

Majeda Khraisheh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

3,680
citations

32
h-index

58
g-index

118
ext. papers

4,617
ext. citations

5.1
avg. IF

6.05
L-index

#	Paper	IF	Citations
112	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. <i>Sustainability</i> , 2022 , 14, 499	3.6	2
111	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. <i>Sustainability</i> , 2022 , 14, 955	3.6	2
110	Humidification/Dehumidification (HDH) Desalination and Other Volume Reduction Techniques for Produced Water Treatment. <i>Water (Switzerland)</i> , 2022 , 14, 60	3	0
109	Recent Progress on Nanomaterial-Based Membranes for Water Treatment.. <i>Membranes</i> , 2021 , 11,	3.8	5
108	Sustainable Innovation in Membrane Technologies for Produced Water Treatment: Challenges and Limitations. <i>Sustainability</i> , 2021 , 13, 6759	3.6	3
107	A better understanding of seawater reverse osmosis brine: Characterizations, uses, and energy requirements. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100165	7.5	2
106	Innovative BPPO Anion Exchange Membranes Formulation Using Diffusion Dialysis-Enhanced Acid Regeneration System. <i>Membranes</i> , 2021 , 11,	3.8	2
105	Effective Separation of Prime Olefins from Gas Stream Using Anion Pillared Metal Organic Frameworks: Ideal Adsorbed Solution Theory Studies, Cyclic Application and Stability. <i>Catalysts</i> , 2021 , 11, 510	4	1
104	Sustainable boil-off gas utilization in liquefied natural gas production: Economic and environmental benefits. <i>Journal of Cleaner Production</i> , 2021 , 296, 126563	10.3	5
103	Removal of Toxic Elements and Microbial Contaminants from Groundwater Using Low-Cost Treatment Options. <i>Current Pollution Reports</i> , 2021 , 7, 300-324	7.6	8
102	A review on recent advances in CO ₂ separation using zeolite and zeolite-like materials as adsorbents and fillers in mixed matrix membranes (MMMs). <i>Chemical Engineering Journal Advances</i> , 2021 , 6, 100091	3.6	33
101	Thermochemical splitting of CO ₂ using solution combustion synthesized lanthanum/strontium/manganese perovskites. <i>Fuel</i> , 2021 , 285, 119154	7.1	4
100	Electrospun Al ₂ O ₃ hydrophobic functionalized membranes for heavy metal recovery using direct contact membrane distillation. <i>International Journal of Energy Research</i> , 2021 , 45, 8151-8167	4.5	16
99	Development of industrially viable geopolymers from treated petroleum fly ash. <i>Journal of Cleaner Production</i> , 2021 , 280, 124808	10.3	3
98	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO/Fe ₂ O ₃ Nano-catalysts: Characterization and Kinetic Behaviors. <i>Waste and Biomass Valorization</i> , 2021 , 12, 3075-3089	3.2	3
97	High Purity/Recovery Separation of Propylene from Propyne Using Anion Pillared Metal-Organic Framework: Application of Vacuum Swing Adsorption (VSA). <i>Energies</i> , 2021 , 14, 609	3.1	2
96	Polydopamine Functionalized Graphene Oxide as Membrane Nanofiller: Spectral and Structural Studies. <i>Membranes</i> , 2021 , 11,	3.8	15

