

RESEARCH PUBLICATIONS DATA (2024)

Sr. No.	Authors	Title	Source title	Volume	DOI	Link	Document Type
1	Akhter P.; Ali F.; Ali A.; Hussain M.	TiO ₂ decorated CNTs nanocomposite for efficient photocatalytic degradation of methylene blue	Diamond and Related Materials	141	10.1016/j.diamond.2023.110702	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85178145169&doi=10.1016%2fj.diamond.2023.110702&partnerID=40&md5=9f7e5f2e2bc36c079fd0dbb256ad9293	Article
2	Ji G.; Kou X.; Anjum T.; Khan A.L.; Yin X.; Elma M.; Olguin G.	The interpretation of diverging hydrogen and carbon dioxide permeations with temperature across silica-based membranes	Journal of Membrane Science	695	10.1016/j.memsci.2024.122472	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183501756&doi=10.1016%2fj.memsci.2024.122472&partnerID=40&md5=188b13c2547a7a9e54b7b79751fcc71	Article
3	Akhter N.; Aqeel M.; Shazia; Irshad M.K.; Shehnaz M.M.; Lee S.S.; Noman A.; Syed A.; Bokhari A.; Bahkali A.H.; Wong L.S.	Differential capacity of phragmites ecotypes in remediation of inorganic contaminants in coastal ecosystems: Implications for climate change	Environmental Research	247	10.1016/j.envres.2024.118127	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183486678&doi=10.1016%2fj.envres.2024.118127&partnerID=40&md5=49804b5fd306fc6ed75f6d483359c3d8	Article
4	Bano R.; Nawaz N.; Arshad M.; Rauf A.; Mahmood T.; Ayub K.; Alshareef R.S.; Yasin M.; Nawaz R.; Gilani M.A.	Face specific superalkali doped corannulene complexes with significant electronic and nonlinear optical responses	Optical and Quantum Electronics	56	10.1007/s11082-023-05818-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85179839143&doi=10.1007%2fs11082-023-05818-1&partnerID=40&md5=2dab81e7bc156ce0e0fd023e875faa80	Article

5	Abdullah M.A.; Chuah L.F.; Abdullah S.B.; Bokhari A.; Syed A.; Elgorban A.M.; Akhtar M.S.; AL-Shwaiman H.A.; Asif S.	From port to planet: Assessing NO2 pollution and climate change effects with Sentinel-5p satellite imagery in maritime zones	Environmental Research	257	10.1016/j.envres.2024.119328	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85196205731&doi=10.1016%2fj.envres.2024.119328&partnerID=40&md5=4378e61141e1a717a3066326384cabfb	Article
6	Hasnain M.; Munir N.; Sharif N.; Dias D.A.; Abideen Z.; Rizwana H.; Abid I.; Jamil F.; Hussain M.; Choi Y.J.	Potential of Algal Biomass and Their Cultivation for Biofuels Production as Plausible Bio-resource for Economic Sustainability	Korean Journal of Chemical Engineering	41	10.1007/s11814-024-00157-7	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188233823&doi=10.1007%2fs11814-024-00157-7&partnerID=40&md5=161f71854aafdeb9c5810a9a6df439d	Article
7	Fatimah M.; Qyum M.A.; Lee M.; Alshareef R.S.; Aslam M.; Saeed B.; Dai L.; Gilani M.A.; Bazmi A.A.; Chang I.S.; AlMohamadi H.; Khan A.L.; Yasin M.	Industrial waste gases as a resource for sustainable hydrogen production: Resource availability, production potential, challenges, and prospects	Carbon Capture Science and Technology	12	10.1016/j.ccst.2024.100228	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85194360173&doi=10.1016%2fj.ccst.2024.100228&partnerID=40&md5=99ec8befa10fef49aa71c355b1d7f25f	Review
8	Talib R.; Khan Z.; Khurram S.; Inayat A.; Shahzad K.; Watson I.A.	Efficiency enhancement of a combined cycle power plant by thermal integration of multiple waste heat streams with organic Rankine cycle	Asia-Pacific Journal of Chemical Engineering		10.1002/apj.3168	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85207290941&doi=10.1002%2fapj.3168&partnerID=40&md5=9412b0721db164b23f58fb6e5858530e	Article

9	Iqbal J.; Shah N.S.; Ali Khan J.; Naushad M.; Boczkaj G.; Jamil F.; Khan S.; Li L.; Murtaza B.; Han C.	Pharmaceuticals wastewater treatment via different advanced oxidation processes: Reaction mechanism, operational factors, toxicities, and cost evaluation – A review	Separation and Purification Technology	347	10.1016/j.seppur.2024.127458	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190872789&doi=10.1016%2Fj.seppur.2024.127458&partnerID=40&md5=3b1ed18aa872348db774f6726ee2a193	Review
10	Kang B.S.; Farooq A.; Valizadeh B.; Lee D.; Seo M.W.; Jung S.-C.; Hussain M.; Kim Y.M.; Khan M.A.; Jeon B.-H.; Rhee G.H.; Park Y.-K.	Valorization of sewage sludge via air/steam gasification using activated carbon and biochar as catalysts	International Journal of Hydrogen Energy	54	10.1016/j.ijhydene.2023.04.188	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85154556875&doi=10.1016%2Fj.ijhydene.2023.04.188&partnerID=40&md5=18517b6fb8c89519a838aba29426f74d	Article
11	Ejaz M.; AlMohamadi H.; Khan A.L.; Yasin M.; Mahmood T.; Ayub K.; Tabassum S.; Shahnaz; Gilani M.A.	Alkali metal-doped C20 fullerene sensors for COVID-19 biomarker detection: DFT insights into naked-eye and infrared techniques	Diamond and Related Materials	148	10.1016/j.diamond.2024.111523	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85202203799&doi=10.1016%2Fj.diamond.2024.111523&partnerID=40&md5=336be5537a2b940cd03a56926b5414fc	Article
12	Abdellatif T.M.M.; Ershov M.A.; Abdelkareem M.A.; Mustafa A.; Jamil F.; Kapustin V.M.; Makhova U.A.; Chernysheva E.A.; Savelenko V.D.; Klimov N.A.; Olabi A.G.	A unifying methodology for gasoline-grade biofuel from several renewable and sustainable gasoline additives	Process Safety and Environmental Protection	190	10.1016/j.psep.2024.07.112	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200416070&doi=10.1016%2Fj.psep.2024.07.112&partnerID=40&md5=3551fbdccfd39b2f5faa4f9cca7e4419	Article

