena, S. Mei Tan, S. M. Fadhlan, Angela Ng, Ruszymah Idrus. Design of an Incubator-Suited Bioreactor for Dynamic Tissue Culture – A Prototype. 2nd Tissue Engineering and Regenerative Medicine International Society (TERMIS) World Congress. 31 August – 3 September, 2009. Seoul, Korea.

79) **M. Enamul Hoque**, L. Pui Gee. Production of Biodiesel from Plant Resources. The 3rd Regional Conference on Natural Resources in the Tropics (Nrtrop3). 3 – 5 August 2009, Sarawak, Malaysia.

80) **M. Enamul Hoque**. Biotechnological Extraction of Heavy Metals from Secondary Sources. Materials, Minerals and Mining Conference (M3C 2009), 7 April 2009, Kuala Lumpur, Malaysia.

81) **M. Enamul Hoque**, J. Philip OBBARD. Eco-friendly recovery of heavy metals from alternative sources using microorganisms - A review. International Conference on Environment 2008 (ICENV 2008), 15-17 December 2008, Penang, Malaysia.

82) W.S. Wan Abdullah, M.Y. Yusof, A.N. Ahmad Puad, **M. E. Hoque**. Potential Application of Laser Shearography for Analysis of Corrosion in Petroleum Pipeline. International Conference on Experimental Mechanics 2008 (ICEM 2008), 8-11 November 2008, Nanjing, China.

83) **M. Enamul Hoque**, L Weng Lum. A computational model to predict the effects of design parameters on porous and mechanical characteristics of 3d scaffolds. 2008 Annual Conference of Tissue Engineering and Regenerative Medicine International Society - Asian Pacific Region (2008 TERMIS-AP), November 6-8, 2008, Taipei, Taiwan.

84) **M. Enamul Hoque**. Strategic study on 3D scaffolds – From fabrication to in vitro experimentations. 6th Marie Curie Cutting-Edge Conference on “Stem Cells: From the Petri dish to the clinical application", 27 - 31st October 2008, Algarve, Portugal.

85) **Hoque, M. E.**, Zainal, N. H., Syarif J. Investigation on mechanical properties of contemporary metallic bone plates – Towards the development of composite bone plates. 2nd Malaysian Tissue Engineering & Regenerative Medicine Scientific Meeting (2nd MTERMS 08), 22-23 July 2008, Kuala Lumpur, Malaysia.

86) **M. Enamul Hoque**, W. Feng, Y.S. Wong, D.W. Hutmacher, S. Li, M-H Huang, M.Vert. In vitro physical and mechano-chemical properties of biodegradable scaffolds fabricated with PCL and PCL-PEG. The 4th Kuala Lumpur International Conference on Biomedical Engineering (Biomed 2008), 25 - 28 June 2008, Kuala Lumpur, Malaysia.

87) **M. Enamul Hoque**, W. Feng, Y.S. Wong, D.W. Hutmacher, S. Li, M-H Huang, M.Vert, P.J. Bártolo. Scaffolds Designed and Fabricated with Elastic Biomaterials Applying CAD-CAM Technique. Tissue Engineering and Regenerative Medicine International Society – Europe Annual Meeting 2008 (TERMIS-EU 2008), 22 - 26 June 2008, Portugal.

88) **Hoque M. E.,** Wong Y. S., Li S., Huang M. H., Vert M., Hutmacher D. W. Structural anisotropy and viscoelastic properties of scaffolds fabricated with PCL and PCL-PEG. Tissue Engineering and Regenerative Medicine International Society – Asia Pacific (TERMIS-AP 2007) Annual Meeting, 3 - 5 December 2007, Tokyo, Japan.

89) **M. Enamul Hoque**, Wong Y.S., Feng Wei, Li Suming, Huang Ming-Hsi, M. Vert. Hutmacher, D. W. Accelerated Degradation of 3-D Scaffolds Fabricated with Various Architectures Using Various Biopolymers via Rapid Prototyping Technology. 5th World Congress of Biomechanics, 29 July – 4 August 2006, Munich, Germany.

