

Shaheen A Al-Muhtaseb

List of Publications by Year in descending order

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89
papers

4,827
citations

185998

28
h-index

95083

68
g-index

91
all docs

91
docs citations

91
times ranked

6447
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of solid-liquid-vapor phase equilibria of noble gases in nitrogen. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103866.	2.3	2
2	A review on the solid-liquid-vapor phase equilibria of acid gases in methane. , 2022, 12, 566-579.		5
3	Hybrid online-flipped learning pedagogy for teaching laboratory courses to mitigate the pandemic COVID-19 confinement and enable effective sustainable delivery: investigation of attaining course learning outcome. <i>SN Social Sciences</i> , 2021, 1, 113.	0.4	18
4	Influence of Casting Solvents on CO ₂ /CH ₄ Separation Using Polysulfone Membranes. <i>Membranes</i> , 2021, 11, 286.	1.4	5
5	An empirical correlation-based model to predict solid-fluid phase equilibria and phase separation of the ternary system CH ₄ -CO ₂ -H ₂ S. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 94, 104120.	2.1	9
6	Consequence of aging at Au/HTM/perovskite interface in triple cation 3D and 2D/3D hybrid perovskite solar cells. <i>Scientific Reports</i> , 2021, 11, 33.	1.6	12
7	Influence of Carbon Uniformity on Its Characteristics and Adsorption Capacities of CO ₂ and CH ₄ Gases. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 265.	1.3	2
8	A review of the features and applications of ZIF-8 and its derivatives for separating CO ₂ and isomers of C ₃ - and C ₄ - hydrocarbons. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104289.	2.1	70
9	A Rapid Method for Low Temperature Microencapsulation of Phase Change Materials (PCMs) Using a Coiled Tube Ultraviolet Reactor. <i>Energies</i> , 2021, 14, 7867.	1.6	8
10	Effect of sulfonated poly (ether ether ketone) on the sensitivity of polyvinylidene fluoride-based resistive humidity sensors. <i>Materials Today Communications</i> , 2020, 25, 101601.	0.9	3
11	Carbon Nanoparticles-Decorated Carbon Nanotubes. <i>Scientific Reports</i> , 2020, 10, 4878.	1.6	32
12	Using electric power to synthesize resorcinol-formaldehyde gels with enhanced characteristics. <i>International Journal of Energy Research</i> , 2020, 44, 12259-12268.	2.2	1
13	Nano-gate opening pressures for the adsorption of isobutane, <i>n</i> -butane, propane, and propylene gases on bimetallic Co-Zn based zeolitic imidazolate frameworks. <i>Dalton Transactions</i> , 2019, 48, 4685-4695.	1.6	11
14	Effect of gas templating of resorcinol-formaldehyde xerogels on characteristics and performances of subsequent activated carbons. <i>Materials Chemistry and Physics</i> , 2019, 234, 361-368.	2.0	2
15	Adsorption Equilibrium and Kinetics of Nitrogen, Methane and Carbon Dioxide Gases onto ZIF-8, Cu ₁₀ /ZIF-8, and Cu ₃₀ /ZIF-8. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6653-6661.	1.8	19
16	Influence of Chitosan Addition on Resorcinol-Formaldehyde Xerogel Structure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4582.	1.3	5
17	The Effect of Chitosan's Addition to Resorcinol/Formaldehyde Xerogels on the Characteristics of Resultant Activated Carbon. <i>Materials</i> , 2019, 12, 3847.	1.3	2
18	On the nanogate-opening pressures of copper-doped zeolitic imidazolate framework ZIF-8 for the adsorption of propane, propylene, isobutane, and <i>n</i> -butane. <i>Journal of Materials Science</i> , 2019, 54, 5513-5527.	1.7	46