13	Jamil F.; Al-Muhtaseb A.H.; Osman A.I.; Al-Haj L.; Tay Zar Myint M.; Inayat A.; Hussain M.; Shanableh A.	Novel organometallic catalyst for efficient valorization of lipids extracted from Prunus domestica kernel shell in sustainable fuel production	Energy Conversion and Management: X	22	10.1016/j.ecmx.2024.100577	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189746394&doi=10.1016%2fj.ecmx.2024.100577&partnerID=40&md5=621c5aceb102c8132f4bd2a20a847ade	Article
14	Idrees I.; Razzaq A.; Zafar M.; Umer A.; Mustafa F.; Rehman F.; Kim W.Y.	Silver (Ag) doped graphitic carbon nitride (g-C ₃ N ₄) photocatalyst for enhanced degradation of Ciprofloxacin (CIP) under visible light irradiation	Arabian Journal of Chemistry	17	10.1016/j.arabjc.2024.105615	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183319832&doi=10.1016%2fj.arabjc.2024.105615&partnerID=40&md5=256a5967cbe5c50c9d8a15814bc0da8c	Article
15	Ali Z.; Shoaib M.; Ul-Haq N.; Ahmed S.; Younas U.; Ali F.; Hassan F.	Sodium alginate/banana peels/reduced graphene oxide nanocomposite beads for effective removal of copper and nickel from aqueous solutions	Journal of the Indian Chemical Society	101	10.1016/j.jics.2024.101325	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85201911856&doi=10.1016%2fj.jics.2024.101325&partnerID=40&md5=5423831391b548225c1d74242bf45786	Article
16	Jamal M.; Sharif F.; Shozab Mehdi M.; Fakhar-e-Alam M.; Asif M.; Mustafa W.; Bashir M.; Rafiq S.; Bustam M.A.; Saif-ur-Rehman; Dahlous K.A.; Shibl M.F.; Al-Qahtani N.H.	Development of Biocompatible Electrospun PHBV- PLLA Polymeric Bilayer Composite Membranes for Skin Tissue Engineering Applications	Molecules	29	10.3390/molecules29092049	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85192700152&doi=10.3390%2fmolecules29092049&partnerID=40&md5=c2a104d373df5dfa54758554f6804833	Article

17	Jeon S.; Farooq A.; Lee I.H.; Lee D.; Seo M.W.; Jung S.-C.; Hussain M.; Khan M.A.; Jeon B.-H.; Jang S.-H.; Choi Y.J.; Rhee G.H.; Park Y.-K.	Green conversion of wood plastic composites: A study on gasification with an activated bio-char catalyst	International Journal of Hydrogen Energy	54	10.1016/j.ijhydene. 2023.05.127	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163285323&doi=10.1016%2fj.ijhydene.2023.05.127&partnerID=40&md5=bd129d1d867dedc306fceece7579d188	Article
18	Akhter P.; Arshad A.; Hussain M.	A review on environmental impacts of paints and strategies for producing eco- friendly-paints	International Journal of Environmental Science and Technology		10.1007/s13762- 024-05760-z	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195198856&doi=10.1007%2fs13762-024-05760-z&partnerID=40&md5=f92fcd34231fd5f3a42aee6bc9b4d8b3	Review
19	Hussain A.; Yar M.; Alshareef R.S.; Mahmood T.; Ayub K.; Nawaz R.; Yasin M.; Gilani M.A.	Efficient hydrogen splitting via single atom catalysts supported on Zn12O12 nanocage for sustainable clean fuel production	International Journal of Hydrogen Energy	58	10.1016/j.ijhydene. 2024.01.144	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183528883&doi=10.1016%2fj.ijhydene.2024.01.144&partnerID=40&md5=5fcec3f9d3e29acf904c25189709038f	Article
20	Khan M.U.D.; Afzaal A.; Shahnaz; Gilani M.A.; Perveen S.; Sharif F.; Asif A.; Faisal A.; Nazir M.S.; Huck O.; Tabassum S.	Synergistic utilization of cost-effective glycerophosphate and biologically active zein for innovative minimally invasive smart thermo- responsive hydrogels for potential hard tissue engineering applications	Smart Materials and Structures	33	10.1088/1361- 665X/ad57a4	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85197703568&doi=10.1088%2f1361-665X%2fad57a4&partnerID=40&md5=fe9fd084e8f73e17b80d532c9e322041	Article

