

SN	Article Title	Author Full Names	Journal Title	DOI
1	Death Anxiety Among Chronic Disease Patients: The Role of Spiritual Well-Being, Mental Health Issues, and Religious Beliefs	Shoab, Muhammad; Kausar, Noreena	OMEGA-JOURNAL OF DEATH AND DYING	10.1177/00302228251354916
2	Passive localization based on radio tomography images with CNN model utilizing WIFI RSSI	Jabbar, Muhammad; Shoab, Umar	SCIENTIFIC REPORTS	10.1038/s41598-025-99694-2
3	Harnessing chromium oxychloride for next-generation monovalent and multivalent ion batteries: First principles investigations	Ahmed, Iftikhar; Majid, Abdul	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	10.1016/j.mssp.2025.109413
4	Controlled synthesis of 3D pseudocubic Fe ₂ O ₃ /BiFeO ₃ heterojunction photocatalyst for effective ciprofloxacin-HCl and methyl orange degradation	Gishkori, Sophia Nawaz; Abbas, Ghulam; Zahid, Abdul Hannan	MATERIALS LETTERS	10.1016/j.matlet.2024.137573
5	Neural network knacks to investigate thermal variability in nanofluidic fin through temperature-dependent analysis and heat generation studies	Qureshi, Hina Zahid; Ahmad, Iftikhar	EUROPEAN PHYSICAL JOURNAL PLUS	10.1140/epjp/s13360-024-05497-1
6	Elucidating structure-property relationships of guar gum biomolecules: insights from M-polynomial and QSPR modeling	Khalid, Waheed; Yousaf, Shamaila	FRONTIERS IN CHEMISTRY	10.3389/fchem.2024.1410876
7	Impacts of instability and non-Newtonian rheology of Carreau fluid flow employing multiple overlapping stenoses	Khokhar, Muhammad Bilal; Hussain, Azad	AIP ADVANCES	10.1063/5.0252392
8	Numerical treatment for Darcy-Forchheimer flow of propylene glycol with carbon nanotubes under the impacts of MHD and activation energy	Shahbaz, Hafiz Muhammad; Ahmad, Iftikhar	SCIENTIFIC REPORTS	10.1038/s41598-024-82569-3
9	Utilizing topological indices in QSPR modeling to identify non-cancer medications with potential anti-cancer properties: a promising strategy for drug repurposing	Yousaf, Shamaila; Shahzadi, Komal	FRONTIERS IN CHEMISTRY	10.3389/fchem.2024.1410882
10	Stability analysis and new solitary wave solutions for density-dependent space time fractional reaction-diffusion equation	Younas, Tayyaba; Ahmad, Jamshad	ALEXANDRIA ENGINEERING JOURNAL	10.1016/j.aej.2025.05.002
11	A Unified Picture of Cosmic Evolution in a Gravity-Modified Framework	Ahmad, Iftikhar; Mughal, Muhammad Zahid; Mahtisham, Muhammad	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS	10.1007/s10773-025-05991-x
12	Phase plane analysis and novel soliton solutions for the space-time fractional Boussinesq equation using two robust techniques	Younas, Tayyaba; Ahmad, Jamshad	PLOS ONE	10.1371/journal.pone.0320190
13	Allelopathic interactions of Carthamus oxyacantha, Macrophomina phaseolina and maize: Implications for the use of Carthamus oxyacantha as a natural disease management strategy in maize	Aslam, Nazir; Akbar, Muhammad; Andolfi, Anna	PLOS ONE	10.1371/journal.pone.0307082

14	Comprehensive Insights into Sitobion avenae Preferences and Performance on Pakistan's Wheat Cultivars Leading to Identification of Potential RNAi Targets	Mukhtar, Ruhma; Afzal, Eijab; Noureen, Rabia; Zeeshan, Nadia; Afroz, Amber	SAINS MALAYSIANA	10.17576/jsm-2024-5310-09
15	Trichoderma based formulations control the wilt disease of chickpea (Cicer arietinum L.) caused by Fusarium oxysporum f. sp. ciceris, , better when inoculated as consortia: findings from pot experiments under field conditions	Chohan, Safeer A.; Akbar, Muhammad; Iqbal, Umer	PEERJ	10.7717/peerj.17835
16	Improvement in stability and exploring the photovoltaic properties of CsPbI2Br thin films for perovskite solar cells (vol 989, 174170, 2024)	Haider, Zameer; Farooq, Aashir; Tayyab, Muhammad; Musharaf, Muhammad; Ahmed, Naeem; Majid, Abdul; Javed, Khalid	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2024.175760
17	Optimizing photocatalytic performance with AG-doped ZNO nanoparticles: Synthesis and characterization	Hussain, Atif; Fiaz, Shamaila; Almohammed, Abdullah; Waqar, Aqsa	HELIYON	10.1016/j.heliyon.2024.e35725
18	Comprehensive assessment of 3-benzyloxyflavones as β -glucosidase inhibitors: in vitro, in vivo, kinetic, SAR and computational studies	Naeem, Nafeesa; Mughal, Ehsan Ullah	RSC ADVANCES	10.1039/d4ra08558b
19	Cobalt substitution impact on structural modifications and capacitive contributions of BiVO4 nanorods for promising pseudocapacitors electrode applications	Munir, Khudija; Nabi, Ghulam	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	10.1016/j.mseb.2025.118199
20	Thermal optimization of parabolic trough collector in solar powered ship using hybrid Oldroyd-B nanofluid: Artificial intelligence driven heuristics	Butt, Zeeshan Ikram; Ahmad, Iftikhar; Raja, Muhammad Asif Zahoor; Shoaib, Muhammad	SOLAR ENERGY MATERIALS AND SOLAR CELLS	10.1016/j.solmat.2025.113535
21	Evaluation of growth, antioxidant status, hepatic enzymes and immunity of Nanoselenium-Fed Cirrhinus mrigala	Nisa, Sobia; Fatima, Mahroze; Shah, Syed Zakir Hussain; Khan, Noor; Aftab, Beenish; Ali, Wazir; Maryam, Saba; Sana, Saba; Fatima, Amber	PLOS ONE	10.1371/journal.pone.0308761
22	The pervasiveness of food insecurity and its correlates in Pakistan	Arshad, Muhammad Usman; Tunio, Fayaz Hussain; Javed, Maryam; Nabi, Agha Amad	COGENT FOOD & AGRICULTURE	10.1080/23311932.2024.2421054
23	Recent developments in applications of G-CuO nanocomposites for photocatalytic dye removal	Mehmood, Arslan; Sandhu, Zeshan Ali; Iqbal, Muhammad Jawad; Manzoor, Ayesha; Elahi, Maha; Liyaqat, Samreen; Nadeem, Iqra; Zainab, Syeda Ammer; Bibi, Amina	PHYSICA SCRIPTA	10.1088/1402-4896/ad9a0f
24	Does competitive position matter: Investigating the impact of information risk on COE and corporate investment	Saleem, Sana; Usman, Muhammad; Akhtar, Muhammad Naveed	PLOS ONE	10.1371/journal.pone.0322527

