

Reyad A Shawabkeh

List of Publications by Year in descending order

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174
papers

6,106
citations

81839

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91828

69
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175
all docs

175
docs citations

175
times ranked

6416
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Eutectic Solvents: Physicochemical Properties and Gas Separation Applications. Energy & Fuels, 2015, 29, 2616-2644.	2.5	777
2	Metals distribution in soils around the cement factory in southern Jordan. Environmental Pollution, 2006, 140, 387-394.	3.7	240
3	Experimental study and modeling of basic dye sorption by diatomaceous clay. Applied Clay Science, 2003, 24, 111-120.	2.6	230
4	The green solvent ethyl lactate: an experimental and theoretical characterization. Green Chemistry, 2009, 11, 65-78.	4.6	189
5	Production and characterization of granular activated carbon from activated sludge. Brazilian Journal of Chemical Engineering, 2009, 26, 127-136.	0.7	172
6	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 17855-17868.	1.8	171
7	Conversion of oil shale ash into zeolite for cadmium and lead removal from wastewater. Fuel, 2004, 83, 981-985.	3.4	144
8	CO ₂ enhanced gas recovery and sequestration in depleted gas reservoirs: A review. Journal of Petroleum Science and Engineering, 2021, 196, 107685.	2.1	125
9	Copper and strontium adsorption by a novel carbon material manufactured from pecan shells. Carbon, 2002, 40, 781-786.	5.4	122
10	Development of novel cross-linked chitosan for the removal of anionic Congo red dye. Journal of Molecular Liquids, 2017, 244, 211-218.	2.3	110
11	Hydrometallurgical extraction of zinc from Jordanian electric arc furnace dust. Hydrometallurgy, 2010, 104, 61-65.	1.8	106
12	Copper and zinc sorption by treated oil shale ash. Separation and Purification Technology, 2004, 40, 251-257.	3.9	81
13	Interfacial Properties of Deep Eutectic Solvents Regarding to CO ₂ Capture. Journal of Physical Chemistry C, 2015, 119, 21413-21425.	1.5	81
14	Surface modification and characterization of Jordanian kaolinite: Application for lead removal from aqueous solutions. Applied Surface Science, 2009, 255, 8098-8103.	3.1	77
15	Single stage filter cake removal of barite weighted water based drilling fluid. Journal of Petroleum Science and Engineering, 2017, 149, 476-484.	2.1	74
16	Systematic Study on the Viscosity of Ionic Liquids: Measurement and Prediction. Industrial & Engineering Chemistry Research, 2015, 54, 10918-10924.	1.8	69
17	The Feasibility of Using Diatomite and Mn ²⁺ Diatomite for Remediation of Pb ²⁺ , Cu ²⁺ , and Cd ²⁺ from Water. Separation Science and Technology, 2000, 35, 2299-2310.	1.3	65
18	Synthesis of lanthanide series (La, Ce, Pr, Eu & Gd) promoted Ni ³⁺ -Al ₂ O ₃ catalysts for methanation of CO ₂ at low temperature under atmospheric pressure. Catalysis Communications, 2017, 100, 121-126.	1.6	65

