

Manzar Sohail

Professor

School of Natural Sciences

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About

Dr. Manzar Sohail is working as Professor in the School of Natural Sciences. Dr. Manzar Sohail has a PhD in Chemistry. Dr. Manzar Sohail has published 172 research articles & conference papers having a citation count of 4171, carried out 7 projects and filed 1 intellectual property.

Qualifications

PhD in Chemistry Monash University , Australia	2005 - 2009
MPhil in Chemistry Quaid-i-Azam University , Pakistan	2001 - 2003
MSc in Chemistry Government College University Lahore , Pakistan	1998 - 2000

Experience

Professor School of Natural Sciences	2022- Present
Professor School of Natural Sciences	2021 - 2022
Associate Professor School of Natural Sciences	2018 - 2021
Research Scientist King Fahd University of Petroleum and Minerals , Dhahran 31261 Saudi Arabia	2014 - 2018
Postdoctoral research Fellow University of the Sunshine Coast , Sippy Downs, Australia	2011 - 2013
Postdoctoral Research Fellow Curtin University of Technology , Bentley 6102, WA, Australia	2010 - 2011
Sessional Teacher Monash University , Clayton, Victoria Australia	2006 - 2008
Research assistant Quaid-i-Azam University Islamabad , Islamabad, Pakistan	2004 - 2005

Awards

Publication Award Publication Award	2008
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Research Projects

National Projects

Ablation resistant and low thermal conductive SiO2 coated carbon fiber for advanced composites. Funding Agency: NESCOM Amount: PKR 640,000.00 Status: Approved_inprocess	
Solid-state Zn-air/ion batteries for Green Energy Storage: A reliable / robust replacement of Li-Ion Batteries Funding Agency: NUST Amount: PKR 65,000,000.00 Status: Approved_inprocess	2023
Synthesis of highly porous steam-activated carbon spheres for toxic gases and chemical adsorption Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Approved_inprocess	2023
Synthesis of Nitrogen rich highly porous graphene cross-linked melamine formaldehyde carbon cryogel for microwave and gaseous adsorption Funding Agency: NESCOM Amount: PKR 800,000.00 Status: Approved_inprocess	2023
Rational Designed high power and long-life Electrodes for Zn-Br2 flow battery Funding Agency: Pakistan Science Foundation (PSF) Amount: PKR 8,745,000.00 Status: Approved_inprocess	2024
Construction of 2D-2D face-to-face S-Scheme MXene-based dual heterojunction with enhanced visible-light-driven photocatalytic H2 generation and CO2 reduction Funding Agency: HEC Amount: PKR 9,660,000.00 Status: Approved_inprocess	2022
Photocatalytic Reduction of CO2 to Methanol using (M=Mn, Cu, Zn, Cd) MFeO4/TiO2 (P-n) Hetrojunctions under Visible Light Irradiation Funding Agency: HEC Amount: PKR 437,322.00 Status: Completed	2019

International Projects

Research Articles

Metal-organic frameworks derived cobalt doped-calcium oxide for thermochemical energy storage <i>Muhammad Zeeshan Khalid Basit Ali Manzar Sohail Faheem Amin</i> <i>Journal of Energy Storage</i> , Volume 132, Part A, Article Number 117683 Impact Factor: 9.800 Quartile: 1 DOI: https://doi.org/10.1016/j.est.2025.117683	2025
Bimetallic metal-organic frameworks as versatile electrocatalysts for water splitting in neutral and alkaline environments <i>Syed Arfan Haider Tehseen Mushtaq Munazza Shahid Muhammad Altaf Ayman Nafady Ghayoor Abbas Chotana Manzar Sohail Shahid Rasul Raja Shahid Ashraf Bakhtawar Sajjad</i> <i>Fuel</i> , Volume:397, Article Number 135488 Impact Factor: 6.700 Quartile: 1 DOI: https://doi.org/10.1016/j.fuel.2025.135488	2025
Next-generation stimuli-responsive smart membranes: Developments in oil/water separation <i>Aamal Rehman Manzar Sohail Nadeem Baig Kai Yuan Ahmed Abdala Md A. Wahab</i> <i>Advances in Colloid and Interface Science</i> , Volume 341, Article Number 103487 Impact Factor: 15.900 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.cis.2025.103487	2025