25	Numerical investigation on flow-induced vibrations of two staggered square cylinders using GPU-IB-LBM	Adeeb, Ehsan; Miran, Sajjad; Alam, Md. Mahub; Ha, Hojin	CHINESE JOURNAL OF PHYSICS	10.1016/j.cjph.2024.11.015
26	Metal-organic frameworks as heterogeneous catalysts for CO ₂ cycloaddition: A promising strategy for CO ₂ mitigation and utilization	Shafique, Amna; Saleem, Ramsha; Khan, Rana Rashad Mahmood; Saeed, Zohaib; Pervaiz, Muhammad; Liaqat, Maira; Hussain, Tousif; Summer, Muhammad; Sharif, Shahzad	MATERIALS TODAY CHEMISTRY	10.1016/j.mtchem.2024.102296
27	Computational study of effect of hybrid nanoparticles on hemodynamics and thermal transfer in ruptured arteries with pathological dilation	Hussain, Azad; Riaz, Muhammad Bilal; Dar, Muhammad Naveel Riaz; Kanwal, Rimsha; Sarwar, Lubna; Jhangeer, Adil	SCIENTIFIC REPORTS	10.1038/s41598-024-64356-2
28	Soliton solutions and sensitive analysis to nonlinear wave model arising in optics	Lu, Wenjie; Ahmad, Jamshad; Akram, Sonia; Aldwoah, Khaled A.	PHYSICA SCRIPTA	10.1088/1402-4896/ad5fcd
29	A novel radial base artificial intelligence structures with sequential quadratic programming for magnetohydrodynamic nanofluidic model with gold nanoparticles in a stenotic artery	Butt, Zeeshan Ikram; Ahmad, Iftikhar; Shoaib, Muhammad; Ilyas, Hira; Raja, Muhammad Asif Zahoor	ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	10.1016/j.engappai.2024.109122
30	Machine learning solutions with supervised adaptive neural networks for countermeasure competing strategy of computer virus models	Anwar, Nabeela; Naz, Saba; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	SIMULATION MODELLING PRACTICE AND THEORY	10.1016/j.simpat.2025.103141
31	Novel machine intelligent expedition with adaptive autoregressive exogenous neural structure for nonlinear multi-delay differential systems in computer virus propagation	Anwar, Nabeela; Saddiq, Aqsa; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	10.1016/j.engappai.2025.110234
32	Intelligent Bayesian Neural Networks for Stochastic SVIS Epidemic Dynamics: Vaccination Strategies and Prevalence Fractions with Wiener Process	Anwar, Nabeela; Shahzadi, Kiran; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	FLUCTUATION AND NOISE LETTERS	10.1142/S0219477525500208
33	Stochastic Milstein computing driven autoregressive exogenous neuro-architecture for chaotic nonlinear measles transmission system with impact of immunization	Anwar, Nabeela; Fatima, Ayesha; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	EUROPEAN PHYSICAL JOURNAL PLUS	10.1140/epjp/s13360-025-06247-7
34	Synergistic integration of sulfur-modified graphite felt electrode with NiFe LDH catalysts for enhanced OER efficiency	Li, Danni; Mushtaq, Muhammad Umair; Tang, Yingming; Li, Sa; Hou, Fubin; Ayub, Khurram Shahzad; Cao, Limei; Yang, Ji	RESEARCH ON CHEMICAL INTERMEDIATES	10.1007/s11164-025-05588-3
35	Synthetic vs. natural antimicrobial agents for safer textiles: a comparative review	Bibi, Aqsa; Afza, Gul; Afzal, Zoya; Farid, Mujahid; Sumrra, Sajjad Hussain; Hanif, Muhammad Asif; Jinadasa, Bedigama Kankanamge Kolita Kama; Zubair, Muhammad	RSC ADVANCES	10.1039/d4ra04519j

36	Dodonaea viscosa; AEnzyme Inhibitory Potential Towards Obesity/Diabetes Management and UHPLC-QTOF-MS/MS Based Metabolite Profiling	Akhter, Nadia Noreen; Mumtaz, Muhammad Waseem; Akhtar, Muhammad Tayyab	IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION	
37	Stochastic supervised neuro-architecture design for analyzing vector-borne plant virus epidemics with latency and incubation effects	Anwar, Nabeela; Ghaffar, Aqsa; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	EUROPEAN PHYSICAL JOURNAL PLUS	10.1140/epjp/s13360-024-05883-9
38	Generalized roughness of three dimensional $(\epsilon, \epsilon \vee q)$ fuzzy ideals in terms of set-valued homomorphism (vol 14, 12301, 2024)	Bashir, Shahida; Mazhar, Rabia; Kausar, Nasreen; Yaman, Saziye; Ali, Syed Suleman; Afzal, Muneeb Ul Hassan	SCIENTIFIC REPORTS	10.1038/s41598-024-75674-w
39	An Improved Seagull Algorithm for Numerical Optimization Problem	Bangyal, Waqas Haider; Shakir, Rabia; Rehman, Najeeb Ur; Ashraf, Adnan; Ahmad, Jamil	ADVANCES IN SWARM INTELLIGENCE, ICSI 2023, PT I	10.1007/978-3-031-36622-2_24
40	Intelligent Adaptive Networks for Chaos Analysis in Stochastic SIS Differential Epidemic Model with the Impact of Unpredictable Environmental Factors	Anwar, Nabeela; Shahzadi, Kiran; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoaib, Muhammad; Kiani, Adiq Kausar	FLUCTUATION AND NOISE LETTERS	10.1142/S0219477525500063
41	Predicting UV-Vis Spectra of Benzothio/Dithiophene Polymers for Photodetectors by Machine-Learning-Assisted Computational Studies	Hassan, Abrar U.; Aljaafreh, Mamduh J.	COATINGS	10.3390/coatings15050558
42	A reverse engineering descriptor tokenization machine learning analysis to design new triphenylamine chromophores with tunable absorption/ emission	Aljaafreh, Mamduh J.; Sumrra, Sajjad H.; Noreen, Sadaf	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.112632
43	Dynamical analysis of hepatitis B virus through the stochastic and the deterministic model	Anwar, Nabeela; Ahmad, Iftikhar; Javaid, Hijab; Kiani, Adiq Kausar; Shoaib, Muhammad; Raja, Muhammad Asif Zahoor	COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING	10.1080/10255842.2025.2470798
44	An In-Depth Review on Recent Progress in Synthetic Approaches and Biological Activities of Thiazol-2(3H)-Imine Derivatives	Saleem, Arslan; Shabir, Ghulam; Rafique, Hummera; Saeed, Aamer	CHEMISTRYSELECT	10.1002/slct.202400630
45	Incorporation of Small Molecules with Polar Functional Group to Elevate Crystallinity and Suppress Nonradiative Recombination in Perovskite Solar Cells	Ali, Atif; Tian, Ruijia; Wang, Yaohua; Li, Jun; Meng, Yuanyuan; Cao, Ruikun; Yang, Bai; Liu, Chang; Ge, Ziyi	SOLAR RRL	10.1002/solr.202400365
46	Synergistic Effects and Characterization of CoMn2O4/Graphene in DSSC Counter Electrodes	Khan, Muhammad Shahid; Haider, Farasat; Majeed, Adnan; Musharaf, Muhammad; Ahmed, Naeem; Majid, Abdul; Javed, Khalid; Ahmed, Mashkoor	JOURNAL OF ELECTRONIC MATERIALS	10.1007/s11664-024-11388-z