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19	Influence of doped metal center on morphology and pore structure of ZIF-8. <i>MRS Communications</i> , 2019, 9, 288-291.	0.8	11
20	Degradation analysis in mixed (MAPbI ₃ and MAPbBr ₃) perovskite solar cells under thermal stress. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1354-1359.	1.1	11
21	Stability in 3D and 2D/3D hybrid perovskite solar cells studied by EFISHG and IS techniques under light and heat soaking. <i>Organic Electronics</i> , 2019, 66, 7-12.	1.4	18
22	Adsorption of Carbon Dioxide, Methane, and Nitrogen Gases onto ZIF Compounds with Zinc, Cobalt, and Zinc/Cobalt Metal Centers. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-11.	1.5	11
23	Enhancement of electrical and optical performance of N719 by co-sensitization. <i>Optical Materials</i> , 2018, 78, 201-206.	1.7	4
24	Dataset on the new recipe for the preparation of nanoporous carbon nanorods using resorcinol-formaldehyde xerogels. <i>Data in Brief</i> , 2018, 18, 827-830.	0.5	0
25	Adsorption process of n-alkanes onto BAX-1100 activated carbon: Theoretical estimation of isosteric heat of adsorption and energy distribution of heterogeneous surfaces. <i>Journal of Molecular Liquids</i> , 2018, 252, 399-407.	2.3	14
26	Limits and possible solutions in quantum dot organic solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1551-1564.	8.2	33
27	Silica and carbon decorated silica nanosheet impact on primary human immune cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 779-789.	2.5	4
28	Gas templating of resorcinol-formaldehyde xerogels. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 64-71.	1.5	3
29	Efficacy of using slurry of metal-coated microencapsulated PCM for cooling in a micro-channel heat exchanger. <i>Applied Thermal Engineering</i> , 2017, 122, 11-18.	3.0	69
30	Novel controlled synthesis of nanoporous carbon nanorods from resorcinol-formaldehyde xerogels. <i>Materials Letters</i> , 2017, 201, 181-184.	1.3	2
31	Screening alternatives for producing paraffinic phase change materials for thermal energy storage in buildings. <i>International Journal of Energy Research</i> , 2017, 41, 1932-1940.	2.2	8
32	Optimization of ITO glass/TiO ₂ based DSSC photo-anodes through electrophoretic deposition and sintering techniques. <i>Ceramics International</i> , 2017, 43, 10540-10545.	2.3	28
33	Selective adsorption of carbon dioxide, methane and nitrogen using resorcinol-formaldehyde-xerogel activated carbon. <i>Adsorption</i> , 2017, 23, 933-944.	1.4	15
34	Dopant-free Hole-transporting Materials for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606555.	11.1	171
35	Growth of MAPbBr ₃ perovskite crystals and its interfacial properties with Al and Ag contacts for perovskite solar cells. <i>Optical Materials</i> , 2017, 73, 50-55.	1.7	16
36	Instability in CH ₃ NH ₃ PbI ₃ perovskite solar cells due to elemental migration and chemical composition changes. <i>Scientific Reports</i> , 2017, 7, 15406.	1.6	95

