

Min Wang, Ph.D.

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Academic and Professional Qualifications

B.Sc. (Mater. Sci. Engg.): Shanghai Jiao Tong University, China, 1985
Ph.D. (Mater. Sci. Engg.): University of London, U.K., 1991
CEng: Chartered Engineer, Engineering Council, U.K., 1995
CSci: Chartered Scientist, Science Council, U.K., 2005

Fellow of Professional Society / Member of Academy

FIMMM (elected in 2001): The Institute of Materials, Minerals and Mining, U.K. (as *FIM* in 2001)
FIMechE (elected in 2007): The Institution of Mechanical Engineers, U.K.
FHKIE (elected in 2010): The Hong Kong Institution of Engineers, Hong Kong
FBSE (elected in 2011): Fellow, Biomaterials Science and Engineering, International Union of Societies for Biomaterial Science and Engineering (IUS-BSE)
FAIMBE (elected in 2012): American Institute for Medical and Biological Engineering, U.S.A.
WAC Academician (elected in 2013): Member, World Academy of Ceramics (<http://www.waceramics.org/>)

Positions Held (main appointments)

Oct. 1991 – Aug. 1997: Post-doctoral Researcher and Lab Supervising Scientist, Interdisciplinary Research Centre in Biomedical Materials, Univ. of London, QMW, U.K.
Oct. 1997 – Feb. 2002: Assoc. Prof. (US System) (Jan.1999-Feb.2002; promotion on Jan.1, 1999), Lecturer (UK System) (Oct.1997-Dec.1998), Nanyang Tech Univ., S'pore
Dec. 1997 – Feb. 2002: Founding Director, Biomaterials Strategic Research Programme, School of Mechanical and Production Engineering, NTU, Singapore
Sept. 2000 – Feb. 2002: Founder and Laboratory Supervisor, Tissue Engineering Lab, NTU, S'pore
June 2000 – Feb. 2002: Co-Chair, Biomedical & Biomaterial Strategic Areas Cluster, NTU, S'pore
Feb. 2002 – June 2003: Associate Professor, Hong Kong Polytechnic University (PolyU), Hong Kong
Oct. 2002 – June 2003: Chairman, Research Committee, Jockey Club Rehab Engg Center, PolyU, HK
June 2003 – Present: Professor (July 2008 – Present; tenured), Associate Professor (June 2003 – June 2008), University of Hong Kong (HKU), Hong Kong
July 2005 – Present: Staff-in-Charge, Biomedical Engineering Lab, Faculty of Engineering, HKU
Nov. 2012 – Present: Staff-in-Charge, Polymers & Biomaterials Lab, Dept. of Mech Engg, HKU
Sept. 2013 – April 2018: Programme Director, Medical Engineering Programme, HKU, Hong Kong

Administration

Served in the departmental, faculty, and university committees in NTU, PolyU and HKU (at different times)

Honorary Appointments (with different starting time)

(1) Academic Associate, IRC in Biomedical Materials, Univ. of London, UK (1997 – 2001); (2) Guest Professor: Wuhan Univ. of Tech., Shanghai Jiao Tong Univ., Zhejiang Univ., Southwest Jiao Tong Univ., South China Univ. of Tech.; (3) Adjunct Professor: Dong Hua Univ., Tianjin Univ.

Major Awards, Honors and Recognitions

(1) Sino-British Friendship Scholarship Scheme Award (SBFSS, PhD Scholarship), 1987 – 1991; (2) elected fellow / academician of professional societies; (3) Editor/Editorial Board Member of leading international journals; (4) Best Paper awards at international conferences; (5) Young Investigator/Best Student Paper/Best Presentation awards at international conferences won by his research staff/students.

Research Interests

Biomedical materials (ceramic, metals, polymers, and composites, including nano-biomaterials; in various forms: dense or porous, bulk or coating, particulate or fibrous, etc.); *In vitro* and *in vivo* evaluation of biomaterials; Tissue engineering; Materials and systems for controlled release of drugs / biomolecules / genes; Theranostics; Surface engineering; Composite materials; Nanotechnology; 3D printing.

Publications

22 book chapters, more than 160 peer-reviewed articles in international journals/periodicals, 1 US patent, more than 520 refereed papers/abstracts in proceedings of international conferences, more than 40 non-refereed papers/abstracts in conference proceedings, 1 book review, 4 Editorials in journals, 2 books (Co-Editor), 1 conference proceedings (Editor), 4 Special/Thematic Issues of int'l journals (Guest Editor).

Invited Speaker

(1) more than 170 talks at conferences in Western Europe, U.S.A, Canada, Australia, Japan, Singapore, Korea, mainland China, Taiwan, Malaysia, India, etc.; (2) more than 110 seminars (including lectures in workshops) in universities, research institutes and hospitals in Europe, North America, Asia and Australia.

Examiner of PhD Thesis

HKU, CUHK, HKUST, PolyU, CityU, NTU, NUS, Monash Uni, Sydney Uni, UTS Sydney, etc.