95	Higher Acid Recovery Efficiency of Novel Functionalized Inorganic/Organic Composite Anion Exchange Membranes from Acidic Wastewater. <i>Membranes</i> , 2021 , 11,	3.8	5
94	Probing the effect of various water fractions on methane (CH ₄) hydrate phase equilibria and hydrate inhibition performance of amino acid L-proline. <i>Journal of Molecular Liquids</i> , 2021 , 333, 115888	6	0
93	Ionic liquids application for wastewater treatment and biofuel production: A mini review. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116421	6	8
92	Statistical optimization, soft computing prediction, mechanistic and empirical evaluation for fundamental appraisal of copper, lead and malachite green adsorption. <i>Journal of Industrial Information Integration</i> , 2021 , 23, 100219	7	7
91	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil-Water Separation Processes.. <i>Nanomaterials</i> , 2021 , 12,	5.4	3
90	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. <i>Desalination</i> , 2020 , 493, 114663	10.3	17
89	Graphene Oxide (GO) Based Coated Geopolymeric Membrane for Concentrating Orange Juice through Forward Osmosis. <i>International Journal of Fruit Science</i> , 2020 , 20, S636-S649	1.2	1
88	Design, optimization and economic analysis of a monoethylene glycol recovery process: salt precipitation and vacuum operation. <i>International Journal of Energy Research</i> , 2020 , 44, 12592-12601	4.5	0
87	Characterization of polysulfone/diisopropylamine 1-alkyl-3-methylimidazolium ionic liquid membranes: high pressure gas separation applications 2020 , 10, 795-808		8
86	Activated carbon-doped polystyrene fibers for direct contact membrane desalination. <i>Emergent Materials</i> , 2020 , 3, 807-814	3.5	7
85	Metal-Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33759-33764	9.5	9
84	Use of laser-induced break spectroscopy for the determination of major and trace elements in <i>Zanthoxylum armatum</i> . <i>Emergent Materials</i> , 2020 , 3, 625-636	3.5	2
83	Synthesis of graphene oxides particle of high oxidation degree using a modified Hummers method. <i>Ceramics International</i> , 2020 , 46, 23997-24007	5.1	63
82	A systematic approach for design and simulation of monoethylene glycol (MEG) recovery in oil and gas industry. <i>International Journal of Energy Research</i> , 2020 , 44, 12363-12375	4.5	2
81	Solid Sorbents as a Retrofit Technology for CO Removal from Natural Gas Under High Pressure and Temperature Conditions. <i>Scientific Reports</i> , 2020 , 10, 269	4.9	11
80	Use of nanoadvanced activated carbon, alumina and ferric adsorbents for humics removal from water: isotherm study. <i>Emergent Materials</i> , 2020 , 3, 841-856	3.5	0
79	Density-Functional Theory Investigation of Barite Scale Inhibition Using Phosphonate and Carboxyl-Based Inhibitors. <i>ACS Omega</i> , 2020 , 5, 33323-33328	3.9	3
78	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10398-10408	6.7	35

77	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). <i>Applied Surface Science</i> , 2020 , 506, 144924	6.7	94
76	Thermochemical splitting of CO ₂ using solution combustion synthesized LaMO ₃ (where, M=Co, Fe, Mn, Ni, Al, Cr, Sr). <i>Applied Surface Science</i> , 2020 , 509, 144908	6.7	2
75	An overview on trace CO removal by advanced physisorbent materials. <i>Journal of Environmental Management</i> , 2020 , 255, 109874	7.9	14
74	Effect of Membrane Fouling on Fertilizer-Drawn Forward Osmosis Desalination Performance. <i>Membranes</i> , 2020 , 10,	3.8	4
73	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO, CH ₄ , N ₂ , H ₂ or Mixtures of These Gases from Various Gas Streams. <i>Molecules</i> , 2020 , 25,	4.8	10
72	Single crystal structure, vibrational spectroscopy, gas sorption and antimicrobial properties of a new inorganic acidic diphosphates material (NH) ₂ Mg(HPO ₄) ₂ ·H ₂ O. <i>Scientific Reports</i> , 2020 , 10, 8909	4.9	3
71	Metal-Organic Frameworks as a Platform for CO ₂ Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO ₂ . <i>Catalysts</i> , 2020 , 10, 1293	4	17
70	A review of recent advances in water-gas shift catalysis for hydrogen production. <i>Emergent Materials</i> , 2020 , 3, 881-917	3.5	34
69	Removal of copper ions from aqueous solution using NaOH-treated rice husk. <i>Emergent Materials</i> , 2020 , 3, 857-870	3.5	10
68	<i>P. putida</i> as biosorbent for the remediation of cobalt and phenol from industrial waste wastewaters. <i>Environmental Technology and Innovation</i> , 2020 , 20, 101148	7	14
67	Hydrogeochemical characterization and quality evaluation of groundwater suitability for domestic and agricultural uses in the state of Qatar. <i>Groundwater for Sustainable Development</i> , 2020 , 11, 100467	6	13
66	Impact of ionic liquids on silver thermoplastic polyurethane composite membranes for propane/propylene separation. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 404-415	5.9	5
65	Modeling and simulation of fertilizer drawn forward osmosis process using Aspen Plus-MATLAB model. <i>Science of the Total Environment</i> , 2020 , 700, 134461	10.2	19
64	Doping amino acids with classical gas hydrate inhibitors to facilitate the hydrate inhibition effect at low dosages 2020 , 10, 783-794		8
63	Thermocatalytic splitting of CO ₂ using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , 2019 , 257, 115965	7.1	13
62	Investigating the effects of mixing ionic liquids on their density, decomposition temperature, and gas absorption. <i>Chemical Engineering Research and Design</i> , 2019 , 148, 251-259	5.5	7
61	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. <i>Chemosphere</i> , 2019 , 233, 234-244	8.4	23
60	Polymeric adsorbents for oil removal from water. <i>Chemosphere</i> , 2019 , 233, 809-817	8.4	27

