

Syed Shoaib Ahmad Shah

Assistant Professor
School of Natural Sciences

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Contact:



About

Dr. Syed Shoaib Ahmad Shah is working as Assistant Professor in the School of Natural Sciences. Dr. Syed Shoaib Ahmad Shah has a PhD in Chemistry and Chemical Engineering. Dr. Syed Shoaib Ahmad Shah has published 111 research articles & conference papers having a citation count of 2330, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Chemistry and Chemical Engineering Chongqing University , China	2015 - 2018
MPhil in Inorganic Chemistry Islamia University of Bahawalpur , Pakistan	2010 - 2012
MSc in Inorganic Chemistry Islamia University of Bahawalpur , Pakistan	2006 - 2008
BSc in Chem Phy Math BZU, Multan , Pakistan	2002 - 2004

Experience

Assistant Professor School of Natural Sciences	2024- Present
Assistant Professor School of Natural Sciences	2024 - 2024
Assistant Professor School of Natural Sciences	2023 - 2024
Research Associate NUST , H-12, Islamabad	2022 - 2023
Postdoc Fellow University of Science and Technology of China , Hefei, China	2020 - 2021
Assistant Professor Islamia University of Bahawalpur , Bahawalpur	2018 - 2019

Research Projects

National Projects	
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
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

International Projects

Research Articles

Synthesis of MIL-88@activated carbon composite as an efficient adsorbent for the removal of Rhodamine B

2026

Sami Ullah Aziz ur Rehman Lala Gurbanova Tayyaba Najam Amal M Al-Mohaimed Wedad A. Al-Onazi karim Khan Syed Shoaib Ahmad Shah Muhammad Altaf Nazir

International Journal of Environmental Analytical Chemistry

Impact Factor: 2.5 | **Quartile:** 3

DOI: <https://doi.org/10.1080/03067319.2025.2518301>

Graphene-supported electrocatalysts for efficient hydrogen evolution: Advances and applications

2025

Muhammad Altaf Nazir Samreen Afzal Iqra Razzaq Lala Gurbanova Sami Ullah Ibrahim A. Shaaban Awais Ahmad Akbar Mohammad Syed Shoaib Ahmad Shah

International Journal of Hydrogen Energy, Volume:161, 150710

Impact Factor: 8.300 | **Quartile:** 1

DOI: <https://doi.org/10.1016/j.ijhydene.2025.150710>

Fenton activated and visible light triggered trimetallic FeZnAl-LDH for remediation of Crystal violet dye

2025

Muhammad Altaf Nazir Ome Parkash Kumar Rashid Ali Muhammad Adnan Saeed Ashfaq Ahmad Aziz ur Rehman P. Rosaiah Wail Al Zoubi Syed Shoaib Ahmad Shah

Journal of Molecular Structure, Volume:1335, Article Number 142000

Impact Factor: 4.000 | **Quartile:** 2 | **Citations:** 1

DOI: <https://doi.org/10.1016/j.molstruc.2025.142000>

Current Progress of Metal Sulfides/Metal–Organic Frameworks Composite Materials for Photocatalytic H₂ Production

2025

Misbah Shahid Tayyaba Najam Ibrahim A. Shaaban Sultan Ullah Muhammad Ashfaq Ahmad Lala Gurbanova Awais Ahmad Syed Shoaib Ahmad Shah Muhammad Altaf Nazir

Energy Technology, Article Number:2402357, Pages:34

Impact Factor: 3.6 | **Quartile:** 3

DOI: <https://doi.org/10.1002/ente.202402357>

Synergistic Effect SnO₂/g-C₃N₄ Heterojunction Cocatalyst for Photodegradation of Methyl Orange

2025

Samreen Afzal Muhammad Nadeem Akhtar Lala Gurbanova Mohamed A. El-Sheikh Awais Ahmad Chang-Hyung Choi Md Rezaul Karim Syed Shoaib Ahma Shah Muhammad Altaf Nazir

