

Mert Atilhan

List of Publications by Citations

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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.

180
papers

5,364
citations

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64
g-index

186
ext. papers

6,208
ext. citations

4.5
avg, IF

6.38
L-index

#	Paper	IF	Citations
180	Deep Eutectic Solvents: Physicochemical Properties and Gas Separation Applications. <i>Energy & Fuels</i> , 2015 , 29, 2616-2644	4.1	575
179	Review on the Use of Ionic Liquids (ILs) as Alternative Fluids for CO ₂ Capture and Natural Gas Sweetening. <i>Energy & Fuels</i> , 2010 , 24, 5817-5828	4.1	396
178	Thermophysical Properties of Pure Ionic Liquids: Review of Present Situation. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9580-9595	3.9	359
177	High capacity carbon dioxide adsorption by inexpensive covalent organic polymers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8431		162
176	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17855-17868	3.9	139
175	Highly Stable Nanoporous Sulfur-Bridged Covalent Organic Polymers for Carbon Dioxide Removal. <i>Advanced Functional Materials</i> , 2013 , 23, 2270-2276	15.6	126
174	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
173	An approach for the rationalization of melting temperature for deep eutectic solvents from DFT. <i>Chemical Physics Letters</i> , 2015 , 634, 151-155	2.5	82
172	Markedly Improved CO ₂ Capture Efficiency and Stability of Gallium Substituted Hydrotalcites at Elevated Temperatures. <i>Chemistry of Materials</i> , 2009 , 21, 3473-3475	9.6	74
171	Amidoximes: promising candidates for CO ₂ capture. <i>Energy and Environmental Science</i> , 2011 , 4, 4528	35.4	70
170	Interfacial Properties of Deep Eutectic Solvents Regarding to CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21413-21425	3.8	63
169	High-capacity methane storage in flexible alkane-linked porous aromatic network polymers. <i>Nature Energy</i> , 2019 , 4, 604-611	62.3	62
168	Green hydrogen as an alternative fuel for the shipping industry. <i>Current Opinion in Chemical Engineering</i> , 2021 , 31, 100668	5.4	59
167	On the viscosity of pyridinium based ionic liquids: an experimental and computational study. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12499-513	3.4	58
166	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16774-16785	3.9	52
165	A computational study on choline benzoate and choline salicylate ionic liquids in the pure state and after CO ₂ adsorption. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9171-85	3.4	52
164	Systematic Study on the Viscosity of Ionic Liquids: Measurement and Prediction. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10918-10924	3.9	51

163	Mixed ionic liquids: the case of pyridinium-based fluids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2526-374	3.7	47
162	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
161	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
160	The impact of charges in force field parameterization for molecular dynamics simulations of deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2015 , 211, 506-514	6	45
159	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}	4.1	44
158	Choline-Based Ionic Liquids on Graphite Surfaces and Carbon Nanotubes Solvation: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12055-12065	3.8	44
157	Ionic liquid design for enhanced carbon dioxide capture by computer-aided molecular design approach. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 1301-1312	4.3	43
156	(p,Vm,T) and phase equilibrium measurements for a natural gas-like mixture using an automated isochoric apparatus. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 1489-1494	2.9	43
155	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, 20772-85	9.5	43
154	Gas solubility and rheological behavior study of betaine and alanine based natural deep eutectic solvents (NADES). <i>Journal of Molecular Liquids</i> , 2018 , 256, 286-295	6	42
153	Study on hydroxylammonium-based ionic liquids. I. Characterization. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12473-86	3.4	42
152	P [∞] measurements and derived properties of liquid 1-alkanols. <i>Journal of Chemical Thermodynamics</i> , 2012 , 47, 241-259	2.9	41
151	Computational Study of Hexamethylguanidinium Lactate Ionic Liquid: A Candidate for Natural Gas Sweetening. <i>Energy & Fuels</i> , 2010 , 24, 4989-5001	4.1	41
150	CO ₂ adsorption studies on hydroxy metal carbonates M(CO ₃) _x (OH) _y (M = Zn, Zn-Mg, Mg, Mg-Cu, Cu, Ni, and Pb) at high pressures up to 175 bar. <i>Langmuir</i> , 2011 , 27, 10642-7	4	38
149	Accurate density measurements for a 91% methane natural gas-like mixture. <i>Journal of Chemical Thermodynamics</i> , 2007 , 39, 1157-1163	2.9	38
148	A comprehensive review on the rheological behavior of imidazolium based ionic liquids and natural deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2019 , 277, 932-958	6	38
147	A combined computational and experimental study of high pressure and supercritical CO ₂ adsorption on Basolite MOFs. <i>Microporous and Mesoporous Materials</i> , 2013 , 175, 34-42	5.3	37
146	CO ₂ adsorption studies on Prussian blue analogues. <i>Microporous and Mesoporous Materials</i> , 2012 , 162, 91-97	5.3	37