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19	A Systematic Computational Study on Flavonoids. International Journal of Molecular Sciences, 2010, 11, 2017-2038.	1.8	64
20	Viscous Behavior of Imidazolium-Based Ionic Liquids. Industrial & Engineering Chemistry Research, 2013, 52, 16774-16785.	1.8	64
21	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.	2.5	59
22	A Computational Study on Choline Benzoate and Choline Salicylate Ionic Liquids in the Pure State and After CO ₂ Adsorption. Journal of Physical Chemistry B, 2012, 116, 9171-9185.	1.2	55
23	Design of arginine-based therapeutic deep eutectic solvents as drug solubilization vehicles for active pharmaceutical ingredients. Physical Chemistry Chemical Physics, 2019, 21, 10621-10634.	1.3	54
24	Investigation of Ester- and Amide-Linker-Based Porous Organic Polymers for Carbon Dioxide Capture and Separation at Wide Temperatures and Pressures. ACS Applied Materials & Interfaces, 2016, 8, 20772-20785.	4.0	52
25	Choline-Based Ionic Liquids on Graphite Surfaces and Carbon Nanotubes Solvation: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2012, 116, 12055-12065.	1.5	50
26	Effect of CO ₂ adsorption on enhanced natural gas recovery and sequestration in carbonate reservoirs. Journal of Natural Gas Science and Engineering, 2018, 55, 575-584.	2.1	50
27	BET, FTIR, and RAMAN characterizations of activated carbon from wasteoil fly ash. Turkish Journal of Chemistry, 2020, 44, 279-295.	0.5	50
28	Gas Solubility and Rheological Behavior of Natural Deep Eutectic Solvents (NADES) via Combined Experimental and Molecular Simulation Techniques. ChemistrySelect, 2017, 2, 7278-7295.	0.7	49
29	Mixed Ionic Liquids: The Case of Pyridinium-Based Fluids. Journal of Physical Chemistry B, 2012, 116, 2526-2537.	1.2	48
30	Synthesis of activated carbon from oil fly ash for removal of H ₂ S from gas stream. Applied Surface Science, 2015, 327, 107-115.	3.1	47
31	The chemistry of minerals obtained from the combustion of Jordanian oil shale. Energy, 2005, 30, 611-619.	4.5	46
32	Effect of Hydrogen Bond Donors and Acceptors on CO ₂ Absorption by Deep Eutectic Solvents. Processes, 2020, 8, 1533.	1.3	46
33	Review and Perspectives for Effective Solutions to Grand Challenges of Energy and Fuels Technologies via Novel Deep Eutectic Solvents. Energy & Fuels, 2021, 35, 6402-6419.	2.5	46
34	Adsorption of chromium ions from aqueous solution by using activated carbo-aluminosilicate material from oil shale. Journal of Colloid and Interface Science, 2006, 299, 530-536.	5.0	45
35	Study on Hydroxylammonium-Based Ionic Liquids. I. Characterization. Journal of Physical Chemistry B, 2011, 115, 12473-12486.	1.2	45
36	Characterization of two lactones in liquid phase: an experimental and computational approach. Physical Chemistry Chemical Physics, 2009, 11, 6455.	1.3	44

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37	Computational Study of Hexamethylguanidinium Lactate Ionic Liquid: A Candidate for Natural Gas Sweetening. <i>Energy & Fuels</i> , 2010, 24, 4989-5001.	2.5	44
38	The Effect of Two Amine-Based Corrosion Inhibitors in Improving the Corrosion Resistance of Carbon Steel in Sea Water. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 693-699.	1.2	43
39	Insights into the Ethyl Lactate + Water Mixed Solvent. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14257-14269.	1.2	42
40	Elucidating the Properties of Grapheneâ€œDeep Eutectic Solvents Interface. <i>Langmuir</i> , 2017, 33, 5154-5165.	1.6	42
41	Asphalt modification using acid treated waste oil fly ash. <i>Construction and Building Materials</i> , 2014, 70, 201-209.	3.2	40
42	Solidification and stabilization of cadmium ions in sandâ€œcementâ€œclay mixture. <i>Journal of Hazardous Materials</i> , 2005, 125, 237-243.	6.5	38
43	Nanowetting of Graphene by Ionic Liquid Droplets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24529-24537.	1.5	38
44	High-Pressure Methane, Carbon Dioxide, and Nitrogen Adsorption on Amine-Impregnated Porous Montmorillonite Nanoclays. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2749-2760.	1.0	38
45	Synthesis of zinc oxide/titanium dioxide (ZnO/TiO ₂) nanocomposites by wet incipient wetness impregnation method and preparation of ZnO/TiO ₂ paste using poly(vinylpyrrolidone) for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 222, 473-480.	2.6	38
46	Toward a Complete Removal of Barite (Barium Sulfate BaSO_4) Scale Using Chelating Agents and Catalysts. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 1667-1674.	1.7	37
47	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
48	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
49	Quantum Chemistry Insight into the Interactions Between Deep Eutectic Solvents and SO ₂ . <i>Molecules</i> , 2019, 24, 2963.	1.7	36
50	Rheological, Thermodynamic, and Gas Solubility Properties of Phenylacetic Acidâ€œBased Deep Eutectic Solvents. <i>Chemical Engineering and Technology</i> , 2017, 40, 778-790.	0.9	35
51	Theoretical Study on Amino Acid-Based Ionic Pairs and Their Interaction with Carbon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9741-9757.	1.5	34
52	Combined Experimental and Theoretical Study on High Pressure Methane Solubility in Natural Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8097-8111.	1.8	34
53	Cobalt and zinc removal from aqueous solution by chemically treated bentonite. <i>The Environmentalist</i> , 2007, 27, 357-363.	0.7	33
54	Metal distribution in urban soil around steel industry beside Queen Alia Airport, Jordan. <i>Environmental Geochemistry and Health</i> , 2009, 31, 717-726.	1.8	33

