

RESEARCH PUBLICATIONS DATA (2023)

Sr. No.	Authors	Title	Source title	Volume	DOI	Link	Document Type
1	Akhter P.; Shafiq I.; Ali F.; Hassan F.; Rehman R.; Shezad N.; Ahmed A.; Jamil F.; Hussain M.; Park Y.-K.	Montmorillonite-Supported BiVO ₄ nanocomposite: Synthesis, interface characteristics and enhanced photocatalytic activity for Dye-contaminated wastewater	Journal of Industrial and Engineering Chemistry	123	10.1016/j.jiec.2023.03.039	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151704812&doi=10.1016%2fj.jiec.2023.03.039&partnerID=40&md5=5d07cf215fba0b82c9219a3ab843af57	Article
2	Chuah L.F.; Mokhtar K.; Mhd Ruslan S.M.; Bakar A.A.; Abdullah M.A.; Osman N.H.; Bokhari A.; Mubashir M.; Show P.L.	Implementation of the energy efficiency existing ship index and carbon intensity indicator on domestic ship for marine environmental protection	Environmental Research	222	10.1016/j.envres.2023.115348	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147207165&doi=10.1016%2fj.envres.2023.115348&partnerID=40&md5=cdbc1eb2ab8851b5dde57903671988e	Article
3	Dilpazeer F.; Munir M.; Baloch M.Y.J.; Shafiq I.; Iqbal J.; Saeed M.; Abbas M.M.; Shafique S.; Aziz K.H.H.; Mustafa A.; Mahboob I.	A Comprehensive Review of the Latest Advancements in Controlling Arsenic Contaminants in Groundwater	Water (Switzerland)	15	10.3390/w15030478	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147796944&doi=10.3390%2fw15030478&partnerID=40&md5=96233e28988a50df7167da39f51bdf5	Review

4	Khalid M.T.; Anjum T.; Khan A.L.; Rehman F.; Aslam M.; Gilani M.A.; Akhtar F.H.; Lee M.; Chang I.S.; Yasin M.	Task-specific polymeric membranes to achieve high gas- liquid mass transfer	Chemosphere	313	10.1016/j.chemosphere.2022.137603	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144948402&doi=10.1016%2fj.chemosphere.2022.137603&partnerID=40&md5=b8e6b3bd53a993727bcdceb8ac4c53bd	Article
5	Sarwar B.; Khan A.U.; Aslam M.; Bokhari A.; Mubashir M.; Allothman A.A.; Ouladmane M.; Aldossari S.A.; Chai W.S.; Khoo K.S.	Comparative study of ZIF-8-materials for removal of hazardous compounds using physio-chemical remediation techniques	Environmental Research	220	10.1016/j.envres.2022.115168	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85146063313&doi=10.1016%2fj.envres.2022.115168&partnerID=40&md5=0d39735fea6129f252caa62d703e0df4	Article
6	Qamar O.A.; Jamil F.; Hussain M.; Bae S.; Inayat A.; Shah N.S.; Waris A.; Akhter P.; Kwon E.E.; Park Y.-K.	Advances in synthesis of TiO2 nanoparticles and their application to biodiesel production: A review	Chemical Engineering Journal	460	10.1016/j.ccej.2023.141734	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147872333&doi=10.1016%2fj.ccej.2023.141734&partnerID=40&md5=10e9aea837e3bba5d282eef604ac5b30	Review

7	Khan A.; Niazi M.B.K.; Ansar R.; Jahan Z.; Javaid F.; Ahmad R.; Anjum H.; Ibrahim M.; Bokhari A.	Thermochemical conversion of agricultural waste to hydrogen, methane, and biofuels: A review	Fuel	351	10.1016/j.fuel .2023.128947	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85162177771&doi=10.1016%2fj.fuel.2023.128947&partnerID=40&md5=838b79210ca6d476b6e4dd0e3f62298c	Article
8	Javed F.; Rashid N.; Fazal T.; Hafeez A.; Rehman F.	Integration of Real Industrial Wastewater Streams to Enhance Chlorella vulgaris Growth: Nutrient Sequestration and Biomass Production	Water, Air, and Soil Pollution	234	10.1007/s112 70-023-06066- 5	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149019162&doi=10.1007%2fs11270-023-06066-5&partnerID=40&md5=9622cfb59e89499f4364943a97516414	Article
9	Amir H.; Tamime R.; Shamair Z.; Khan A.L.; AlMohamadi H.; Nawaz R.	Enhanced gas separation performance of PIM- 1 blend membranes incorporating ionic liquid (3- (trimethoxysilyl) propan-1-aminium acetate ([APTMS][Ac])) as filler: Investigation of morphology, compatibility and transport properties	Fuel	349	10.1016/j.fuel .2023.128669	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164032085&doi=10.1016%2fj.fuel.2023.128669&partnerID=40&md5=e56c13aa1e574d40c65259d1a0054f7f	Article

10	Rashid R.; Mahboob I.; Shafique S.; Shafiq I.; Akhter P.; Park Y.-K.; Hussain M.	Exploring the environmental sustainability potential of the China-Pakistan economic corridor for Pakistan	Stochastic Environmental Research and Risk Assessment	37	10.1007/s00477-023-02474-5	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160265650&doi=10.1007%2fs00477-023-02474-5&partnerID=40&md5=d3d18268113873cfee1bd1e683c755db	Review
11	Ali F.; Mehmood S.; Ashraf A.; Saleem A.; Younas U.; Ahmad A.; Bhatti M.P.; Eldesoky G.E.; Aljuwayid A.M.; Habiba M.A.; Bokhari A.; Mubashir M.; Chuah L.F.; Chong J.W.R.; Show P.L.	Ag-Cu Embedded SDS Nanoparticles for Efficient Removal of Toxic Organic Dyes from Water Medium	Industrial and Engineering Chemistry Research	62	10.1021/acs.iecr.2c03460	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150452334&doi=10.1021%2facs.iecr.2c03460&partnerID=40&md5=42f426468197b3c04b19794b05cbd92b	Article
12	Hamayun M.H.; Ramzan N.; Faheem M.	Exergoeconomic analysis of an LNG integrated - air separation process	Korean Journal of Chemical Engineering	40	10.1007/s11814-023-1567-z	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174537150&doi=10.1007%2fs11814-023-1567-z&partnerID=40&md5=270ac6ef4dd8dde993e0e8688921d092	Article

13	Belousov A.S.; Parkhacheva A.A.; Suleimanov E.V.; Fukina D.G.; Koryagin A.V.; Shafiq I.; Krashennikova O.V.; Kuzmichev V.V.	Doping vs. heterojunction: A comparative study of the approaches for improving the photocatalytic activity of flower-like Bi ₂ WO ₆ for water treatment with domestic LED light	Catalysis Communications	180	10.1016/j.cattom.2023.106705	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161088295&doi=10.1016%2fj.cattom.2023.106705&partnerID=40&md5=9511e66d1607f1feb4fa14f910d39fd9	Article
14	Hasan A.O.; Al-Rawashdeh H.; Abu-jrai A.; Gomaa M.R.; Jamil F.	Impact of variable compression ratios on engine performance and unregulated HC emitted from a research single cylinder engine fueled with commercial gasoline	International Journal of Hydrogen Energy	48	10.1016/j.ijhydene.2022.09.025	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85139200020&doi=10.1016%2fj.ijhydene.2022.09.025&partnerID=40&md5=a4057fe8eed1b48f19c83d8a43a670d3	Article
15	Inayat A.; Jamil F.; Ahmed S.F.; Ayoub M.; Abdul P.M.; Aslam M.; Mofijur M.; Khan Z.; Mustafa A.	Thermal degradation characteristics, kinetic and thermodynamic analyses of date palm surface fibers at different heating rates	Fuel	335	10.1016/j.fuel.2022.127076	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143853965&doi=10.1016%2fj.fuel.2022.127076&partnerID=40&md5=eae8d0998ee735863dfc0655105ec0da	Article