47	A deep learning framework for the early detection of multi-retinal diseases	Ejaz, Sara; Baig, Raheel; Ashraf, Zeeshan; Alnfiai, Mrim M.; Alnahari, Mona Mohammed; Alotaibi, Reemiah Muneer	PLOS ONE	10.1371/journal.pone.0307317
48	Impact of Alkaescent Nucleoside Antibiotic Loaded ZnONPs, on Enzymes, Hormones, Fatty Acids, and Metabolites in Rice Plant	Ahsan, Taswar; Li, Bingxue; Khalil, Adnan; Zafar, Tehseen; Razzaq, Maqsood	IRANIAN JOURNAL OF SCIENCE	10.1007/s40995-024-01743-4
49	An Improved Fire Hawks Optimizer for Function Optimization	Ashraf, Adnan; Anwaar, Aliza; Bangyal, Waqas Haider; Shakir, Rabia; Rehman, Najeeb Ur; Zhao Qingjie	ADVANCES IN SWARM INTELLIGENCE, ICSI 2023, PT I	10.1007/978-3-031-36622-2_6
50	Machine Learning-Assisted Design of Ytterbium-Based Materials with Tunable Bandgaps and Enhanced Stability	Sumrra, Sajjad H.; Aljaafreh, Mamduh J.; Noreen, Sadaf; Hassan, Abrar U.	BRAZILIAN JOURNAL OF PHYSICS	10.1007/s13538-025-01732-x
51	A Lightweight Approach for Skin Lesion Detection through Optimal Features Fusion (vol 70, pg 1617,2022)	Manzoor, Khadija; Majeed, Fiaz; Siddique, Ansar; Meraj, Talha; Rauf, Hafiz Tayyab; El-Meligy, Mohammed A.; Sharaf, Mohamed; Elgawad, Abd Elatty E. Abd	CMC-COMPUTERS MATERIALS & CONTINUA	10.32604/cmc.2024.061588
52	Prospects of ruthenate-based electrodes in metal-ion batteries	Majid, Abdul; Khadim, Bazgha; Alkhedher, Mohammad; Bulut, Niyazi	SUSTAINABLE ENERGY & FUELS	10.1039/d4se00783b
53	Experimental and Theoretical Studies on a New Urea Clathrate Crystal: X-ray Diffraction, Hirshfeld Surface Analysis, RDG - NCI, FMOs, and NBO Analysis	Zafar, Wardha; Noreen, Sadaf; Elnaggar, Ashraf Y.; Mahmoud, Mohamed H. H.; El Azab, Islam H.	BRAZILIAN JOURNAL OF PHYSICS	10.1007/s13538-025-01753-6
54	Computational study of novel 2H chromium ditelluride as an anode material for Li/K-ion batteries	Khan, Muhammad Isa; Mehmood, Iqra; Alarfaji, Saleh S.; Junaid, Muhammad; Iqbal, Tahir	RSC ADVANCES	10.1039/d4ra06789d
55	Study of bifurcations, chaotic structures with sensitivity analysis and novel soliton solutions of non-linear dynamical model	Alqahtani, Awatif Muflih; Akram, Sonia; Alosaimi, Moataz	JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE	10.1080/16583655.2024.2399870
56	A DFT and Molecular Correlational Analysis on Newly Designed Silicon-Carbide Quantum Dots with Extended Acceptors for their Photovoltaic Performance	Noreen, Sadaf; Sumrra, Sajjad H.; Hassan, Abrar U.; Afzaal, Maria; Elnaggar, Ashraf Y.; El Azab, Islam H.; Mahmoud, Mohamed H. H.	SILICON	10.1007/s12633-025-03313-8
57	Optimizing the capacitive and photocatalytic properties of bi-functional nickel-doped MoO ₃ for supercapacitor and wastewater purification applications	Khalid, N. R.; Shahid, M. Shabbir; Ali, Faisal; Nabi, Ghulam; Ahmed, Hammad; Rafique, M.; Assiri, Mohammed A.	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2025.130380
58	Performance evaluation of green synthesized graphene nanoplatelets / multiwall carbon nanotubes hybrid nanofluids for the retardation of mineral fouling and its environmental benefits (vol 238, 120243, 2025)	Shaikh, Kaleemullah; Kazi, Salim Newaz; Zubir, Mohd Nashrul Bin Mohd; Khan, Wajahat Ahmed; Nawaz, Rab; UI Hasnain, Samr; Borhanudin, Abdul Rahman	CARBON	10.1016/j.carbon.2025.120332

59	Exploring heterocyclic scaffolds in carbonic anhydrase inhibition: a decade of structural and therapeutic insights	Naeem, Nafeesa; Sadiq, Amina; Othman, Gehan Ahmed; Yassin, Habab M.; Mughal, Ehsan Ullah	RSC ADVANCES	10.1039/d4ra06290f
60	Tuning the Electrochemical Performance of CuO Nanoparticles via Hydrothermal Synthesis	Sonadia; Shah, Abdul Hakim; Perveen, Saima; Ayub, Khurram Shehzad; Ul-Hamid, Anwar; Azad, Fahad	JOM	10.1007/s11837-024-07073-5
61	Structural and bandgap tuning of self-supported Zn-NiS thin nano-sheets as efficient supercapacitor electrode material	Seemab, Mariam; Nabi, Ghulam; Alfuraydi, Akram A.; Hammad, Ali	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2025.130447
62	Performance evaluation of green synthesized graphene nanoplatelets / multiwall carbon nanotubes hybrid nanofluids for the retardation of mineral fouling and its environmental benefits	Shaikh, Kaleemullah; Kazi, Salim Newaz; Zubir, Mohd Nashrul Bin Mohd; Khan, Wajahat Ahmed; Nawaz, Rab; UI Hasnain, Samr; Borhanudin, Abdul Rahman	CARBON	10.1016/j.carbon.2025.120243
63	Nano-eco catalysis: carbendazim degradation by engineered BiVO4 nanoparticles	Zeshan, Muhammad; Bahader, Ali; Muhammad, Taj; Sandhu, Zeshan Ali; Raza, Muhammad Asam; Khan, Noor Mohammad; Al-Sehemi, Abdullah G.	PHYSICA SCRIPTA	10.1088/1402-4896/ad6e38
64	Enhancing MB dye degradation and apple shelf life with Mn-doped ZnO nanoparticles: experimental and COMSOL simulation	Afzal, Maria; Ashfaq, Zain; Iqbal, Tahir; Afsheen, Sumera; Younas, Ayesha; Farooq, Muhammad; Yousaf, Muhammad; Almeer, Rafa; Warad, Ismail	EUROPEAN PHYSICAL JOURNAL PLUS	10.1140/epjp/s13360-024-05844-2
65	Synergistic interplay of 1D bimetal Co-Ni-MOF@rGO for hybrid energy storage device	Saeed, Maham; Sharif, Shahzad; Razia, Eesha Tur; Shahzad, Ayesha; Raza, Muhammad Arshad; Arshad, Beenash; Afaq, Qarar; Mumtaz, Muhammad Waseem; Sahin, Onur; John, Peter	DIAMOND AND RELATED MATERIALS	10.1016/j.diamond.2025.112496
66	Synergistic photocatalysis and superior supercapacitor performance of cerium-enriched monodispersed nanoarchitectures: Dual excellence	Danish, Muhammad; Sandhu, Zeshan Ali; Shoab, Aaqiba; Raza, Muhammad Asam; Imtiaz, Kainat; Al-Sehemi, Abdullah G.	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2024.129748
67	Design of Ricker Wavelet Neural Networks for Heat and Mass Transport in Magneto-hydrodynamic Williamson Nanofluid Boundary-Layer Porous Medium Flow with Multiple Slips	Butt, Zeeshan Ikram; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Shoab, Muhammad; Kumar, Rajesh; Hussain, Syed Ibrar	MAGNETOCHEMISTRY	10.3390/magnetochemistry11050040
68	Synergistic effects of selenium nanoparticles and LED light on enhancement of secondary metabolites in sandalwood (Santalum album) plants through in-vitro callus culturing technique	Mazhar, Muhammad Waqas; Ishtiaq, Muhammad; Maqbool, Mehwish; Jafri, Faisal Iqbal; Siddiqui, Manzer H.; Alamri, Saud; Akhtar, Mohd Sayeed	PEERJ	10.7717/peerj.18106