ChemistrySelect, Volume:10, Issue:23, Article Number e02037

Impact Factor: 2.000 | **Quartile:** 3

DOI: <https://doi.org/10.1002/slct.202502037>

MOFs-derived metal sulfides and their composite for photocatalysis

2025

Muhammad Altaf Nazir Sami Ullah Muhammad Arshad Muhammad Sufyan Javed Ibrahim A. Shaaban Rashid Iqbal Awais Ahmad Md Rezaul Karim Syed Shoaib Ahmad Shah

Solar Energy, Volume 292, Article Number 113452

Impact Factor: 6.000 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.1016/j.solener.2025.113452>

Synthesis of CuFe-LDH/MIL-88 Composite for the Photocatalytic Degradation of Methyl Orange Dye

2025

Sundas Riaz Rashid Ali Rashid Iqbal Tayyaba Najam Amal M. Al-Mohaimed,[Mohamed Soliman Elshikh Md Rezaul Karim Syed Shoaib Ahmad Shah Muhammad Altaf Nazir

ChemistrySelect, Volume:10, Issue: 17, Article Number:e202500858

Impact Factor: 2.0 | **Quartile:** 3 | **Citations:** 3

DOI: <https://doi.org/10.1002/slct.202500858>

Machine learning assisted designing of small molecule acceptors with multiple terminal electron-deficient groups and performance prediction for next-generation photovoltaics

2025

Zunaira Shafiq Mudassir Hussain Tahir Syed Shoaib Ahmad Shah Khalid M. Elhindi Munaza Shah Din Nadia Akram Muhammad Ramzan Saeed Ashraf Janjua

Journal of Solid State Chemistry, Volume 345, Article Number 125240

Impact Factor: 3.200 | **Quartile:** 2 | **Citations:** 1

DOI: <https://doi.org/10.1016/j.jssc.2025.125240>

Synthesis and photocatalytic degradation efficiency of MgFe₂O₄@CuO nanocomposite for Bromophenol blue dye removal

2025

Kinza Maqsood Rashid Ali Khalil Ahmad Mohamed A. El-Sheikh Rashid Iqbal Md Rezaul Karim Syed Shoaib Ahmad Shah Muhammad Altaf Nazir