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55	Pyrrolidone Derivatives in Water Solution: An Experimental and Theoretical Perspective. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1036-1050.	1.8	33
56	Bio-adsorption of triadimenol pesticide from aqueous solutions using activated sludge of dairy plants. <i>Desalination and Water Treatment</i> , 2015, 53, 2555-2564.	1.0	33
57	Synthesis and characterization of activated carbo-aluminosilicate material from oil shale. <i>Microporous and Mesoporous Materials</i> , 2004, 75, 107-114.	2.2	32
58	Equilibrium study and kinetics of Cu ²⁺ removal from water by zeolite prepared from oil shale ash. <i>Chemical Engineering Research and Design</i> , 2009, 87, 261-266.	2.7	32
59	Insights into choline chloride-phenylacetic acid deep eutectic solvent for CO ₂ absorption. <i>RSC Advances</i> , 2016, 6, 109201-109210.	1.7	31
60	Experimental and Computational Study on the Properties of Pure and Water Mixed 1-Ethyl-3-methylimidazolium l-(+)-Lactate Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5795-5809.	1.2	29
61	Deep Eutectic Solvents on the Surface of Face Centered Cubic Metals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10400-10409.	1.5	29
62	Synthesis and characterization of activated carbon from asphalt. <i>Applied Surface Science</i> , 2006, 253, 821-826.	3.1	28
63	Enhancement of surface properties of oil fly ash by chemical treatment. <i>Applied Surface Science</i> , 2011, 258, 1643-1650.	3.1	28
64	Surface modification of oil fly ash and its application in selective capturing of carbon dioxide. <i>Applied Surface Science</i> , 2013, 266, 118-125.	3.1	28
65	Double Salt Ionic Liquids Based on Ammonium Cations and Their Application for CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17829-17844.	1.5	28
66	Adsorptive potential of Acacia nilotica based adsorbent for chromium(VI) from an aqueous phase. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 614-622.	1.7	28
67	A theoretical study of gas adsorption on calcite for CO ₂ enhanced natural gas recovery. <i>Applied Surface Science</i> , 2020, 504, 144575.	3.1	28
68	Nanostructuring and macroscopic behavior of type V deep eutectic solvents based on monoterpenoids. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 512-531.	1.3	28
69	Chemical modification of waste oil fly ash for improved mechanical and thermal properties of low density polyethylene composites. <i>Journal of Polymer Research</i> , 2011, 18, 2275-2284.	1.2	27
70	Interfacial Properties of Double Salt Ionic Liquids: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28405-28416.	1.5	25
71	Synthesis of a Ca/Na-aluminosilicate from kaolin and limestone and its use for adsorption of CO ₂ . <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 973-983.	3.3	25
72	Carbon Dioxide Solubility in Phosphonium-, Ammonium-, Sulfonyl-, and Pyrrolidinium-Based Ionic Liquids and their Mixtures at Moderate Pressures up to 10 bar. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1310-1317.	1.0	25