Nature-Inspired Nanoarray Catalyst toward Balanced Heat and Mass Transport in Photothermal Catalysis <i>Kewei Yu Kai Feng Mujin Cai Hai Li Yuxuan Zhou Jiahui Shen Shuang Liu Zhijie Zhu Manzar Sohail Valeri Tolstoy Xingda An Chaoran Li Le He</i> <i>ACS Nano</i> , Volume:19, Issue:19, Pages 18674-18685 Impact Factor: 15.8 Quartile: 1 DOI: https://doi.org/10.1021/acsnano.5c03061	2025
Demonstrating Donor-Acceptor Covalent Conjugate of Polythiophene and Perylene Diimide as an All-Organic Photocatalyst for Enhanced Light-Driven H₂O₂ Production <i>Sana Iqbal Faseeh Akbar Muhammad Ahsan Salar Tahir Sajjad Butt Ammar Ahmed Khan Manzar Sohail Basit Yameen</i> <i>ACS Applied Materials and Interfaces</i> , Volume:17, Issue:19, Pages 28609-28621 Impact Factor: 8.300 Quartile: 1 DOI: https://doi.org/10.1021/acsam.4c22745	2025
Enhanced Photoelectrochemical Water Splitting Using Bismuth/Bismuth Selenide Nanocomposites <i>Sumayyah Khan Manzar Sohail Geoffrey Will Anthony O' Mullane Ahmed Abdala Md A. Wahab</i> <i>Chemistry- An Asian Journal</i> , Volume: 20, Issue: 6, Article Number: e202400858, Pages:13 Impact Factor: 3.500 Quartile: 2 DOI: https://doi.org/10.1002/asia.202400858	2025
Synthesis and assessment of Au-doped Sb₂Te₃ microstructures for magnetic and thermoelectric properties <i>Nitasha Komal Muhammad Adil Mansoor Manzar Sohail Ghayoor Abbas Chotana Muhammad Anis-ur-Rehman Muhammad Mazhar</i> <i>Physica B : Condensed Matter</i> , Volume 699, Article Number 416863 Impact Factor: 2.800 Quartile: 2 DOI: https://doi.org/10.1016/j.physb.2024.416863	2025
Nanorectangular NiFe₂O₄ Decorated with CeO₂ Nanoparticles and Modified with Phosphate Ions as an Electrocatalyst for Water Electrolysis <i>Ifra Urooj Manzar Sohail Waqas Ali Shah Hassan Ali Xingda An Shuang Liu Md A. wahab</i> <i>ACS Applied Nano Materials</i> , Volume 8, No. 8, Pages 3769-3786 Impact Factor: 5.300 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1021/acsanm.4c06065	2025