16	Faisal A.; Javed F.; Hassan M.; Gorji M.R.; Akram S.; Rashid N.; Rehman F.	Experimental and mathematical nonlinear rheological characterization of chicken fat oil-a sustainable feedstock for biodiesel	Biomass Conversion and Biorefinery	13	10.1007/s13399-021-01613-8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107516604&doi=10.1007%2fs13399-021-01613-8&partnerID=40&md5=2abf95410ac718247881bb35b402be57	Article
17	Nisar A.; Tabassum S.; Ayub K.; Mahmood T.; AlMohamadi H.; Khan A.L.; Yasin M.; Nawaz R.; Gilani M.A.	Photoswitchable nonlinear optical properties of azobenzene-based supramolecular complexes: insights from density functional theory	Physical Chemistry Chemical Physics	25	10.1039/d3cp01498c	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85166227354&doi=10.1039%2fd3cp01498c&partnerID=40&md5=8e6779bcb2b84302f09292f52d1a2eca	Article
18	Aziz T.; Haq F.; Farid A.; Kiran M.; Faisal S.; Ullah A.; Ullah N.; Bokhari A.; Mubashir M.; Chuah L.F.; Show P.L.	Challenges associated with cellulose composite material: Facet engineering and prospective	Environmental Research	223	10.1016/j.envres.2023.115429	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147571332&doi=10.1016%2fj.envres.2023.115429&partnerID=40&md5=4a9752524a3bf44bf8e920a52565bcb7	Article

19	Zahmatkesh S.; Gholian-Jouybari F.; Klemeš J.J.; Bokhari A.; Hajiaghaci-Keshteli M.	Sustainable and optimized values for municipal wastewater: The removal of biological oxygen demand and chemical oxygen demand by various levels of granular activated carbon- and genetic algorithm-based simulation	Journal of Cleaner Production	417	10.1016/j.jclepro.2023.137932	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164213579&doi=10.1016%2fj.jclepro.2023.137932&partnerID=40&md5=2595ff493d87b058e1ceef3b116bfe9d	Article
20	Rehman F.; Parveen N.; Iqbal J.; Sayed M.; Shah N.S.; Ansar S.; Khan J.A.; Shah A.; Jamil F.; Boczka G.	Potential degradation of norfloxacin using UV-C/Fe ²⁺ /peroxides-based oxidative pathways	Journal of Photochemistry and Photobiology A: Chemistry	435	10.1016/j.jphotochem.2022.114305	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140735062&doi=10.1016%2fj.jphotochem.2022.114305&partnerID=40&md5=f76d1b560c5f65b7325a2dbb78e78268	Article
21	Iqbal M.S.; Aslam A.A.; Iftikhar R.; Junaid M.; Imran S.M.; Nazir M.S.; Ali Z.; Zafar M.; Kanwal A.; Othman N.K.; Pal U.; Pang A.L.; Ahmadipour M.	The potential of functionalized graphene-based composites for removing heavy metals and organic pollutants	Journal of Water Process Engineering	53	10.1016/j.jwpe.2023.103809	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159432427&doi=10.1016%2fj.jwpe.2023.103809&partnerID=40&md5=cfdb8e6f92899b051fc60341e1de9a7c	Review

22	Ahmad T.; Iqbal J.; Bustam M.A.; Babar M.; Tahir M.B.; Sagir M.; Irfan M.; Anwaar Asghar H.M.; Hassan A.; Riaz A.; Chuah L.F.; Bokhari A.; Mubashir M.; Show P.L.	Performance evaluation of phosphonium based deep eutectic solvents coated cerium oxide nanoparticles for CO2 capture	Environmental Research	222	10.1016/j.env res.2023.1153 14	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147225837&doi=10.1016%2fj.envres.2023.115314&partnerID=40&md5=acbfc14a2e58225cd567e645e868cab1	Article
23	Sarwar A.; Razzaq A.; Zafar M.; Idrees I.; Rehman F.; Kim W.Y.	Copper tungstate (CuWO4)/graphene quantum dots (GQDs) composite photocatalyst for enhanced degradation of phenol under visible light irradiation	Results in Physics	45	10.1016/j.rinp .2023.106253	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147651115&doi=10.1016%2fj.rinp.2023.106253&partnerID=40&md5=e442841791eb8abbea9c52fed260b7f1	Article
24	Amin N.; Aslam M.; khan Z.; Yasin M.; Hossain S.; Shahid M.K.; Inayat A.; Samir A.; Ahmad R.; Murshed M.N.; Khurram M.S.; El Sayed M.E.; Ghuri M.	Municipal solid waste treatment for bioenergy and resource production: Potential technologies, techno- economic- environmental aspects and implications of membrane-based recovery	Chemosphere	323	10.1016/j.che mosphere.202 3.138196	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149343797&doi=10.1016%2fj.chemosphere.2023.138196&partnerID=40&md5=35d41332cce6b494bf803960a614b29f	Article

25	Yaqoob J.; Tabassum S.; AlMohamadi H.; Mahmood T.; Ayub K.; Khan A.L.; Yasin M.; Gilani M.A.	Exploring the second-order polarizability of copper doped silicon carbide nanocluster: toward a new NLO material	Physica Scripta	98	10.1088/1402-4896/acecc3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85169294371&doi=10.1088%2f1402-4896%2facecc3&partnerID=40&md5=b1f26fa5e32b92737acdafaa75b2a7c1	Article
26	Ashfaq M.; Li Y.; Zubair M.; Ur Rehman M.S.; Sumrra S.H.; Nazar M.F.; Mustafa G.; Fazal M.T.; Ashraf H.; Sun Q.	Occurrence and risk evaluation of endocrine-disrupting chemicals in wastewater and surface water of Lahore, Pakistan	Environmental Geochemistry and Health	45	10.1007/s10653-023-01527-6	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150510450&doi=10.1007%2fs10653-023-01527-6&partnerID=40&md5=797de705cc60c9c84b6b4fb8176f4ac4	Article
27	Suri S.U.K.; Majeed M.K.; Ahmad M.S.	Simulation Analysis of Novel Integrated LNG Regasification-Organic Rankine Cycle and Anti-Sublimation Process to Generate Clean Energy	Energies	16	10.3390/en16062824	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151405822&doi=10.3390%2fen16062824&partnerID=40&md5=7370c65c66bfe3948dba4f469d04e4ac	Article