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37	Weakly Conjugated Hybrid Zinc Porphyrin Sensitizers for Solidâ€­State Dyeâ€­Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 5550-5559.	7.8	31
38	High performance CO ₂ filtration and sequestration by using bromomethyl benzene linked microporous networks. <i>RSC Advances</i> , 2016, 6, 66324-66335.	1.7	6
39	Quasiâ€­Solidâ€­State Dyeâ€­Sensitized Solar Cells Based on Ru(II) Polypyridine Sensitizers. <i>Energy Technology</i> , 2016, 4, 380-384.	1.8	4
40	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	47
41	Investigation of Ester- and Amide-Linker-Based Porous Organic Polymers for Carbon Dioxide Capture and Separation at Wide Temperatures and Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20772-20785.	4.0	52
42	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
43	New insights on estimating pore size distribution of latex particles: Statistical mechanics approach and modeling. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 360-371.	2.2	14
44	Innovative method of metal coating of microcapsules containing phase change materials. <i>Solar Energy</i> , 2016, 129, 54-64.	2.9	88
45	Removal of crystal violet from wastewater using resorcinol-formaldehyde carbon xerogels. <i>Separation Science and Technology</i> , 2016, 51, 403-415.	1.3	12
46	Assessment of Ce Zr Hf O ₂ based oxides as potential solar thermochemical CO ₂ splitting materials. <i>Ceramics International</i> , 2016, 42, 9354-9362.	2.3	57
47	Supercooling elimination of phase change materials (PCMs) microcapsules. <i>Energy</i> , 2015, 87, 654-662.	4.5	129
48	Unravel the Impact of Anchoring Groups on the Photovoltaic Performances of Diketopyrrolopyrrole Sensitizers for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2389-2396.	3.2	65
49	Emulsion stability and cross-linking of PMMA microcapsules containing phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 311-318.	3.0	139
50	Energetic investigation of the adsorption process of CH ₄ , C ₂ H ₆ and N ₂ on activated carbon: Numerical and statistical physics treatment. <i>Physica B: Condensed Matter</i> , 2014, 433, 55-61.	1.3	7
51	Adsorption Energy and Pore-Size Distributions of Activated Carbons Calculated Using Hill's Model. <i>Adsorption Science and Technology</i> , 2014, 32, 571-590.	1.5	10
52	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. <i>Nature Communications</i> , 2014, 5, 4813.	5.8	252
53	Photo-oxidative enhancement of polymeric molecular sieve membranes. <i>Nature Communications</i> , 2013, 4, 1918.	5.8	117
54	Carbon dioxide sequestration and methane removal from exhaust gases using resorcinolâ€­formaldehyde activated carbon xerogel. <i>Adsorption</i> , 2013, 19, 967-977.	1.4	22

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55	Influence of Micro- and Mesoporosity of Resorcinol-Formaldehyde Xerogels on Adsorption. <i>Environmental Engineering Science</i> , 2013, 30, 381-386.	0.8	2
56	Nanofeatures of resorcinol-formaldehyde carbon microspheres. <i>Materials Letters</i> , 2012, 87, 31-34.	1.3	14
57	Collective osmotic shock in ordered materials. <i>Nature Materials</i> , 2012, 11, 53-57.	13.3	56
58	Zeolitic imidazolate framework (ZIF-8) based polymer nanocomposite membranes for gas separation. <i>Energy and Environmental Science</i> , 2012, 5, 8359.	15.6	627
59	Impact of synthesis conditions on meso- and macropore structures of resorcinol-formaldehyde xerogels. <i>Journal of Materials Science</i> , 2011, 46, 7760-7769.	1.7	28
60	Advances in Tailoring Resorcinol-Formaldehyde Organic and Carbon Gels. <i>Advanced Materials</i> , 2011, 23, 2887-2903.	11.1	392
61	Adsorption and Desorption Equilibria of Nitrogen, Methane, Ethane, and Ethylene on Date-Pit Activated Carbon. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 313-319.	1.0	26
62	Biodegradation of phenol by <i>Pseudomonas putida</i> immobilized in polyvinyl alcohol (PVA) gel. <i>Journal of Hazardous Materials</i> , 2009, 164, 720-725.	6.5	292
63	Removal of aluminum from aqueous solutions by adsorption on date-pit and BDH activated carbons. <i>Journal of Hazardous Materials</i> , 2008, 158, 300-307.	6.5	78
64	Role of catalyst type in the selective separation of olefinic and paraffinic hydrocarbons using xerogel-based adsorbents. <i>Carbon</i> , 2008, 46, 1003-1009.	5.4	15
65	Adsorption Equilibria of Nitrogen, Methane, and Ethane on BDH-Activated Carbon. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 60-65.	1.0	24
66	Effects of Adsorbent Characteristics on Adiabatic Vacuum Swing Adsorption Processes for Solvent Vapor Recovery. <i>Chemical Engineering and Technology</i> , 2006, 29, 1323-1332.	0.9	1
67	New Methodology for the Measurement and Analysis of Adsorption Dynamics: Butane on Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 7075-7082.	1.8	1
68	Preparation and Properties of Resorcinol-Formaldehyde Organic and Carbon Gels. <i>Advanced Materials</i> , 2003, 15, 101-114.	11.1	935
69	Thermal Treatment of Sol-Gel Derived Nickel Oxide Xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 28, 133-141.	1.1	16
70	Practical Modeling of Metal Hydride Hydrogen Storage Systems. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 1713-1722.	1.8	28
71	Sol-Gel-Derived Carbon Aerogels and Xerogels: A Design of Experiments Approach to Materials Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 3151-3162.	1.8	69
72	Adsorption of C1-C7 Normal Alkanes on BAX-Activated Carbon. 2. Statistically Optimized Approach for Deriving Thermodynamic Properties from the Adsorption Isotherm. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 319-337.	1.8	10