21	Belousov A.S.; Parkhacheva A.A.; Shotina V.A.; Titaev D.N.; Suleimanov E.V.; Shafiq I.	Engineering a staggered type-II Bi ₂ WO ₆ /WO ₃ heterojunction with improved photocatalytic activity in wastewater treatment	Chemosphere	359	10.1016/j.chemosphere.2024.142316	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85192853255&doi=10.1016%2fj.chemosphere.2024.142316&partnerID=40&md5=cd2c00ddee087c37003f727f9dfefd83	Article
22	Dafalla M.; Inayat A.; Jamil F.; Ghenai C.; Shanableh A.	Valorization of waste neem seeds for biochar and bio-oil production: Optimization and statistical analysis	Bioresource Technology Reports	28	10.1016/j.biteb.2024.101975	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85206819109&doi=10.1016%2fj.biteb.2024.101975&partnerID=40&md5=2f2f895219b711c93c4cc7e4a645e429	Article
23	Khan Z.; Shahbaz M.; Taqvi S.A.A.; AlNouss A.; Al-Ansari T.; Ahmed U.	Equilibrium modelling of steam gasification of PKS system and CO ₂ sorption using CaO: A digitalized parametric and techno-economic analysis	Digital Chemical Engineering	13	10.1016/j.dche.2024.100184	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204459399&doi=10.1016%2fj.dche.2024.100184&partnerID=40&md5=8c7f5fc7a2d9895b66c7ae597a008c75	Article
24	Memon M.H.; Amjad U.-E.S.; Mir A.; Mustafa M.	ZIF-67-Based Triboelectric Nanogenerator Fabricated Through EHD Printing: Performance Evaluation as an Energy Harvesting Device and Its Pressure-Sensing Application	ACS Applied Electronic Materials	6	10.1021/acsaelm.3c01633	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189547993&doi=10.1021%2facsaelm.3c01633&partnerID=40&md5=fd081788b9556af495a9744eba1d790c	Article

25	Tubussum H.; Aslam M.; Hashim H.M.; Marimuthu M.; Mahmoud K.H.; Alsubaie A.S.; Bhutto A.W.; Bazmi A.A.; Bokhari A.; Nizami A.-S.	Reorientation of energy policy and management: Integrated Energy Planning (IEP) framework implementation for Renewable and Thermal Energy Systems (RTES)	Process Safety and Environmental Protection	191	10.1016/j.psep.2024.08.106	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85203504750&doi=10.1016%2fj.psep.2024.08.106&partnerID=40&md5=653a9bba55d89fbeecc9957fab05746d	Article
26	Naeem A.; Saeed B.; AlMohamadi H.; Lee M.; Gilani M.A.; Nawaz R.; Khan A.L.; Yasin M.	Sustainable and green membranes for chemical separations: A review	Separation and Purification Technology	336	10.1016/j.seppur.2024.126271	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183725542&doi=10.1016%2fj.seppur.2024.126271&partnerID=40&md5=c321b85cea01136ed0513592455f5f6f	Review
27	Shim H.; Khani Y.; Valizadeh B.; Hyun Ko C.; Chen W.-H.; Hussain M.; Park Y.-K.	Enhancement of biohydrogen production and low coke formation by applying Ni/ZrxCe1- xO2 catalyst in steam gasification of spent coffee ground in monolithic reactor	Chemical Engineering Journal	484	10.1016/j.cej.2024.149209	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184827746&doi=10.1016%2fj.cej.2024.149209&partnerID=40&md5=867672f96cc5e39c0c4f3d6bd3654816	Article
28	Rashid R.; Maaz M.; Shafiq I.; Hussain M.; Abbas N.; Gilani M.R.H.S.; Voskressensk y L.; Luque R.	Dual-Function Polymeric Nanomaterials for Adsorption/Photo- Treatment of Oil Spills in Aqueous Solutions	Chemical Methodologies	8	10.48309/CHEM.M.2024.413788.1835	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213354560&doi=10.48309%2fCHEMM.2024.413788.1835&partnerID=40&md5=bb7470808f435536410d75c8bef96082	Article

29	Nisar U.B.; Rehman W.U.; Saleem S.; Taufail K.; Rehman F.U.; Farooq M.; Ehsan S.A.	Assessment of water quality using entropy- weighted quality index, statistical methods and electrical resistivity tomography, Moti village, northern Pakistan	Journal of Contaminant Hydrology	264	10.1016/j.jconhyd. 2024.104368	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85193566268&doi=10.1016%2fj.jconhyd.2024.104368&partnerID=40&md5=4dacb3ed7c64be005e347b7d98ee720f	Article
30	Amin N.; Khan Z.; Razzaq A.; Ghauri M.; Khurram S.; Inayat A.; Jaffery M.; Hameed Z.	Municipal solid waste air gasification using waste marble powder as a catalyst for syngas production	Journal of the Energy Institute	113	10.1016/j.joei.202 3.101496	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85181171781&doi=10.1016%2fj.joei.2023.101496&partnerID=40&md5=d224a8fd29c3476fc43ce169ea150ac3	Article
31	Asif M.; Javed F.; Younas M.; Gillani M.A.; Zimmerman W.B.; Rehman F.	Investigating biodiesel production from Chicken fat oil using bi- functional catalysts and microbubble mediated mass transfer	Fuel	358	10.1016/j.fuel.202 3.130125	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174734397&doi=10.1016%2fj.fuel.2023.130125&partnerID=40&md5=d7b4d49808dca2876152aa56d90b7e8b	Article
32	Aziz T.; Haq F.; Farid A.; Cheng L.; Chuah L.F.; Bokhari A.; Mubashir M.; Tang D.Y.Y.; Show P.L.	Correction to: The epoxy resin system: function and role of curing agents (Carbon Letters, (2024), 34, 1, (477-494), 10.1007/s42823-023- 00547-7)	Carbon Letters	34	10.1007/s42823- 023-00620-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85173981721&doi=10.1007%2fs42823-023-00620-1&partnerID=40&md5=84352ad5c7fdc4f4fe98ad7acfb066e1	Erratum