28	Zhang Y.; Shen B.; Sajjad Ahmad M.; Zhou W.; Khalid R.R.; Ibrahim M.; Bokhari A.	A three-dimensional active biochar for sintering in steel industry and remove methylene blue by synergistic activation of H ₃ PO ₄ and ZnCl ₂	Fuel	336	10.1016/j.fuel .2022.127079	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144077484&doi=10.1016%2fj.fuel.2022.127079&partnerID=40&md5=94d93cc47d8e19824d2498e99b7efbfd	Article
29	Mahboob I.; Shafique S.; Shafiq I.; Akhter P.; Belousov A.S.; Show P. L.; Park Y.- K.; Hussain M.	Mesoporous LaVO ₄ /MCM-48 nanocomposite with visible-light-driven photocatalytic degradation of phenol in wastewater	Environmental Research	218	10.1016/j.env res.2022.1149 83	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143121518&doi=10.1016%2fj.envres.2022.114983&partnerID=40&md5=e059f85ebe0106964ddafb067d5cb3bd	Article
30	Saif-ur- Rehman; Shozab Mehdi M.; Fakhar-e- Alam M.; Asif M.; Rehman J.; A. Alshgari R.; Jamal M.; Uz Zaman S.; Umar M.; Rafiq S.; Muhammad N.; Fawad J.B.; Shafice S.A.	Deep Eutectic Solvent Coated Cerium Oxide Nanoparticles Based Polysulfone Membrane to Mitigate Environmental Toxicology	Molecules	28	10.3390/mole cules2820716 2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85175070783&doi=10.3390%2fmolecules28207162&partnerID=40&md5=5843b234cbe780cddb770750c45c5	Article

31	Khalid A.; Zulfiqar S.; Rafique U.; Hamad H.; Bokhari A.; Asif S.	Harnessing the power of iron-alumina-based ionic liquid composites for simultaneous removal of Congo red dye and microplastics	Journal of Cleaner Production	429	10.1016/j.jclepro.2023.139602	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176398147&doi=10.1016%2fj.jclepro.2023.139602&partnerID=40&md5=1a83019841bca4bf838dcd2a860e149	Article
32	Kiannejad Amiri M.; Ghorbanzade Zaferani S.P.; Sarmasti Emami M.R.; Zahmatkesh S.; Pourhanasa R.; Sadeghi Namaghi S.; Klemeš J.J.; Bokhari A.; Hajiaghaci-Keshteli M.	Multi-objective optimization of thermophysical properties GO powders-DW/EG Nf by RSM, NSGA-II, ANN, MLP and ML	Energy	280	10.1016/j.energy.2023.128176	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163048824&doi=10.1016%2fj.energy.2023.128176&partnerID=40&md5=ccd48d58d67eb489c6be3bb4858983e9	Article
33	Jamil F.	A Review on Biodiesel Production, Analysis, and Emission Characteristics from Non-Edible Feedstocks	ChemistrySelect	8	10.1002/slct.202300800	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85168432087&doi=10.1002%2fslct.202300800&partnerID=40&md5=c69d54f8fc7d2cd339ba9462cdf26e6b	Review

34	Fatima A.; Daood S.S.; Inaam S.; Babar Z.B.; Ahmed A.; Zafar M.; Qaisrani T.M.; Razzaq A.; Rashid M.U.; Kim S.; Park Y.- K.	Investigation on the Beneficiation of Fluorite-ore using a mixture of Oleic acid and Palmitic acid via Froth Flotation	Environmental Engineering Research	28	10.4491/eer.2 022.123	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164101316&doi=10.4491%2fer.2022.123&partnerID=40&md5=d337d88452765ae5b511f79d4d3d791b	Article
35	Kim J.-Y.; Lee M.; Oh S.; Kang B.; Yasin M.; Chang I.S.	Acetogen and acetogenesis for biological syngas valorization	Bioresource Technology	384	10.1016/j.bior tech.2023.129 368	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163179975&doi=10.1016%2fj.biortech.2023.129368&partnerID=40&md5=7d0a50a3eaf08358942a86108b71d288	Review
36	Zaman S.U.; Mehdi M.S.; Umar M.; Rafiq S.; Saif- ur-Rehman; Zaman M.K.U.; Javed M.D.; Waseem M.A.; Tahir N.	Preparation of Ammonium Persulfate/Glycerol based Novel Deep Eutectic Solvent under controlled conditions; Characterizations, Physical properties	Journal of Molecular Structure	1283	10.1016/j.mol struc.2023.13 5265	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150779815&doi=10.1016%2fj.molstruc.2023.135265&partnerID=40&md5=ed62a05d2e862555f539bed0d0f049b0	Article

37	Bhavani P.; Praveen Kumar D.; Hussain M.; Chen W.-H.; Lam S.S.; Park Y.-K.	Surface ligand functionalized Few-layered MoSe ₂ nanosheets decorated CdS nanorods for spectacular rate of H ₂ production	Fuel	334	10.1016/j.fuel.2022.126551	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141498889&doi=10.1016%2fj.fuel.2022.126551&partnerID=40&md5=a4edbafe1c35c4a25ee97069eadf797d	Article
38	Tan X.; Shen Z.; Bokhari A.; Ali W.; Han N.	Effect of Co ₂ O ₃ as sintering aid on perovskite BaCe _{0.8} Y _{0.2} O _{3-δ} proton conductive membrane for hydrogen separation	International Journal of Hydrogen Energy	48	10.1016/j.ijhydene.2022.11.165	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147313983&doi=10.1016%2fj.ijhydene.2022.11.165&partnerID=40&md5=6976094aeecd21cf5f5ca71ce04cbe4b	Article
39	Cao Y.; Sun Y.; Han N.; Li X.; Wang Q.; Sun K.; Si W.; Wang F.; Zhao X.; Bokhari A.; Mubashir M.; Chuah L.F.; Show P.L.	Novel highly active and selective Co[sbnd]N[sbnd]S[sbnd]C efficient ORR catalyst derived from in-situ egg gel pyrolysis	Fuel	333	10.1016/j.fuel.2022.126432	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140455426&doi=10.1016%2fj.fuel.2022.126432&partnerID=40&md5=6fc455fc113329b7feec0194c97d3eb	Article

40	Riaz I.; Qamar O.A.; Jamil F.; Hussain M.; Inayat A.; Rocha- Meneses L.; Akhter P.; Musaddiq S.; Karim M.R.A.; Park Y.K.	Comparative study of enhanced catalytic properties of clay- derived SiO ₂ catalysts for biodiesel production from waste chicken fat	Korean Journal of Chemical Engineering	40	10.1007/s118 14-023-1467- 2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159642715&doi=10.1007%2fs11814-023-1467-2&partnerID=40&md5=106d4727c772ceeb136fcef770e916f4	Article
41	Hussain M.S.; Ahmed A.; Yibin L.; Amin M.N.; Zahoor T.; Saleem M.A.; Roh K.; Hussain M.; Abu Bakar M.S.; Park Y.K.	Optimization analysis of the absorption- stabilization process for fluid catalytic cracking unit	Korean Journal of Chemical Engineering	40	10.1007/s118 14-023-1411- 5	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159341616&doi=10.1007%2fs11814-023-1411-5&partnerID=40&md5=8c658d505acd68ab247759a11dfb0a0b	Article
42	Belousov A.S.; Shafiq I.	Heterogeneous photocatalysis for C–H bond activation	Journal of Environmental Chemical Engineering	11	10.1016/j.jece .2023.110970	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170427011&doi=10.1016%2fj.jece.2023.110970&partnerID=40&md5=e800c3d48997b6ae4a6b005fd7212f04	Review