Single Precursor-Derived Sub-1 nm MoCo Bimetallic Particles Decorated on Phosphide-Carbon Nitride Framework for Sustainable Hydrogen Generation <i>Sadam Hussain Manzar Sohail Nadia Shahzad Geoffrey Will Anthony P. O'Mulane Mohammad Rezaul Karim Md Abdul Wahab Ibrahim A. Alnaser Ahmed Abdala</i> <i>ACS Applied Materials and Interfaces</i> , Volume:17, Issue:3, Pages 4728-4743 Impact Factor: 8.300 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1021/acsam.4c12577	2025
Designing an innovative 2D/2D step scheme α-Fe₂O₃/BiOBr/MoS₂ ternary integrated heterojunction with unparalleled visible-light-induced remarkable photocatalytic H₂ evolution <i>Rabia Nawaz Muhammad Saad Ali Bahadur Shahid Iqbal Ammar Zidan Muhammad Shuaib Khan Rabia Liaquat Manzar Sohail Sajid Mahmood Mohammed T. Alotaibi</i> <i>International Journal of Hydrogen Energy</i> , Volume:99, Page:112-122 Impact Factor: 8.100 Quartile: 1 Citations: 13 DOI: https://doi.org/10.1016/j.ijhydene.2024.12.201	2025
Polyoxometalates based transition metal sulfide composites for hydrodesulfurization and hydrogen evolution reaction <i>Ghulam Murtaza Tayyaba Najam Naseem Ahmad Khan Muhammad Sher Muhammad Kashif Aslam Ibrahim A. Shaaban Muhammad Altaf Nazir Manzar Sohail Syed Shoaib Ahmad Shah</i> <i>International Journal of Hydrogen Energy</i> , Volume 98, Pages 527-541 Impact Factor: 8.100 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.ijhydene.2024.12.048	2025
Synthesis and characterization of a new Archimedean rhombicuboctahedral polyoxometalate Rb_{2.5}[(Co(H₂O)₆)_{0.5}(PW₁₂O₄₀)]₁₆H₂O: Probing magnetic characteristics and electrochemical water splitting catalysis <i>Ibsa Naseer Kanwar Rehan Maliha Asma Colin McMillen Andrei Sokolov Ayman Nafady Manzar Sohail</i> <i>Journal of Molecular Structure</i> , Volume 1319, Part 2 , 5 January 2025, 139452 Impact Factor: 4.000 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1016/j.molstruc.2024.139452	2025

