Majeda Khraisheh

List of Publications by Citations

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	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. *Separation and Purification Technology*, **2016**, 157, 141-161	8.3	743
111	A critical review of CO2 photoconversion: Catalysts and reactors. *Catalysis Today*, **2014**, 224, 3-12	5.3	474
110	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2014**, 53, 17855-17868	3.9	139
109	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). *Applied Surface Science*, **2020**, 506, 144924	6.7	94
108	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO2 capture via experimental and molecular simulation approaches. *Physical Chemistry Chemical Physics*, **2015**, 17, 20941-60	3.6	92
107	Energy efficiency of direct contact membrane distillation. *Desalination*, **2018**, 433, 56-67	10.3	80
106	A decade of ceria based solar thermochemical H2O/CO2 splitting cycle. *International Journal of Hydrogen Energy*, **2019**, 44, 34-60	6.7	76
105	Effect of operational parameters on distillate flux in direct contact membrane distillation (DCMD): Comparison between experimental and model predicted performance. *Desalination*, **2014**, 336, 110-120	10.3	74
104	Photocatalytic reduction of CO2 and protons using water as an electron donor over potassium tantalate nanoflakes. *Nanoscale*, **2014**, 6, 9767-73	7.7	65
103	Structural and magnetic properties of Ni1−xZnxFe2O4 (x=0, 0.5 and 1) nanopowders prepared by sol–gel method. *Journal of Magnetism and Magnetic Materials*, **2013**, 348, 44-50	2.8	64
102	Synthesis of graphene oxides particle of high oxidation degree using a modified Hummers method. *Ceramics International*, **2020**, 46, 23997-24007	5.1	63
101	Developing ANN-Kriging hybrid model based on process parameters for prediction of mean residence time distribution in twin-screw wet granulation. *Powder Technology*, **2019**, 343, 568-577	5.2	63
100	Earth-abundant oxygen evolution catalysts coupled onto ZnO nanowire arrays for efficient photoelectrochemical water cleavage. *Chemistry - A European Journal*, **2014**, 20, 12954-61	4.8	54
99	Viscous Behavior of Imidazolium-Based Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16774-16785	3.9	52
98	Adsorptive removal of mercury from water by adsorbents derived from date pits. *Scientific Reports*, **2019**, 9, 15327	4.9	52
97	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. *International Journal of Hydrogen Energy*, **2017**, 42, 23416-23426	6.7	47
96	Intergraded wastewater treatment and carbon bio-fixation from flue gases using Spirulina platensis and mixed algal culture. *Chemical Engineering Research and Design*, **2019**, 124, 240-250	5.5	46

95	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. *RSC Advances*, **2016**, 6, 23827-23836	3.7	46
94	High pressure CO2 absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. *Fluid Phase Equilibria*, **2013**, 351, 74-86	2.5	46
93	Photocatalytic disinfection of Escherichia coli using TiO2 P25 and Cu-doped TiO2. *Journal of Industrial and Engineering Chemistry*, **2015**, 28, 369-376	6.3	45
92	Gas Hydrate Prevention and Flow Assurance by Using Mixtures of Ionic Liquids and Synergent Compounds: Combined Kinetics and Thermodynamic Approach. *Energy & Fuels*, **2016**, 30, 3541-3548	4.1	44
91	Study on hydroxylammonium-based ionic liquids. I. Characterization. *Journal of Physical Chemistry B*, **2011**, 115, 12473-86	3.4	42
90	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 034702	2.5	42
89	Removal of pharmaceutical and personal care products (PPCPs) pollutants from water by novel TiO2/Coconut Shell Powder (TCNSP) composite. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 979-987	6.3	41
88	Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). *Science of the Total Environment*, **2019**, 693, 133425	10.2	40
87	A New 1:1 Drug-Drug Cocrystal of Theophylline and Aspirin: Discovery, Characterization, and Construction of Ternary Phase Diagrams. *Crystal Growth and Design*, **2018**, 18, 7526-7532	3.5	39
86	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. *Desalination*, **2016**, 379, 172-181	10.3	35
85	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. *International Journal of Hydrogen Energy*, **2020**, 45, 10398-10408	6.7	35
84	Nanofibers of resorcinol-formaldehyde for effective adsorption of As (III) ions from mimicked effluents. *Environmental Science and Pollution Research*, **2018**, 25, 11729-11745	5.1	34
83	Study on hydroxylammonium-based ionic liquids. II. Computational analysis of CO2 absorption. *Journal of Physical Chemistry B*, **2011**, 115, 12487-98	3.4	34
82	A review of recent advances in water-gas shift catalysis for hydrogen production. *Emergent Materials*, **2020**, 3, 881-917	3.5	34
81	A review on recent advances in CO2 separation using zeolite and zeolite-like materials as adsorbents and fillers in mixed matrix membranes (MMMs). *Chemical Engineering Journal Advances*, **2021**, 6, 100091	3.6	33
80	Adsorptive Removal of Arsenic and Mercury from Aqueous Solutions by Eucalyptus Leaves. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	31
79	Experimental and DFT Approach on the Determination of Natural Gas Hydrate Equilibrium with the Use of Excess N2 and Choline Chloride Ionic Liquid as an Inhibitor. *Energy & Fuels*, **2016**, 30, 2821-2832	4.1	30
78	Synoptic analysis of direct contact membrane distillation performance in Qatar: A case study. *Desalination*, **2015**, 360, 97-107	10.3	28