43	Aslam A.A.; Hassan S.U.; Saeed M.H.; Kokab O.; Ali Z.; Nazir M.S.; Siddiqi W.; Aslam A.A.	Cellulose-based adsorbent materials for water remediation: Harnessing their potential in heavy metals and dyes removal	Journal of Cleaner Production	421	10.1016/j.jcle pro.2023.1385 55	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85172189980&doi=10.1016%2fj.jclepro.2023.138555&partnerID=40&md5=75f8d8ea2791aa70c0b64de470ce9ede	Review
44	Akhter P.; Bhatti T.Y.; Shafiq I.; Jamil F.; Nazar R.; Nazir M.S.; Hassan S.U.; Hussain M.; Park Y.K.	Antioxidant activity of sea buckthorn (Hippophae rhamnoides) seed oil extracted using various organic solvents	Korean Journal of Chemical Engineering	40	10.1007/s118 14-023-1453- 8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163785473&doi=10.1007%2fs11814-023-1453-8&partnerID=40&md5=c23d8d05c1ea59e91fc661ce7f0f4d12	Article
45	Hassan S.U.; Khalid H.; Shafique S.; Farid M.A.; Saeed M.H.; Ali Z.; Nazir M.S.; Hussain M.; Park Y.-K.	Investigating catalytic oxidative desulfurization of model fuel using hollow PW12/TiO2@MgCO 3 and performance optimization via box- behken design	Chemosphere	339	10.1016/j.che mosphere.202 3.139662	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85166657971&doi=10.1016%2fj.chemosphere.2023.139662&partnerID=40&md5=79174c181eee755049e118b250413826	Article

46	Tan X.; Shen Z.; Bokhari A.; Qyyum M.A.; Han N.	Insights on perovskite-type proton conductive membranes for hydrogen permeation	International Journal of Hydrogen Energy	48	10.1016/j.ijhydene.2022.08.244	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85138819397&doi=10.1016%2fijhydene.2022.08.244&partnerID=40&md5=bb1c3e28736c3ddcb973400069a24b22	Article
47	Bhavani P.; Praveen Kumar D.; Suk Yoo J.; Hussain M.; Weon S.; Kim W.; Park Y.-K.	Dual-Atomic-Site-Integrated photocatalysts for green energy synthesis	Chemical Engineering Journal	467	10.1016/j.ccej.2023.143429	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159208052&doi=10.1016%2fcej.2023.143429&partnerID=40&md5=64fcf24f83cb5cf6980776a49056fb96	Review
48	Waris A.; Sharif S.; Naz S.; Manzoor F.; Jamil F.; Hussain M.; Choi Y.J.; Park Y.-K.	Hepatotoxicity induced by metallic nanoparticles at the cellular level: A review	Environmental Engineering Research	28	10.4491/eer.2022.625	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159646742&doi=10.4491%2feer.2022.625&partnerID=40&md5=c0c41d32fe0583f7c291636c4acb5346	Review

49	Belousov A.S.; Parkhacheva A.A.; Suleimanov E.V.; Shafiq I.	Potential of Bi ₂ WO ₆ -based heterojunction photocatalysts for environmental remediation	Materials Today Chemistry	32	10.1016/j.mtcchem.2023.101633	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164228443&doi=10.1016%2fj.mtcchem.2023.101633&partnerID=40&md5=c85e1a4f4a0c34c3a14f042d4ac7ca15	Review
50	Qamar O.A.; Jamil F.; Hussain M.; Mustafa M.; Rehman R.U.; Inayat A.; Habib M.S.; Sajid M.	A review on Fe-based spin crossover complexes with synergetic conductive and fluorescent properties	Chemical Papers	77	10.1007/s11696-023-03017-6	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85167783875&doi=10.1007%2fs11696-023-03017-6&partnerID=40&md5=6da8b4cb982dc076b0eb7ac69f8ec0af	Review
51	Maaz M.; Aslam M.; Yasin M.; Khan A.L.; Mushtaq A.; Fazal T.; Aljuwayid A.M.; Habila M.A.; Kim J.	Macroalgal biochar synthesis and its implication on membrane fouling mitigation in fluidized bed membrane bioreactor for wastewater treatment	Chemosphere	324	10.1016/j.chemosphere.2023.138197	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149458913&doi=10.1016%2fj.chemosphere.2023.138197&partnerID=40&md5=d2b4b8f2cb0d6fec72bac152b5b0ef9	Article

52	Ali F.; Saleem A.; Batoool N.; Khan H.A.; Rehman R.; Mehboob R.; Akhter P.; Hussain M.	Adsorption and kinetic studies of chromium (VI) removal using Ag ₂ Cu ₂ O ₃ nanoparticles	Zeitschrift fur Physikalische Chemie	237	10.1515/zpch-2022-0158	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85153721031&doi=10.1515%2fzpch-2022-0158&partnerID=40&md5=d1f418caf6534d4e17fcc98d1edffad9	Article
53	Hassan S.U.; Shafique S.; Palvasha B.A.; Saeed M.H.; Raza Naqvi S.A.; Nadeem S.; Irfan S.; Akhter T.; Khan A.L.; Nazir M.S.; Hussain M.; Park Y.-K.	Photocatalytic degradation of industrial dye using hybrid filler impregnated polysulfone membrane and optimizing the catalytic performance using Box-Behnken design	Chemosphere	313	10.1016/j.chemosphere.2022.137418	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143356356&doi=10.1016%2fj.chemosphere.2022.137418&partnerID=40&md5=4d12cf8604a8db19537af346c15ce543	Article
54	Riaz A.; Qyyum M.A.; Hussain A.; Lee M.	Tapping the energy and exergy benefits of channeling liquid air energy system in the hydrogen liquefaction process	Journal of Energy Storage	72	10.1016/j.est.2023.108193	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165542885&doi=10.1016%2fj.est.2023.108193&partnerID=40&md5=219eb5429c65af3130ec63bdf1cdb673	Article

55	Yu Z.; Ahmad M.S.; Shen B.; Li Y.; Ibrahim M.; Bokhari A.; Klemeš J.J.	Activated waste cotton cellulose as renewable fuel and value-added chemicals: Thermokinetic analysis, coupled pyrolysis with gas chromatography and mass spectrometry	Energy	283	10.1016/j.energy.2023.128341	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165694530&doi=10.1016%2fj.energy.2023.128341&partnerID=40&md5=56c89c7e11cbfb15e21f829f4e438267	Article
56	Ameen M.; Zafar M.; Ramadan M.F.; Ahmad M.; Makhkamov T.; Bokhari A.; Mubashir M.; Chuah L.F.; Show P.L.	Conversion of novel non-edible Bischofia javanica seed oil into methyl ester via recyclable zirconia-based phytonanocatalyst: A circular bioeconomy approach for eco-sustenance	Environmental Technology and Innovation	30	10.1016/j.eti.2023.103101	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151528891&doi=10.1016%2fj.eti.2023.103101&partnerID=40&md5=1e015bd95b8be54073baba762bf20d33	Article
57	Muazzam R.; Hafeez A.; Uroos M.; Saeed M.; Rehman F.; Muhammad N.	Plasma-based ozonolysis of lignin waste materials for the production of value-added chemicals	Biomass Conversion and Biorefinery	13	10.1007/s13399-021-01707-3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109830523&doi=10.1007%2fs13399-021-01707-3&partnerID=40&md5=0eb73fbe5463d2df047205a3eb1532ac	Article