69	Redefining fan manufacturing: Unveiling industry 5.0's human-centric evolution and digital twin revolution	Yang, Taoer; Razzaq, Luqman; Fayaz, H.; Qazi, Atika	HELIYON	10.1016/j.heliyon.2024.e33551
70	Probing azobenzene-like boron nitride triazoles for their photoswitching attributes through long range push-pull effects: a DFT study	Noreen, Sadaf; Sumrra, Sajjad H.; Mohyuddin, Ayesha; Hassan, Abrar U.; El Azab, Islam H.; Mahmoud, Mohamed H. H.	CHEMICAL PAPERS	10.1007/s11696-025-04079-4
71	Newly synthesized sulfonamide derivatives explored for DNA binding, enzyme inhibitory, and cytotoxicity activities: a mixed computational and experimental analyses	Arshad, Nasima; Mehmood, Yasir; Ismail, Hammad; Perveen, Fouzia; Javed, Aneela; Channar, Pervaiz Ali; Saeed, Aamer; Naseem, Sadia; Naseer, Fatima	RSC ADVANCES	10.1039/d4ra06412g
72	On tricyclic graphs with maximum atom-bond sum-connectivity index	Noureen, Sadia; Batool, Rimsha; Albalahi, Abeer M.; Shang, Yilun; Alraqad, Tariq; Ali, Akbar	HELIYON	10.1016/j.heliyon.2024.e33841
73	Framework for detecting phishing crimes on Twitter using selective features and machine learning	Rashid, Hina; Bin Liaqat, Hannan; Sana, Muhammad Usman; Kiren, Tayybah; Karamti, Hanen; Ashraf, Imran	COMPUTERS & ELECTRICAL ENGINEERING	10.1016/j.compeleceng.2025.110363
74	Analyzing topological descriptors of guar gum and its derivatives for predicting physical properties in carbohydrates	Zhang, Xiujun; Yousaf, Shamaila; Naeem, Anisa; Tawfiq, Ferdous M.; Aslam, Adnan	CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS	10.1016/j.chemolab.2024.105203
75	Impact of Nutrients and Catholyte Buffer on Bioelectricity Generation in Microbial Fuel Cell Treating Municipal Wastewater	Farwa, Umme; Mumtaz, Muhammad Waseem; Miran, Waheed; Mukhtar, Hamid; Raza, Muhammad Asam; Munawar, Romila	IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION	
76	RETRACTION: In situ fabrication of lanthanum-doped nickel oxide nanostructures using sol-gel for the degradation of rhodamine B	Ali, Furqan; Nazir, Asma; Sandhu, Zeshan Ali; Mehmood, Arslan; Raza, Muhammad Asam; Hamayun, Muhammad; Al-Sehemi, Abdullah G.	RSC ADVANCES	10.1039/d5ra90016f
77	Promising hydrogen storage performance of alkali metal (Li, Na, K) decorated arsenene: A DFT study	Nabi, Ghulam; Razzaq, Zubia; Shakil, Muhammad; Rehman, Abdul; Nadeem, Ahmed; Ahmad, Khuram Shahzad; Maraj, Mudassar	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	10.1016/j.mseb.2024.117742
78	Regional characterization of meteorological and agricultural drought in Baluchistan province, Pakistan	Rafiq, Muhammad; Li, Yue Cong; Rahman, Ghani; Sohail, Khawar; Khan, Kamil; Zahoor, Aun; Gujjar, Farrukh; Kwon, Hyun-Han	PLOS ONE	10.1371/journal.pone.0307147
79	Algorithmic and mathematical modeling for synthetically controlled overlapping	Mahmood, Zafar; Safran, MejdI; Abdussamad, Sultan; Alfarhood, Sultan; Ashraf, Imran	SCIENTIFIC REPORTS	10.1038/s41598-025-87992-8

80	A review on fundamentals for designing hydrogen evolution electrocatalyst	Qadeer, Muhammad Abdul; Zhang, Xiaoxue; Farid, Muhammad Asim; Tanveer, M.; Yan, Yichang; Du, Shangfeng; Huang, Zhen-Feng; Tahir, Muhammad; Zou, Ji-Jun	JOURNAL OF POWER SOURCES	10.1016/j.jpowsour.2024.234856
81	An inherently interpretable deep learning model for local explanations using visual concepts	Ullah, Mirza Ahsan; Zia, Tehseen; Kim, Jungeun; Kadry, Seifedine	PLOS ONE	10.1371/journal.pone.0311879
82	Photocatalytic detoxification of lemon yellow food additive by Novel AC@ZnO/CuO/WO ₃ quaternary composites via Citrus sinensis and solid-state-reaction method	Rizvi, Hassan Imam; Mushtaq, Ayesha; Iqbal, Tahir; Afsheen, Sumera; Ashfaq, Zain; Al-Zaqri, Nabil; Warad, Ismail	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2025.179915
83	Localized environmental variability within the Hindukush-Himalayan region of Pakistan	Haq, Fazlul; Afreen, Munazza; Mark, Bryan G.; Rahman, Ghani; Shum, C. K.; Shutkin, Tal Y.; Tjoelker, Adam R.	ENVIRONMENTAL EARTH SCIENCES	10.1007/s12665-025-12112-8
84	Improving maize yield and drought tolerance in field conditions through activated biochar application	Naeem, Muhammad Bilal; Jahan, Summera; Rashid, Audil; Shah, Anis Ali; Raja, Vaseem; El-Sheikh, Mohamed A.	SCIENTIFIC REPORTS	10.1038/s41598-024-76082-w
85	Synthesis of heterojunction BiVO ₄ /MnO ₂ graphene ternary nanocomposites with enhanced photocatalytic activities through degradation of rhodamine B and tetracycline hydrochloride	Liaqat, Maira; Khalid, N. R.; Iqbal, Tahir; Maryam, Iqra; Tanveer, Muhammad; Hussain, Muhammad Khalid; Pham, Phuong, V; Ali, Atif Mossad; Sayed, M. A.	CHINESE JOURNAL OF PHYSICS	10.1016/j.cjph.2024.07.027
86	A rapid UV/Vis assisted designing of benzodithiophene based polymers by machine learning to predict their light absorption for photovoltaics	Hassan, Abrar U.; Guleryuz, Cihat; Sumrra, Sajjad H.; Noreen, Sadaf; Mahmoud, Mohamed H. H.	ORGANIC ELECTRONICS	10.1016/j.orgel.2025.107227
87	Topological descriptors and connectivity analysis of coronene fractal structures: insights from atom-bond sum-connectivity and Sombor indices	Zhang, Xiujun; Aftab, Sahar; Noureen, Sadia; Aslam, Adnan; Ibrahim, Sobhy M.	ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES	10.1515/zna-2024-0286
88	Exploring expected values of topological indices of random cyclodecane chains for chemical insights	Bai Chunsong; Naeem, Anisa; Yousaf, Shamaila; Aslam, Adnan; Tchier, Fairouz; Issa, Abudulai	SCIENTIFIC REPORTS	10.1038/s41598-024-60484-x
89	Computation of expected values of some connectivity based topological descriptors of random cyclooctane chains	Yousaf, Shamaila; Iqbal, Zaffar; Tariq, Saira; Aslam, Adnan; Tchier, Fairouz; Issa, Abudulai	SCIENTIFIC REPORTS	10.1038/s41598-024-57175-y
90	Cobalt doped MoS ₂ : A photoactivated nanomaterial for removal of methylene blue and phenol	Iqbal, Tahir; Basit, Abdul; Elgorban, Abdallah M.; AL-Shwaiman, Hind A.; Farooq, Muhammad; Yousaf, Muhammad; Afsheen, Sumera; Mushtaq, Ayesha; Munir, Rana Mustansar	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	10.1016/j.jpics.2024.112422

