# **Muhammad Mujahid**

Professor

School of Chemical & Materials Engineering

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#### **About**

Dr. Muhammad Mujahid is working as Professor in the School of Chemical & Materials Engineering. Dr. Muhammad Mujahid has published 37 research articles & conference papers having a citation count of 1275, carried out 2 projects and filed 0 intellectual property.

#### Qualifications

# **Experience**

Professor 2020- Present

School of Chemical & Materials Engineering

2014 - 2014 Professor

School of Chemical & Materials Engineering

# **Research Projects**

# **National Projects**

Plasmons Effects in Nano-Structures of inorganic polycrystalline materials (ZnS, CdTe, CdS) by embedding different metallic nano particles (Ag, Au, Cu), for improving Photovoltaic Efficiency in

**Photovoltaic Industry** 

Funding Agency: PSF Amount: PKR 1,998,000.00

Status: Completed

Preparation Characterization and Product Development of Poly 1-Lactic Acid / HA Nano Composites

Funding Agency: Higher Education Commission

Amount: PKR 12.000.000.00

Status: Completed

# **International Projects**

### **Research Articles**

### Tailored morphology of indium-doped titania via sol-gel method for enhanced photocatalysis

Junaid Ur Rehman Yilan Zeng Sofia Javed Osama Gohar Awais Ahmad Melany Bouyer Muhammad Mujahid Martin Motola

Ceramics International, Volume:51, Issue:16, Page:21590-21599

Impact Factor: 5.600 | Quartile: 1

DOI: https://doi.org/10.1016/j.ceramint.2025.02.320

# Boosted Hydrogen evolution reaction based on synergistic effect of graphene, MoS2 and RuO2 ternary electrocatalyst

Zeeshan mehmood Khan Muhammad Aftab Akram Muhammad Abdul Basit Muhammad Mujahid Sofia Javed

International Journal of Hydrogen Energy, Volume 92, Pages 1423-1438

Impact Factor: 8.100 | Quartile: 1 | Citations: 2 DOI: https://doi.org/10.1016/j.ijhydene.2024.10.312

## Enhanced photocatalytic activity of Sn-doped TiO2 nanoparticles: Microstructuralphotoelectrochemical synergy

Junaid ur Rehman Sofia Javed Muhammad Mujahid Osama Gohar Shuvo Brahma Awais Ahmed Muhammad Bilal Hanif Martin Motola

Physica B: Condensed Matter, Volume 690, Article Number 416260

Impact Factor: 2.800 | Quartile: 2 | Citations: 12 DOI: https://doi.org/10.1016/j.physb.2024.416260

2025

2015

2015

2024

2024

Development and characterization of boride-reinforced CoCrFeNi composites 2023 M. Adil Mehmood Muhammad Mujahid Andy Godfrey Muhammad Farooq Zafar KHURRAM YAQOOB Journal of Alloys and Compounds, Volume 947, Article Number 169535 Impact Factor: 6.371 | Quartile: 1 | Citations: 12 DOI: https://doi.org/10.1016/j.jallcom.2023.169535 Ceramic-reinforced HEA matrix composites exhibiting an excellent combination of mechanical 2022 properties M. Adil Mehmood Khurram Shehzad Muhammad Mujahid Talha bin Yaqub Andy Godfrey Filipe Fernandes F. Z. Muhammad KHURRAM YAQOOB Scientific Reports, Volume 12, Article Number 21486 Impact Factor: 4.996 | Quartile: 2 | Citations: 15 DOI: https://doi.org/10.1038/s41598-022-25734-w Systematic Development of Eutectic High Entropy Alloys by Thermodynamic Modeling and 2021 Experimentation: An Example of the CoCrFeNi-Mo System Muhammad Mukarram M. Awais Munir Muhammad Mujahid KHURRAM YAQOOB Metals . Volume 11. Issue 9. Article Number 1484 Impact Factor: 2.695 | Quartile: 2 | Citations: 16 DOI: doi.org/10.3390/met11091484 Design and development of CoCrFeNiTa eutectic high entropy alloys 2021 Muhammad Mukarram Mohammad Mujahid KHURRAM YAQOOB Journal of Materials Research and Technology, Volume 10, Pages 1243-1249 Impact Factor: 5.039 | Quartile: 2 | Citations: 64 DOI: https://doi.org/10.1016/j.jmrt.2020.12.042 Fretting fatigue crack initiation and propagation in Ti6Al4V sheets under tribocorrosive conditions of 2020 artificial seawater and physiological solutions Zeeshan Anjum Masood Shah Hassan Elahi Mushtaq Khan Muhammad Mujahid Shahab Khushnood Faisal Qayyum Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Volume 234, Issue 12, Pages 1526-1534 Impact Factor: 2.311 | Quartile: 3 | Citations: 9 DOI: 10.1177/1464420720946431 Fretting fatigue crack initiation and propagation in Ti6Al4V sheets undertribocorrosive conditions of 2020 artificialseawater and physiological solutions Zeeshan Anjum Masood Shah Hassan Elahi Mushtaq khan Muhammad Mujahid Shahab Khushnood Faisal Qayyum Proceedings of the Institution of Mechanical Engineers, Part L.: Journal of Materials: Design and Applications, Volume 234, Issue 12, Pages 1526-1534 Impact Factor: 2.311 | Quartile: 2 | Citations: 9 DOI: https://doi.org/10.1177/1464420720946431 Influence of carbonization on structural and mechanical properties of PAN/phenolic-based 2020 carbon/carbon composites SHA Jian-jun Asghari Maqsood Muhammad Mujahid Khurram Iqbal Journal of Dalian University of Technology, Volume 55(3), Pages 261-265 Impact Factor: -DOI: -2020 Nanophotonics based label free detection mechanism for real-time monitoring of interleukin-6 Munezza Ata Khan Muhammad Mujahid Say Chye Joachim Loo Vidya N. Chamundeswari Nanoscale, Volume 12, Issue 16, Pages 9194-9207 Impact Factor: 7.790 | Quartile: 1 | Citations: 10 DOI: 10.1039/D0NR01151G Highly ordered combined structure of anodic TiO2 nanotubes and TiO2 nanoparticles prepared by a 2019 novel route for dye-sensitized solar cells Tayyaba Ghani Muhammad Mujahid Mazhar Mehmood Gengmin Zhang Sumaira Naz Journal of Saudi Chemical Society, Volume: 23, Issue: 8, Pages 1231-1240 Impact Factor: 3.517 | Quartile: 2 | Citations: 10 DOI: 10.1016/j.jscs.2019.08.003 2019 Surface degradation study of magnesium tested in simulated body fluid

Muhammad Mujahid Aftab Akram Malik Adeel Umer Anum Sana Igra Malik

Bio-Medical Materials and Engineering, Volume 30, Issue 3, Pages 341-348

Impact Factor: 1.243 | Quartile: 4 | Citations: 4

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Journal of Porous Materials, Volume 26, Pages193–203	
Impact Factor: 2.183   Quartile: 2   Citations: 8	
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The effect of processing conditions on the structural morphology and physical properties of ZnO and CdS thin films produced via sol?gel synthesis and chemical bath deposition techniques

Shahzad Salam Mohammad Islam Mahboob Alam Aftab Akram Mujtaba Ikram Asif Mahmood Majid Khan Muhammad Mujahid

Advances in Natural Sciences: Nanoscience and Nanotechnology, Volume 2, Issue 4, 045001

Impact Factor: N/A | Citations: 18

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2011