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Citizenship: Pakistani
Year of Birth: 03-02-1993
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PERSONAL INFORMATION

ACADEMIC

2005- 2007- Secondary school certificate, Career Guidance public school.
2007 to 2009- Higher Secondary Education at F.G.D.C Skardu, Pakistan.
2009 to 2011- Bachelor of Science (Zoology, Botany, and Chemistry) at F.G.D.C Skardu, Pakistan.
2012 to 2014- Master of Science (Inorganic/Analytical Chemistry) at Hazara University Mansehra.
2014 to 2016- Master of Philosophy (Inorganic/Analytical Chemistry) at Hazara University Mansehra.
2016-2019- Ph.D. in Analytical Chemistry from Northeast Normal University of China.

RESEARCH INTEREST

Nanomaterial synthesis, Energy conversion, and storage devices, such as Fuel cells, Batteries, Biofuels, Wastewater treatment, Sensors.

PUBLICATIONS (16) Impact factor (69.6)

Citations: 342

1. Green 2D simonkolleite/zinc based nanostructures for superior antimicrobial and photocatalytic applications, Mirza Mahmood Baig, **Mehboob Hassan**, Tanveer Ali, Hafiz Muhammad Asif, Ayesha Asghar, Sana Ullah, Ibrahim A. Alsafari, Sonia Zulfiqar, *Materials Chemistry and Physics*, 126292, 2022, (IF 4.5).
2. MOF-based bimetallic diselenide nanospheres as a bifunctional efficient electrocatalysts for overall water splitting, **Mehboob Hassan**, Mirza Mahmood Baig, Khalid Hussain Shah, Aftab

- Hussain, Syeda Aqsa Hassan, Arshad Ali, *Journal of Physics and Chemistry of Solids*, 0022-3697, 167, 110780, 2022(IF 4.3).
3. Synthesis, enzyme inhibition and docking studies of 1,2,4-triazoles derived from aliphatic esters. Rifat Sultana, Obaid Ur Rahman Abid, Nighat sultana, Wajid Rehman, Mohsan Nawaz, Abdul Wadood, Asma Sardar, Saima Sardar, **Mehboob Hassan**, Zain Ul Wahab, Ali Bahadar, Farid Mena. (*RRC_2021/204*). *Romanian Journal of Chemistry*. 2022 (IF 0.3).
 4. Quantitative Determination of Kaempferol by using a novel B-Z Chemical Oscillating system Catalyzed by a Cu (II)-tetraazamacrocyclic Complex, Saif Ullah, Rooh Ullah*, Rasha M.K. Mohamed, Gang Hu*, Ateeq ur rehman, Muhammad Yasir Nawabi, Asif Hayat, **Mehboob Hassan**, and Jimei Song. *International Journal of Electrochemical Science*, 15 (2020) 12318 – 12328, (IF 2.2).
 5. Cobalt-doped carbon nitride supported on ordered mesoporous carbon as noble metal-free oxygen reduction electrocatalysts. **Mehboob Hassan**, Tingting Lu Xiangjie Bo* and Ming Zhou, *Journal of Physics and Chemistry of Solids*, 2019. (IF 2.7).
 6. Fumarate-based metal-organic framework/mesoporous carbon as a novel electrochemical sensor for the detection of gallic acid and luteolin, .H Liu, **M Hassan**, X Bo, L Guo, *Journal of Electroanalytical Chemistry* 849, 113378(2019). (IF 3.1).
 7. Low-cost and environment-friendly synthesis of carbon nanorods assembled hierarchical meso-macroporous carbons networks aerogels from natural apples for the electrochemical determination of ascorbic acid and hydrogen peroxide. N Wang, Y Hei, J Liu, M Sun, T Sha, **M Hassan**, X Bo, Y Guo, M Zhou. *Analytica chimica acta* 1047, 36-44, 2019. (IF 5.3)
 8. Sensitive non-enzymatic detection of hydrogen peroxide at nitrogen-doped graphene supported-CoFe nanoparticles, **M Hassan**, Y Jiang, X Bo, M Zhou, *Talanta* 2018. (IF 4.7).
 9. Cobalt nanoparticles/nitrogen-doped graphene with high nitrogen doping efficiency as noble metal-free electrocatalysts for oxygen reduction reaction." Liang Jingwen, **Mehboob Hassan**, Dongsheng Zhu, Liping Guo, and Xiangjie Bo. *Journal of Colloid and Interface Science* (2016). (IF 4.8).
 10. Design and synthesis of integrally structured Ni₃N nanosheets/carbon microfibers/Ni₃N nanosheets for efficient full water splitting catalysis, T Liu, M Li, C Jiao, **Mehboob Hassan**, X Bo, M Zhou, HL Wang, *Journal of Materials Chemistry A* 5 (19), 9377-9390. (IF 8.8).
 11. Pt nanoparticles supported on nitrogen-doped porous graphene for sensitive detection of Tadalafil, A Salah, **M Hassan**, J Liu, M Li, X Bo, JC Ndamanisha, L Guo. *Journal of colloid and interface science* 512, 379-388. (IF 4.6).
 12. The biomass of ground cherry husks derived carbon nanoplates for electrochemical sensing, X Li, H Li, T Liu, Y Hei, **M Hassan**, S Zhang, J Lin, T Wang, X Bo, HL Wang, *Sensors and Actuators B: Chemical* 255, 3248-3256. (IF 5.1).