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73	Theoretical studies of methane adsorption on Silica-Kaolinite interface for shale reservoir application. <i>Applied Surface Science</i> , 2021, 546, 149164.	3.1	23
74	On the Properties of CO ₂ and Flue Gas at the Piperazinium-Based Ionic Liquids Interface: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15061-15074.	1.5	22
75	Nanosopic Vision on Fuel Dearomatization Using Ionic Liquids: The Case of Piperazine-Based Fluids. <i>Energy & Fuels</i> , 2013, 27, 2515-2527.	2.5	22
76	An experimental and thermodynamic study for conversion of CO ₂ to CO and methane over Cu-K/Al ₂ O ₃ . <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2725-2735.	3.3	22
77	Deep Eutectic Solvent Reline at 2D Nanomaterial Interfaces. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1197-1206.	1.2	22
78	Absorption of phenol and methylene blue by activated carbon from pecan shells. <i>Colloid Journal</i> , 2007, 69, 355-359.	0.5	21
79	Molecular Dynamics Study of Carbon Nanostructures in <i>N</i> -Methylpiperazinium Lactate Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22046-22059.	1.5	21
80	Sulfur Dioxide Removal using Natural Zeolitic Tuff. <i>Fuel Processing Technology</i> , 2014, 126, 249-258.	3.7	21
81	Theoretical Study of Amino Acid-Based Ionic Liquids Interacting with Carbon Nanosystems. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27080-27094.	1.5	21
82	Behavior of Deep Eutectic Solvents under External Electric Fields: A Molecular Dynamics Approach. <i>Journal of Physical Chemistry B</i> , 2017, 121, 221-232.	1.2	21
83	Adsorption kinetics and modeling of H ₂ S by treated waste oil fly ash. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 246-257.	0.9	21
84	Insights on Betaine + Lactic Acid Deep Eutectic Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11880-11892.	1.8	21
85	Sulfur distribution in the oil fractions obtained by thermal cracking of Jordanian El-Lajjun oil Shale. <i>Energy</i> , 2005, 30, 2784-2784.	4.5	20
86	Rate of Biodegradation of Phenol by <i>Klebsiella oxytoca</i> Minimal Medium and Nutrient Broth Conditions. <i>Bioremediation Journal</i> , 2007, 11, 13-19.	1.0	20
87	In silico rational design of ionic liquids for the exfoliation and dispersion of boron nitride nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1212-1224.	1.3	20
88	Theoretical Study of Oil Desulfuration by Ammonium-Based Deep Eutectic Solvents. <i>Energy & Fuels</i> , 2018, 32, 7497-7507.	2.5	20
89	Concurrent adsorption of cationic and anionic dyes from environmental water on amine functionalized carbon. <i>Water Science and Technology</i> , 2020, 81, 466-478.	1.2	20
90	Experimental study and modeling of photocatalytic reduction of Pb ²⁺ by WO ₃ /TiO ₂ nanoparticles. <i>Separation and Purification Technology</i> , 2015, 141, 285-293.	3.9	19