91	Targeting pharmaceutical phenol; a thorough analysis of manganese doped molybdenum disulfide (MoS ₂) catalyst, augmented by MB dye assessment	Basit, Abdul; Iqbal, Tahir; Jamil, Muhammad Abdullah; Afsheen, Sumera; Mansha, Muhammad Salim; Munir, Rana Mustansar; Al-Zaqri, Nabil; AlObaid, Abeer A.; El-marghany, Adel	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	10.1016/j.jpccs.2024.112259
92	Predicting enthalpy of formation of benzenoid hydrocarbons and ordering molecular trees using general multiplicative Zagreb indices	Noureen, Sadia; Ali, Akbar; Alanazi, Abdulaziz M.; Shang, Yilun	HELIYON	10.1016/j.heliyon.2024.e30913
93	Towards an effective model for lung disease classification Using Dense Capsule Nets for early classification of lung diseases (vol 124, 109077, 2022)	Karim, Faizan; Shah, Munam Ali; Khattak, Hasan Ali; Ameer, Zoobia; Shoaib, Umar; Rauf, Hafiz Tayyab; Al-Turjman, Fadi	APPLIED SOFT COMPUTING	10.1016/j.asoc.2024.112591
94	First principles investigations on structural, electronic, optical, and thermodynamical properties of bulk and surfaces of In ₂ CO	Batool, Hira; Majid, Abdul; Manan, Abdul; Ahmed, Naeem; Haider, Sajjad; Alam, Kamran	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	10.1016/j.mssp.2024.109092
95	Influence of Majorana bound states on conductance characteristics in a T-shaped quantum dot molecule	He, Zelong; Aslam, Muhammad; Naeimi, Seyede Zahra; Shahid, M.; Nikiforov, Sergey; Hussain, Muhammad Khalid; Dautbekova, Alma; Ahmad, Hussain; Rehman, Anees Ur; Kashchenko, Nadezhda	CHINESE JOURNAL OF PHYSICS	10.1016/j.cjph.2025.03.042
96	Alkoxy-modified terpyridine complexes as efficient photocatalysts for diclofenac potassium degradation in pharmaceutical wastewater	Mughal, Ehsan Ullah; Naeem, Nafeesa; Zainab, Farwa; Javaid, Ayesha; Imran, Muhammad; Pandey, Sujeet Kumar; Sadiq, Amina; Jabeen, Ayza; Ogaly, Hanan A.; Al-Zahrani, Fatimah A. M.; Alzahrani, Abdullah Yahya Abdullah	RSC ADVANCES	10.1039/d5ra01117e
97	Mathematical analysis of isothermal study of reverse roll coating using Micropolar fluid	Ul Zaman, Saquib; Hussain, Azad; Ashraf, Kaleem; Sarwar, Lubna; Hussain, Faizan; Altalbe, Ali; Bekir, Ahmet; Muhammad, Taseer	SCIENTIFIC REPORTS	10.1038/s41598-024-70808-6
98	A machine learning and data-oriented quest to screen the degree of long-range order/disorder in polymeric materials	Guleryuz, Cihat; Sumrra, Sajjad H.; Hassan, Abrar U.; Mohyuddin, Ayesha; Mahmoud, Mohamed. H. H.	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.111624
99	A fast and efficient machine learning assisted prediction of urea and its derivatives to screen crystal propensity with experimental validation	Guleryuz, Cihat; Sumrra, Sajjad H.; Hassan, Abrar U.; Mohyuddin, Ayesha; Noreen, Sadaf; Elnaggar, Ashraf Y.	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2025.111692
100	A maghemite (γ -Fe ₂ O ₃) incorporated activated carbon photocatalytic nanocomposite fabricated via Co-precipitation utilized against degradation of methyl orange	Faheem, Mohammad; Iqbal, Tahir; Afsheen, Sumera; Basit, Abdul; Munir, Rana Mustansar; Khan, Muhammad Isa; Elgorban, Abdallah M.; Al-Shwaiman, Hind A.; Rizvi, Hassan Imam	OPTICAL MATERIALS	10.1016/j.optmat.2024.116131

101	A machine learning analysis to predict the stability driven structural correlations of selenium-based compounds as surface enhanced materials	Gueleryuez, Cihat; Sumrra, Sajjad H.; Hassan, Abrar U.; Mohyuddin, Ayesha; Elnaggar, Ashraf Y.; Noreen, Sadaf	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2025.130786
102	Investigation of sustainable Ag-WO ₃ nanoparticles for environmental & photocatalytic remediation against methyl orange and its antimicrobial efficiency	Iqbal, Tahir; Bilal, Hamza; Afsheen, Sumera; Rizvi, Hassan Imam; Kausar, Sabah; Munir, Rana Mustansar; El-Serehy, Hamed A.; Al-Maswari, Basheer M.	MATERIALS TODAY COMMUNICATIONS	10.1016/j.mtcomm.2024.111250
103	Li-decorated 2D Aluminium Phosphide monolayer for hydrogen storage capacity: Insights from DFT computations	Rehman, Abdul; Razaaq, Zubia; Tanveer, M.; Masood, M. Kashif; Bano, N.; Shakil, M.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	10.1016/j.jpcs.2024.112497
104	Entropy Generation in Reiner-Rivlin Fluid Flow Under Soret and Dufour Impact: Neural Networks Applications	Shoaib, Muhammad; Naz, Shafaq; Raja, Muhammad Asif Zahoor; Khanam, Rabia; Ahmad, Iftikhar; Nisar, Kottakkaran Sooppy	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS	10.1007/s10773-025-06023-4
105	Synthesis of novel 3-bromosulfanilamide acyl thiourea derivatives: a study on urease inhibition and their molecular docking	Um-e-Farwa, Atteeque; Ahmed, Atteeque; Saeed, Aamer; Shafique, Imran; Saleem, Muhammad; Hussain, Jabir; Mumtaz, Amara; Rafique, Hummera	JOURNAL OF THE IRANIAN CHEMICAL SOCIETY	10.1007/s13738-024-03076-w
106	Salinity stress mitigation in wheat through synergistic application of ascorbic acid, nanoparticles and <i>Salvadora oleoides</i> extract	Pirzada, Ayesha Mumtaz; Anwar, Tauseef; Qureshi, Waseem Akhtar; Qureshi, Huma; Siddiqi, Ejaz Hussain; Zaman, Wajid; Soufan, Walid	SCIENTIFIC REPORTS	10.1038/s41598-024-76194-3
107	Elucidating bis-pyrimidines as new and efficient mushroom tyrosinase inhibitors: synthesis, SAR, kinetics and computational studies	Afzal, Manazza; Mehmood, Rabia; Mughal, Ehsan Ullah; Naeem, Nafeesa; Ashraf, Zaman; Nazir, Yasir; Shalaby, Fatma Mohsen; El Hady, Amal El-Sayed Abd; Sadiq, Amina	RSC ADVANCES	10.1039/d4ra04652h
108	Hybrid confinement of Pt-Ni-Co spherical core-shells in multibranching nano-dendrites interspersed on N-doped aerogels for enhanced ORR performance and durability	Mushtaq, Muhammad Umair; Li, Danni; Shao, Xiang; Ayub, Khurram Shahzad; Shan, Ali; Cao, Limei; Yang, Ji	JOURNAL OF ALLOYS AND COMPOUNDS	10.1016/j.jallcom.2024.177307
109	Novel pyrimidine linked acyl thiourea derivatives as potent α -amylase and proteinase K inhibitors: design, synthesis, molecular docking and ADME studies (vol 14, pg 33235, 2024)	Zaman, Hina; Saeed, Aamer; Ismail, Hammad; Anwaar, Sadaf; Latif, Muhammad; Hashmi, Muhammad Zaffar; El-Seedi, Hesham R.	RSC ADVANCES	10.1039/d5ra90008e
110	Elevation-dependent snow cover dynamics and associated topo-climate impacts in upper Indus River basin	Moazzam, Muhammad Farhan Ul; Banerjee, Abhishek; Rahman, Ghani; Lee, Byung Gul	PHYSICS AND CHEMISTRY OF THE EARTH	10.1016/j.pce.2024.103786