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73	Adsorption of C1-C7 Normal Alkanes on BAX Activated Carbon. 1. Potential Theory Correlation and Adsorbent Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 338-346.	1.8	27
74	Modelling and prediction of the solubility of acid gases in diethanolamine solutions. High Temperatures - High Pressures, 2000, 32, 261-270.	0.3	2
75	On the Correlation of Modified Antoine's Adsorption Isotherm Models with Experimental Data. <i>Langmuir</i> , 2000, 16, 8536-8538.	1.6	2
76	Roles of Surface Heterogeneity and Lateral Interactions on the Isothermic Heat of Adsorption and Adsorbed Phase Heat Capacity. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2467-2479.	1.2	61
77	New Model That Describes Adsorption of Laterally Interacting Gas Mixtures on Random Heterogeneous Surfaces. 2. Correlation of Complex Binary and Prediction of Multicomponent Adsorption Equilibria. <i>Langmuir</i> , 1999, 15, 7732-7744.	1.6	12
78	A Statistical Mechanical Perspective on the Temperature Dependence of the Isothermic Heat of Adsorption and Adsorbed Phase Heat Capacity. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8104-8115.	1.2	11
79	New Model That Describes Adsorption of Laterally Interacting Gas Mixtures on Random Heterogeneous Surfaces. 1. Parametric Study and Correlation with Binary Data. <i>Langmuir</i> , 1998, 14, 6528-6538.	1.6	15
80	New Virial-Type Model for Predicting Single- and Multicomponent Isothermic Heats of Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 684-696.	1.8	19
81	Further Modification of the Antoine Equation for Correlation of Adsorption Equilibria. <i>Langmuir</i> , 1998, 14, 5317-5323.	1.6	7
82	Phase Equilibria of the Ternary System Water + Propionic Acid + 2-Butanol. <i>Separation Science and Technology</i> , 1997, 32, 1463-1476.	1.3	14
83	Extraction of Aromatics from Petroleum Naphtha Reformate by a 1-Cyclohexyl-2-pyrrolidone/Ethylene Carbonate Mixed Solvent. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 414-418.	1.8	14
84	Liquid-Liquid Equilibria of the Ternary System Water + Acetic Acid + 1-Hexanol. <i>Journal of Chemical & Engineering Data</i> , 1997, 42, 183-186.	1.0	62
85	Liquid-liquid equilibria for the extraction of aromatics from naphtha reformat by dimethylformamide/ethylene glycol mixed solvent. <i>Fluid Phase Equilibria</i> , 1997, 129, 175-186.	1.4	22
86	Liquid-Liquid Equilibria of the Ternary System Water + Acetic Acid + 2-Methyl-2-butanol. <i>Journal of Chemical & Engineering Data</i> , 1996, 41, 1311-1314.	1.0	27
87	Phase Equilibria of the Ternary System Water + Acetic Acid + 1-Pentanol. <i>Journal of Chemical & Engineering Data</i> , 1996, 41, 562-565.	1.0	16
88	A comparison between four cubic equations of state in predicting the inversion curve and spinodal curve loci of methane. <i>Thermochimica Acta</i> , 1996, 287, 43-52.	1.2	8
89	Phase equilibria of the ternary system water/acetic acid/2-pentanol. <i>Fluid Phase Equilibria</i> , 1996, 123, 189-203.	1.4	29