77	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. *Solar Energy*, **2018**, 172, 128-140	6.8	28
76	Polymeric adsorbents for oil removal from water. *Chemosphere*, **2019**, 233, 809-817	8.4	27
75	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. *Chemosphere*, **2019**, 233, 234-244	8.4	23
74	Visible light-driven metal-oxide photocatalytic CO2 conversion. *International Journal of Energy Research*, **2015**, 39, 1142-1152	4.5	23
73	Highly selective CO removal for one-step liquefied natural gas processing by physisorbents. *Chemical Communications*, **2019**, 55, 3219-3222	5.8	23
72	Toxicity evaluation of selected ionic liquid compounds on embryonic development of Zebrafish. *Ecotoxicology and Environmental Safety*, **2018**, 161, 17-24	7	23
71	Enhanced Adsorption of Selenium Ions from Aqueous Solution Using Iron Oxide Impregnated Carbon Nanotubes. *Bioinorganic Chemistry and Applications*, **2017**, 2017, 4323619	4.2	22
70	Photocatalytic conversion of CO2 and H2O to useful fuels by nanostructured composite catalysis. *Applied Surface Science*, **2019**, 483, 363-372	6.7	21
69	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. *Bioresource Technology*, **2019**, 281, 250-259	11	20
68	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. *MRS Advances*, **2017**, 2, 3365-3370	0.7	19
67	Enhancing Liquid-Phase Olefin/Paraffin Separations Using Novel Silver-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2015**, 60, 28-36	2.8	19
66	Modeling and simulation of fertilizer drawn forward osmosis process using Aspen Plus-MATLAB model. *Science of the Total Environment*, **2020**, 700, 134461	10.2	19
65	High-pressure CO2/N2 and CO2/CH4 separation using dense polysulfone-supported ionic liquid membranes. *Journal of Natural Gas Science and Engineering*, **2016**, 36, 472-485	4.6	18
64	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. *Desalination*, **2020**, 493, 114663	10.3	17
63	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. *Materials*, **2017**, 10,	3.5	17
62	Removal of Carbamazepine from Water by a Novel TiO-Coconut Shell Powder/UV Process: Composite Preparation and Photocatalytic Activity. *Environmental Engineering Science*, **2013**, 30, 515-526	2	17
61	Metal-Organic Frameworks as a Platform for CO2 Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO2. *Catalysts*, **2020**, 10, 1293	4	17
60	Cost-effective alkylammonium formate-based protic ionic liquids for methane hydrate inhibition. *Journal of Natural Gas Science and Engineering*, **2018**, 58, 59-68	4.6	16

