

Majeda Khraisheh

List of Publications by Year in descending order

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117
papers

5,621
citations

94269

37
h-index

85405

71
g-index

118
all docs

118
docs citations

118
times ranked

6951
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. Separation and Purification Technology, 2016, 157, 141-161.	3.9	977
2	A critical review of CO ₂ photoconversion: Catalysts and reactors. Catalysis Today, 2014, 224, 3-12.	2.2	581
3	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). Applied Surface Science, 2020, 506, 144924.	3.1	179
4	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 17855-17868.	1.8	171
5	Synthesis of graphene oxides particle of high oxidation degree using a modified Hummers method. Ceramics International, 2020, 46, 23997-24007.	2.3	143
6	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO ₂ capture via experimental and molecular simulation approaches. Physical Chemistry Chemical Physics, 2015, 17, 20941-20960.	1.3	133
7	A decade of ceria based solar thermochemical H ₂ O/CO ₂ splitting cycle. International Journal of Hydrogen Energy, 2019, 44, 34-60.	3.8	126
8	Energy efficiency of direct contact membrane distillation. Desalination, 2018, 433, 56-67.	4.0	122
9	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.	4.0	102
10	A review on recent advances in CO ₂ separation using zeolite and zeolite-like materials as adsorbents and fillers in mixed matrix membranes (MMMs). Chemical Engineering Journal Advances, 2021, 6, 100091.	2.4	102
11	Adsorptive removal of mercury from water by adsorbents derived from date pits. Scientific Reports, 2019, 9, 15327.	1.6	88
12	Photocatalytic reduction of CO ₂ and protons using water as an electron donor over potassium tantalate nanoflakes. Nanoscale, 2014, 6, 9767.	2.8	83
13	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.	2.1	82
14	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.	3.9	79
15	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. International Journal of Hydrogen Energy, 2020, 45, 10398-10408.	3.8	79
16	A review of recent advances in water-gas shift catalysis for hydrogen production. Emergent Materials, 2020, 3, 881-917.	3.2	78
17	Metal-Organic Frameworks as a Platform for CO ₂ Capture and Chemical Processes: Adsorption, Membrane Separation, Catalytic-Conversion, and Electrochemical Reduction of CO ₂ . Catalysts, 2020, 10, 1293.	1.6	77
18	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.	2.7	75

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19	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.	1.0	74
20	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16774-16785.	1.8	64
21	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. <i>RSC Advances</i> , 2016, 6, 23827-23836.	1.7	64
22	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.	1.4	61
23	Photocatalytic disinfection of <i>Escherichia coli</i> using TiO ₂ P25 and Cu-doped TiO ₂ . <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 369-376.	2.9	59
24	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.	2.5	59
25	Earth-Abundant Oxygen Evolution Catalysts Coupled onto ZnO Nanowire Arrays for Efficient Photoelectrochemical Water Cleavage. <i>Chemistry - A European Journal</i> , 2014, 20, 12954-12961.	1.7	57
26	High pressure CO ₂ absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , 2013, 351, 74-86.	1.4	56
27	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.	3.8	56
28	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.	2.7	53
29	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.	2.9	51
30	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	47
31	Polymeric adsorbents for oil removal from water. <i>Chemosphere</i> , 2019, 233, 809-817.	4.2	47
32	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.	4.0	46
33	Study on Hydroxylammonium-Based Ionic Liquids. I. Characterization. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12473-12486.	1.2	45
34	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.	3.1	45
35	An overview on trace CO ₂ removal by advanced physisorbent materials. <i>Journal of Environmental Management</i> , 2020, 255, 109874.	3.8	45
36	Polydopamine Functionalized Graphene Oxide as Membrane Nanofiller: Spectral and Structural Studies. <i>Membranes</i> , 2021, 11, 86.	1.4	44