Facile Synthesis of Selenium Nanoparticles for Enhanced Oxygen Evolution Reaction: Insights into Electrochemical and Photoelectrochemical Catalysis <i>Sumaya Ishtiaq Ghulam Hussain Hafiza komal Zafar Rabia Liaquat Abdullah A. Al-Kahtani Ayman Nafady Manzar Sohail Shahid Rasul</i> <i>ACS Omega</i> , Volume 10, Issue 1, Pages 520-528 Impact Factor: 3.700 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1021/acsomega.4c07016	2025
Tuning the Wettability of the PVDF Membrane using the PVA-Stabilized TA-UiO-66-NH2 MOF Membranes to Separate Layered Oil-Water Mixture and Surfactant-Stabilized Emulsion <i>Muhammad Fiaz Sumayyah Khan Nadeem Baig Manzar Sohail</i> <i>Chemistry - An Asian Journal</i> , Volume: 20, Issue:07, Article Number: e202401430, Pages:11 Impact Factor: 3.500 Quartile: 2 Citations: 4 DOI: 10.1002/asia.202401430	2024
Synthesis and supercapacitor application studies of aluminum- lanthanum co-Doped bismuth oxide composite with N-doped reduced graphene oxide <i>Dalal A. Alshammari Mustabshira Ikram Amal BaQais Salamat Ullah Khan Niazi Amna Irshad Mohammed A. Amin Manzar Sohail Muhammad Farooq Warsi</i> <i>Materials Science and Engineering: B</i> , Volume 310, Article Number 117720 Impact Factor: 3.900 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1016/j.mseb.2024.117720	2024
Holmium doped La2O3 and its composite with graphitic carbon nitride for the removal of atrazine and chlortpyrifos from wastewater <i>Aafia Aslam Norah Alomayrah M. Naziruddin Khan Manzar Sohail Muhammad Imran Din Muhammad Farooq Warsi Mamoon Anwar</i> <i>Desalination and Water Treatment</i> , Volume 320, Article Number 100813 Impact Factor: 1.000 Quartile: 4 Citations: 3 DOI: https://doi.org/10.1016/j.dwt.2024.100813	2024
Ni–Cu Bimetallic Oxides with Tailored Morphology for High-Performance Alkaline Water Oxidation <i>Anila Tabassum Sadia Ata Yulong Ding Ijaz Ul Mohsin Sajjad Ahmed Khan Leghari Abdullah A. Al-Kahtani Ayman Nafady Manzar Sohail</i> <i>ChemistrySelect</i> , Volume:9, Issue:39, Article Number e202403451 Impact Factor: 1.900 Quartile: 3 Citations: 1 DOI: https://doi.org/10.1002/slct.202403451	2024
Tailored Flower-Like Ni-Fe-MOF-Derived oxide Composites: Highly active and durable electrocatalysts for overall water splitting <i>Zoya Iqbal Sonadia Waheed Miran Anwar Ul-Hamid Manzar Sohail Fahad Azad</i> <i>Fuel</i> , Volume:372, Article Number:132112 Impact Factor: 6.7 Quartile: 1 Citations: 10 DOI: 10.1016/j.fuel.2024.132112	2024
Optimizing electrochemical power generation: Harnessing synergies and surface innovation in NiTe-modified MOF nanoarchitectures <i>Hafiza Komal Zafar Syed Shoaib Ahmad Shah Manzar Sohail Raja Shahid Ashraf Ayman Nafady Geoffrey Will Md A. Wahab</i> <i>Journal of Power Sources</i> , Volume 612, Article Number 234827 Impact Factor: 8.100 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.jpowsour.2024.234827	2024
Catalytic Application of POSS–COF–[(Co(acetate)2] for Selective Reduction of Nitriles to Amines <i>Anosha Rubab Manzar Sohail Riyadh H Alshammari Ayman Nafady Md A. Wahab Ahmed Abdala</i> <i>Catalysts</i> , Volume 14(9), Article Number 557 Impact Factor: 3.800 Quartile: 2 Citations: 1 DOI: https://doi.org/10.3390/catal14090557	2024
Advancing Catalysts by Nanoconfinement and Catalysis for Enhanced Hydrogen Production from Magnesium Borohydride: A Review <i>Md A. Wahab Ifra Urooj Manzar Sohail Mohammad Rezaul Karim Ibrahim A. Alnaser Ahmed Abdala Rezwanul Haque</i> <i>Chemistry-An Asian Journal</i> , Volume19, Issue16, Article Number e202400174 Impact Factor: 3.500 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1002/asia.202400174	2024
Anisotropic Plasmon Resonance Enables Spatially Controlled Photothermal and Photochemical Effects in Hot Carrier-Driven Catalysis <i>Jiaqi Wang Zhijie Zhu Kai Feng Shuang Liu Yuxuan Zhou Ifra Urooj Jiari He Zhiyi Wu Jiahui Shen Xu Hu Zhijie Chen Xudong Dong Manzar Sohail Yanyun M. Jinxing Chen Chaoran Li Xingda An Le He</i>	2024