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91	Synthesis and characterization of Cu-Zn/TiO ₂ for the photocatalytic conversion of CO ₂ to methane. Environmental Technology (United Kingdom), 2017, 38, 1085-1092.	1.2	19
92	Molecular Dynamics Simulations of Metal Nanoparticles in Deep Eutectic Solvents. Journal of Physical Chemistry C, 2018, 122, 18029-18039.	1.5	19
93	Effect of rock mineralogy on Hot-CO ₂ injection for enhanced gas recovery. Journal of Natural Gas Science and Engineering, 2019, 72, 103030.	2.1	19
94	Thermochemical treatment of fly ash for synthesis of mesoporous activated carbon. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1191-1201.	2.0	18
95	Simultaneous CO ₂ and SO ₂ capture by using ionic liquids: a theoretical approach. Physical Chemistry Chemical Physics, 2017, 19, 5411-5422.	1.3	18
96	Evaluation of the Reaction Kinetics of Diethylenetriaminepentaacetic Acid Chelating Agent and a Converter with Barium Sulfate (Barite) Using a Rotating Disk Apparatus. Energy & Fuels, 2018, 32, 9813-9821.	2.5	18
97	Theoretical Insights into CO ₂ Adsorption by MoS ₂ Nanomaterials. Journal of Physical Chemistry C, 2019, 123, 26338-26350.	1.5	18
98	Impact of Surfactant on the Retention of CO ₂ and Methane in Carbonate Reservoirs. Energy & Fuels, 2018, 32, 5355-5363.	2.5	17
99	Theoretical Study on Deep Eutectic Solvents as Vehicles for the Delivery of Anesthetics. Journal of Physical Chemistry B, 2020, 124, 1794-1805.	1.2	17
100	Adsorption Role in Shale Gas Recovery and the Feasibility of CO ₂ in Shale Enhanced Gas Recovery: A Study on Shale Gas from Saudi Arabia. , 2017, , .		16
101	Insights into the Coal Extractive Solvent <i>N</i> -Methyl-2-pyrrolidone + Carbon Disulfide. Energy & Fuels, 2009, 23, 1591-1602.	2.5	15
102	Theoretical Study of Renewable Ionic Liquids in the Pure State and with Graphene and Carbon Nanotubes. Journal of Physical Chemistry B, 2015, 119, 12224-12237.	1.2	15
103	Use of modified oil fly ash to enhance asphalt concrete performance. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3231-3240.	1.3	15
104	Improvement in Photovoltaic Performance of Dye Sensitized Solar Cell Using Activated Carbon-TiO ₂ Composites-Based Photoanode. IEEE Journal of Photovoltaics, 2016, 6, 1191-1195.	1.5	15
105	Synthesis, characterization and evaluation of porous polybenzimidazole materials for CO ₂ adsorption at high pressures. Adsorption, 2016, 22, 247-260.	1.4	15
106	Theoretical Study of Low Viscous Ionic Liquids at the Graphene Interface. Journal of Physical Chemistry C, 2018, 122, 1645-1656.	1.5	15
107	Impact of clays on CO ₂ adsorption and enhanced gas recovery in sandstone reservoirs. International Journal of Greenhouse Gas Control, 2021, 106, 103286.	2.3	15
108	Mathematical Modelling of the Electrode Process of Azithromycin Using Cyclic Voltammetry at Hanging Mercury Drop Electrode. Sensors, 2002, 2, 436-446.	2.1	14

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109	Water Effect on Acid-Gas Capture Using Choline Lactate: A DFT Insight beyond Molecule-Molecule Pair Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5546-5557.	1.2	14
110	Insights on 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide + Ethanol Liquid Mixtures: A Molecular Dynamics Approach. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2729-2737.	1.0	14
111	Theoretical insights into the cineole-based deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2021, 154, 184504.	1.2	14
112	The Synthesis and Characterization of Microporous, High Surface Area Activated Carbon from Palm Seeds. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 93-103.	1.2	13
113	Folding of Graphene Nanostructures Driven by Ionic Liquids Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21081-21091.	1.5	13
114	Characterization of Amide-Alkanediol Intermolecular Interactions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4725-4738.	1.2	13
115	High-performance liquid chromatographic determination of simvastatin in medical drugs. <i>Journal of Analytical Chemistry</i> , 2006, 61, 63-66.	0.4	12
116	Insights on cholinium- and piperazinium-based ionic liquids under external electric fields: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2013, 139, 224502.	1.2	12
117	Physicochemical Insights on Alkylcarbonate-Alkanol Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5015-5028.	1.2	12
118	Fabrication of kaolin-based cement plug for CO ₂ storage wells. <i>Applied Clay Science</i> , 2017, 141, 81-87.	2.6	12
119	Carbon dioxide EGR and sequestration in mature and immature shale: Adsorption study. <i>Journal of Petroleum Science and Engineering</i> , 2020, 188, 106923.	2.1	12
120	Effect of CO ₂ Content on the Natural Gas Production from Tight Gas Sandstone Reservoirs. , 2017, , .		11
121	Insights on (C, BN, Si, Ge, MoS ₂) Nanotubes in Reline Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3556-3567.	1.2	11
122	Nanoscope study on carvone-terpene based natural deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2021, 155, 224702.	1.2	11
123	Insights on novel type V deep eutectic solvents based on levulinic acid. <i>Journal of Chemical Physics</i> , 2022, 156, 094504.	1.2	11
124	Molecular Insights into Benzimidazole-Linked Polymer Interactions with Carbon Dioxide and Nitrogen. <i>ChemistrySelect</i> , 2018, 3, 3691-3701.	0.7	10
125	Fabrication of Geopolymers from Untreated Kaolin Clay for Construction Purposes. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 129-137.	0.8	10
126	A theoretical study of gas adsorption on Î±-quartz (O ₂) for CO ₂ enhanced natural gas recovery. <i>Applied Surface Science</i> , 2020, 525, 146472.	3.1	10