145	Amidoxime porous polymers for CO ₂ capture. <i>RSC Advances</i> , 2013 , 3, 17203	3.7	36
144	A theoretical study on mitigation of CO ₂ through advanced deep eutectic solvents. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 39, 62-73	4.2	35
143	Insights of CO ₂ adsorption performance of amine impregnated mesoporous silica (SBA-15) at wide range pressure and temperature conditions. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 43, 22-32	4.2	34
142	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
141	Observation of the wrapping mechanism in amine carbon dioxide molecular interactions on heterogeneous sorbents. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14177-81	3.6	34
140	Nanowetting of Graphene by Ionic Liquid Droplets. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24529-24538	3.8	33
139	Design of arginine-based therapeutic deep eutectic solvents as drug solubilization vehicles for active pharmaceutical ingredients. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10621-10634	3.6	32
138	Limitations and high pressure behavior of MOF-5 for CO ₂ capture. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14319-27	3.6	32
137	Gas Solubility and Rheological Behavior of Natural Deep Eutectic Solvents (NADES) via Combined Experimental and Molecular Simulation Techniques. <i>ChemistrySelect</i> , 2017 , 2, 7278-7295	1.8	32
136	Adsorption of choline benzoate ionic liquid on graphene, silicene, germanene and boron-nitride nanosheets: a DFT perspective. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16315-26	3.6	32
135	An experimental and theoretical investigation of the physicochemical properties on choline chloride L-lactic acid based natural deep eutectic solvent (NADES). <i>Journal of Molecular Liquids</i> , 2019 , 290, 110916	6	31
134	A density functional theory insight towards the rational design of ionic liquids for SO ₂ capture. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13559-74	3.6	31
133	Gas hydrates inhibition via combined biomolecules and synergistic materials at wide process conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 46, 873-883	4.6	31
132	Elucidating the Properties of Graphene-Deep Eutectic Solvents Interface. <i>Langmuir</i> , 2017 , 33, 5154-5165	4	30
131	Molecular dynamics simulations of mixed deep eutectic solvents and their interaction with nanomaterials. <i>Journal of Molecular Liquids</i> , 2019 , 283, 147-154	6	30
130	A molecular dynamics study on aminoacid-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2016 , 213, 201-212	6	30
129	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	4.7	30
128	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	3.8	30