90) **M. Enamul Hoque**, D.W. Hutmacher, W. Feng, S. Li, M-H Huang, M.Vert, Y.S. Wong. Cell Behavior in Highly Reproducible and Fully Interconnected PCL-PEG-PCL Scaffolds. Regenerate World Congress on Tissue Engineering and Regenerative Medicine, 25 – 27 April 2006, Pittsburgh, Pennsylvania, USA.

91) **M. Enamul Hoque**, Hutmacher Dietmar W, Feng Wei, S. Li, M-H Huang, M.Vert, Wong Y S. Influence of process parameters on the properties of scaffolds developed by robot-based rapid prototyping (RP) technique. The 2nd Materials Research Society of Singapore (MRS-S) Conference on Advanced Materials, 18 – 20 January 2006, Singapore.

92) **M. Enamul Hoque**, Hutmacher Dietmar W, Feng Wei, S. Li, M-H Huang, M.Vert, Wong Y S. Desktop Robotic System to Process Synthetic Biopolymers into 3-D Scaffolds. The 3rd International Conference on Computational Intelligence, Robotics and Autonomous Systems (CIRAS 2005), 13 - 16 December 2005, Singapore.

93) **M. Enamul Hoque**, Hutmacher Dietmar W, Feng Wei, S. Li, M-H Huang, M.Vert, Wong Y S. Characterization of Scaffolds – Evaluation of the Effect of Material, Scaffold Architecture and Test Environment on Mechanical Properties. The 8th Annual Meeting of the Tissue Engineering Society International (TESI), 22-25 October 2005, Shanghai, China.

94) **M. Enamul Hoque**, Feng Wei, Wong YS, Hutmacher Dietmar W. Study on Structural Anisotropy of Scaffolds Developed by Solid Free Form Fabrication Technique. Regenerate 2005, 1-3 June 2005, Atlanta, Georgia, USA.

95) **Hoque Md Enamul**, Feng Wei, Li Suming, Huang Ming-his, Wong Y S, Hutmacher D W. Scaffold Fabrication Using a Rapid Prototyping Technique Based on Desktop-Robot-Controlled Melt Extrusion. Regenerate 2004, 9-12 June 2004, Washington, USA.

96) **M. Enamul Hoque**, W. Feng, L. Geng, Y.S. Wong, D.W. Hutmacher. 3d Polymeric Tissue Engineering Scaffolds Fabricated by a Robotic System. The 6th Asia Pacific Chitin-Chitosan Symposium (6APCCS), 23 - 26 May 2004, National University of Singapore, Singapore.

97) **M. Enamul Hoque**, Hai-Quan Mao, S. Ramakrishna. Synthetic Polymeric Scaffold for Bioartificial Liver Assist Device. The 2nd International Conference on Structure, Processing and Properties of Materials, SPPM 2004, 25-27 February 2004, Dhaka, Bangladesh.

98) **M. Enamul Hoque**, Y. S. Wong and D. W. Hutmacher. Computer Controlled Melt Extrusion Technique for Fabricating Thermoplastic Polymeric Scaffold for Tissue Engineering Applications. International Conference on Materials for Advanced Technologies (ICMAT 2003), 7 – 12 December 2003, Singapore.

99) **M. E. Hoque**, P. C. Zhang, H. F. Lu, C. Yin, H. Q. Mao and S. Ramakrishna. Development of a Hybrid Fibrous Scaffold for Bioartificial Liver Assist Device. International Conference on Materials for Advanced Technologies (ICMAT) 2003, 7 – 12 December 2003, Singapore.

100) M. Enamul Hoque, Hai-Quan Mao and S. Ramakrishna. Development of Scaffold for Liver Tissue Engineering. International Conference on Manufacturing ICM 2002, 09 – 11 August 2002, Dhaka, Bangladesh.