Journal of the Chinese Chemical Society, Volume:72, Issue: 4, Pages:390-400

Impact Factor: 1.5 | **Quartile:** 3 | **Citations:** 5

DOI: <https://doi.org/10.1002/jccs.70000>

- Introducing atomistic dynamics at van der Waals surfaces for enhancing the thermoelectric performance of layered Bi_{0.4}Sb_{1.6}Te₃** 2025
Adil Mansoor Bushra JABbar Syed Shoaib Ahmad Shah Muhammad Sufyan Javed Tayyaba Najam Shuo Chen Fu Li Xiao-Lei Shi Yui-Xing Chen Guang-Xing Liang Zhi-Gang Chen Zhuang- Hao Zheng Muhammad Ishaq
Energy and Environmental Sciences, Volume 18, Issue 5, Pages 2485-2498
Impact Factor: 32.400 | **Quartile:** 1 | **Citations:** 5
DOI: <https://doi.org/10.1039/D4EE04930F>
- Biomass Derived Hybrid Activated Carbon/Iron Oxide Composite for Photodegradation of Methylene Blue Upon Visible Light** 2025
Sami Ullah Ome Parkash Kumar Rashid Ali Nagina Naveed Riaz Ashfaq Ahmad Muhammad Khurram Tufail Niaz Muhammad Aziz ur Rehman Syed Shoaib Ahmad Shah Muhammad Altaf Nazir
ChemistrySelect, Volume 10, Issue 7, Article Number e202405028
Impact Factor: 1.900 | **Quartile:** 3 | **Citations:** 6
DOI: <https://doi.org/10.1002/slct.202405028>
- Data-mining and machine learning based search for optimal materials for perovskite and organic solar cells** 2025
Nafees Ahmad Mahmoud A.A. Ibrahim Shaban R.M. Sayed Syed Shoaib Ahmad Shah Mudassir Hussain Tahir Yingping Zou
Solar Energy, Volume 287, Article Number 113223
Impact Factor: 6.000 | **Quartile:** 2 | **Citations:** 3
DOI: <https://doi.org/10.1016/j.solener.2024.113223>
- Efficient photocatalytic degradation of bisphenol A on 2D-3D spherically hierarchical structure Zn₅In₂S₈** 2025
Zongwen Zhang Yi Zhang Huili Han Riyadh Ikreedeegh Syed Shoaib Ahmad Shah Muhammad Tayyab
Frontiers in Chemistry, Volume: 12, Pages: 11
Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 1
DOI: <https://doi.org/10.3389/fchem.2024.1519370>
- Polyoxometalates based transition metal sulfide composites for hydrodesulfurization and hydrogen evolution reaction** 2025
Ghulam Murtaza Tayyaba Najam Naseem Ahmad Khan Muhammad Sher Muhammad Kashif Aslam Ibrahim A. Shaaban Muhammad Altaf Nazir Manzar Sohail Syed Shoaib Ahmad Shah
International Journal of Hydrogen Energy, Volume 98, Pages 527-541
Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 4
DOI: <https://doi.org/10.1016/j.ijhydene.2024.12.048>
- Enhanced Photocatalytic Performance of ZIF-67@ZIF-11 in Binary MOF Systems for Rapid Removal of Persistent Organic Pollutants** 2024
Muhammad Altaf Nazir Ome Parkash Kumar Rashid Ali Muhammad Dilawar Hussain Sultan Ullah Abdul Rauf Ahmed M. El-Sherbeeney Aziz ur Rehman Syed Shoaib Ahmad Shah
Korean Journal of Chemical Engineering, Pages 1-15
Impact Factor: 3 | **Quartile:** 2 | **Citations:** 6
DOI: <https://doi.org/10.1007/s11814-024-00363-3>
- Synergistic photodegradation of moxifloxacin with BiFeO₃@ZIF-67 heterojunction co-catalyst** 2024
Muhammad Jamshaid Shazia Jabeen Mohamed Mohany Salim S. Al-Rejaie Saltanat Aghayeva Sadia Atta Aqeela Shaheen Syed Shoaib Ahmad Shah Aziz Ur Rehman
Journal of Molecular Structure, Volume 1318, Part 1, Article Number 139332
Impact Factor: 4.000 | **Quartile:** 2 | **Citations:** 5
DOI: <https://doi.org/10.1016/j.molstruc.2024.139332>
- Light harvesting S-scheme g-C₃N₄/TiO₂/M photocatalysts for efficient removal of hazardous moxifloxacin** 2024
Misbah Malik Muhammad Altaf Nazir Hasan M. Khan Syed Shoaib Ahmad Shah Aqsa Anum Aziz Ur Rehman Abeer Hashem Graciela Dolores Avila-Quezada Elsayed Fathi Abd_Allah
Diamond and Related Materials, Volume:150, ID:111673
Impact Factor: 4.3 | **Quartile:** 2 | **Citations:** 5
DOI: <https://doi.org/10.1016/j.diamond.2024.111673>
- Machine Learning-Assisted Designing and Screening of Polymers with a High Melting Point: Database Visualization and Synthetic Feasibility Assessment** 2024
Zaheer Ahmed Dayo Jiang Guosong Mohamed A. El-Tayeb Syed Shoaib Ahmad Shah Sumaira Naeem

Unlocking the potential: Innovations and strategies for electrolyte optimization in Zn-ion batteries

2024

Muhammad Kashif Aslam Iftikhar Hussain Abdul Jabbar Khan Shahid Hussain Syed Shoaib Ahmad Shah Ali H. Al-Marzouqi Maowen Xu

Energy Storage Materials , Volume: 73, Article Number: 103851

Impact Factor: 18.9 | **Quartile:** 1 | **Citations:** 4

DOI: <https://doi.org/10.1016/j.ensm.2024.103851>

Polymer design using machine learning: A quest for high glass transition temperature

2024

Abrar Ul Hassan Syed Shoaib Ahmad Shah Hala M. Abo-Dief Sumaira Naeem Numan Khan Eman Alzahrani Zeinhom M. El-Bahy

Synthetic Metals , Volume 307, Article Number 117659

Impact Factor: 4.000 | **Quartile:** 2 | **Citations:** 6

DOI: [10.1016/j.synthmet.2024.117659](https://doi.org/10.1016/j.synthmet.2024.117659)