33	Haider S.M.A.; Ahmad I.; Majeed K.; Hussain M.	Soil Organic Carbon Sequestration Potential and Its Sustainability Comparison Between Mango-based Agroforestry and Cropland Seeking Soil Fertility Parameters Under Climate Resilience	Water, Air, and Soil Pollution	235	10.1007/s11270-024-07493-8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85203867150&doi=10.1007%2fs11270-024-07493-8&partnerID=40&md5=a3b7007539ab6005983bc9687b3b4e2e	Article
34	Ali M.; Shafiq I.; Hussain M.; Akhter P.; Jamil F.; Park Y.-K.	Effective regeneration of deactivated Raney-Ni catalyst during multiphase hydrogenation of vegetable oil	Energy and Environment		10.1177/0958305X231225109	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85181654300&doi=10.1177%2f0958305X231225109&partnerID=40&md5=36d0719e3bf6a78e3397d7d81525860e	Article
35	Belousov A.S.; Parkhacheva A.A.; Suleimanov E.V.; Fukina D.G.; Markov A.N.; Vorotyntsev A.V.; Koroleva A.V.; Zhizhin E.V.; Shafiq I.	Design of visible light-responsive CsM _{0.25} W _{1.75} O ₆ (M = Ni, Co, Mn, Cu) β -pyrochlore oxides with enhanced photocatalytic activity towards a set of pollutants	Ceramics International	50	10.1016/j.ceramint.2024.08.374	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85202215992&doi=10.1016%2fj.ceramint.2024.08.374&partnerID=40&md5=39216cb10070089552063729320acb49	Article
36	Ali Z.; Kiran S.; Haq N.U.; Dahshan A.; Iqbal S.Z.; Nazir A.; Munawar A.; Khan A.L.; Alwadai N.; Iqbal M.	Fabrication of novel (Cr) based (MIL-101) incorporated mixed matrix forward osmosis membranes for environmental remediation	Materials Chemistry and Physics	315	10.1016/j.matchemphys.2024.128951	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185165351&doi=10.1016%2fj.matchemphys.2024.128951&partnerID=40&md5=0a57b4c9e26fb845a064dc92137894bc	Article

37	Lee M.; Kim J.-H.; Yasin M.; Moon S.-H.; Chang I.S.	A sustainable bioprocessing system leveraging gas fermentation and bipolar membrane electro dialysis system for direct recovery of acetic acid	Chemical Engineering Journal	490	10.1016/j.cej.2024.151710	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191900942&doi=10.1016%2fj.cej.2024.151710&partnerID=40&md5=9d58ba41b45e414adcc525cab75b9b42	Article
38	Faiz I.; Ahmad M.; Ramadan M.F.; Zia U.; Rozina; Bokhari A.; Asif S.; Pieroni A.; Zahmatkesh S.; Ni B.-J.	Hazardous waste management (Buxus papillosa) investment for the prosperity of environment and circular economy: Response surface methodology-based simulation	Journal of Environmental Management	350	10.1016/j.jenvman.2023.119567	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85179129535&doi=10.1016%2fj.jenvman.2023.119567&partnerID=40&md5=924694074216862214815238450d35c6	Article
39	Bukhari S.A.S.; Zafar M.; Mazhar F.; Ahmed A.; Fazal T.; Rehman F.; Razzaq A.; Kim W.Y.	Development of nickel doped graphitic carbon nitride (GCN) photocatalyst for enhanced degradation of textile pollutant under visible light irradiation	Journal of Saudi Chemical Society	28	10.1016/j.jscs.2023.101801	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85182425283&doi=10.1016%2fj.jscs.2023.101801&partnerID=40&md5=c34a388b7553ed6080cff49a9fe8bfa9	Article
40	Mushtaq S.; Jamil F.; Inayat A.; Ghenai C.; Shanableh A.	The green revolution in plastics: Unveiling breakthroughs, applications, and the path forward	Current Opinion in Green and Sustainable Chemistry	49	10.1016/j.cogsc.2024.100950	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199564645&doi=10.1016%2fj.cogsc.2024.100950&partnerID=40&md5=4a5f0c6934a73cd84970ba5be118cfd7	Review