111	Deciphering structural and electronic basis of silicon carbide quantum dots for photovoltaic performance: A DFT and molecular correlational analysis	Noreen, Sadaf; Sumrra, Sajjad H.; Kyhoiesh, Hussein A. K.; Hassan, Abrar U.; Elnaggar, Ashraf Y.; El Azab, Islam H.; Mahmoud, Mohamed H. H.	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	10.1016/j.jmgm.2025.109040
112	Green Revolution of Lithium-Ion Batteries: Prospects, Challenges and Environmental Impact	Sandhu, Zeshan Ali; Iqbal, Bushra; Raza, Muhammad Asam; Ashraf, Sufyan; Farwa, Umme; Ashraf, Adnan; Arishi, Ali; Rasheed, Tahir	CHEMISTRY-AN ASIAN JOURNAL	10.1002/asia.202500299
113	Topological analysis and predictive modeling of amino acid structures with implications for bioinformatics and structural biology	Li, Huili; Naeem, Anisa; Yousaf, Shamaila; Aslam, Adnan; Tchier, Fairouz; Tola, Keneni Abera	SCIENTIFIC REPORTS	10.1038/s41598-024-83697-6
114	Phosphidation of Cu ²⁺ Ions Loaded HKUST-1 to Derive Cu ₃ P/C Nanomaterials for Electrocatalytic Carbon Dioxide Reduction	Gul, Shayan; Iqbal, Waheed; Hussain, Altaf; Zafar, Muhammad Nadeem; Xu, Guobao; Nadeem, Muhammad Arif	ACS APPLIED ENERGY MATERIALS	10.1021/acsaem.4c01934
115	Recent advances and perspectives on iron-based photocatalysts	Arif, Nayab; Zafar, Muhammad Nadeem; Batool, Maria; Humayun, Muhammad; Iqbal, Muhammad Ahsan; Younis, Muhammad; Li, Luyan; Li, Kui; Zeng, Yu-Jia	JOURNAL OF MATERIALS CHEMISTRY C	10.1039/d4tc01062k
116	Direct Band Gap Semiconductor Zn _{1-x} Bex Oxide Maquettes as Magnetic-Field-Induced Harmonics: A Comprehensive Design Benchmarking	Ul Hassan, Abrar; Sumrra, Sajjad Hussain; Khan, Muhammad Usman; Ahamad, Tansir	CHEMISTRYSELECT	10.1002/slct.202400163
117	Intelligent Optimization Analysis of the Cholera Epidemic Model	Awadalla, Muath; Cheema, Tahir Nawaz; Raza, Ali; Rocha, Eugenio; Ali, Sharafat; Bilal, Muhammad	DISCRETE DYNAMICS IN NATURE AND SOCIETY	10.1155/ddns/9677485
118	Novel pyrimidine linked acyl thiourea derivatives as potent α -amylase and proteinase K inhibitors: design, synthesis, molecular docking and ADME studies	Zaman, Hina; Saeed, Aamer; Ismail, Hammad; Anwaar, Sadaf; Latif, Muhammad; Hashmi, Muhammad Zaffar; El-Seedi, Hesham R.	RSC ADVANCES	10.1039/d4ra05799f
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121	Formulation of Microemulsion-Based Gels for Enhanced Topical Administration of Nonsteroidal Anti-Inflammatory Drugs	Siddique, Muhammad Yasir; Ashraf, Ahmad Raza; Khan, Salah Uddin; Saleem, Muhammad Atif; Ashfaq, Muhammad; Alam, Kamran; Ibrahim, Ahmed Ahmed; Nazar, Muhammad Faizan	LANGMUIR	10.1021/acs.langmuir.4c03749
122	Optimization of iron nanoparticle size through green synthesis using leaf extract from selective members of citrus family	Sajid, Samavia; Sultan, Aeysha; Rashid, Ashi; Mehmood, Tahir; Acevedo, Roberto; Zahra, Maryam; Nisar, Bushra; Sandhu, Zeshan Ali; Sajjad, Noreen	JOURNAL OF THE INDIAN CHEMICAL SOCIETY	10.1016/j.jics.2024.101297
123	Structure-based optimization and enhancement of electrochemical and photocatalytic efficacy of dual-purpose Ce-Mo co-doped NiO nanowires	Ahmed, Rizwan; Ali, Faisal; Ali, Wajid; Ahmed, Hammad; Ahmad, Khuram Shahzad; Nabi, Ghulam; Usmani, Yusuf Siraj	JOURNAL OF MATERIALS SCIENCE	10.1007/s10853-024-10567-x
124	Innovative Pivaloyl Fixed 1,3-Thiazole-2-imines as Multitarget Inhibitors: Synthesis, Enzyme Inhibition, Molecular Docking and Structure Activity Relationship (SAR) Studies	Ahmed, Atteeque; Manan, Abdul; Saeed, Aamer; Ismail, Hammad; Babar, Anees; Shabir, Ghulam; Farag, Basant; El-Seedi, Hesham R.	CHEMISTRYSELECT	10.1002/slct.202501366
125	Unveiling the impact of organically activated biochar on physiological, biochemical, and yield attributes of maize under varied field moisture conditions	Iqbal, Hajra; Jahan, Summera; Akbar, Muhammad; Kamran, Atif; Rasul, Fahd; Shahzad, Sobia; Siddiqui, Manzer H.; Alamri, Saud	PEERJ	10.7717/peerj.17883
126	Multi population-based chaotic differential evolution for multi-modal and multi-objective optimization problems(vol 132, 109909, 2023)	Rauf, Hafiz Tayyab; Gao, Jiechao; Almadhor, Ahmad; Haider, Ali; Zhang, Yu-Dong; Al-Turjman, Fadi	APPLIED SOFT COMPUTING	10.1016/j.asoc.2024.112592
127	Machine learning assisted designing of polymers and refractive index prediction: Easy and fast screening of polymers from chemical space	Najeeb, Jawayria; Shah, Syed Shoaib Ahmad; Tahir, Mudassir Hussain; Hanafy, Ahmed I.; El-Bahy, Salah M.; El-Bahy, Zeinhom M.	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2024.129685
128	Radial basis kernel harmony in neural networks for the analysis of MHD Williamson nanofluid flow with thermal radiation and chemical reaction: An evolutionary approach	Butt, Zeeshan Ikram; Raja, Muhammad Asif Zahoor; Ahmad, Iftikhar; Hussain, Syed Ibrar; Shoaib, Muhammad; Ilyas, Hira	ALEXANDRIA ENGINEERING JOURNAL	10.1016/j.aej.2024.06.021
129	Effects of transfer of heat in magnetic hydrodynamics pseudoplastic nanofluid flow past over a vertical slender cylinder	Hussain, Azad; Hussain, Faizan; Dar, Muhammad Naveel Riaz; Riaz, Muhammad Bilal; Ghith, Ehab Seif; Telija, Mehdi	ALEXANDRIA ENGINEERING JOURNAL	10.1016/j.aej.2024.12.024
130	Computational Intelligence of Numerical Dynamics of Nanofluidic Model	Cheema, Tahir Nawaz; Raza, Ali; Elwahab, Maysaa Elmahi Abd; Shabbir, Ayesha; Ali, Sharafat; Fadhal, Emad	DISCRETE DYNAMICS IN NATURE AND SOCIETY	10.1155/ddns/3107171