58	Ali Z.; Naz A.; Haq N.U.; Nazir A.; Munawar A.; Khan A.L.; Elqahtani Z.M.; Alwadai N.; Younas U.; Iqbal M.	Fabrication of novel Zn (II)-imidazole based mixed matrix membranes for heavy metal removals from drinking water	Zeitschrift fur Physikalische Chemie	237	10.1515/zpch-2023-0230	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160839753&doi=10.1515%2fzpch-2023-0230&partnerID=40&md5=f4e7d62623e460f3f2724832627b91f7	Article
59	Rozina; Ahmad M.; Zafar M.; Bokhari A.; Akhtar M.S.; Alshgari R.A.; Karami A.M.; Asif S.	Membrane reactor for production of biodiesel from nonedible seed oil of Trachyspermum ammi using heterogenous green nanocatalyst of manganese oxide	Chemosphere	322	10.1016/j.chemosphere.2023.138078	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148941732&doi=10.1016%2fj.chemosphere.2023.138078&partnerID=40&md5=f321e269b8928cf72ce40de68503ed29	Article
60	Shah A.Q.; Awais M.; Zafar M.; Ahmed A.; Mudassar M.; Muneer M.; Saif M.; Razzaq A.; Jang S.-H.; Kim S.; Park Y.	A comparative study of linear control strategies on the aerodynamics twin rotor system	Journal of Mechanical Science and Technology	37	10.1007/s12206-023-0746-5	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85166931872&doi=10.1007%2fs12206-023-0746-5&partnerID=40&md5=81357391dd5ac3f1a3e98978a0aba92f	Article

61	Aziz T.; Farid A.; Haq F.; Kiran M.; Ullah N.; Faisal S.; Ali A.; Khan F.U.; You S.; Bokhari A.; Mubashir M.; Chuah L.F.; Show P.L.	Role of silica-based porous cellulose nanocrystals in improving water absorption and mechanical properties	Environmental Research	222	10.1016/j.envres.2023.115253	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147115137&doi=10.1016%2fj.envres.2023.115253&partnerID=40&md5=fbc5b6f016dedff73205af56eb6f22de	Article
62	Shehzad A.; Arslan A.; Rehman F.; Quazi M.M.; Butt S.I.; Jamshaid M.	Corrosion behavior of copper, aluminium, and stainless steel 316L in chicken fat oil based biodiesel-diesel blends	Sustainable Energy Technologies and Assessments	56	10.1016/j.seta.2023.103089	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148325323&doi=10.1016%2fj.seta.2023.103089&partnerID=40&md5=744d8867075cf5deba178df24aa6730	Article
63	Shi T.; Xu C.; Dong W.; Zhou H.; Bokhari A.; Klemenš J.J.; Han N.	Research on energy management of hydrogen electric coupling system based on deep reinforcement learning	Energy	282	10.1016/j.energy.2023.128174	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165011665&doi=10.1016%2fj.energy.2023.128174&partnerID=40&md5=96552359e88c9585512394ccca6b98bb	Article

64	Memon M.H.; Abro Z.A.	Computational fluid dynamics-based PDMS-graphene triboelectric nanogenerator 'PG-TENG' blue energy harvester	Engineering Research Express	5	10.1088/2631-8695/acf980	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174819272&doi=10.1088%2f2631-8695%2facf980&partnerID=40&md5=329c810c6cc82a31f3bb49a6d4f1d602	Article
65	Hussain S.; Wadgama M.H.; Khan A.L.; Yasin M.; Akhtar F.H.	Upcycling Poly(ethylene terephthalate) by Fabricating Membranes for Desalination	ACS Sustainable Chemistry and Engineering	11	10.1021/acssuschemeng.2c05964	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85146129681&doi=10.1021%2facssuschemeng.2c05964&partnerID=40&md5=d3df10fe23984221bdaabf71ee6b9bf6	Article
66	Mushtaq S.; Jamil F.; Hussain M.; Inayat A.; Akhter P.; Majeed K.; Khurram M.S.; Aslam M.; Lee J.; Park Y.-K.	Unearthing the potential sustainability of cellulose and exploring its source, fate, and recovery	Environmental Engineering Research	28	10.4491/eer.2023.054	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163710353&doi=10.4491%2fer.2023.054&partnerID=40&md5=8ed83fe7cea1703fabcd420658d12541	Review

67	Saif-ul-Allah M.W.; Khan J.; Ahmed F.; Hussain A.; Gillani Z.; Bazmi A.A.; Khan A.U.	Convolutional neural network approach for reduction of nitrogen oxides emissions from pulverized coal-fired boiler in a power plant for sustainable environment	Computers and Chemical Engineering	176	10.1016/j.compchemeng.2023.108311	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160260727&doi=10.1016%2fj.compchemeng.2023.108311&partnerID=40&md5=4e43e7e67c012f304c3761011b0c1f1d	Article
68	Sarfaraz B.; Kazmi B.; Taqvi S.A.A.; Raza F.; Rashid R.; Siddiqui L.; Zehra S.F.; Bokhari A.; Jaromír Klemeš J.; Ouladsmane M.	Thermodynamic evaluation of mixed refrigerant selection in dual mixed refrigerant NG liquefaction process with respect to 3E's (Energy, Exergy, Economics)	Energy	283	10.1016/j.energy.2023.128409	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85166029580&doi=10.1016%2fj.energy.2023.128409&partnerID=40&md5=b4dbb00a7fc694c336bf79423da1b810	Article
69	Habib M.; Ullah S.; Khan F.; Rafiq M.I.; Salem Balobaid A.; Alshahrani T.; Muhammad Z.	Supercapacitor electrodes based on single crystal layered ZrX ₂ (X = S, Se) using chemical vapor transport method	Materials Science and Engineering: B	298	10.1016/j.mseb.2023.116904	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85172697915&doi=10.1016%2fj.mseb.2023.116904&partnerID=40&md5=ffc73fe44cf7e5464b7ebd766d0d1c3a	Article

70	Afsari K.; Sarmasti Emami M.R.; Zahmatkesh S.; Jaromír Klemeš J.; Bokhari A.	Optimizing the thermal performance of the thermosyphon heat pipe for energy saving with graphene oxide nanofluid	Energy	274	10.1016/j.energy.2023.127422	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151874218&doi=10.1016%2fj.energy.2023.127422&partnerID=40&md5=33482bbf11da7f3388fb940961715b23	Article
71	Ashraf F.; Ali A.; Park J.-H.; Kim J.; Park K.; Lim H.-J.	In-situ measurement of secondary aerosol formation potential using a flow reactor: Livestock agricultural area	Atmospheric Environment	301	10.1016/j.atmosenv.2023.119695	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150837283&doi=10.1016%2fj.atmosenv.2023.119695&partnerID=40&md5=5bddfc180de80172a1c63301f400b62f	Article
72	Suhail F.; Batool M.; Anjum T.; Shah A.T.; Tabassum S.; Khan A.L.; AlMohamadi H.; Najam M.; Gilani M.A.	Enhanced CO ₂ separation performance of polysulfone membranes via incorporation of pyrazole modified MCM-41 mesoporous silica as a nano-filler	Fuel	350	10.1016/j.fuel.2023.128840	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163377411&doi=10.1016%2fj.fuel.2023.128840&partnerID=40&md5=11c4b42ef2babb9542de86e3ec85bd1f	Article