Synthesis and biological evaluation of β -lactams as potent antidiabetic agents

2024

Salma Shaheen Jahan Zaib Arshad Mansoor Haider Adnand Ashraf Muhammad Ashfaq Mostafa A. Ismail Tayyaba Najam Muhammad Mahboob Ahmad

Syed Shoaib Ahmad Shah

New Journal of Chemistry , VoL:48, Issue: 46, Pages:19427-19440

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 1

DOI: <https://doi.org/10.1039/D4NJ02535K>

Tailoring the d-Band Center of WS₂ by Metal and Nonmetal Dual-Doping for Enhanced Electrocatalytic

2024

Nitrogen Reduction

Lulu Wen Qingfang Chang Xilin Zhang Xinyang Li Shichuan Zhong Pan Zeng Syed Shoaib Ahmad Shah Xiaoye Hu Weiping Cai Yue Li

Small , Pages 1-9

Impact Factor: 13.000 | **Quartile:** 1 | **Citations:** 5

DOI: <https://doi.org/10.1002/sml.202407594>

A systematic approach to generate polymer library: A search for polymers with high dipole moment

2024

Khadijah Mohammedsaleh Katubi Syed Shoaib Ahmad Shah Sumaira Naeem Tayyaba Najam Z.A. Alrowaili M.S. Al-Buriahi

Chemical Physics Letters , Volume:850, Article Number:141450

Impact Factor: 2.8 | **Quartile:** 1 | **Citations:** 1

DOI: [10.1016/j.cplett.2024.141450](https://doi.org/10.1016/j.cplett.2024.141450)

Optimizing electrochemical power generation: Harnessing synergies and surface innovation in NiTe-modified MOF nanoarchitectures

2024

Hafiza Komal Zafar Syed Shoaib Ahmad Shah Manzar Sohail Raja Shahid Ashraf Ayman Nafady Geoffrey Will Md A. Wahab

Journal of Power Sources , Volume 612, Article Number 234827

Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 3

DOI: <https://doi.org/10.1016/j.jpowsour.2024.234827>

Highly Efficient Mg_{0.75}Ce_{0.25}Fe₁₂O₁₉ @ZIF-67 Heterojunction Co-catalyst for Photo-reduction of Rhodamine B

2024

Muhammad Altaf Nazir Muhammad Jamshaid Muhammad Altaf Tayyaba Najam Amal M. Al-Mohaimed Wedad A. Al-onazi Aziz ur Rehman Syed Shoaib Ahmad Shah

Korean Journal of Chemical Engineering , Volume 41, Issue 8, Pages 2307-2319

Impact Factor: 3.00 | **Quartile:** 2 | **Citations:** 38

DOI: <https://doi.org/10.1007/s11814-024-00162-w>

Bimetallic Fe/Ni-BTC MOF decorated MXene hybrid for improved oxidation of water

2024

Maida Murtaza Komal Farooq Aneeqa Areeb Amjad Syed Shoaib Ahmad Shah Amir Waseem

Diamond and Related Materials , Volume 147, Article Number 111379

Impact Factor: 4.300 | **Quartile:** 2 | **Citations:** 15

DOI: <https://doi.org/10.1016/j.diamond.2024.111379>

Machine learning assisted designing of polymers and refractive index prediction: Easy and fast screening of polymers from chemical space

2024

Jawayria Najeeb Syed Shoaib Ahmad Shah Mudassir Hussain Tahir Ahmed I. Hanafy Salah M. El-Bahy Zeinhom M. El-Bahy

Materials Chemistry and Physics , Volume 324, Article Number 129685

Impact Factor: 4.300 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1016/j.matchemphys.2024.129685>

Hydrophobic Microenvironment Modulation of Ru Nanoparticles in Metal–Organic Frameworks for Enhanced Electrocatalytic N₂ Reduction

2024

Lulu Wen Xiaoshuo Liu Xinyang Li Hanlin Zhang Shichuan Zhong Pan Zeng Syed Shoaib Ahmad Shah Xiaoye Hu Weiping Cai Yue Li