41	Kiran A.; Anjum T.; Khan A.L.; AlMohamadi H.; Kiran S.; Gilani M.A.; Aslam M.; Younas M.; Nawaz R.; Bazmi A.A.; Yasin M.	Enhancing water purification efficiency with zirconium-mercaptopropionic acid metal-organic framework integrated mixed matrix membranes: Synthesis, comprehensive characterization, and performance insights	Chemical Engineering Research and Design	211	10.1016/j.cherd.2024.09.021	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85205430051&doi=10.1016%2fj.cherd.2024.09.021&partnerID=40&md5=a217bf8f2d82437292ac0a03cfb5def5	Article
42	Hameed Z.; Khan Z.; Khurram S.; Inayat A.; Amin N.; Aslam M.; Watson I.	Co-gasification study of blends of municipal solid waste with sugarcane bagasse and rice husk using the Coats-Redfern method	Journal of the Energy Institute	113	10.1016/j.joei.2024.101542	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183895254&doi=10.1016%2fj.joei.2024.101542&partnerID=40&md5=db247d310668b40fcf982af0f98c6510	Article
43	Valizadeh B.; Valizadeh S.; Kim H.; Choi Y.J.; Seo M.W.; Yoo K.S.; Lin K.-Y.A.; Hussain M.; Park Y.-K.	Production of light olefins and monocyclic aromatic hydrocarbons from the pyrolysis of waste plastic straws over high-silica zeolite-based catalysts	Environmental Research	245	10.1016/j.envres.2023.118076	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85181811478&doi=10.1016%2fj.envres.2023.118076&partnerID=40&md5=10cc0deca03e5cbc567ede19aba0e896	Article
44	Riaz I.; Shafiq I.; Jamil F.; Al-Muhtaseb A.H.; Akhter P.; Shafique S.; Park Y.-K.; Hussain M.	A review on catalysts of biodiesel (methyl esters) production	Catalysis Reviews - Science and Engineering	66	10.1080/01614940.2022.2108197	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85138391780&doi=10.1080%2f01614940.2022.2108197&partnerID=40&md5=1e01d90cc0195c10a8b48217fca635a0	Review

45	Imran S.; Hussain M.	Emerging trends in water splitting innovations for solar hydrogen production: Analysis, comparison, and economical insights	International Journal of Hydrogen Energy	77	10.1016/j.ijhydene.2024.06.254	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85196401861&doi=10.1016%2fij.ijhydene.2024.06.254&partnerID=40&md5=54ba2721645fb417131ea0497cda8a2c	Article
46	Rashid K.; Aslam M.; Rác E.; Nadeem S.; Khan Z.; Muhammad N.; Rashid Z.; Aljuwayid A.M.; Shahid M.K.; Irfan M.	Mesoporous silica-grafted deep eutectic solvent-based mixed matrix membranes for wastewater treatment: Synthesis and emerging pollutant removal performance	Nanotechnology Reviews	13	10.1515/ntrev-2023-0213	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188638345&doi=10.1515%2fntrev-2023-0213&partnerID=40&md5=64946cb2894d24a29bed1126ef0fb5c	Article
47	Azra N.; Aziz V.; Ul Hasan S.; Nazir M.S.; Ali Z.; Hussain M.; Park Y.-K.	Investigation of the kinetics of imidacloprid adsorption onto bimetallic Cu-BTC MOF	Journal of Industrial and Engineering Chemistry	140	10.1016/j.jiec.2024.05.039	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85194079108&doi=10.1016%2fj.jiec.2024.05.039&partnerID=40&md5=5760e8980c8d97f8c3365b3afd547e62	Article
48	Qamar O.A.; Jamil F.; Inayat A.; Akhter P.; Hussain M.	Upgrading catalytic properties of green synthesized TiO ₂ for green fuel production from apricot seeds oil	Fuel	355	10.1016/j.fuel.2023.129516	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85167810878&doi=10.1016%2fj.fuel.2023.129516&partnerID=40&md5=a4858075307f92e19a5092cd68617c20	Article

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50	Taqvi S.A.A.; Kazmi B.; Naqvi S.R.; Juchelková D.; Bokhari A.	State-of-the-Art Review of Biomass Gasification: Raw to Energy Generation	ChemBioEng Reviews	11	10.1002/cben.202 400003	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191747528&doi=10.1002%2Fcben.202400003&partnerID=40&md5=dc79371d6c939b3519c599c7c79e296c	Review
51	Yaqoob J.; AlMohamadi H.; Khan A.L.; Yasin M.; Mahmood T.; Ayub K.; Anwar F.; Joya K.S.; Gilani M.A.	Optimal balance: alkali metal-doped boron carbide nanosheets achieve superior stability and nonlinear optical responsiveness	RSC Advances	14	10.1039/d4ra0388 2g	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85205690769&doi=10.1039%2Fd4ra03882g&partnerID=40&md5=5abd311d3c47deba3fb9117f7f6d4308	Article
52	Siddiqui R.; Rani M.; Shah A.A.; Rafiq M.I.; Bukhari S.N.U.S.; Khan M.A.	Synergistic electrochemical and optical properties of a UVC class quaternary nanocomposite incorporating graphene oxide and samarium chromium oxide perovskite	Diamond and Related Materials	147	10.1016/j.diamond .2024.111222	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195877079&doi=10.1016%2Fj.diamond.2024.111222&partnerID=40&md5=59bc1052cdd72b0e0c7e8f0a11bd37c8	Article