73	Tariq A.R.; Sultan M.; Mahmud T.; Chotana G.A.; Dilshad M.R.; Khan A.L.; Imran M.; Tariq S.R.; Müller-Buschbau K.	Use of 1D [Pr(BTC)(H ₂ O) ₆] MOF as a Filler for Fabrication of Matrimid® based MMMs	Journal of the Chemical Society of Pakistan	45	10.52568/001245/JCSP/45.03.2023	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164373046&doi=10.52568%2f001245%2fJCSP%2f45.03.2023&partnerID=40&md5=0512ffe57fbc9b0fe54ee8eba9102397	Article
74	Abdul Rahim A.R.; Johari K.; Rabat N.E.; Hussain M.; Shezad N.; Park Y.-K.	Isothermal, kinetic, thermal, and economic characteristics of NaOH-modified charred–desiccated coconut waste as adsorbent for lead (II) in water phase	Journal of Industrial and Engineering Chemistry	127	10.1016/j.jiec.2023.07.003	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165156520&doi=10.1016%2fj.jiec.2023.07.003&partnerID=40&md5=aeece9136b86f6e0b58fd62ab03d45d6a	Article
75	Yaqoob J.; Tabassum S.; Mahmood T.; Ayub K.; Khan A.L.; Yasin M.; Nawaz R.; Gilani M.A.	A Rational Design of Alkali Metal-Doped Germanium Carbide Nanoclusters for High Nonlinear Optical Response and Ultraviolet Transparency	JOM	75	10.1007/s11837-023-06186-7	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174624398&doi=10.1007%2fs11837-023-06186-7&partnerID=40&md5=9f1b6c89fac5f5c1536d034d30c181a5	Article

76	Akhter P.; Nawaz S.; Shafiq I.; Nazir A.; Shafique S.; Jamil F.; Park Y.-K.; Hussain M.	Efficient visible light assisted photocatalysis using ZnO/TiO ₂ nanocomposites	Molecular Catalysis	535	10.1016/j.mcat.2022.112896	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144790982&doi=10.1016%2fmcat.2022.112896&partnerID=40&md5=abfd6d749474947a6991315df756247c	Article
77	Ahsan A.; Jamil F.; Rashad M.A.; Hussain M.; Inayat A.; Akhter P.; Al- Muhtaseb A.H.; Lin K.- Y.A.; Park Y.K.	Wastewater from the textile industry: Review of the technologies for wastewater treatment and reuse	Korean Journal of Chemical Engineering	40	10.1007/s11814-023-1475-2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164115803&doi=10.1007%2fs11814-023-1475-2&partnerID=40&md5=00b715a1a6f3f525269c9d17eec64fcd	Review
78	Inayat A.; Tariq R.; Khan Z.; Ghenai C.; Kamil M.; Jamil F.; Shanableh A.	A comprehensive review on advanced thermochemical processes for bio- hydrogen production via microwave and plasma technologies	Biomass Conversion and Biorefinery	13	10.1007/s13399-020-01175-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096480567&doi=10.1007%2fs13399-020-01175-1&partnerID=40&md5=cfeb9a339f55b9b1c79b63c780e5f636	Review

79	Dilpazeer F.; Munir M.; Baloch M.Y.J.; Shafiq I.; Iqbal J.; Saeed M.; Abbas M.M.; Shafique S.; Aziz K.H.H.; Mustafa A.; Mahboob I.	Correction to: A Comprehensive Review of the Latest Advancements in Controlling Arsenic Contaminants in Groundwater (Water, (2023), 15, 3, (478), 10.3390/w15030478)	Water (Switzerland)	15	10.3390/w15 091781	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159337267&doi=10.3390%2fw15091781&partnerID=40&md5=a0e6ec702b97bbd1eb60e4594599eeb5	Erratum
80	Abbasi S.; Zahmatkesh S.; Bokhari A.; Hajiaghaci- Keshteli M.	Designing a vaccine supply chain network considering environmental aspects	Journal of Cleaner Production	417	10.1016/j.jcle pro.2023.1379 35	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165226314&doi=10.1016%2fj.jclepro.2023.137935&partnerID=40&md5=be77c8811b8659a63d76fe66f2d567e3	Article
81	Hajiaghaci- Keshteli M.; Rahmanifar G.; Mohammadi M.; Gholian- Jouybari F.; Klemeš J.J.; Zahmatkesh S.; Bokhari A.; Fusco G.; Colombaroni C.	Designing a multi- period dynamic electric vehicle production-routing problem in a supply chain considering energy consumption	Journal of Cleaner Production	421	10.1016/j.jcle pro.2023.1384 71	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85169024606&doi=10.1016%2fj.jclepro.2023.138471&partnerID=40&md5=a73c483c324f968c6b545b3340682757	Article

82	Ameen I.; Iqbal S.; Hussain M.; Allothman A.A.; Algahtani H.A.; Mushab M.S.S.; Iqbal A.; Perveen S.; Musaddiq S.	Ag, Au and ZrO ₂ @reduced graphene oxide nanocomposites; Pd free catalysis of suzuki-miyaura coupling reactions	Materials Research Express	10	10.1088/2053- 1591/acce23	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85158037715&doi=10.1088%2f2053-1591%2facce23&partnerID=40&md5=b4e569b43183da7169c760550c8cfd90	Article
83	Mulk W.U.; Hassan Shah M.U.; Shah S.N.; Zhang Q.-J.; Khan A.L.; Sheikh M.; Younas M.; Rezakazemi M.	Enhancing CO ₂ separation from N ₂ mixtures using hydrophobic porous supports immobilized with tributyl- tetradecyl- phosphonium chloride [P44414][Cl]	Environmental Research	237	10.1016/j.env res.2023.1168 79	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85167818400&doi=10.1016%2fj.envres.2023.116879&partnerID=40&md5=69bd0d3bce85dec3b80de331f789d22c	Article
84	Istkhar T.; Hafeez A.; Javed F.; Fazal T.; Ahmad F.; Hussain A.; Zimmerman W.B.J.; Rehman F.	Intensification of esterification reaction microbubble mediated reactive distillation	Chemical Engineering and Processing - Process Intensification	191	10.1016/j.cep. 2023.109435	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161697180&doi=10.1016%2fj.cep.2023.109435&partnerID=40&md5=dedac659cdf18a4c2e635dee6d215a0	Article

85	Iqbal M.S.; Yao Z.-B.; Ruan Y.-K.; Ifthikhar R.; Hao L.-D.; Robertson A.W.; Imran S.M.; Sun Z.- Y.	Single-atom catalysts for electrochemical N ₂ reduction to NH ₃	Rare Metals	42	10.1007/s125 98-022-02215- 7	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85146741911&doi=10.1007%2fs12598-022-02215-7&partnerID=40&md5=c9157fd061d5f17d6f46042a23fac35	Review
86	Tehreem R.; Awais M.; Khursheed S.; Rehman F.; Hussain D.; Mok Y.S.; Siddiqui G.U.	Synthesis of efficient light harvesting Cr, N Co-doped TiO ₂ nanoparticles for enhanced visible light photocatalytic degradation of xanthene dyes; eosin yellow and rose bengal	Environmental Science and Pollution Research	30	10.1007/s113 56-023-28701- 8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165922911&doi=10.1007%2fs11356-023-28701-8&partnerID=40&md5=5c2ee5bd75ba8ada41503d91d56ce0e	Article
87	Rashidi A.R.; Azelee N.I.W.; Zaidel D.N.A.; Chuah L.F.; Bokhari A.; El Enshasy H.A.; Dailin D.J.	Unleashing the potential of xanthan: a comprehensive exploration of biosynthesis, production, and diverse applications	Bioprocess and Biosystems Engineering	46	10.1007/s004 49-023-02870- 9	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85152042227&doi=10.1007%2fs00449-023-02870-9&partnerID=40&md5=721926c321a136277c824fcbaa456157	Review