13. Synthesis of a three-dimensional interconnected carbon nanorod aerogel from wax gourd for amperometric sensing C Xu, Y Hei, J Liu, M Sun, T Sha, N Wang, **Mehboob Hassan**, X Bo, M Zhou *Microchimica Acta* 185 (10), 482.(**I.F 5.5**).
14. Synthesis of iron-based metal-organic framework@ large mesoporous carbon composites and their electrocatalytic properties, *J Lin, Mehboob Hassan, X Bo, L Guo. Journal of Electroanalytical Chemistry* 801, 373-380. (**I.F 3.2**).
15. Cost-effective synthesis of three-dimensional nitrogen-doped nanostructured carbons with hierarchical architectures from the biomass of sea-tangle for the amperometric, Y Hei, X Li, X Zhou, J Liu, **Mehboob Hassan**, S Zhang, Y Yang, X Bo, HL Wang. *Analytica Chimica Acta* 1029, 15-23, 1.2018. (**I.F 5.3**).
16. Co_{0.5}Ni_{0.5}P nanoparticles embedded in carbon layers for efficient electrochemical water splitting, C Jiao, **M Hassan**, X Bo, M Zhou, *Journal of Alloys and Compounds* 2018. (**I.F 3.7**).
17. Crab Shell-Templated Fe and N Co-Doped Mesoporous Carbon Nanofibers as a Highly Efficient Oxygen Reduction Reaction Electrocatalyst, Z Li, **Mehboob Hassan**, A-Sun, X Bo, M Zhou, *ChemistrySelect* 3 (13), 3722-3730, 2018 Articles 1–9. (**I.F 1.8**).

EXPERIENCES

1. Currently working as an Assistant professor (TTS-19) at the University of Narowal.
2. Serving as Co-ordinator, Department of Chemistry University of Narowal.
3. Manager Research Operations and Development at ORIC University of Narowal.
4. Working as member QEC at University of Narowal from February 2021.
5. IPFP Fellow (Post-Doc) at University of Narowal (20 Dec 2020 to 10 Dec 2021).
6. Three years of research experience in Key Laboratory of Nanobiosensing and Nanobioanalysis at Universities of Jilin Province, Department of Chemistry, and Northeast Normal University, China (2016-2019).

LANGUAGES

1. **English** (Professional working proficiency)
2. **Urdu** (Full professional proficiency)

3. **Balti Tibetan** (bilingual proficiency)

CONFERENCES AND WORKSHOPS

1. Participated in '*International Conference on Chemical and Material Sciences*' organized by the University of Lahore on 21st May 2022.
2. Student Chief Organizer of "*National Chemistry Conference*" organized by Department of Chemistry, Hazara University, Mansehra Pakistan 2014.
3. Four weeks "*National Faculty Development Program (NFDP-2020)*" for fresh Ph.Ds. organized by the National Academy of Higher Education (NAHE-HEC).

PROJECTS

1. SRGP-HEC, a project of one million Ref.No 483/IPFP-II(Batch-I)/NAHE/HEC/2020/301 "*Selenide based Cobalt Nickel doped electrocatalysts for Overall water splitting*". **(Completed)**

ACIVEMENTS AND AWARDS

1. Prime Minister Laptop Scheme Phase#2 for the excellent student (2016).
2. Winner of Chinese government scholarship 2016.
3. Best dormitory student of 2017 at Northeast Normal University (2017).
4. Got first prize as an outstanding researcher at Northeast Normal University in 2018.

REFERENCES:

1. Zhou Ming (Ph.D. s Mentor), Professor, School of Chemistry, Northeast Normal University, Changchun, China.
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2. Dr-Basit Niaz (M.Phil. Supervisor), Associate Professor of Chemistry, Hazara University Mansehra Pakistan.
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