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37	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.	4.2	40
38	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.	2.3	39
39	Enhanced Adsorption of Selenium Ions from Aqueous Solution Using Iron Oxide Impregnated Carbon Nanotubes. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-12.	1.8	38
40	Synoptic analysis of direct contact membrane distillation performance in Qatar: A case study. <i>Desalination</i> , 2015, 360, 97-107.	4.0	37
41	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , 2018, 172, 128-140.	2.9	37
42	Study on Hydroxylammonium-Based Ionic Liquids. II. Computational Analysis of CO ₂ Absorption. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12487-12498.	1.2	36
43	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.	2.5	36
44	Adsorptive Removal of Arsenic and Mercury from Aqueous Solutions by Eucalyptus Leaves. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	35
45	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.	4.8	34
46	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.	2.1	32
47	Toxicity evaluation of selected ionic liquid compounds on embryonic development of Zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 17-24.	2.9	32
48	Highly selective CO ₂ removal for one-step liquefied natural gas processing by physisorbents. <i>Chemical Communications</i> , 2019, 55, 3219-3222.	2.2	31
49	Key Applications and Potential Limitations of Ionic Liquid Membranes in the Gas Separation Process of CO ₂ , CH ₄ , N ₂ , H ₂ or Mixtures of These Gases from Various Gas Streams. <i>Molecules</i> , 2020, 25, 4274.	1.7	31
50	Fabrication and characterization of pyridinium functionalized anion exchange membranes for acid recovery. <i>Science of the Total Environment</i> , 2019, 686, 90-96.	3.9	30
51	Removal of copper ions from aqueous solution using NaOH-treated rice husk. <i>Emergent Materials</i> , 2020, 3, 857-870.	3.2	30
52	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. <i>Desalination</i> , 2020, 493, 114663.	4.0	30
53	Visible light-driven metal-oxide photocatalytic CO ₂ conversion. <i>International Journal of Energy Research</i> , 2015, 39, 1142-1152.	2.2	28
54	Recent Progress on Nanomaterial-Based Membranes for Water Treatment. <i>Membranes</i> , 2021, 11, 995.	1.4	28

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55	Novel Aluminum Oxide-Impregnated Carbon Nanotube Membrane for the Removal of Cadmium from Aqueous Solution. <i>Materials</i> , 2017, 10, 1144.	1.3	27
56	Enhancing Liquid-Phase Olefin-Paraffin Separations Using Novel Silver-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 28-36.	1.0	26
57	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.	2.2	26
58	Modeling and simulation of fertilizer drawn forward osmosis process using Aspen Plus-MATLAB model. <i>Science of the Total Environment</i> , 2020, 700, 134461.	3.9	25
59	<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.	3.0	25
60	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.	2.1	23
61	Removal of Toxic Elements and Microbial Contaminants from Groundwater Using Low-Cost Treatment Options. <i>Current Pollution Reports</i> , 2021, 7, 300-324.	3.1	23
62	Ionic liquids application for wastewater treatment and biofuel production: A mini review. <i>Journal of Molecular Liquids</i> , 2021, 337, 116421.	2.3	23
63	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.	4.0	22
64	Solid Sorbents as a Retrofit Technology for CO ₂ Removal from Natural Gas Under High Pressure and Temperature Conditions. <i>Scientific Reports</i> , 2020, 10, 269.	1.6	22
65	Thermochemical splitting of CO ₂ using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , 2021, 285, 119154.	3.4	22
66	Doping amino acids with classical gas hydrate inhibitors to facilitate the hydrate inhibition effect at low dosages. , 2020, 10, 783-794.		22
67	From Waste to Watts: Updates on Key Applications of Microbial Fuel Cells in Wastewater Treatment and Energy Production. <i>Sustainability</i> , 2022, 14, 955.	1.6	22
68	Removal of Carbamazepine from Water by a Novel TiO ₂ -Coconut Shell Powder/UV Process: Composite Preparation and Photocatalytic Activity. <i>Environmental Engineering Science</i> , 2013, 30, 515-526.	0.8	21
69	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.	2.1	20
70	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , 2017, 2, 3365-3370.	0.5	20
71	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.	1.0	20
72	Thermocatalytic splitting of CO ₂ using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , 2019, 257, 115965.	3.4	20

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73	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.	4.3	18
74	Photocatalytic removal of phenol from refinery wastewater: Catalytic activity of Cu-doped titanium dioxide. Journal of Water Process Engineering, 2015, 8, 82-90.	2.6	16
75	Characterization of polysulfone/diisopropylamine 1-alkyl-3-methylimidazolium ionic liquid membranes: high pressure gas separation applications. , 2020, 10, 795-808.		15
76	Innovative BPPO Anion Exchange Membranes Formulation Using Diffusion Dialysis-Enhanced Acid Regeneration System. Membranes, 2021, 11, 311.	1.4	15
77	Kinetics of CO ₂ Adsorption/Desorption of Polyethyleneimine-Mesoporous Silica. Chemical Engineering and Technology, 2017, 40, 1802-1809.	0.9	14
78	Higher Acid Recovery Efficiency of Novel Functionalized Inorganic/Organic Composite Anion Exchange Membranes from Acidic Wastewater. Membranes, 2021, 11, 133.	1.4	14
79	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil-Water Separation Processes. Nanomaterials, 2022, 12, 87.	1.9	14
80	Role of ultrasound in the management of diabetes in pregnancy. Journal of Maternal-Fetal and Neonatal Medicine, 2015, 28, 1856-1863.	0.7	13
81	Investigating the effects of mixing ionic liquids on their density, decomposition temperature, and gas absorption. Chemical Engineering Research and Design, 2019, 148, 251-259.	2.7	13
82	Activated carbon-doped polystyrene fibers for direct contact membrane desalination. Emergent Materials, 2020, 3, 807-814.	3.2	13
83	Sustainable Innovation in Membrane Technologies for Produced Water Treatment: Challenges and Limitations. Sustainability, 2021, 13, 6759.	1.6	13
84	Synthesis of Porous BPPO-Based Anion Exchange Membranes for Acid Recovery via Diffusion Dialysis. Membranes, 2022, 12, 95.	1.4	13
85	Probing the effect of various water fractions on methane (CH ₄) hydrate phase equilibria and hydrate inhibition performance of amino acid L-proline. Journal of Molecular Liquids, 2021, 333, 115888.	2.3	11
86	Biological-Based Produced Water Treatment Using Microalgae: Challenges and Efficiency. Sustainability, 2022, 14, 499.	1.6	11
87	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.	1.3	10
88	Thermochemical splitting of CO ₂ using solution combustion synthesized LaMO ₃ (where, M=Co, Fe, Mn.) Tj ETQg0 0 0 rgBT /Overlock	3.1	10
89	Sustainable boil-off gas utilization in liquefied natural gas production: Economic and environmental benefits. Journal of Cleaner Production, 2021, 296, 126563.	4.6	10
90	Single crystal structure, vibrational spectroscopy, gas sorption and antimicrobial properties of a new inorganic acidic diphosphates material (NH ₄) ₂ Mg(H ₂ P ₂ O ₇) ₂ ·2H ₂ O. Scientific Reports, 2020, 10, 8909.	1.6	9