127	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	2.8	30
126	On the properties of (choline chloride + lactic acid) deep eutectic solvent with methanol mixtures. <i>Journal of Molecular Liquids</i> , 2018 , 272, 815-820	6	30
125	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, 5795-8094	3.4	28
124	Viscosity Measurements and Data Correlation for Two Synthetic Natural Gas Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2498-2504	2.8	28
123	Adsorption equilibrium studies of CO ₂ , CH ₄ and N ₂ on various modified zeolites at high pressures up to 200 bars. <i>Microporous and Mesoporous Materials</i> , 2018 , 262, 49-58	5.3	28
122	A theoretical study on lidocaine solubility in deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27464-27473	3.6	27
121	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	3.8	26
120	Insights into choline chloride-phenylacetic acid deep eutectic solvent for CO ₂ absorption. <i>RSC Advances</i> , 2016 , 6, 109201-109210	3.7	26
119	Water effect on CO ₂ absorption for hydroxylammonium based ionic liquids: A molecular dynamics study. <i>Chemical Physics</i> , 2012 , 400, 118-125	2.3	26
118	Gas hydrate blockage removal using chemical injection in vertical pipes. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 40, 17-23	4.6	25
117	P [∞] measurements and derived properties of liquid 1,2-alkanediols. <i>Journal of Chemical Thermodynamics</i> , 2013 , 57, 137-144	2.9	25
116	Rheological, Thermodynamic, and Gas Solubility Properties of Phenylacetic Acid-Based Deep Eutectic Solvents. <i>Chemical Engineering and Technology</i> , 2017 , 40, 778-790	2	24
115	P- ρ -T Data for Carbon Dioxide from (310 to 450) K up to 160 MPa. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4611-4613	2.8	24
114	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	3.9	23
113	Insights on the mixtures of imidazolium based ionic liquids with molecular solvents. <i>Journal of Molecular Liquids</i> , 2018 , 255, 199-207	6	23
112	Accurate P [∞] Data for Methane from (300 to 450) K up to 180 MPa. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 826-829	2.8	23
111	High-pressure gas hydrate autoclave hydraulic experiments and scale-up modeling on the effect of stirring RPM effect. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 38, 50-58	4.6	22
110	Assessment of DFT methods for studying acid gas capture by ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26875-91	3.6	22

109	Effect of Hydrogen Bond Donors and Acceptors on CO ₂ Absorption by Deep Eutectic Solvents. <i>Processes</i> , 2020 , 8, 1533	2.9	22
108	Deep Eutectic Solvents on the Surface of Face Centered Cubic Metals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10400-10409	3.8	22
107	Interfacial Properties of Double Salt Ionic Liquids: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28405-28416	3.8	22
106	Nanosopic Vision on Fuel Dearomatization Using Ionic Liquids: The Case of Piperazine-Based Fluids. <i>Energy & Fuels</i> , 2013 , 27, 2515-2527	4.1	22
105	Theoretical study on the solvation of C ₆₀ fullerene by ionic liquids. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11330-40	3.4	21
104	Study of dimethoxyethane/ethanol solutions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8864-74	3.4	21
103	Corrosion Behavior of Carbon Steel in CO ₂ Saturated Amine and Imidazolium-, Ammonium-, and Phosphonium-Based Ionic Liquid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 446-454	3.9	20
102	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	3.8	20
101	Molecular Dynamics Study of Carbon Nanostructures in N-Methylpiperazinium Lactate Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22046-22059	3.8	20
100	Effect of injected chemical density on hydrate blockage removal in vertical pipes: Use of MEG/MeOH mixture to remove hydrate blockage. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 840-847	4.6	20
99	Force Transmission Error Analysis for a High-Pressure Single-Sinker Magnetic Suspension Densimeter. <i>International Journal of Thermophysics</i> , 2010 , 31, 698-709	2.1	20
98	Behavior of Deep Eutectic Solvents under External Electric Fields: A Molecular Dynamics Approach. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 221-232	3.4	19
97	Theoretical Study of Amino Acid-Based Ionic Liquids Interacting with Carbon Nanosystems. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27080-27094	3.8	19
96	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
95	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
94	p _{III} Behavior of a Lean Synthetic Natural Gas Mixture Using Magnetic Suspension Densimeters and an Isochoric Apparatus: Part I. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 212-221	2.8	18
93	p _{III} Behavior of Three Lean Synthetic Natural Gas Mixtures Using a Magnetic Suspension Densimeter and Isochoric Apparatus from (250 to 450) K with Pressures up to 150 MPa: Part II. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3766-3774	2.8	18
92	On the Viscosity of Natural Gases from Qatari North Field Reservoir. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5117-5123	2.8	18