59	Electrospun Al2O3 hydrophobic functionalized membranes for heavy metal recovery using direct contact membrane distillation. *International Journal of Energy Research*, **2021**, 45, 8151-8167	4.5	16
58	Investigation of the performance of biocompatible gas hydrate inhibitors via combined experimental and DFT methods. *Journal of Chemical Thermodynamics*, **2017**, 111, 7-19	2.9	15
57	Photocatalytic removal of phenol from refinery wastewater: Catalytic activity of Cu-doped titanium dioxide. *Journal of Water Process Engineering*, **2015**, 8, 82-90	6.7	15
56	Polydopamine Functionalized Graphene Oxide as Membrane Nanofiller: Spectral and Structural Studies. *Membranes*, **2021**, 11,	3.8	15
55	An overview on trace CO removal by advanced physisorbent materials. *Journal of Environmental Management*, **2020**, 255, 109874	7.9	14
54	P. putida as biosorbent for the remediation of cobalt and phenol from industrial waste wastewaters. *Environmental Technology and Innovation*, **2020**, 20, 101148	7	14
53	Thermocatalytic splitting of CO2 using sol-gel synthesized Co-ferrite redox materials. *Fuel*, **2019**, 257, 115965	7.1	13
52	Hydrogeochemical characterization and quality evaluation of groundwater suitability for domestic and agricultural uses in the state of Qatar. *Groundwater for Sustainable Development*, **2020**, 11, 100467	6	13
51	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. *Science of the Total Environment*, **2019**, 686, 90-96	10.2	12
50	Reaction kinetics of carbon dioxide in aqueous blends of N-methyldiethanolamine and glycine using the stopped flow technique. *Journal of Natural Gas Science and Engineering*, **2016**, 33, 186-195	4.6	12
49	Kinetics of CO2 Adsorption/Desorption of Polyethyleneimine-Mesoporous Silica. *Chemical Engineering and Technology*, **2017**, 40, 1802-1809	2	11
48	Solid Sorbents as a Retrofit Technology for CO Removal from Natural Gas Under High Pressure and Temperature Conditions. *Scientific Reports*, **2020**, 10, 269	4.9	11
47	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO, CH, N, H or Mixtures of These Gases from Various Gas Streams. *Molecules*, **2020**, 25,	4.8	10
46	Removal of copper ions from aqueous solution using NaOH-treated rice husk. *Emergent Materials*, **2020**, 3, 857-870	3.5	10
45	Metal-Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 33759-33764	9.5	9
44	Role of ultrasound in the management of diabetes in pregnancy. *Journal of Maternal-Fetal and Neonatal Medicine*, **2015**, 28, 1856-63	2	9
43	Characterization of polysulfone/diisopropylamine 1-alkyl-3-methylimidazolium ionic liquid membranes: high pressure gas separation applications **2020**, 10, 795-808		8
42	Flocculation and viscoelastic behavior of industrial papermaking suspensions. *Korean Journal of Chemical Engineering*, **2016**, 33, 448-455	2.8	8

41	Removal of Toxic Elements and Microbial Contaminants from Groundwater Using Low-Cost Treatment Options. *Current Pollution Reports*, **2021**, 7, 300-324	7.6	8
40	Ionic liquids application for wastewater treatment and biofuel production: A mini review. *Journal of Molecular Liquids*, **2021**, 337, 116421	6	8
39	Doping amino acids with classical gas hydrate inhibitors to facilitate the hydrate inhibition effect at low dosages **2020**, 10, 783-794		8
38	Investigating the effects of mixing ionic liquids on their density, decomposition temperature, and gas absorption. *Chemical Engineering Research and Design*, **2019**, 148, 251-259	5.5	7
37	Activated carbon-doped polystyrene fibers for direct contact membrane desalination. *Emergent Materials*, **2020**, 3, 807-814	3.5	7
36	Removal of Humic Substances from Drinking Water Using GAC and Iron-Coated Adsorbents: Consideration of Two Kinetic Models and the Influence of Mixing. *Environmental Engineering Science*, **2009**, 26, 235-244	2	7
35	Statistical optimization, soft computing prediction, mechanistic and empirical evaluation for fundamental appraisal of copper, lead and malachite green adsorption. *Journal of Industrial Information Integration*, **2021**, 23, 100219	7	7
34	Use of water in aiding olefin/paraffin (liquid+liquid) extraction via complexation with a silver bis(trifluoromethylsulfonyl)imide salt. *Journal of Chemical Thermodynamics*, **2014**, 77, 230-240	2.9	5
33	Recent Progress on Nanomaterial-Based Membranes for Water Treatment.. *Membranes*, **2021**, 11,	3.8	5
32	Sustainable boil-off gas utilization in liquefied natural gas production: Economic and environmental benefits. *Journal of Cleaner Production*, **2021**, 296, 126563	10.3	5
31	Impact of ionic liquids on silver thermoplastic polyurethane composite membranes for propane/propylene separation. *Arabian Journal of Chemistry*, **2020**, 13, 404-415	5.9	5
30	Higher Acid Recovery Efficiency of Novel Functionalized Inorganic/Organic Composite Anion Exchange Membranes from Acidic Wastewater. *Membranes*, **2021**, 11,	3.8	5
29	Impact of temperature and storage time on the migration of antimony from polyethylene terephthalate (PET) containers into bottled water in Qatar. *Environmental Monitoring and Assessment*, **2017**, 189, 631	3.1	4
28	Synthesis and characterization of stable anion exchange membranes for desalination applications113, 36-44		4
27	Effect of Membrane Fouling on Fertilizer-Drawn Forward Osmosis Desalination Performance. *Membranes*, **2020**, 10,	3.8	4
26	Thermochemical splitting of CO2 using solution combustion synthesized lanthanum□trontium□hanganese perovskites. *Fuel*, **2021**, 285, 119154	7.1	4
25	Integrating ethics into the chemical engineering curriculum: The Qatar University experience **2013**,		3
24	Sustainable Innovation in Membrane Technologies for Produced Water Treatment: Challenges and Limitations. *Sustainability*, **2021**, 13, 6759	3.6	3