Advanced Science, Pages 1-9

Impact Factor: 14.3 | **Quartile:** 1 | **Citations:** 5

DOI: <https://doi.org/10.1002/adv.202405210>

Copper- and Manganese-Based Bimetallic Layered Double Hydroxides for Catalytic Reduction of Methylene Blue

2024

Muhammad Altaf Nazir Aziz ur Rehman Tayyaba Najam Mohamed Farouk Elsadek M. Ajmal Ali Ismail Hossain Muhammad Khurram Tufail Syed Shoaib Ahmad Shah

Catalysts, Volume 14, Issue 7, Article Number 430

Impact Factor: 3.800 | **Quartile:** 2 | **Citations:** 19

DOI: <https://doi.org/10.3390/catal14070430>

Advanced Nix/MoS_x/MOF-2@g-C₃N₄ carbon nanostructures for the effective eradication of the Methylene blue dye

2024

Aqsa Anum Muhammad Altaf Nazir Syed Shoaib Ahmad Shah Ashraf Y. Elnaggar M.H.H. Mahmoud Salah M. El-Bahy Misbah Malik Muhammad Ahmad Wattoo Aziz ur Rehman

Fullerenes Nanotubes and Carbon Nanostructures, Volume 32, Issue 8, Pages: 12

Impact Factor: 2.1 | **Quartile:** 2 | **Citations:** 19

DOI: [10.1080/1536383X.2024.2372407](https://doi.org/10.1080/1536383X.2024.2372407)

Isothermal and kinetic screening of methyl red and methyl orange dyes adsorption from water by Delonix regia biochar-sulfur oxide (DRB-SO)

2024

Ahmed Eleryan Mohamed Hassaan Muhammad A. Nazir Syed Shoaib Ahmad Shah Safaa Ragab Ahmed El Nemr

Scientific Reports, Volume 14, Article Number: 13585

Impact Factor: 3.800 | **Quartile:** 1 | **Citations:** 27

DOI: <https://doi.org/10.1038/s41598-024-63510-0>

Revolutionizing polymer engineering for Photodetectors: A Machine Learning-Assisted paradigm for rapid materials discovery

2024

Jing Zhou Syed Shoaib Ahmad Shah Sumaira Naeem Bilal Siddique Numan Khan Abrar Ul Hassan Mohamed A. El-Sheikh Hosam O. Elansary

Chemical Physics, Volume 582, Article Number 112277

Impact Factor: 2.300 | **Quartile:** 3 | **Citations:** 2

DOI: <https://doi.org/10.1016/j.chemphys.2024.112277>

Highly Selective Electroreduction of Nitrobenzene to Aniline by Co-Doped 1T-MoS₂

2024

Ibrahim Ul Islam Yuchi Zhang Boxu Dong Asma Iqbal Saghir Abbas Jiantao Zai Syed Shoaib Ahmad Shah Xuefeng Qian

ACS Applied Materials and Interfaces, Volume: 16, Issue: 19, Pages:25090-25100

Impact Factor: 9.5 | **Quartile:** 1 | **Citations:** 8

DOI: [10.1021/acsami.4c01425](https://doi.org/10.1021/acsami.4c01425)

Activated carbon derived from biomass for wastewater treatment: Synthesis, application and future challenges

2024

Sami Ullah Syed Shoaib Ahmad Shah Muhammad Altaf Ismail Hossain Mohamed E. El Sayed Mohamed Kallel Zeinhom M. El-Bahy Aziz ur Rehman Tayyaba Najam Muhammad Altaf Nazir

Journal of Analytical and Applied Pyrolysis, Volume 179, Article Number 106480

Impact Factor: 5.800 | **Quartile:** 1 | **Citations:** 93

DOI: <https://doi.org/10.1016/j.jaap.2024.106480>

Transition metal chalcogenides and phosphides for photocatalytic H₂ generation via water splitting: a critical review

2024

Muhammad Umar Shahid Tayyaba Najam Mohamed H. Helal Ismail Hossain Salah M. El-Bahy Zeinhom M. El-Bahy Aziz ur Rehman Syed Shoaib Ahmad Shah Muhammad Altaf Nazir