88	Ali Qamar O.; Jamil F.; Hussain M.; Al-Muhtaseb A.H.; Inayat A.; Waris A.; Akhter P.; Park Y.-K.	Feasibility-to-applications of value-added products from biomass: Current trends, challenges, and prospects	Chemical Engineering Journal	454	10.1016/j.ccej.2022.140240	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141750722&doi=10.1016%2fj.ccej.2022.140240&partnerID=40&md5=494e4f1c8b516beb2f712e3b7eda00c	Review
89	Maqbool M.A.; Khan J.; Hamayun M.H.; Ahmed F.; Hussain M.	Optimal retrofitting of MCH-Toluene dehydrogenation system: Energy and techno-economic analysis	Energy Conversion and Management	286	10.1016/j.enconman.2023.117049	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85153511255&doi=10.1016%2fj.enconman.2023.117049&partnerID=40&md5=0f977e272e98f145c6470414a53d0ad1	Article
90	Saleem A.; Farooq U.; Riaz A.; Ahmed F.; Hussain A.; Lee M.	Understanding the impact of reactive holdup on process intensification in the design of reactive distillation column	Chemical Engineering and Processing - Process Intensification	191	10.1016/j.ccep.2023.109440	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161280926&doi=10.1016%2fj.ccep.2023.109440&partnerID=40&md5=c189e0a1b7aa8fe14ba21cfb5b36f247	Article

91	Atabani A.E.; Mahmoud E.; Aslam M.; Naqvi S.R.; Juchelková D.; Bhatia S.K.; Badruddin I.A.; Khan T.M.Y.; Hoang A.T.; Palacky P.	Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery	Environment, Development and Sustainability	25	10.1007/s10668-022-02361-z	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129297737&doi=10.1007%2fs10668-022-02361-z&partnerID=40&md5=d85bf280b2a70c3b7ddf4d527c0e431b	Article
92	Klemeš J.J.; Foley A.; You F.; Aviso K.; Su R.; Bokhari A.	Sustainable energy integration within the circular economy	Renewable and Sustainable Energy Reviews	177	10.1016/j.rser.2022.113143	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149270993&doi=10.1016%2fj.rser.2022.113143&partnerID=40&md5=755be5a95c2e3e18265183e9822208d2	Editorial
93	Ahmad N.; Ahmad N.; Ahmed U.; Abdul Jameel A.G.; Amjad U.-E.-S.; Hussain M.; Arif M.M.	Production of fuel oil from elastomer rubber waste via methanothermal liquefaction	Fuel	338	10.1016/j.fuel.2022.127330	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145855989&doi=10.1016%2fj.fuel.2022.127330&partnerID=40&md5=b08cfe095a0692e5f4ac9e29998d7e78	Article

94	Alsaiani M.; Bokhari A.; Chuah L.F.; Mubashir M.; Harraz F.A.; Almohana A.I.; Show P.L.; Awasthi M.K.; Rizk M.A.	Synthesis of methyl esters from Hippophae rhamnoides via pilot scale hydrodynamic cavitation intensification reactor	Renewable Energy	205	10.1016/j.ren ene.2023.01.0 72	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85146827333&doi=10.1016%2fj.renene.2023.01.072&partnerID=40&md5=0ff227ed7608c0a40d4ec7d8de910dd3	Article
95	Riaz A.; Qyyum M.A.; Hussain A.; Lee M.	Significance of ortho- para hydrogen conversion in the performance of hydrogen liquefaction process	International Journal of Hydrogen Energy	48	10.1016/j.ijhy dene.2022.09. 022	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140754789&doi=10.1016%2fj.ijhydene.2022.09.022&partnerID=40&md5=ba25d305b158feda3efed563703c3808	Article
96	Arshad S.; Ahmad M.; Munir M.; Sultana S.; Zafar M.; Dawood S.; Rozina; Alghamdi A.M.; Asif S.; Bokhari A.; Mubashir M.; Chuah L.F.; Show P.L.	Assessing the potential of green CdO ₂ nano-catalyst for the synthesis of biodiesel using non- edible seed oil of Malabar Ebony	Fuel	333	10.1016/j.fuel .2022.126492	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140884787&doi=10.1016%2fj.fuel.2022.126492&partnerID=40&md5=10076ec242c193116e62d05884d6bd9b	Article

97	Batool M.; Abbas M.A.; Khan I.A.; Khan M.Z.; Saleem M.; Khan A.U.; Deen K.M.; Batool M.; Khan A.L.; Zhu S.; Ahmad N.M.	Response Surface Methodology Modeling Correlation of Polymer Composite Carbon Nanotubes/Chitosan Nanofiltration Membranes for Water Desalination	ACS ES and T Water	3	10.1021/acsestwater.3c00107	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85156238479&doi=10.1021%2facsestwater.3c00107&partnerID=40&md5=18944d680f110d10080657709fae242f	Article
98	Assareh E.; Riaz A.; Ahmadinejad M.; Hoseinzadeh S.; Abdehvand M.Z.; Keykhah S.; Jafarinejad T.; Moltames R.; Lee M.	Enhancing solar thermal collector systems for hot water production through machine learning-driven multi-objective optimization with phase change material (PCM)	Journal of Energy Storage	73	10.1016/j.est.2023.108990	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85171452054&doi=10.1016%2fj.est.2023.108990&partnerID=40&md5=f2c5f8544cf22cd1f966836f25f90362	Article
99	Asaad S.M.; Inayat A.; Jamil F.; Ghenai C.; Shanableh A.	Optimization of Biodiesel Production from Waste Cooking Oil Using a Green Catalyst Prepared from Glass Waste and Animal Bones	Energies	16	10.3390/en16052322	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149762090&doi=10.3390%2fen16052322&partnerID=40&md5=13a2bdf158c2375fdef94c96e2b773d9	Article

100	Shahid M.K.; Mainali B.; Rout P.R.; Lim J.W.; Aslam M.; Al- Rawajfeh A.E.; Choi Y.	A Review of Membrane-Based Desalination Systems Powered by Renewable Energy Sources	Water (Switzerland)	15	10.3390/w15 030534	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147794361&doi=10.3390%2fw15030534&partnerID=40&md5=9c6f8c89faa4ed7102629607f8c2ba8f	Review
101	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		10.1007/s118 37-023-06055- 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
102	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		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