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91	Density-Functional Theory Investigation of Barite Scale Inhibition Using Phosphonate and Carboxyl-Based Inhibitors. <i>ACS Omega</i> , 2020, 5, 33323-33328.	1.6	9
92	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.	2.9	9
93	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.	0.8	8
94	Flocculation and viscoelastic behavior of industrial papermaking suspensions. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 448-455.	1.2	8
95	Effect of Membrane Fouling on Fertilizer-Drawn Forward Osmosis Desalination Performance. <i>Membranes</i> , 2020, 10, 243.	1.4	7
96	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	7
97	Integrating ethics into the chemical engineering curriculum: The Qatar University experience. , 2013, , .		6
98	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.	1.0	6
99	Impact of ionic liquids on silver thermoplastic polyurethane composite membranes for propane/propylene separation. <i>Arabian Journal of Chemistry</i> , 2020, 13, 404-415.	2.3	6
100	Development of industrially viable geopolymers from treated petroleum fly ash. <i>Journal of Cleaner Production</i> , 2021, 280, 124808.	4.6	6
101	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.	1.6	6
102	Synthesis and characterization of stable anion exchange membranes for desalination applications. , 0, 113, 36-44.		6
103	Spectral and Structural Properties of High-Quality Reduced Graphene Oxide Produced via a Simple Approach Using Tetraethylenepentamine. <i>Nanomaterials</i> , 2022, 12, 1240.	1.9	6
104	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.	3.2	5
105	Influence of Casting Solvents on CO ₂ /CH ₄ Separation Using Polysulfone Membranes. <i>Membranes</i> , 2021, 11, 286.	1.4	5
106	Membrane Surface Modification and Functionalization. <i>Membranes</i> , 2021, 11, 877.	1.4	5
107	Long-Term Treatment of Highly Saline Brine in a Direct Contact Membrane Distillation (DCMD) Pilot Unit Using Polyethylene Membranes. <i>Membranes</i> , 2022, 12, 424.	1.4	5
108	Use of nanoadvanced activated carbon, alumina and ferric adsorbents for humics removal from water: isotherm study. <i>Emergent Materials</i> , 2020, 3, 841-856.	3.2	3

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109	Humidification-Dehumidification (HDH) Desalination and Other Volume Reduction Techniques for Produced Water Treatment. <i>Water (Switzerland)</i> , 2022, 14, 60.	1.2	3
110	Kinetics of Humics Removal from Water and Wastewater Using Granular Activated Carbon, Iron-Coated Activated Alumina, and Beta Ferric Oxide. <i>Environmental Engineering Science</i> , 2010, 27, 387-395.	0.8	2
111	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.	2.2	2
112	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.	1.6	2
113	Catalytic Reduction of CO ₂ into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. <i>MRS Advances</i> , 2017, 2, 3389-3395.	0.5	1
114	Solar Energy Storage via Thermochemical Metal Oxide/Metal Sulfate Water Splitting Cycle. <i>MRS Advances</i> , 2018, 3, 1341-1346.	0.5	1
115	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.	2.2	1
116	Enhancing student learning in chemical engineering design via role play and enquiry guided learning: A case study from Qatar. , 2012, , .		0
117	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO-TiO ₂ Nano-catalysts: Characterization and Kinetic Behaviors. <i>Waste and Biomass Valorization</i> , 2021, 12, 3075-3089.	1.8	0