Impact Factor: 5.500 | Quartile: 2 | Citations: 3

DOI: <https://doi.org/10.1002/cjoc.202400177>

Highly active iron oxide@NC catalyst derived from the iron acetate/polyacrylonitrile threads: Driving nitroarene conversion to value-added amines

2024

Anosha Rubab Muhammad Sharif Rauf Razzaq Ralf Jackstell Ayman Nafady Jana Weiß Manzar Sohail

Journal of Applied Polymer Science, Volume:141, Issue:41, ID:e56062, Pages:11

Impact Factor: 2.700 | Quartile: 2 | Citations: 3

DOI: <https://doi.org/10.1002/app.56062>

Synthesis and characterization of Cu and Tb substituted NiFe₂O₄@MXene nanocomposite as a new photocatalyst for removal of organic dyes and drugs from industrial wastewater

2024

Sidra tul Shafa Beriham Basha Z. A. Alrowaili Muhammad Imran Manzar Sohail M.S. Al-Buriah Muhammad Shahid Muhammad Farooq Warsi

Results in Physics, Volume 63, Article Number 107844

Impact Factor: 4.400 | Quartile: 1 | Citations: 10

DOI: <https://doi.org/10.1016/j.rinp.2024.107844>

Visible light driven (VLD) reduced TiO₂-x nanocatalysts designed by inorganic and organic reducing agent-mediated solvothermal methods for electrocatalytic and photocatalytic applications†

2024

Sadaf Jamil Naila Jabeen Fatima Sajid Latif U. Khan Afia Kanwal Manzar Sohail Muhammad Zaheer Zareen Akhter

RSC Advances, Volume:14, Issue:33, Pages:24092-24104

Impact Factor: 3.9 | Quartile: 2 | Citations: 1

DOI: 10.1039/D4RA03402C

Efficient Adsorption of Methylene Blue Using a Hierarchically Structured Metal–Organic Framework Derived from Layered Double Hydroxide

2024

Ghulam Murtaza Syed Shoaib Ahmad Shah Ghayoor Abbas Chotana Ayman Nafady Md A. Wahab Manzar Sohail Asad Mumtaz

ACS Omega, Vol:9, Issue:14, Pages:16334-16345

Impact Factor: 4.1 | Quartile: 2 | Citations: 10

DOI: 10.1021/acsomega.3c10524

2D Nanostructured MXene-Based Silver Nanoparticles for Photocatalytic Degradation of Safranin Dye

2024

Asim Riaz Munawar Alam Faiza Wahad Manzar Sohail Muhammad Altaf Syed Mustansar Abbas Muhammad Faheem

Catalysts, Volume 14, Issue 3, Article Number: 201

Impact Factor: 3.9 | Quartile: 2 | Citations: 10

DOI: 10.3390/catal14030201

Novel and efficient Bi-doped CoTe nano-solar evaporators embedded on leno weave cotton gauze for efficient solar-driven desalination

2024

Nadeem Baig Manzar Sohail Ayman Nafady Syed Shoaib Ahmad Shah Anwar Ul-Hamid Panagiotis Tsiakaras Javeria Tabassum

Journal of Colloid and Interface Science, Volume 658, Pages 758-771

Impact Factor: 9.4 | Quartile: 1 | Citations: 11

DOI: 10.1016/j.jcis.2023.12.089

Efficient charge separation and transportation using 1D iron-sulfide@titania heterojunctions as photoanodes for improved interface stability and photoelectrochemical activity to produce hydrogen

2024

Noor Alam Fazeelat Rehman Manzar Sohail Asad Mumtaz

New Journal of Chemistry, Volume 48, Issue 9, Pages 3998-4008

Impact Factor: 3.300 | Quartile: 2 | Citations: 3

DOI: 10.1039/D3NJ04753A

Recent trends in wastewater treatment by using metal-organic frameworks (MOFs) and their composites: A critical view-point

2024

Syed Shoaib Ahmad Shah Manzar Sohail Ghulam Murtza Amir Waseem Aziz ur Rehman Iftikhar Hussain Muhammad Sohail Bashir Saleh S. Alarfaji Ahmed

M. Hassan Muhammad Altaf Nazir Muhammad Sufyan Javed Tayyaba Najam

Chemosphere, Volume 349, Article Number 140729

Impact Factor: 8.8 | Quartile: 1 | Citations: 71

DOI: <https://doi.org/10.1016/j.chemosphere.2023.140729>

Engineering Mn-Doped CdS Thin Films Through Chemical Bath Deposition for High-Performance Photoelectrochemical Water Splitting

2024

Nimrah Tahir Amna Altaf Nadeem Baig Ayman Nafady Anwar Ul-Hamid Syed Shoaib Ahmad Shah Panagiotis Tsiakaras Manzar Sohail