131	Exploring the synergistic benefits of biochar and gibberellic acid in alleviating cadmium toxicity	Anwar, Tauseef; Qureshi, Huma; Jabeen, Mah; Siddiqi, Ejaz Hussain; Zaman, Wajid; Alharbi, Sulaiman Ali; Ansari, Mohammad Javed	SCIENTIFIC REPORTS	10.1038/s41598-024-73678-0
132	Mo-ions doping impact on structural modifications and electrochemical performance of Mo-Co(OH) ₂ dandelion nanostructures	Qurat-ul-Aain; Nabi, Ghulam; Hammad, Ali; Ali, Wajid; Nadeem, Ahmed; Ahmad, Khuram Shahzad; Ahmed, Hammad	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	10.1016/j.mseb.2025.118309
133	Design of stochastic computational Levenberg Marquardt backpropagation-based technique to investigate temperature distribution of longitudinal moving porous fin	Ahmad, Iftikhar; Raja, Muhammad Asif Zahoor; Hussain, Syed Ibrar; Ilyas, Hira; Mohayyuddin, Zalfa	SCIENTIFIC REPORTS	10.1038/s41598-024-67959-x
134	Molecular Dynamic Simulations of Dual Inhibitors for AChE and BChE; Theoretical and Experimental Approaches	Raza, Muhammad Asam; Arif, Maimoona; Farwa, Umme; Sandhu, Zeshan Ali; Ashraf, Adnan; Bahyoune, Nouhaila; Nashre-ul-Islam, Swah Mohd; Almutairi, Tahani Mazyad; Bouissane, Latifa	JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY	10.1142/S273741652450025X
135	To study the impact of La and Mo coexistence in pure Nb ₂ O ₅ nanostructure for the improvement of photocatalytic hydrogen production and verification by theoretical analysis	Tanveer, Muhammad; Yasmeen, Safeera; Ali, Ahmad Ruhan; Qadeer, M. A.; Nabi, Ghulam; Tahir, Muhammad; Cheema, Husnain Haider; Alshahrani, Thamraa; Asiri, Mohammed	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2025.130497
136	Foliar application of silver (Ag-NPs) and copper (Cu-NPs) nanoparticles enhances phenotypic traits and oil quality in Brassica napus L	Rameen, Sidra; Manaf, Abdul; Bibi, Yamin; Jhanzab, Hafiz Muhammad; Sher, Ahmad; Ali, Naushad; Hussain, Mubashar; Alfagham, Alanoud T.; Alamri, Saud; Zeng, Yawen; Qayyum, Abdul	SCIENTIFIC REPORTS	10.1038/s41598-024-79269-3
137	Revolutionizing environmental cleanup: the evolution of MOFs as catalysts for pollution remediation	Farwa, Umme; Sandhu, Zeshan Ali; Kiran, Azwa; Raza, Muhammad Asam; Ashraf, Sufyan; Gulzarab, Hamza; Fiaz, Muhammad; Malik, Adnan; Al-Sehemi, Abdullah G.	RSC ADVANCES	10.1039/d4ra05642f
138	Mitigating Cadmium Toxicity in Maize Through Silicon Nanoparticles: Effects on Growth, Antioxidant Activity and Metal Accumulation	Anwar, Tauseef; Qureshi, Huma; Kabir, Tooba; Ahmad, Zahoor; Siddiqi, Ejaz Hussain; Ullah, Naimat; Naseem, Muhammad Tahir; Al Farraj, Dunia A.; Al-Ghamdi, Abdullah Ahmed	SILICON	10.1007/s12633-025-03317-4
139	Optimization of biodiesel yield from waste cooking oil and sesame oil using RSM and ANN techniques	Bajwa, Waqar; Ikram, Adeel; Malik, Muhammad Ali Ijaz; Razzaq, Luqman; Khan, Ahmed Raza; Latif, Afsah; Hussain, Fayaz; Qazi, Atika	HELIYON	10.1016/j.heliyon.2024.e34804

140	Facile solvothermal approach to design synergetic effect between the BiVO ₄ and TiS ₂ to boost up the Z-scheme photocatalytic performance for water treatment and hydrogen production	Qadeer, M. A.; Cheema, Husnain Haider; Tanveer, Muhammad; Ali, Ahmad Ruhan; Hussain, Najam; Tahir, Muhammad; Al-Buriahi, M. S.; Ayari-akkari, Amel	OPTICAL MATERIALS	10.1016/j.optmat.2024.116346
141	Organic amendments optimize Triticum aestivum var Zincol-16 performance under water stress through enhancement in physio biochemical traits, secondary metabolites and yield	Amir, Raquia; Jahan, Summera; Zafar, Muddassar; Naeem, Muhammad Bilal; Usman, Sheeraz; Shah, Anis Ali; Nazim, Muhammad; Alsahli, Abdulaziz Abdullah	SCIENTIFIC REPORTS	10.1038/s41598-025-99506-7
142	Vertical tellurium nano-tower arrays: Topological shape engineering to excellent field emission and optical performance	Shahzad, Faisal; Qamar, Anisa; Nadeem, Ahmed; Ahmad, Khuram Shahzad; Ali, Wajid; Muzaffar, Soha; Nabi, Ghulam	OPTICAL MATERIALS	10.1016/j.optmat.2024.115886
143	Consequences of higher order chemical reaction on bioconvective carbon nanotubes flow implementing Buongiorno's model	Hussain, Azad; Raiz, Saira; Hassan, Ali; Elhag, S. H.; Alam, Mohammad Mahtab; Hassan, Ahmed M.; Zardi, Hedia	KUWAIT JOURNAL OF SCIENCE	10.1016/j.kjs.2024.100248
144	Synthesis and Characterization of WO ₃ /BiVO ₄ /Graphene 3 /BiVO ₄ /Graphene Ternary Nanocomposites for the Photodegradation of Methylene Blue and Tetracycline	Liaqat, Maira; Munir, Rana Mustansar; Maryam, Iqra; Iqbal, Tahir; Afsheen, Sumera; Nabi, Azeem Ghulam; Khan, Rana Rashad Mahmood; El-marghany, Adel; Warad, Ismail; Basit, Abdul	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2024.129465
145	Ex Situ Fabrication of the G-TiO ₂ Nanocomposite with Tunable Physiochemical Characteristics for Enhanced Photocatalytic Performance	Sabir, Ghulam Muhaiddin; Saggu, Javed Iqbal; Mehmood, Arslan; Ali, Furqan; Nadeem, Nayab; Qadir, Abdul; Shah, Syed Saifullah; Batoo, Khalid Mujasam; Ijaz, Muhammad Farzik; Hussain, Sajjad	LANGMUIR	10.1021/acs.langmuir.5c00199
146	Synergy of hybrid cerium-enriched Ag ₂ O nanomaterials for enhanced charge carrier mechanism and supercapacitor performance	Sandhu, Zeshan Ali; Danish, Muhammad; Zain, Muhammad; Aslam, Muhammad; Batoo, Khalid Mujasam; Ijaz, Muhammad Farzik	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2025.130410
147	A besyian regularisation neural network approach for hepatitis B virus spread prediction and immune system therapy model	Galal, Ahmed M.; Haider, Qusain; Hassan, Ali; Arshad, Mubashar; Alam, Mohammad Mahtab; Al-Essa, Laila A.; Habenom, Haile	SCIENTIFIC REPORTS	10.1038/s41598-024-75336-x
148	Graphene-Metal oxide Nanocomposites: Empowering Next-Generation energy storage devices	Sandhu, Zeshan Ali; Raza, Muhammad Asam; Kainat; Aman, Farhana; Arshid, Muhammad Sami; Jaffary, Syeda Dure Kashf; Arshad, Sehar; Raza, Mustafa; Al-Sehemi, Abdullah G.; Dege, Necmi	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	10.1016/j.mseb.2024.117947
149	Optimization of trimetallic Cu-Cr-Ca nanoparticle-catalyzed transesterification of amla (Phyllanthus emblica L.) seed oil: analytical characterization and fuel properties of biodiesel	Kanwal, Humaira; Anwar, Farooq; Tanvir, Ahsan; Abidi, Syed Hussain Imam; Mumtaz, Muhammad Waseem	RSC ADVANCES	10.1039/d5ra00098j