59	Photocatalytic conversion of CO ₂ and H ₂ O to useful fuels by nanostructured composite catalysis. <i>Applied Surface Science</i> , 2019 , 483, 363-372	6.7	21
58	Harvesting of intact microalgae in single and sequential conditioning steps by chemical and biological based - flocculants: Effect on harvesting efficiency, water recovery and algal cell morphology. <i>Bioresource Technology</i> , 2019 , 281, 250-259	11	20
57	Intergraded wastewater treatment and carbon bio-fixation from flue gases using <i>Spirulina platensis</i> and mixed algal culture. <i>Chemical Engineering Research and Design</i> , 2019 , 124, 240-250	5.5	46
56	A decade of ceria based solar thermochemical H ₂ O/CO ₂ splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 34-60	6.7	76
55	Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). <i>Science of the Total Environment</i> , 2019 , 693, 133425	10.2	40
54	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. <i>Science of the Total Environment</i> , 2019 , 686, 90-96	10.2	12
53	Highly selective CO removal for one-step liquefied natural gas processing by physisorbents. <i>Chemical Communications</i> , 2019 , 55, 3219-3222	5.8	23
52	Adsorptive removal of mercury from water by adsorbents derived from date pits. <i>Scientific Reports</i> , 2019 , 9, 15327	4.9	52
51	Developing ANN-Kriging hybrid model based on process parameters for prediction of mean residence time distribution in twin-screw wet granulation. <i>Powder Technology</i> , 2019 , 343, 568-577	5.2	63
50	Energy efficiency of direct contact membrane distillation. <i>Desalination</i> , 2018 , 433, 56-67	10.3	80
49	Nanofibers of resorcinol-formaldehyde for effective adsorption of As (III) ions from mimicked effluents. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11729-11745	5.1	34
48	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , 2018 , 3, 1341-1346	0.7	1
47	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , 2018 , 172, 128-140	6.8	28
46	Cost-effective alkylammonium formate-based protic ionic liquids for methane hydrate inhibition. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 58, 59-68	4.6	16
45	A New 1:1 Drug-Drug Cocrystal of Theophylline and Aspirin: Discovery, Characterization, and Construction of Ternary Phase Diagrams. <i>Crystal Growth and Design</i> , 2018 , 18, 7526-7532	3.5	39
44	Toxicity evaluation of selected ionic liquid compounds on embryonic development of Zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 161, 17-24	7	23
43	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , 2017 , 2, 3365-3370	0.7	19
42	Catalytic Reduction of CO ₂ into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. <i>MRS Advances</i> , 2017 , 2, 3389-3395	0.7	

41	Kinetics of CO ₂ Adsorption/Desorption of Polyethyleneimine-Mesoporous Silica. <i>Chemical Engineering and Technology</i> , 2017 , 40, 1802-1809	2	11
40	Investigation of the performance of biocompatible gas hydrate inhibitors via combined experimental and DFT methods. <i>Journal of Chemical Thermodynamics</i> , 2017 , 111, 7-19	2.9	15
39	Adsorptive Removal of Arsenic and Mercury from Aqueous Solutions by Eucalyptus Leaves. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	31
38	Enhanced Adsorption of Selenium Ions from Aqueous Solution Using Iron Oxide Impregnated Carbon Nanotubes. <i>Bioinorganic Chemistry and Applications</i> , 2017 , 2017, 4323619	4.2	22
37	Impact of temperature and storage time on the migration of antimony from polyethylene terephthalate (PET) containers into bottled water in Qatar. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 631	3.1	4
36	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23416-23426	6.7	47
35	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. <i>Materials</i> , 2017 , 10,	3.5	17
34	High-pressure CO ₂ /N ₂ and CO ₂ /CH ₄ separation using dense polysulfone-supported ionic liquid membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 472-485	4.6	18
33	Experimental and DFT Approach on the Determination of Natural Gas Hydrate Equilibrium with the Use of Excess N ₂ and Choline Chloride Ionic Liquid as an Inhibitor. <i>Energy & Fuels</i> , 2016 , 30, 2821-2832	4.1	30
32	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. <i>RSC Advances</i> , 2016 , 6, 23827-23836	3.7	46
31	Gas Hydrate Prevention and Flow Assurance by Using Mixtures of Ionic Liquids and Synergent Compounds: Combined Kinetics and Thermodynamic Approach. <i>Energy & Fuels</i> , 2016 , 30, 3541-3548	4.1	44
30	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. <i>Desalination</i> , 2016 , 379, 172-181	10.3	35
29	Flocculation and viscoelastic behavior of industrial papermaking suspensions. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 448-455	2.8	8
28	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. <i>Separation and Purification Technology</i> , 2016 , 157, 141-161	8.3	743
27	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 034702	2.5	42
26	Membranes for CO ₂ Separation 2016 , 237-292		1
25	Reaction kinetics of carbon dioxide in aqueous blends of N-methyldiethanolamine and glycine using the stopped flow technique. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 186-195	4.6	12
24	Synoptic analysis of direct contact membrane distillation performance in Qatar: A case study. <i>Desalination</i> , 2015 , 360, 97-107	10.3	28