Chemistry-An Asian Journal, Article Number: e202301100, Pags: 11

Impact Factor: 4.1 | Quartile: 2 | Citations: 7

- Ferrocene-Boosted Nickel Sulfide Nanoarchitecture for Enhanced Alkaline Water Splitting** 2024
Hafiza Komal Zafar Raja Shahid Ashraf Muhammad Arfan Mohammad Rezaul Karim Md A. Wahab Manzar Sohail Abeera Hassan Chemistry-An Asian Journal , Article Number: e202301051, Pages: 11
Impact Factor: 4.1 | Quartile: 2 | Citations: 3
DOI: 10.1002/asia.202301051
- Photocatalytic degradation of methylene blue dye and electrocatalytic water oxidation over copper(II) complex with mixed ligands** 2024
Mudassir Jamil Muhammad Nadeem Akhtar Muhammad Imran Ayesha Javaid Hafiza Komal Zafar Manzar Sohail Murad A. AIDamen Magdalena Fitta Monther A. Khanfar Raed A. Al-Qawasmeh Journal of Photochemistry and Photobiology A: Chemistry, Volume 446, Article Number 115095
Impact Factor: 4.3 | Quartile: 2 | Citations: 29
DOI: <https://doi.org/10.1016/j.jphotochem.2023.115095>
- S-doped copper selenide thin films synthesized by chemical bath deposition for photoelectrochemical water splitting** 2023
Hafiza Komal Zafar Manzar Sohail Ayman Nafady Kostya Ken Ostrikov Geoffrey Will Md A. Wahab Anthony O'Mullane Applied Surface Science , Volume 641, Article Number 158505
Impact Factor: 6.7 | Quartile: 1 | Citations: 17
DOI: <https://doi.org/10.1016/j.apsusc.2023.158505>
- Exploring electrochemical and magnetic properties of Fe(III) coordination cluster: An efficient electrocatalyst for water oxidation** 2023
Muhammad Nadeem Akhtar Sumayyah Khan Manzar Sohail Murad A. AIDamen Amin Khan Muhammad Imran Magdalena Fitta Inorganica Chimica Acta , Volume 558, Article Number 121726
Impact Factor: 2.8 | Quartile: 2 | Citations: 1
DOI: <https://doi.org/10.1016/j.ica.2023.121726>
- Heterostructure NiCo-Alloy Nanosheet Embedded Ceria Nanorods: A Highly Efficient Bifunctional Electrocatalyst toward Oxygen Evolution Reaction and Oxygen Reduction Reaction** 2023
Arslan Hameed, Fatima Nasim Nimra Nisar Hassan Ali Ahsanulhaq Qurashi Dalaver H. Anjum Manzar Sohail Muhammad Arif Nadeem Energy & Fuels , Volume 37(22), Pages 17605-17615
Impact Factor: 5.3 | Quartile: 1 | Citations: 15
DOI: <https://doi.org/10.1021/acs.energyfuels.3c02905>
- Enhanced Electrocatalytic Activity of Amorphized LaCoO₃ for Oxygen Evolution Reaction** 2023
Amna Altaf Manzar Sohail Muhammad Altaf Ayman Nafady Muhammad Sher Md A Wahab Chemistry - An Asian Journal , Pages 1-24
Impact Factor: 4.1 | Quartile: 2 | Citations: 3
DOI: 10.1002/asia.202300870
- Boosting the photoexcited charge collection and transportation via BiVO₄/Fe-TiO₂ NRs in Type-II heterojunction for efficient photoelectrochemical water splitting** 2023
Fazeelat Rehman Noor Alam Manzar Sohail Muhammad Ahmad Muhammad Israr Muhammad Imran Irshad Dr Asad Mumtaz Journal of Photochemistry and Photobiology A: Chemistry, Volume 444, Article Number: 114956
Impact Factor: 5.14 | Quartile: 2 | Citations: 9
DOI: 10.1016/j.jphotochem.2023.114956
- A facile two-step hydrothermal preparation of 2D/2D heterostructure of Bi₂WO₆/WS₂ for the efficient photodegradation of methylene blue under sunlight** 2023
Muhammad Fiaz Manzar Sohail Ayman Nafady Geoffrey Will Md A Wahab Environmental Research , Volume 234, Article Number 116550
Impact Factor: 8.3 | Quartile: 1 | Citations: 24
DOI: <https://doi.org/10.1016/j.envres.2023.116550>
- Fe₃O₄ nanochips loaded MXenes/g-C₃N₄ nanocomposite for ultrasensitive electrochemical detection of zinc (II), cadmium (II), lead (II), copper (II) and mercury (II) metal ions** 2023
Mehwish Akhtar Manzar Sohail Muhammad Farooq Warsi Mohamed M. Ibrahim Mohammed A. Amin Muhammad Shahid FlatChem , Volume 41, Article Number: 100537
Impact Factor: 6.2 | Quartile: 2 | Citations: 24
DOI: 10.1016/j.flatc.2023.100537
- NiCo₂O₄ nano-needles as an efficient electro-catalyst for simultaneous water splitting and dye degradation** 2023