International Journal of Hydrogen Energy, Volume 62, Pages 1113-1138

Impact Factor: 7.200 | **Quartile:** 1 | **Citations:** 54

DOI: <https://doi.org/10.1016/j.ijhydene.2024.03.139>

The in situ synthesis of sunlight-driven Chitosan/MnO₂@MOF-801 nanocomposites for photocatalytic reduction of Rhodamine-B

2024

Muhammad Ishfaq Safyan Akram Khan Muhammad Altaf Nazir Shahid Ali Muhammad Younas Muhammad Mansha Syed Shoaib Ahmad Shah Muhammad Arshad Aziz ur Rehman

Journal of Molecular Structure, Volume:1301, Article Number:137384

Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 50

DOI: 10.1016/j.molstruc.2023.137384

Integrating 1D/2D nanostructure based on Ni–Co-oxalate for energy storage applications

2024

Irum Shaheen Ijaz Ali Faiza Bibi Abdul Hanan Muhammad Ahmad Ishtihar Hussain Muhammad Sufyan Javed Syed Shoaib Ahmad Shah Karim Khan Muhammad Bilal Hanif Martin Motola P. Rosaiah Saikh Mohammad Wabaidur Waqas Ul Arifeen Iftikhar Hussain
Ceramics International , Volume 50, Issue 7, Part A

Impact Factor: 5.2 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1016/j.ceramint.2023.12.394

Ternary metal conjugated ZIF-67 coordination with Ag and Ce for the efficient Fenton-like remediation of dyes under visible light

2024

Ome Parkash Kumar Muhammad Altaf Nazir Syed Shoaib Ahmad Shah Aber Hashem Ajay Kumar Elsayed Fathi Abd_Allah Aziz ur Rehman
Optical Materials , Volume 150, Article Number 115228

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 30

DOI: <https://doi.org/10.1016/j.optmat.2024.115228>

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

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

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>

Band engineering in Ti2N/Ti3C2Tx-MXene interface enhance the performance of aqueous NH4+-ion hybrid supercapacitors

2024

Xiaofeng Zhang Muhammad Sufyan Javed Salamat Ali Awais Ahmad Syed Shoaib Ahmad Shah Iftikhar Hussain Dongwhi Choi Ammar M. Tighezza Elsayed Tag-Eldin Changlei Xia Shafaqat Ali Weihua Han
Nano Energy , Volume 120, Article Number 109108

Impact Factor: 17.6 | **Quartile:** 1 | **Citations:** 47

DOI: <https://doi.org/10.1016/j.nanoen.2023.109108>

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:** 5

DOI: 10.1002/asia.202301100

Engineering of metal organic framework (MOF) membrane for waste water treatment: Synthesis, applications and future challenges

2024

Muhammad Umar Shahid Tayyaba Najam Mazharul Islam Ahmed M. Hassan Mohammed A. Assiri Abdul Rauf Aziz ur Rehman Syed Shoaib Ahmad Shah Muhammad Altaf Nazir
Journal of Water Process Engineering , Volume:57, Article Number: 104676

Impact Factor: 7.0 | **Quartile:** 1 | **Citations:** 94

DOI: 10.1016/j.jwpe.2023.104676

Escalating the synergism on CdZnS via Ag2S/Cu2S co-catalysts: Boosts hydrogen evolution from water splitting under sunlight

2024

Amir Shahzad Khezina Rafiq Muhammad Zeeshan Abid Naseem Ahmad Khan Syed Shoaib Ahmad Shah Raed H. Althomali Abdul Rauf Ejaz Hussain
Journal of Catalysis , Volume 429, Article Number 115210