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54	Khan P.; Yasin M.; Khan A.L.; AlMohamadi H.; Zhang X.; Ali Z.; Zaman M.; Niazi M.B.K.; Gilani M.A.	Simulation-Driven Design and Synthesis of DES-PDMS Membranes for Enhanced Ethanol Pervaporation	ACS Sustainable Chemistry and Engineering	12	10.1021/acssuschemeng.4c05410	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85210092017&doi=10.1021%2facssuschemeng.4c05410&partnerID=40&md5=5d000ad33d53fa149fd170e6e1b8d2c9	Article
55	Jamil F.; Inayat A.; Hussain M.; Ghenai C.; Shanableh A.; Sarwer A.; Shah N.S.; Park Y.-K.	Green hydrogen production through a facile aqueous-phase reforming technique from waste biomass: A comprehensive review	International Journal of Hydrogen Energy	96	10.1016/j.ijhydene.2024.11.239	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85209671690&doi=10.1016%2fj.ijhydene.2024.11.239&partnerID=40&md5=39f82f2252f155fa440ff57042548323	Review
56	Komal A.; Kasuri A.; Yasin M.; Khan A.L.; Razzaq A.; Alhmohamadi H.; Akhtar F.H.; Raja A.A.; Nawaz R.; Abdulmalek E.; Gilani M.A.	Enhancing butanol separation efficiency in pervaporation with ZIF-8 porous liquid infused mixed matrix membranes	Chemical Engineering Research and Design	206	10.1016/j.cherd.2024.04.044	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85192265445&doi=10.1016%2fj.cherd.2024.04.044&partnerID=40&md5=c2e855dc49efa917d54d261a6bb67d2	Article

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58	Akhtar M.; Hussain M.; Naeem F.; Akhter P.; Jamil F.; Qamar O.A.; Bazmi A.A.; Tariq N.; Asrar A.; Park Y.-K.	Green and sustainable synthesis of iron oxide nanoparticles for synergetic removal of melanoidin from ethanol distillery simulated model wastewater	Journal of Industrial and Engineering Chemistry	132	10.1016/j.jiec.2023.11.022	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85177196728&doi=10.1016%2fj.jiec.2023.11.022&partnerID=40&md5=ba245c1d13a32f813ee42692e79c741f	Article
59	Ahmad N.; Imtiaz M.; Hussain M.; Amjad U.-E.- S.; Maafa I.M.; Ahmed U.; Gani Abdul Jameel A.; Bafaqeer A.	Catalytic co-pyrolysis of Vachellia Farnesiana with polypropylene plastic to produce bio-oil: Parameter optimization study	Fuel	367	10.1016/j.fuel.2024.131495	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188504671&doi=10.1016%2fj.fuel.2024.131495&partnerID=40&md5=22e7ab1cc96d8e80bcd9f6282984f9d7	Article
60	Oyewo A.T.; Oluwole O.O.; Ajide O.O.; Omoniyi T.E.; Hussain M.	A summary of current advancements in hybrid composites based on aluminium matrix in aerospace applications	Hybrid Advances	5	10.1016/j.hybadv.2023.100117	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204646998&doi=10.1016%2fj.hybadv.2023.100117&partnerID=40&md5=4534c088b52911e63554a30e538b1e95	Review

61	Zin M.M.T.; Hussain M.; Kim D.-J.; Yang J.E.; Choi Y.J.; Park Y.-K.	Circular economy approach: Nutrient recovery and economical struvite production from wastewater sources by using modified biochars	Chemosphere	362	10.1016/j.chemosphere.2024.142589	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195843465&doi=10.1016%2fj.chemosphere.2024.142589&partnerID=40&md5=d34c44b9a61c565462f964322a783e6d	Article
62	Khan P.; Yasin M.; AlMohamadi H.; Zhang X.; Laeeq Khan A.; Nawaz R.; Amjad Gilani M.	Exploring the potential of hydrophobic deep eutectic solvents for bioethanol separation using DFT and COSMO-RS model	Journal of Molecular Liquids	393	10.1016/j.molliq.2023.123665	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85178653671&doi=10.1016%2fj.molliq.2023.123665&partnerID=40&md5=0784522d8493da28346c8fe4ea097398	Article
63	Zafar M.; Muhammad Imran S.; Iqbal I.; Azeem M.; Chaudhary S.; Ahmad S.; Kim W.Y.	Graphene-based polymer nanocomposites for energy applications: Recent advancements and future prospects	Results in Physics	60	10.1016/j.rinp.2024.107655	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190283188&doi=10.1016%2fj.rinp.2024.107655&partnerID=40&md5=ae5f8199d6aad4c34663443e10dae867	Article
64	Mir A.; Iqbal M.; Amjad U.-E.-S.; Sherin L.; Mustafa M.	Fabrication and Performance Evaluation of Schottky Diode Device Fabricated Utilizing Ultrathin Silver Nanowires-PEDOT:PSS Composite Electrode	JOM	76	10.1007/s11837-023-06055-3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85168124853&doi=10.1007%2fs11837-023-06055-3&partnerID=40&md5=bd49508365dacbf2686f30b851b93f7	Article