- Muhammad Bilal Amna Altaf Ehmen Bint-E-Khalid Hafiza Komal Zafar Nimrah Tahir Ayman Nafady Md A. Wahab Syed Shoaib Ahmad Shah Tayyaba Najam Manzar Sohail*
RSC Advances , Volume 13, Issue 34, Pages 23547-23557
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 11
DOI: 10.1039/D3RA03012A
- Local atomic structure order and electrochemical properties of NiO based nano-catalysts for ethanol sensing at room temperature** 2023
Fatima Sajid Naila Jabeen Latif U.Khan Manzar Sohail Adeela Rehman Zareen Akhtar
Journal of Physics and Chemistry of Solids, Volume 175, Article Number 111201
Impact Factor: 4.383 | **Quartile:** 2 | **Citations:** 7
DOI: <https://doi.org/10.1016/j.jpcs.2022.111201>
- Effect of (Sm, In) Doping on the Electrical and Thermal Properties of Sb₂Te₃ Microstructures** 2023
Nitasha Komal Muhammad Adil Mansoor Muhammad Mazhar Manzar Sohail Zahida Malik Muhammad Anis-ur-Rehman
ACS Omega , Volume 8, Issue 11, Pages 9797-9806
Impact Factor: 4.132 | **Quartile:** 2 | **Citations:** 12
DOI: 10.1021/acsomega.2c05859
- Facile preparation of porous Cu, Ni, and Cu–Ni alloy as electrodes for supercapacitor application** 2023
Nitasha Komal Ghulam Ali Manzar Sohail Muhammad Mazhar Zahida Malik M. Hamid Sarwar Watoo
Materials Chemistry and Physics , Volume 295, Article Number 127060
Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 9
DOI: <https://doi.org/10.1016/j.matchemphys.2022.127060>
- Facile Synthesis of PdO.TiO₂ Nanocomposite for Photoelectrochemical Oxygen Evolution Reaction** 2023
Amna Altaf Manzar Sohail Ayman Nafady Rashid G. Siddique Syed Shoaib Ahmad Shah Tayyaba Najam
Molecules , Volume 28, Issue 2, Article Number 572
Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.3390/molecules28020572>
- Improving selective hydrogenation of carbonyls bond in α , β -unsaturated aldehydes over Pt nanoparticles encaged within the amines-functionalized MIL-101-NH₂** 2022
Muhammad Zahid Ahmed Ismail Manzar Sohail Yujun Zhu
Journal of Colloid and Interface Science , Volume 628, Pages 141-152
Impact Factor: 9.965 | **Quartile:** 1 | **Citations:** 24
DOI: <https://doi.org/10.1016/j.jcis.2022.08.067>
- Tuberculosis detection from raw sputum samples using Au-electroplated screen-printed electrodes as E-DNA sensor** 2022
Muhammad Nauman Sharif Saman Toufeeq Manzar Sohail Shah Rukh Abbas
Frontiers in Chemistry , Volume 10, Article Number 1046930
Impact Factor: 5.545 | **Quartile:** 2 | **Citations:** 5
DOI: <https://doi.org/10.3389/fchem.2022.1046930>
- Enhanced photoelectrochemical performance of P-doped g-C₃N₄/Zn_{0.5}Cd_{0.5}S heterojunction photocathode for water splitting** 2022
Waseem Zeb Amna Altaf Muhammad Aamir Nadeem Baig Irshad Baig Ayman Nafady Muhammad Sharif Muhammad Sher Manzar Sohail
Journal of Saudi Chemical Society , Volume 26, Issue 6, Article Number 101542
Impact Factor: 4.712 | **Quartile:** 2 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.jscs.2022.101542>
- Selenium Nanoneedles Deposited on a Pencil Graphite Electrode for Hydrazine Sensing** 2022
Sumaya Ishtiaq Manzar Sohail Shahid Rasul Abdul Wasy Zia Lidija Siller Ghayoor Abbas Chotana Muhammad Sharif Ayman Nafady
ACS Applied Nano Materials , ACS Applied Nano Materials
Impact Factor: 6.140 | **Quartile:** 2 | **Citations:** 14
DOI: 10.1021/acsanm.2c02475
- Crystalline and porous CoSe dendrimeric architectures for efficient oxygen evolution reaction** 2022
Muhammad Bilal Rashid Amna Altaf Nadeem Baig Ghayoor Abbas Chotana Raja Shahid Ashraf Shahid Rasul Ayman Nafady Anwar ul Hamid Manzar Sohail
Fuel , Volume 323, Article Number 124324
Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 17
DOI: 10.1016/j.fuel.2022.124324