- Impact Factor: 7.3 | Quartile: 1 | Citations: 19**
DOI: 10.1016/j.jcat.2023.115210
- Designing efficient materials for high-performance organic solar cells: Detailed chemical space exploration, machine learning and virtual screening** 2024
Muhammad Khurram Tufail Syed Shoaib Ahmad Shah Salahuddin Khan Farooq Ahmad Lucy W. Kiruri Misbah Sehar Abbasi Ali Ahmad
Chemical Physics Letters, Volume 834, Article Number 140974
Impact Factor: 2.8 | Quartile: 1 | Citations: 6
DOI: <https://doi.org/10.1016/j.cplett.2023.140974>
- Synthesis of oxidized carboxymethyl cellulose-chitosan and its composite films with SiC and SiC@SiO₂ nanoparticles for methylene blue dye adsorption** 2024
Aiman Javed Momina Islam Youssef O. Al-Ghamdi Mudassir Iqbal Marwah Aljohani Saima Sohni Syed Shoaib Ahmad Shah Shahid Ali Khan
International Journal of Biological Macromolecules, Volume 256, Part 1, Article Number 128363
Impact Factor: 7.7 | Quartile: 1 | Citations: 13
DOI: 10.1016/j.ijbiomac.2023.128363
- Anticancer Properties of Ru and Os Half-Sandwich Complexes of N,S Bidentate Schiff Base Ligands Derived from Phenylthiocarbamide** 2023
Jahan Zaib Arshad Sana Tabassum Muhammad Shaheer Kiani, Sundas Arshad Muhammad Ali Hashmi Imran Majeed Hassan Ali Syed Shoaib Ahmad Shah
Chemistry - An Asian Journal, Volume 18, Issue 23, Pages: 13, Article Number: e202300804,
Impact Factor: 4.1 | Quartile: 2 | Citations: 6
DOI: 10.1002/asia.202300804
- Growth of tunable Au-BaO@TiO₂/CdS heterostructures: Acceleration of hydrogen evolution from water splitting** 2023
Mamoona Sabir Khezina Rafiq Muhammad Zeeshan Abid Ujala Quyyum Syed Shoaib Ahmad Shah Muhammad Faizan Abdul Rauf Shahid Iqbal Ejaz Hussai
Fuel, Volume 353, Article Number 129196
Impact Factor: 7.4 | Quartile: 1 | Citations: 35
DOI: <https://doi.org/10.1016/j.fuel.2023.129196>
- Synthetic accessibility-informed designing of efficient organic semi-conductors for organic solar cells** 2023
Beriham Basha Farooq Ahmad Misbah Sehar Abbasi Tayyaba Najam Syed Shoaib Ahmad Shah Z.A. Alrowaili M.S. Al-Buriahi
Chemical Physics Letters, Volume 831, Article Number 140852
Impact Factor: 2.8 | Quartile: 2 | Citations: 2
DOI: <https://doi.org/10.1016/j.cplett.2023.140852>
- Construction of hybrid sulfur-doped MOF-235@g-C₃N₄ photocatalyst for the efficient removal of nicotine** 2023
Aqsa Anum Sobhy M. Ibrahim Asif A. Tahir Muhammad Altaf Nazir Misbah Malik Syed Shoaib Ahmad Shah Amber Ehsan Muhammad Ahmad Wattoo Aziz ur Rehman
Inorganic Chemistry Communications, Volume 157, Article Number 111268
Impact Factor: 3.8 | Quartile: 1 | Citations: 40
DOI: <https://doi.org/10.1016/j.inoche.2023.111268>
- Cobalt hydroxide supported nickel nanoparticles for an efficient electrocatalytic urea oxidation reaction** 2023
Waheed Iqbal Arslan Hameed Irsa Tariq Syed Shoaib Ahmad Shah Muhammad Arif Nadeem
Electrochimica Acta, Volume 467, Article Number 143055
Impact Factor: 6.6 | Quartile: 2 | Citations: 17
DOI: <https://doi.org/10.1016/j.electacta.2023.143055>
- Modulating the Electronic Structure of Co₂P/NiWO₄ by Interfacial Engineering for Enhanced Seawater Electrolysis** 2023
Lulu Wen Xinyang Li Shichuan Zhong Pan Zeng An Cao Hanlin Zhang Syed Shoaib Ahmad Shah Xiaoye Hu Weiping Cai Yue Li
ACS Applied Engineering Materials, Volume 1, Issue 10, Pages 2503–2509
Impact Factor: 0
DOI: <https://doi.org/10.1021/acsaelm.3c00338>
- Boosting the energy storage performance of aqueous NH₄⁺ symmetric supercapacitor based on the nanostructured molybdenum disulfide nanosheets** 2023
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Metal–Organic Framework-based Photocatalysts for Hydrogen Production

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The Development of Flexible Batteries for Future Electronics

2023

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Editorial Activities

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