103	Li X.; Liu G.; Zheng H.; Sun K.; Wan L.; Cao J.; Asif S.; Cao Y.; Si W.; Wang F.; Bokhari A.	Recent Advances on Heteroatom-Doped Porous Carbon—Based Electrocatalysts for Oxygen Reduction Reaction	Energies	16	10.3390/en16010128	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145653231&doi=10.3390%2fen16010128&partnerID=40&md5=ea98c1bace212532748c09e2fa674ed8	Review
104	Mahboob I.; Shafiq I.; Shafique S.; Akhter P.; Munir M.; Saeed M.; Nazir M.S.; Amjad U.-E.-S.; Jamil F.; Ahmad N.; Park Y.-K.; Hussain M.	Porous Ag ₃ VO ₄ /KIT-6 composite: Synthesis, characterization and enhanced photocatalytic performance for degradation of Congo Red	Chemosphere	311	10.1016/j.chemosphere.2022.137180	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141769793&doi=10.1016%2fj.chemosphere.2022.137180&partnerID=40&md5=25e5949a0c75addb9430373cda3ccd4a	Article
105	Younas M.; Shafique S.; Faisal A.; Hafeez A.; Javed F.; Mustafa M.; Rehman F.	Hydrogen Production through Water Vapors using Optimized Corona-DBD Hybrid Plasma Micro-Reactor	Fuel	331	10.1016/j.fuel.2022.125838	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137696946&doi=10.1016%2fj.fuel.2022.125838&partnerID=40&md5=b321c1ce694e6d9e9cb04f581c00c233	Article

106	Aziz T.; Haq F.; Farid A.; Cheng L.; Chuah L.F.; Bokhari A.; Mubashir M.; Tang D.Y.Y.; Show P.L.	Correction: The epoxy resin system: function and role of curing agents (Carbon Letters, (2023), 10.1007/s42823-023-00547-7)	Carbon Letters		10.1007/s42823-023-00620-1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85173981721&doi=10.1007%2f42823-023-00620-1&partnerID=40&md5=84352ad5c7fdc4f4fe98ad7acfb066e1	Erratum
107	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		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=42d90bd2a26ecee0753499f8fb05455e	Article
108	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		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

109	Iftekhhar H.; Umair M.; Hamdani S.T.A.; Imran S.M.; Nazir M.S.; Ali Z.	Effect of Hybrid Weave Patterns on the Mechanical Performance of Woven Fabrics	Journal of Natural Fibers	20	10.1080/1544 0478.2022.21 45411	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85142474439&doi=10.1080%2f15440478.2022.2145411&partnerID=40&md5=c2141fc2748df42d4dace77ea31956ed	Article
110	Ullah Z.; Kainat F.; Manzoor S.; Liaquat H.; Waheed A.; Akhtar S.; Rafiq I.; Jafri S.H.M.; Li H.; Razaq A.	Natural fibers and zinc hydroxystannate 3D microspheres based composite paper sheets for modern bendable energy storage application	Journal of Applied Polymer Science	140	10.1002/app. 53275	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141352253&doi=10.1002%2fapp.53275&partnerID=40&md5=d8a5630371c23dd7ac5450d15224ecd3	Article
111	Javed F.; Zimmerman W.B.; Fazal T.; Hafeez A.; Mustafa M.; Rashid N.; Rehman F.	Green synthesis of biodiesel from microalgae cultivated in industrial wastewater via microbubble induced esterification using bio-MOF-based heterogeneous catalyst	Chemical Engineering Research and Design	189	10.1016/j.che rd.2022.12.00 4	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143868753&doi=10.1016%2fj.cherd.2022.12.004&partnerID=40&md5=98d65293ee6b09f94e699890461a2051	Article

112	Oyewo A.T.; Oluwole O.O.; Ajide O.O.; Omoniyi T.E.; Kim H.; Choi Y.J.; Park Y.-K.; Hussain M.	Optimization of the Factors Influencing Biodegradation and Thermal Stability of Banana Pseudo Stem Fibers in Nigeria	Journal of Natural Fibers	20	10.1080/1544 0478.2023.21 81909	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149370844&doi=10.1080%2f15440478.2023.2181909&partnerID=40&md5=264e4a8641856411cf39b58956eef3d9	Article
113	Iqbal M.S.; Nazir M.S.; Ali Z.; Ifthikhar R.; Hussain M.; Imran S.M.	Reduced graphene oxide coated poly- methyl methacrylate beads based thermoplastic polyurethane nanocomposites for gas sensing applications	Polymer-Plastics Technology and Materials	62	10.1080/2574 0881.2022.21 50864	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144052755&doi=10.1080%2f25740881.2022.2150864&partnerID=40&md5=ebcb800a31859dd5c3ed3c34f53fc49	Article
114	Oyewo A.T.; Oluwole O.O.; Ajide O.O.; Omoniyi T.E.; Akhter P.; Hamayun M.H.; Kang B.S.; Park Y.- K.; Hussain M.	Physico-chemical, Thermal and Micro- structural Characterization of Four Common Banana Pseudo-Stem Fiber Cultivars in Nigeria	Journal of Natural Fibers	20	10.1080/1544 0478.2023.21 67031	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148460930&doi=10.1080%2f15440478.2023.2167031&partnerID=40&md5=60c12eb2873b0036ec29a6102bb463f1	Article

115	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		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
116	Nawaz S.; Jamil F.; Akhter P.; Hussain M.; Jang H.; Park Y.-K.	Valorization of lignocellulosic rice husk producing biosilica and biofuels—a review	JPhys Energy	5	10.1088/2515-7655/aca5b4	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144512768&doi=10.1088%2f2515-7655%2faca5b4&partnerID=40&md5=6de47cf117940fd0aa9179b26513d1e1	Review
117	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		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

118	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		10.1007/s109 73-023-12630- 2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176926799&doi=10.1007%2f10973-023-12630-2&partnerID=40&md5=83564db77da4cb5f34cd76bca75215df	Article
119	Jamil F.; Saleem M.; Ali Qamar O.; Khurram M.S.; Al- Muhtaseb A.H.; Inayat A.; Akhter P.; Hussain M.; Rafiq S.; Yim H.; Park Y.- K.	State-of-the-art catalysts for clean fuel (methyl esters) production—a comprehensive review	JPhys Energy	5	10.1088/2515- 7655/aca5b3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144507996&doi=10.1088%2f2515-7655%2faca5b3&partnerID=40&md5=4116ef0df004f93a1fe362d890d22e4f	Article
120	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		10.1007/s133 99-023-04076- 1	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150470631&doi=10.1007%2f13399-023-04076-1&partnerID=40&md5=b390effd3d129ac054dae2a23b0c0bf7	Article

121	Asaad S.M.; Inayat A.; Rocha- Meneses L.; Jamil F.; Ghenai C.; Shanableh A.	Prospective of Response Surface Methodology as an Optimization Tool for Biomass Gasification Process	Energies	16	10.3390/en16 010040	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145660206&doi=10.3390%2fen16010040&partnerID=40&md5=71382aeba6522b0aef93dcc2731dbfab	Review
122	Bhavani P.; Kumar D.P.; Hussain M.; Jeon K.-J.; Park Y.-K.	Recent advances in wide solar spectrum active W18O49-based photocatalysts for energy and environmental applications	Catalysis Reviews - Science and Engineering	65	10.1080/0161 4940.2022.20 38472	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129197522&doi=10.1080%2f01614940.2022.2038472&partnerID=40&md5=be15e64275eca9e7c73a997b4630452c	Article
123	Jamil F.; Shafiq I.; Sarwer A.; Ahmad M.; Akhter P.; Inayat A.; Shafique S.; Park Y.-K.; Hussain M.	A critical review on the effective utilization of geothermal energy	Energy and Environment		10.1177/0958 305X2311539 69	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148351482&doi=10.1177%2f0958305X231153969&partnerID=40&md5=8a4d4bd5b9598d65a6f6917d11715f8a	Review