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127	Optimized Binary Interaction Parameters for VLE Calculations of Natural Gas Mixtures via Cubic and Molecular-Based Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9687-9699.	1.8	9
128	Theoretical Study on the Solvation of C ₆₀ Fullerene by Ionic Liquids II: DFT Analysis of the Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10616-10629.	1.2	9
129	Enhanced Gas Recovery (EGR) Methods and Production Enhancement Techniques for Shale & Tight Gas Reservoirs. , 2017, , .		9
130	Treating MTBE-contaminated water using sewage sludge-derived activated carbon. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29397-29407.	2.7	9
131	Behavior of Antibiotics in Natural Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4669-4683.	1.0	9
132	Effect of chemical modification of oil fly ash and compatibilization on the rheological and morphological properties of low-density polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2486-2496.	1.3	8
133	An Experimental and Kinetic Study of the Sorption of Carbon Dioxide onto Amine-Treated Oil Fly Ash. <i>Journal of Chemistry</i> , 2016, 2016, 1-11.	0.9	8
134	Local environment structure and dynamics of CO ₂ in the 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide and related ionic liquids. <i>Journal of Chemical Physics</i> , 2017, 146, 104502.	1.2	8
135	Microscopic Characterization of CO ₂ and H ₂ S Removal by Sulfolane. <i>Energy & Fuels</i> , 2017, 31, 9800-9813.	2.5	8
136	Flavonols on graphene: a DFT insight. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	7
137	Flavonol-carbon nanostructure hybrid systems: a DFT study on the interaction mechanism and UV/Vis features. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4760-4771.	1.3	7
138	Long-Term Effects of the Application of Urban Waste Compost and Other Organic Amendments on <i>Solanum tuberosum</i> L.. <i>Agronomy</i> , 2020, 10, 1575.	1.3	7
139	Catalysis effect on CO ₂ methanation using MgH ₂ as a portable hydrogen medium. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14720-14730.	1.3	7
140	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
141	Insights into Glycol Ether-Alkanol Mixtures from a Combined Experimental and Theoretical Approach. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5601-5612.	1.2	6
142	Structural Elucidation of Covalent Organic Polymers (COP) and Their Linker Effect on Gas Adsorption Performance via Density Functional Theory Approach. <i>ChemistrySelect</i> , 2018, 3, 8294-8305.	0.7	6
143	Ab Initio Molecular Dynamics Investigation of CH ₄ /CO ₂ Adsorption on Calcite: Improving the Enhanced Gas Recovery Process. <i>ACS Omega</i> , 2020, 5, 30226-30236.	1.6	6
144	Insights into Tris(2-hydroxyethyl)methylammonium Methylsulfate Aqueous Solutions. <i>ChemPhysChem</i> , 2012, 13, 3340-3349.	1.0	5