External Assessor for Professorial Promotion or Appointment

For universities in USA, UK, Australia, Singapore, Hong Kong, Malaysia, mainland China, UAE

Selected Professional Service

Editorship: (A) Book Series Editor: *Springer Series in Biomaterials Science and Engineering*; (B) Section Editor (Biomaterials), *Encyclopedia of Biomedical Engineering*, Elsevier; (C) Editor / Assoc. Editor: (1) Assoc Editor (2015 – Present), *Medical & Biological Engineering & Computing*; (2) Editor (2012 – 2014), *Materials Letters*; (3) Assoc Editor (2011 – Present), *Nano LIFE*; (4) Regional Editor (2011 – Present), *J Biomater & Tissue Engg*; and (5) Assoc Editor (2018 – 2019), *IET Nanobiotechnology*; (D) Editorial Board Member: 20 printed int'l journals, including (1) *J Mater Sci: Mater M*; (2) *Compos Sci Tech*; (3) *Int Mater Rev*; (4) *Biomed Mater*; (5) *Front Mater Sci.*; (6) *J R Soc Interface*; (7) *Surf Coat Tech.*

Member of the Expert Panel of Funding Agencies for Research: (1) Overseas Member of the Expert Panel (2003 – 2007), Project Selection/Awarding Panel for Biophysics and Biomedical Engineering, NSFC, China; (2) Member of the Engineering Panel (2016 – Present), Research Grants Council, Hong Kong

Reviewer: (1) Referee for over 110 int'l scientific journals since 1990; (2) Grant reviewer for NSF USA, RGC Hong Kong, NSFC China, NRF S'pore, ARC Australia, Swiss SER, German DFG, EU ERC, etc.

Conference: (1) Chairman and/or Organiser: 24 conferences / symposia / workshops; (2) Member of the Organising / Scientific / Advisory / Programme Committee: 77 conferences / symposia.

Professional Society (Selected): (1) Hon. Secretary (1998 – 2001): Institute of Materials (East Asia); (2) Member of Biomedical Division Committee (2004 – 2007, 2014 – 2018): Hong Kong Institution of Engineers (HKIE); (3) Member of Biomaterials Committee (2009 – Present): Chinese Society of Biomedical Engineering, China; (4) Member of Surface Engineering of Biomaterials Committee (2010 – Present): Chinese Mechanical Engineering Society, China; (5) Member of Committee for Biocomposites (2013 – Present): Chinese Society for Composite Materials, China; (6) Council Member (2012 – Present): Chinese Society for Biomaterials, China; (7) Council Member (2013 – Present): Asian Biomaterials Federation; (8) Chairman of Biomedical Division (2015 – 2016): HKIE; (9) Member of Biomedical Discipline Advisory Panel (2016 – Present): HKIE; (10) Council Member (2016 – 2018): HKIE; (11) Council Member (2015 – Present): World Association for Chinese Biomedical Engineers; (12) Member of the Administrative Council (2015 – 2018): Int'l Federation for Medical and Biological Engineering (IFMBE); (13) Council Member (2018 – Present), Institute of Materials, Minerals and Mining (Hong Kong); (14) Member of Steering Committee (2016 – Present): Int'l College of Fellows, IUS-BSE; (15) Member of Engineers Registration Board, Hong Kong (2017 – Present).

International Committee: Member of Technical Committees (2006 – Present), International Organization for Standardization (ISO): TC150 Implants, TC194 Biological evaluation, TC229 Nanotechnologies.

Industry: (1) Member of the Admission Panel for Incubation Programmes (2010 – Present), Hong Kong Science and Technology Parks Corp.; (2) Honorary Advisor (2014 – Present), Hong Kong Medical and Healthcare Device Industries Association (HKMHDIA).

Selected Invited Talks at Major Conferences

- “The Composite/Hybridization Approach in Developing New Biomaterials for Orthopaedic Applications”, National Biomaterials Congress, Dalian, China, Aug. 2019
- “Combination Devices for Treating Postoperative Cancer Patients”, International Conference on Materials for Advanced Technologies 2019 (ICMAT 2019), Singapore, June 2019
- “3D Printing of Multifunctional Tissue Engineering Scaffolds”, Materials Research Society Fall Meeting, Boston, USA, Nov. 2018
- “Hybrid Nanoparticles as New Theranostics for Cancer Detection and Therapy”, 42nd International Conference and Exposition on Advanced Ceramics and Composites (ICACC'18), FL, USA, Jan. 2018
- “Design, Fabrication and Characteristics of Novel Theranostics for Cancer”, Materials Research Society Fall Meeting, Boston, USA, Dec. 2017
- “Release and Biological Performance of Theranostics from Novel Tissue Engineering Scaffolds for Cancer Patients”, 12th Pacific Rim Conf on Ceramics and Glass Technology, Hawaii, USA, May 2017
- “3D Printing of Tissue Engineering Scaffolds”, 16th Asian Bioceramics Symposium, Australia, Dec. 2016
- “Ceramics in Medicine”, 33rd Korea-Japan Int'l Seminar on Ceramics (K-J Ceramics 33), Korea, 2016
- “Multifunctional Tissue Engineering Scaffolds: Design, Fabrication and Evaluation”, Materials Research Society Fall Meeting, Boston, USA, Dec. 2015
- “Biomaterials - Polymer/Organic Coatings”, IUPESM World Congress of Medical Physics and Biomedical Engineering (WC2015), Toronto, Canada, June 2015
- “Nanocomposites and Additive Manufacturing for Multifunctional Tissue Engineering Scaffolds”, 2014 China-Korea Symposium on Biomimetic and Regenerative Medical Materials, Wuhan, China, Nov. 2014
- “Multifunctional Hybrid Scaffolds for Bone Tissue Engineering”, 38th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'14), Daytona Beach, FL, USA, 2014
- “Electrospinning and Electrospun Fibrous Structures for Tissue Engineering and Controlled Release Applications”, Materials Research Society Fall Meeting, Boston, USA, 2013
- “Multifunctional Coatings for Medical Applications”, TACT 2013 International Thin Films Conference, Taipei, Taiwan, Oct. 2013