65	Rahim A.R.A.; Johari K.; Hussain M.	Effect of solvent and calcination process on physicochemical features of silica nanocapsule for CO2 capture	Environmental Engineering Research	29	10.4491/eer.2024.011	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85193347790&doi=10.4491%2feer.2024.011&partnerID=40&md5=c01139ed915a63198619285eb7773bf9	Article
66	Zainab R.; Hasnain M.; Ali F.; Abideen Z.; Siddiqui Z.S.; Jamil F.; Hussain M.; Park Y.-K.	Prospects and challenges of nanopesticides in advancing pest management for sustainable agricultural and environmental service	Environmental Research	261	10.1016/j.envres.2024.119722	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85201007907&doi=10.1016%2fj.envres.2024.119722&partnerID=40&md5=e047d019c02abeb3a4e3e35623e2574	Review
67	Jamil F.; Hussain Muhammad M.; Hussain M.; Akhter P.; Sarwer A.; Inayat A.; Johari K.; Shezad N.; Hoon Lee S.; Park Y.-K.	Life cycle assessment with the transition from lignocellulose- to microalgae-based biofuels: A review	Journal of Industrial and Engineering Chemistry	133	10.1016/j.jiec.2023.12.011	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85179465176&doi=10.1016%2fj.jiec.2023.12.011&partnerID=40&md5=83c72f9da6761973e974ae57af88daf2	Review
68	Khalid H.M.; Mujahid A.; Ali A.; Khan A.L.; Saleem M.; Santos R.M.	Development of Mixed Matrix Membranes by Using NH2-Functionalized UiO-66 and [APTMS][AC] Ionic Liquid for the Separation of CO2	International Journal of Energy Research	2024	10.1155/2024/2107340	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199382485&doi=10.1155%2f2024%2f2107340&partnerID=40&md5=0ddc34fcbc707c6b1a1c532da9d012ab	Article

69	Rashid R.; Shafiq I.; Gilani M.R.H.S.; Maaz M.; Akhter P.; Hussain M.; Jeong K.-E.; Kwon E.E.; Bae S.; Park Y.-K.	Advancements in TiO ₂ - based photocatalysis for environmental remediation: Strategies for enhancing visible- light-driven activity	Chemosphere	349	10.1016/j.chemosphere.2023.140703	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85178556454&doi=10.1016%2fj.chemosphere.2023.140703&partnerID=40&md5=6216e448f523223288423fcb9e9b094	Review
70	Ali S.; Kim D.; Gong E.; Lee J.; Razzaq A.; Lei J.; Kim K.-J.; Goddard W.A., III; In S.-I.	Copper Deposited on Reduced Titania as Catalyst for the Production of CH ₄ from Sunlight and Air	ChemCatChem	16	10.1002/cctc.202301485	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85199319475&doi=10.1002%2fcctc.202301485&partnerID=40&md5=8f942d036ad45eae18498ac3077ca3d7	Article
71	Asadi F.; Allahyari S.; Rahemi N.; Hussain M.	One-pot oxidative- adsorptive desulfurization of model fuel and fuel oil using magnetic boron nitride-based catalysts under ultrasonic irradiations	Journal of Industrial and Engineering Chemistry	133	10.1016/j.jiec.2023.12.020	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85180596320&doi=10.1016%2fj.jiec.2023.12.020&partnerID=40&md5=42d90bd2a26cee0753499f8fb05455e	Article
72	Ejaz M.; AlMohamadi H.; Khan A.L.; Yasin M.; Mahmood T.; Ayub K.; Tabassum S.; Gilani M.A.	A rational design of metal doped C ₂₀ fullerene based sensor for the selective detection of ethyl butyrate as COVID-19 biomarker	Surfaces and Interfaces	52	10.1016/j.surfin.2024.104869	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200243687&doi=10.1016%2fj.surfin.2024.104869&partnerID=40&md5=09becbbcc975ec4f2f0c94876c63366d	Article

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74	Talib R.; Khan Z.; Khurram S.; Inayat A.; Ghauri M.; Abbas M.; Watson I.	Energy efficiency enhancement of a thermal power plant by novel heat integration of Internal Combustion Engine, Boiler, and Organic Rankine Cycle	Asia-Pacific Journal of Chemical Engineering	19	10.1002/apj.3013	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85177996621&doi=10.1002%2fapj.3013&partnerID=40&md5=c9a76293d0d4d5689e4cd56d67f8756c	Article
75	Mushtaq S.; Jamil F.; Hussain M.; Inayat A.; Majeed K.; Akhter P.; Khurram M.S.; Shanableh A.; Kim Y.M.; Park Y.-K.	Utilizing sludge-based activated carbon for targeted leachate mitigation in wastewater treatment	Environmental Research	249	10.1016/j.envres.2024.118326	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85187176461&doi=10.1016%2fj.envres.2024.118326&partnerID=40&md5=1bfcec40b7440934048a241da1f0240f	Review
76	Iftekhar H.; Nazir M.S.; Mehboob A.; Majeed K.; Nawab Y.; Ali Z.	Rebound characteristics of flexible and stiff jute rubber/epoxy hybrid composite under low-velocity impact	Journal of Reinforced Plastics and Composites		10.1177/07316844241278046	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85205282361&doi=10.1177%2f07316844241278046&partnerID=40&md5=a3015a88d94de8c37427d344033e2753	Article