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145	Effect of an alkyl amine-based corrosion inhibitor for 1018 carbon steel pipeline in sea water. <i>Anti-Corrosion Methods and Materials</i> , 2013, 60, 259-270.	0.6	5
146	Effect of Temperature and CO ₂ Content on the Natural Gas Production from Shale Gas Reservoirs. , 2017, , .		5
147	Evaluating the effect of using micronised barite on the properties of water-based drilling fluids. <i>International Journal of Oil, Gas and Coal Technology</i> , 2020, 25, 1.	0.1	5
148	A Theoretical Study on Trehalose + Water Mixtures for Dry Preservation Purposes. <i>Molecules</i> , 2020, 25, 1435.	1.7	5
149	Assessment of Using Copper Nitrate for Scavenging Hydrogen Sulfide While Drilling Sour Horizontal Wells. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	1.4	5
150	Kinetic study of effect of amine based corrosion inhibitor in reducing corrosion rate of 1018 carbon steel in seawater solution. <i>Corrosion Engineering Science and Technology</i> , 2011, 46, 767-776.	0.7	4
151	Surfactants Impact on CO ₂ Sequestration for Enhanced Gas Recovery and in Depleted Carbonate Reservoirs. , 2017, , .		4
152	Molecular Modeling Analysis of CO ₂ Absorption by Glymes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1948-1957.	1.2	4
153	A theoretical study on ionic liquid endohedral C ₅₄₀ fullerene. <i>RSC Advances</i> , 2014, 4, 45286-45299.	1.7	3
154	Density Functional Theory Study on the Cholinium Dihydrogenphosphate Ionic Liquid for Acid Gas Removal. <i>Journal of Solution Chemistry</i> , 2015, 44, 890-899.	0.6	3
155	Interaction Mechanism Insights on the Solvation of Fullerene C ₈₀ with Choline-based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12455-12463.	1.2	3
156	Less Corrosive, Non-Damaging Iron Sulfide Scale Remover. , 2016, , .		3
157	Properties of Dialkylcarbonate + 1-Alkanol Mixtures at the Vacuum Interface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29126-29134.	1.5	3
158	Insights into Carbon Nanotubes and Fullerenes in Molten Alkali Carbonates. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9909-9918.	1.5	3
159	The structure of CO ₂ and CH ₄ at the interface of a poly(urethane urea) oligomer model from the microscopic point of view. <i>Journal of Chemical Physics</i> , 2021, 155, 044704.	1.2	3
160	SYNTHESIS OF ACTIVATED CARBON FROM SPENT LUBRICATING OIL AND APPLICATION FOR ADSORPTION OF CADMIUM AND LEAD IONS FROM AQUEOUS SOLUTION. , 2006, , 195-200.		2
161	Synthesis of a New Cu-Aluminosilicate Catalyst for CO ₂ Capture and Conversion to Hydrocarbons. , 2015, , 49-58.		2
162	Destabilization And Treatment of Produced Water-Oil Emulsions Using Anionic Polyacrylamide. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
163	New Hydrogen Sulfide Scavenger for Drilling Sour Horizontal and Multilateral Reservoirs. , 2018, , .		2
164	Cu-K/Al ₂ O ₃ based catalysts for conversion of carbon dioxide to methane and carbon monoxide. Chemical Engineering Communications, 2020, 207, 946-960.	1.5	2
165	Ab-Initio Molecular Dynamics investigation of gas adsorption on $\hat{\alpha}$ -quartz (001) for CO ₂ enhanced natural gas recovery. Journal of Petroleum Science and Engineering, 2021, 205, 108963.	2.1	2
166	Land Vulnerability, Risk Zoning, and Ecological Protection in the Protection Forest of Pagaibamba (Peru). Forests, 2022, 13, 436.	0.9	2
167	Molecular dynamics of CH_4 / CO_2 on calcite for enhancing gas recovery. Canadian Journal of Chemical Engineering, 2022, 100, 3184-3195.	0.9	2
168	ADSORPTION OF CHROMIUM IONS FROM AQUEOUS SOLUTION USING ACTIVATED CARBO-ALUMINOSILICATE MATERIAL. , 2006, , 249-254.		1
169	Investigating the Compatibility of Enzyme with Chelating Agents for Calcium Carbonate-Filter Cake Removal. , 2017, , .		1
170	Removal of Sulfur Dioxide by a Slurry of Jordanian Oil Shale Ash. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2011, 34, 90-98.	1.2	0
171	Adsorption of H ₂ S from Natural Gas using treated Oil Fly Ash. , 2015, , 273-283.		0
172	Destabilization and Treatment of Produced Water-Oil Emulsions Using Anionic Polyacrylamide with Electrolyte of Aluminum Sulphate and Ferrous Sulphate. , 2016, , .		0
173	Utilization of Desulfurized Diesel in Domestic Boiler. , 2021, , .		0
174	Forecasting Air Pollution with Sulfur Dioxide Emitted from Burning Desulfurized Diesel Using Artificial Neural Network. Ecological Engineering and Environmental Technology, 2021, 22, 97-102.	0.3	0