150	Methodological optimization for efficient degradation of Acid Violet 49 using advanced oxidation processes and varied photocatalyst combinations	Iqbal, Aqsa; Bokhari, Tanveer Hussain; Usman, Muhammad; Yusuf, Amnah; Mansha, Asim; Saeed, Muhammad; Khan, Salahuddin; Iqbal, Mazhar; Bhatti, Muhammad Ahsan; Shafqat, Syed Salman; Afshan, Noshin; Zafar, Muhammad Nadeem	SCIENTIFIC REPORTS	10.1038/s41598-024-81409-8
151	Synthesis, Anti-enzymatic Appraisal, In Silico, and SAR Analysis of 5-Aryl/Heteroaryl-2,2-dimethyl-1,3-dioxane-4,6-dione Derivatives	Khatoon, Saira; Mehfooz, Haroon; Shehzadi, Syeda Aaliya; Saeed, Aamer; Kalsoom, Saima; Channar, Pervaiz Ali; Ismail, Hammad; Rauf, Abdul; Naveed, Sana; Taslimi, Parham; El-Seedi, Hesham	CHEMISTRYSELECT	10.1002/slct.202404787
152	Benzothiophene semiconductor polymer design by machine learning with low exciton binding energy: A vast chemical space generation for new structures	Mallah, Shaimaa H.; Guleryuz, Cihat; Sumrura, Sajjad H.; Hassan, Abrar U.; Guleryuz, Hasan; Mohyuddin, Ayesha; Kyhoiesh, Hussein A. K.; Noreen, Sadaf; Elnaggar, Ashraf Y.	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	10.1016/j.mssp.2025.109331
153	Recent developments in the synthesis and applications of terpyridine-based metal complexes: a systematic review	Kainat, Syeda Fariha; Hawsawi, Mohammed B.; Mughal, Ehsan Ullah; Naeem, Nafeesa; Almohyawi, Abdulaziz M.; Altass, Hatem M.; Hussein, Essam M.; Sadiq, Amina; Moussa, Ziad; Abd-El-Aziz, Alaa S.; Ahmed, Saleh A.	RSC ADVANCES	10.1039/d4ra04119d
154	Exploring the photocatalytic efficacy of ZnO nanostructures for simultaneous treatment of MB dye and Glucophage pharmaceuticals: experimental and theoretical investigations	Iqbal, Tahir; Munir, Rana Mustansar; Rizvi, Hassan Imam; Ashraf, Maria; Mansha, Muhammad Salim; Khan, Muhammad Isa; Riaz, Khalid Nadeem; Naseer, Hira; Ali, Muhammad Kazim; Alobaid, Abeer A.; Warad, Ismail; Pham, Phuong V.; Afsheen, Sumera	EUROPEAN PHYSICAL JOURNAL PLUS	10.1140/epjp/s13360-025-06084-8
155	Evaluating the effect of land use land cover changes on soil moisture index and vegetation indices using multi-spectral satellite data	Arshad, Muhammad Zaib; Iqbal, Zafar; Saeed, Muhammad; Saleem, Muhammad; Mansha, Rizwan; Abdullah-Al-Wadud, M.; Tariq, Aqil	JOURNAL OF EARTH SYSTEM SCIENCE	10.1007/s12040-025-02595-1
156	DFT and comparative adsorption study of NiO, MnO, and Mn ₂ NiO ₄ nanomaterials for the removal of amaranth dye from synthetic water	Ahmad, Madiha; Riaz, Qamar; Tabassum, Mehwish; Shafqat, Syed Salman; Ayesha, Aima tul; Zubair, Muhammad; Xiong, Youpeng; Syed, Asad; AL-Shwaiman, Hind A.; Nadeem, Muhammad Arif; Jia, Xin; Xu, Guobao; Zafar, Muhammad Nadeem	RSC ADVANCES	10.1039/d4ra04208e

157	Exploring structural basis of photovoltaic dye materials to tune power conversion efficiencies: A DFT and ML analysis of Violanthrone	Sumrra, Sajjad H.; Guleryuz, Cihat; Hassan, Abrar U.; Abass, Zainab A.; Hanoon, Talib M.; Mohyuddin, Ayesha; Kyhoiesh, Hussein A. K.; Alotaibi, Mohammed T.	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2024.130196
158	Next-Generation Optical Biosensors: Cutting-Edge Advances in Optical Detection Methods	Bari, Alina; Aslam, Sana; Khan, Hafeez Ullah; Shakil, Shihzad; Yaseen, Muhammad; Shahid, Salma; Yusaf, Amnah; Afshan, Noshin; Shafqat, Syed Salman; Zafar, Muhammad Nadeem	PLASMONICS	10.1007/s11468-025-02870-3
159	Silicon Nanoparticles Enhance Arsenic Stress Tolerance in Cicer arietinum L. through Physiological and Biochemical Modulation	Anwar, Tauseef; Qureshi, Huma; Gull, Sheraz; Ahmad, Zahoor; Siddiqi, Ejaz Hussain; Ullah, Naimat; Naseem, Muhammad Tahir; Saleh, Muneera A.; Alamer, Khalid H.; Gurbanova, Lala	SILICON	10.1007/s12633-025-03369-6
160	Structural insights and electronic properties of piperidine derivatives: a DFT and MD simulation approach	Damou, Mehdi; Almohyawi, Abdulaziz M.; Mughal, Ehsan Ullah; Naeem, Nafeesa; Abbas, Nermeen Saeed; Sadiq, Amina; Ahmed, Saleh A.	STRUCTURAL CHEMISTRY	10.1007/s11224-025-02510-w
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162	Traditional ethnobotanical knowledge of important local plants in Sudhnoti, Azad Kashmir, Pakistan	Ishtiaq, Muhammad; Sardar, Tauqeer; Hussain, Iqbal; Maqbool, Mehwish; Mazhar, Muhammad Waqas; Parveen, Abida; Ajaib, Muhammad; Bhatti, Khizar Hayat; Hussain, Tanveer; Gul, Alia; Azeem, Muhammad; Khanum, Humaira; Moussa, Ihab Mohamed; Ullah, Fazal; Elansary, Hosam O.; Thind, Sumaira; Sridhara, Shankarappa	SCIENTIFIC REPORTS	10.1038/s41598-024-73431-7
163	Harnessing the potential of green synthesized Co-Fe-ZnS nanocomposites for successive solar-driven degradation of amoxicillin, hydrogen production, and CO2 reduction: Optimization of reaction parameters by response surface methodology	Farooq, Umar; Zahra, Syeda Takmeel; Najeem, Jawayria; Naseem, Khalida; Khan, Mohammad Ehtisham; Ali, Wahid; Alomar, Mohammad S.; Ali, Syed Kashif; Hassan, Mohamed; Al Zoubi, Wail; Bashiri, Abdullateef H.	SUSTAINABLE MATERIALS AND TECHNOLOGIES	10.1016/j.susmat.2025.e01377

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165	Synthesis and molecular structure exploration of novel piperidin-4-one imine derivatives combined with DFT and X-ray: A new class of antioxidant and anti-inflammatory agents	Siddiqui, Rubina; Shamim, Sana; Akhter, Shamim; Kausar, Samia; Yousuf, Sammer; Altaf, Ataf Ali; Saify, Zafar Saeed; Ameen, Fuad	HELIYON	10.1016/j.heliyon.2024.e35122
166	Unveiling the multifaceted nature of terpyridine-based metal complexes: a synergistic study of their photophysical and electrochemical behavior with computational insights	Naeem, Nafeesa; Mughal, Ehsan Ullah; Bozkurt, Ebru; Ahmed, Ishtiaq; Zafar, Muhammad Naveed; Ayub, Ali Raza; Sadiq, Amina; Alsimaree, Abdulrahman A.; Alsantali, Reem I.; Ahmed, Saleh A.	RSC ADVANCES	10.1039/d5ra01005e
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168	Exploring innovative antibacterial properties of porous ALT (Al ₂ O ₃ / TiO ₂) composite	Yousaf, Muhammad; Munir, Rana Mustansar; Iqbal, Tahir; Afsheen, Sumera; Khan, Muhammad Isa; Wali, Hussain; Rizvi, Hassan Imam; Pham, Phuong, V; AIObaid, Abeer A.; Warad, Ismail; Rafique, Shahzadi	MATERIALS CHEMISTRY AND PHYSICS	10.1016/j.matchemphys.2024.129736
169	Thermally activated delayed fluorescence materials: innovative design and advanced application in biomedicine, catalysis and electronics	Mughal, Ehsan Ullah; Kainat, Syeda Fariha; Almohyawi, Abdulaziz M.; Naeem, Nafeesa; Hussein, Essam M.; Sadiq, Amina; Abd-El-Aziz, Ahmad; Ma, Ning; Abd-El-Aziz, Alaa S.; Timoumi, A.; Moussa, Ziad; Abbas, Nermeen Saeed; Ahmed, Saleh A.	RSC ADVANCES	10.1039/d5ra00157a
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