77	Waris A.; Sharif S.; Naz S.; Manzoor F.; Rashid F.; Tabassum S.; Jamil F.; Hussain M.; Choi Y.J.; Park Y.-K.	Review on metallic nanoparticles induced toxicity on renal function and overall health of kidneys	Environmental Engineering Research	29	10.4491/eer.2023.549	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85188027514&doi=10.4491%2feer.2023.549&partnerID=40&md5=a6e94ebb2fcef35edd2d3feec233744	Review
78	Ishaq M.; Saeed U.; Belousov A.S.; Qamar S.; Shafique S.; Afzal Z.M.; Arshad I.; Shafiq I.	Performance tuning of surface modified ceria based mixed matrix membrane for effective CO2 separation	Journal of Applied Polymer Science	141	10.1002/app.56084	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200962288&doi=10.1002%2fapp.56084&partnerID=40&md5=db834c6f2cb3dd0a82767c33d4c0d8eb	Article
79	Javed M.Y.; Asghar A.B.; Naveed K.; Nasir A.; Alamri B.; Aslam M.; Al-Ammar E.A.; Conka Z.	Improving the efficiency of photovoltaic-thermoelectric generator system using novel flying squirrel search optimization algorithm: Hybrid renewable and thermal energy system (RTES) for electricity generation	Process Safety and Environmental Protection	187	10.1016/j.psep.2024.04.093	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191965341&doi=10.1016%2fj.psep.2024.04.093&partnerID=40&md5=5180c286a1177fced062a992ffc4a605	Article
80	Najam M.; Anjum T.; Khan A.L.	Carbon Capture with Hybrid Membranes	Encyclopedia of Renewable Energy, Sustainability and the Environment: Volume 1-4	4	10.1016/B978-0-323-93940-9.00160-2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213200028&doi=10.1016%2fB978-0-323-93940-9.00160-2&partnerID=40&md5=77c7a9f893b93933c4c4404196b363b7	Book chapter

81	Chaudhry B.; Sultana S.; Zhang Z.; Ahmad M.; Munir M.; Osman S.M.; Akhtar M.S.; Bokhari A.; Cho C.; Choi D.	An environmentally greener and reusability approach for bioenergy production using <i>Mallotus philippensis</i> (Kamala) seed oil feedstock via phytonanotechnology	Nanotechnology Reviews	13	10.1515/ntrev-2024-0025	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204912185&doi=10.1515%2Fntrev-2024-0025&partnerID=40&md5=77425f72110e95783a451fe354226897	Article
82	Nawaz S.; Jamil F.; Akhter P.; Hussain M.	State-of-the-art novel catalyst synthesized from waste rice husk and eggshells for cleaner biodiesel production	Biofuels	15	10.1080/17597269.2023.2221878	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163050330&doi=10.1080%2F17597269.2023.2221878&partnerID=40&md5=8695e5b506948ba8788a3b94b84824d0	Article
83	Rad E.A.; Tayyeban E.; Assareh E.; riaz A.; Hoseinzadeh S.; Lee M.	Thermodynamic feasibility and multiobjective optimization of a closed Brayton cycle-based clean cogeneration system	Journal of Thermal Analysis and Calorimetry	149	10.1007/s10973-023-12630-2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176926799&doi=10.1007%2Fs10973-023-12630-2&partnerID=40&md5=83564db77da4cb5f34cd76bca75215df	Article
84	Iber B.T.; Okomoda V.T.; Felix G.P.; Abdullah S.R.S.; Oloruntobi O.; Bokhari A.; Eldesoky G.E.; Park S.J.; Choi D.; Chuah L.F.; Kasan N.A.	Optimising coagulation/flocculation using response surface methodology and application of floc in biofertilisation	Green Processing and Synthesis	13	10.1515/gps-2023-0200	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189007270&doi=10.1515%2Fgps-2023-0200&partnerID=40&md5=0ea458216ae6e793500c3b1ed0f3459b	Article

85	Mushtaq A.; Cho H.; Batoool A.; Fazal M.T.; Aslam M.; Rehman M.S.U.; Lam J.C.-H.; Han J.-I.	Optimizing electroactive membrane performance for microalgae harvesting: A response surface methodology study of membrane formulation and operating parameters for electro filtration	Chemosphere	349	10.1016/j.chemosphere.2023.140967	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85180401978&doi=10.1016%2fj.chemosphere.2023.140967&partnerID=40&md5=3f408f9a410a48be9052051b5a88c707	Article
86	Farooq A.; Nazir M.S.; ul Hassan S.; Akhtar M.N.; Hussain M.; Farooq M.; Aslam A.A.; Khan A.A.; Ali Z.	Synergistic strategies in MOF on MOF photocatalysts: Review on exploring sustainable hydrogen generation from water splitting	Nano- Structures and Nano-Objects	39	10.1016/j.nanoso.2024.101295	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85200917044&doi=10.1016%2fj.nanoso.2024.101295&partnerID=40&md5=9a11b1c7da94a4d2e1fb48f7fa6f9cd0	Review
87	Jrai A.A.; Al- Muhtaseb A.H.; Jamil F.; Myint M.T.Z.	Green hydrocarbons fuel production from agricultural waste biomass in the presence of a novel heterogeneous catalyst	Biomass Conversion and Biorefinery	14	10.1007/s13399-023-04076-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150470631&doi=10.1007%2fs13399-023-04076-1&partnerID=40&md5=b390effd3d129ac054dae2a23b0c0bf7	Article
88	Nawaz S.; Jamil F.; Akhter P.; Majeed K.; Balčiūnaitė A.; ur-Rehman M.H.; Shafiq I.; Ahmed A.; Inayat A.; Hussain M.	Unlocking the future of sustainable energy: biodiesel synthesis from non-edible feedstocks powered by eco-friendly nano-magnetic catalysts	Biofuels	15	10.1080/17597269.2023.2294229	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85198378841&doi=10.1080%2f17597269.2023.2294229&partnerID=40&md5=93b3cbfa0fae29c6f0c5e6a0e35ffcc1	Review

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