23	Density-Functional Theory Investigation of Barite Scale Inhibition Using Phosphonate and Carboxyl-Based Inhibitors. *ACS Omega*, **2020**, 5, 33323-33328	3.9	3
22	Single crystal structure, vibrational spectroscopy, gas sorption and antimicrobial properties of a new inorganic acidic diphosphates material (NH)Mg(HPO)HO. *Scientific Reports*, **2020**, 10, 8909	4.9	3
21	Development of industrially viable geopolymers from treated petroleum fly ash. *Journal of Cleaner Production*, **2021**, 280, 124808	10.3	3
20	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil-Water Separation Processes.. *Nanomaterials*, **2021**, 12,	5.4	3
19	Use of laser-induced break spectroscopy for the determination of major and trace elements in Zanthoxylum armatum. *Emergent Materials*, **2020**, 3, 625-636	3.5	2
18	A systematic approach for design and simulation of monoethylene glycol (MEG) recovery in oil and gas industry. *International Journal of Energy Research*, **2020**, 44, 12363-12375	4.5	2
17	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. *Sustainability*, **2022**, 14, 499	3.6	2
16	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. *Sustainability*, **2022**, 14, 955	3.6	2
15	A better understanding of seawater reverse osmosis brine: Characterizations, uses, and energy requirements. *Case Studies in Chemical and Environmental Engineering*, **2021**, 4, 100165	7.5	2
14	Thermochemical splitting of CO2 using solution combustion synthesized LaMO3 (where, M Co, Fe, Mn, Ni, Al, Cr, Sr). *Applied Surface Science*, **2020**, 509, 144908	6.7	2
13	Innovative BPPO Anion Exchange Membranes Formulation Using Diffusion Dialysis-Enhanced Acid Regeneration System. *Membranes*, **2021**, 11,	3.8	2
12	High Purity/Recovery Separation of Propylene from Propyne Using Anion Pillared Metal-Organic Framework: Application of Vacuum Swing Adsorption (VSA). *Energies*, **2021**, 14, 609	3.1	2
11	Graphene Oxide (GO) Based Coated Geopolymeric Membrane for Concentrating Orange Juice through Forward Osmosis. *International Journal of Fruit Science*, **2020**, 20, S636-S649	1.2	1
10	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. *MRS Advances*, **2018**, 3, 1341-1346	0.7	1
9	Kinetics of Humics Removal from Water and Wastewater Using Granular Activated Carbon, Iron-Coated Activated Alumina, and Beta Ferric Oxihydroxide. *Environmental Engineering Science*, **2010**, 27, 387-395	2	1
8	Effective Separation of Prime Olefins from Gas Stream Using Anion Pillared Metal Organic Frameworks: Ideal Adsorbed Solution Theory Studies, Cyclic Application and Stability. *Catalysts*, **2021**, 11, 510	4	1
7	Membranes for CO2 Separation **2016**, 237-292		1
6	Design, optimization and economic analysis of a monoethylene glycol recovery process: salt precipitation and vacuum operation. *International Journal of Energy Research*, **2020**, 44, 12592-12601	4.5	0

5	Use of nanoadvanced activated carbon, alumina and ferric adsorbents for humics removal from water: isotherm study. *Emergent Materials*, **2020**, 3, 841-856	3.5	0
4	Probing the effect of various water fractions on methane (CH4) hydrate phase equilibria and hydrate inhibition performance of amino acid L-proline. *Journal of Molecular Liquids*, **2021**, 333, 115888	6	0
3	HumidificationDehumidification (HDH) Desalination and Other Volume Reduction Techniques for Produced Water Treatment. *Water (Switzerland)*, **2022**, 14, 60	3	0
2	Catalytic Reduction of CO2 into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. *MRS Advances*, **2017**, 2, 3389-3395	0.7	
1	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiOTiO2 Nano-catalysts: Characterization and Kinetic Behaviors. *Waste and Biomass Valorization*, **2021**, 12, 3075-3089	3.2	