23	Photocatalytic disinfection of Escherichia coli using TiO ₂ P25 and Cu-doped TiO ₂ . <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 28, 369-376	6.3	45
22	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO ₂ capture via experimental and molecular simulation approaches. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20941-60	3.6	92
21	Visible light-driven metal-oxide photocatalytic CO ₂ conversion. <i>International Journal of Energy Research</i> , 2015 , 39, 1142-1152	4.5	23
20	Photocatalytic removal of phenol from refinery wastewater: Catalytic activity of Cu-doped titanium dioxide. <i>Journal of Water Process Engineering</i> , 2015 , 8, 82-90	6.7	15
19	Role of ultrasound in the management of diabetes in pregnancy. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2015 , 28, 1856-63	2	9
18	Enhancing Liquid-Phase Olefin/Paraffin Separations Using Novel Silver-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 28-36	2.8	19
17	Removal of pharmaceutical and personal care products (PPCPs) pollutants from water by novel TiO ₂ /Coconut Shell Powder (TCNSP) composite. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 979-987	6.3	41
16	Effect of operational parameters on distillate flux in direct contact membrane distillation (DCMD): Comparison between experimental and model predicted performance. <i>Desalination</i> , 2014 , 336, 110-120 ^{10.3}	7.4	74
15	Earth-abundant oxygen evolution catalysts coupled onto ZnO nanowire arrays for efficient photoelectrochemical water cleavage. <i>Chemistry - A European Journal</i> , 2014 , 20, 12954-61	4.8	54
14	Photocatalytic reduction of CO ₂ and protons using water as an electron donor over potassium tantalate nanoflakes. <i>Nanoscale</i> , 2014 , 6, 9767-73	7.7	65
13	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17855-17868	3.9	139
12	A critical review of CO ₂ photoconversion: Catalysts and reactors. <i>Catalysis Today</i> , 2014 , 224, 3-12	5.3	474
11	Use of water in aiding olefin/paraffin (liquid+liquid) extraction via complexation with a silver bis(trifluoromethylsulfonyl)imide salt. <i>Journal of Chemical Thermodynamics</i> , 2014 , 77, 230-240	2.9	5
10	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16774-16785	3.9	52
9	Structural and magnetic properties of Ni _{1-x} Zn _x Fe ₂ O ₄ (x=0, 0.5 and 1) nanopowders prepared by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 348, 44-50	2.8	64
8	High pressure CO ₂ absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , 2013 , 351, 74-86	2.5	46
7	Integrating ethics into the chemical engineering curriculum: The Qatar University experience 2013 ,		3
6	Removal of Carbamazepine From Water by a Novel TiO-Coconut Shell Powder/UV Process: Composite Preparation and Photocatalytic Activity. <i>Environmental Engineering Science</i> , 2013 , 30, 515-526 ²		17

5	Study on hydroxylammonium-based ionic liquids. I. Characterization. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12473-86	3-4	42
4	Study on hydroxylammonium-based ionic liquids. II. Computational analysis of CO ₂ absorption. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12487-98	3-4	34
3	Kinetics of Humics Removal from Water and Wastewater Using Granular Activated Carbon, Iron-Coated Activated Alumina, and Beta Ferric Oxihydroxide. <i>Environmental Engineering Science</i> , 2010 , 27, 387-395	2	1
2	Removal of Humic Substances from Drinking Water Using GAC and Iron-Coated Adsorbents: Consideration of Two Kinetic Models and the Influence of Mixing. <i>Environmental Engineering Science</i> , 2009 , 26, 235-244	2	7
1	Synthesis and characterization of stable anion exchange membranes for desalination applications113, 36-44		4