Poly(3-hexylthiophene) stabilized ultrafine nickel oxide nanoparticles as superior electrocatalyst for oxygen evolution reaction: Catalyst design through synergistic combination of π-conjugated polymers and metal-based nanoparticles <i>Sunniya Iftikhar Saba Aslam Hatice Duran Senem Çitoglu Katrin Kirchhoff Ingo Lieberwirth Manzar Sohail Basit Yameen</i> <i>Journal of Applied Polymer Science</i> , Volume 139, Issue 29, Article Number e52636 Impact Factor: 3.0 Quartile: 2 Citations: 2 DOI: 10.1002/app.52636	2022
Hydrothermal synthesis and characterization of transition metal (Mn/Fe/Cu) co-doped cerium oxide-based nano-additives for potential use in the reduction of exhaust emission from spark ignition engines <i>Naila Jabeen Latif U. Khan Manzar Sohail Muhammad Zaheer Muhammad Vaqas Afia Kanwal Fatima Sajid Samina Qamar Zareen Akhter Nazish Qadeer</i> <i>RSC Advances</i> , Volume 12, Issue 24, Pages 15564-15574 Impact Factor: 3.9 Quartile: 2 Citations: 6 DOI: 10.1039/D2RA01954J	2022
Solid-state synthesis and process optimization of bone whitlockite <i>Sadaf Batool Zakir Hussain Usman Liaqat Manzar Sohail</i> <i>Ceramics International</i> , Article in Press Impact Factor: 5.2 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.ceramint.2022.01.267	2022
Ag Functionalized In₂O₃ Derived From MIL-68(In) as an Efficient Electrochemical Glucose Sensor <i>Dooa Arif Zakir Hussain Amna Didar Abbasi Manzar Sohail</i> <i>Frontiers in Chemistry</i> , Volume 10, Article Number 906031 Impact Factor: 5.545 Quartile: 2 Citations: 10 DOI: https://doi.org/10.3389/fchem.2022.906031	2022
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ACS Sensors Reviewed Papers for Journals Impact Factor: 8.9	2024
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