RIGHDAN MOHSEN NAMUS

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ResearchGate:
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Google Scholar:
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Scopus
https://www.scopus.com/authid/detail.uri?authorId=57194413477
Web of Science
https://www.webofscience.com/wos/author/record/ABD-8417-2021

Skills Summary

- Tribology and tribocorrosion.
- Corrosion (DC and EIS characterization techniques).
- Nano-mechanical characterization by Nanoindentation.
- AFM.
- SEM.
- FIB imaging.
- 3D optical microscope.
- Raman spectroscopy.

Education

Bachelor
University of technology / Baghdad
Master
University of technology / Baghdad

PHD

The University of Sheffield / UK

Experience

ENGINEER
2000-2003

Production and maintenance engineer in metals machining company.

BUSINESS MANAGER
2003-2006

Work in business managing.

ENGINEER
2006-2010

Maintenance engineer in Wasit University / Engineering faculty

LECTURER
2012-2014

Teaching in labs of Mechanical department / Engineering faculty / Wasit University

STUDENT
2014-2018

PhD. student in Material science and engineering / Sheffield University

RESEARCH ASSOCIATE
SEPTEMBER 2016 – SEPTEMBER 2019

Henry Royce institution / The University of Sheffield

LECTURER
SEPTEMBER 2019 – NOW

Faculty of Engineering / Wasit University

E-LEARNING MANAGER
SEPTEMBER 2020 – NOW

Wasit University

DIRECTOR OF THE CENTER FOR COMPUTERS AND INFORMATICS
SEPTEMBER 2022 – 2023

Wasit University

DIRECTOR OF SCIENTIFIC AFFAIRS 2024 – NOW
Wasit University

Professional training courses

- Electrochemical Impedance Spectroscopy EIS, Bath University, UK, June 2017
- Tribocorrosion, Prague, Czech Republic, September 2017
- Cathodic protection, Icorr institute, Sheffield, UK, January 2018

Published work

- Moosa, A.A., Faisal, A.Q. and Namus, R.M., 2014. Surface Modification of Multiwall Carbon Nanotubes for Metal Matrix Nan composite Applications. Engineering and Technology Journal, 32(7 Part (A) Engineering), pp.1859-1869.
- Namus, R., P. Zeng, and W. M. Rainforth. "Correlation of the wear transition in CoCrMo alloys with the formation of a nanocrystalline surface layer and a proteinaceous surface film." Wear 376 (2017): 223-231.
- Bai, Mingwen, Righdan Namus, Yidong Xu, Dikai Guan, Mark W. Rainforth, and Beverley J. Inkson. "In-situ Ti-6Al-4V/TiC composites synthesized by reactive spark plasma sintering: Processing, microstructure, and dry sliding wear behaviour." Wear (2019): 202944.
- Namus, R., Nutter, J., Qi, J. and Rainforth, W.M., 2020. The influence of protein concentration, temperature and cathodic polarization on the surface status of CoCrMo biomedical grade alloys. Applied Surface Science, 499, p.143908.
- Namus, R. and Rainforth, W.M., 2020. Influence of protein adsorption on tribocorrosion behaviour of CoCrMo biomedical-grade alloys. *Tribology International*, p.106364.
- Muangtong, Piyanut, Righdan Mohsen Namus, and Russell Goodall. "Improved Tribocorrosion Resistance by Addition of Sn to CrFeCoNi High Entropy Alloy." Metals 11, no. 1 (2021): 13.
- Namus, Righdan, W. Mark Rainforth, Yi Huang, and Terence G. Langdon. "Effect of grain size and crystallographic structure on the corrosion and tribocorrosion behaviour of a CoCrMo biomedical grade alloy in simulated body fluid." *Wear* 478 (2021): 203884.
- Namus, Righdan, John Nutter, Jiahui Qi, and W. M. Rainforth. "Sliding speed influence on the tribo-corrosion behaviour of Ti6Al4V alloy in simulated body fluid." *Tribology International* 160 (2021): 107023.
- Namus, Righdan, and W. M. Rainforth. "The influence of cathodic potentials on the surface oxide layer status and tribocorrosion behaviour of Ti6Al4V and CoCrMo alloys in simulated body fluid." Biotribology (2022): 100212.
- Namus, R.M., 2022, November. Studying the oxide layer status of Ti6Al4V and CoCrMo alloys in simulated body fluid. In *AIP Conference Proceedings* (Vol. 2660, No. 1, p. 020107). AIP Publishing LLC.
- Namus, R.M. and Rainforth, W.M., 2024. Investigating the relevance of TiNbTaZr high entropy alloy for orthopaedic applications. *Wear*, p.205393.

Conferences and Workshops

- Student conference 2016, Sheffield, UK, May 2016 (Oral presentation)

- DARE (Design Alloys for Resource Efficiency) workshops, Sheffield, UK, 2016, and 2017 (Poster presentations)
- Surface analysis techniques, Coventry, UK, March 2017 (Workshop)
- Nanobrücken 2017, Manchester, UK, April 2017 (Oral presentation)
- Nano-mechanical testing (Nanoindentation), Manchester, UK, May 2017 (Workshop)
- EUROCORR 2017, Prague, Czech Republic, September 2017 (Poster presentation).
- Advance material characterization workshop, Manchester, UK, 2018
- Scotland and North of England Electrochemistry Symposium, RSC Butler Meeting, Aberdeen, UK, May 2018 (Oral presentation)
- Electrochemical Method in Corrosion Research EMCR, Cambridge, UK, July 2018 (Oral presentation)
- International Corrosion Science Symposium, Leeds, UK September 2018 (Oral presentation)
- Applies Surface Science conference ICASS, Pisa, Italy, Elsevier conferences, June 2019 (Oral presentation)
- EUROCORR 2019, Seville, Spain, September 2019 (Oral presentation).
- 2ND INTERNATIONAL CONFERENCE ON MATERIALS ENGINEERING & SCIENCE (IConMEAS 2019), BAGHDAD, IRAQ, September 2019 (Oral presentation).
- 4TH INTERNATIONAL CONFERENCE ON MATERIALS ENGINEERING & SCIENCE (IConMEAS 2021), DUHOK, IRAQ, October 2021 (Oral presentation).

Memberships

- ASTM (American Society for Testing Material)
- NACE International (National Association of Corrosion Engineers)
- Institute of corrosion ICORR

As trainer

- Self-development training (time and stress management) for recently assented teaching staff in Wasit University (2023)
- Self-development training (time and stress management) for recently assented employees in Wasit University (2022)
- Trainer in eLearning program at Wasit University for teaching staff (2020 and 2021)
- Post-graduate students skills development program in Iraq (2023-2024)