91	Simultaneous CO and SO capture by using ionic liquids: a theoretical approach. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5411-5422	3.6	17
90	Design of Ionic Liquid as Carbon Capture Solvent for a Bioenergy System: Integration of Bioenergy and Carbon Capture Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5241-5252	8.3	17
89	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	2.8	17
88	On the behaviour of aqueous solutions of deep eutectic solvents at lipid biomembranes. <i>Journal of Molecular Liquids</i> , 2017 , 247, 116-125	6	17
87	Quantum Chemistry Insight into the Interactions Between Deep Eutectic Solvents and SO ₂ . <i>Molecules</i> , 2019 , 24,	4.8	17
86	A systematic visual methodology to design ionic liquids and ionic liquid mixtures: Green solvent alternative for carbon capture. <i>Computers and Chemical Engineering</i> , 2016 , 91, 219-232	4	17
85	In silico rational design of ionic liquids for the exfoliation and dispersion of boron nitride nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1212-24	3.6	16
84	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
83	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
82	Insights from quantum chemistry into piperazine-based ionic liquids and their behavior with regard to CO ₂ . <i>Journal of Molecular Modeling</i> , 2014 , 20, 2107	2	15
81	Synthesis, characterization and evaluation of porous polybenzimidazole materials for CO ₂ adsorption at high pressures. <i>Adsorption</i> , 2016 , 22, 247-260	2.6	14
80	Theoretical Study of Oil Desulfuration by Ammonium-Based Deep Eutectic Solvents. <i>Energy & Fuels</i> , 2018 , 32, 7497-7507	4.1	14
79	Isothermal PVT measurements on Qatar's North Field type synthetic natural gas mixtures using a vibrating-tube densimeter. <i>Journal of Chemical Thermodynamics</i> , 2012 , 53, 1-8	2.9	14
78	Review and Perspectives for Effective Solutions to Grand Challenges of Energy and Fuels Technologies via Novel Deep Eutectic Solvents. <i>Energy & Fuels</i> , 2021 , 35, 6402-6419	4.1	14
77	Intermolecular forces in 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + ethanol mixtures. <i>Journal of Molecular Liquids</i> , 2018 , 258, 1-9	6	13
76	Theoretical Study of Low Viscous Ionic Liquids at the Graphene Interface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1645-1656	3.8	13
75	A systematic approach to design task-specific ionic liquids and their optimal operating conditions. <i>Molecular Systems Design and Engineering</i> , 2016 , 1, 109-121	4.6	13
74	Folding of Graphene Nanostructures Driven by Ionic Liquids Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21081-21091	3.8	13

73	Insights into alkyl lactate + water mixed fluids. <i>Journal of Molecular Liquids</i> , 2014 , 199, 215-223	6	13
72	A quantum chemistry study of natural gas hydrates. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2182	2	13
71	New P [∞] Data for Nitrogen at Temperatures from (265 to 400) K at Pressures up to 150 MPa [∞] <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4227-4230	2.8	13
70	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	2.8	13
69	Characterization of amide-alkanediol intermolecular interactions. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4725-38	3.4	12
68	Theoretical Study of Renewable Ionic Liquids in the Pure State and with Graphene and Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12224-37	3.4	12
67	Deep Eutectic Solvent Reline at 2D Nanomaterial Interfaces. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1197-1206	3.4	12
66	A new equation to correlate liquid kinematic viscosities of multicomponent mixtures. <i>Fluid Phase Equilibria</i> , 2012 , 329, 8-21	2.5	12
65	Accurate P [∞] Data for Ethane from (298 to 450) K up to 200 MPa. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2746-2749	2.8	12
64	A combined experimental and theoretical study on gas adsorption performance of amine and amide porous polymers. <i>Microporous and Mesoporous Materials</i> , 2019 , 279, 61-72	5.3	12
63	Review on chemical enhanced oil recovery: Utilization of ionic liquids and deep eutectic solvents. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 205, 108746	4.4	12
62	Molecular Dynamics Simulations of Metal Nanoparticles in Deep Eutectic Solvents. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18029-18039	3.8	11
61	Physicochemical Insights on Alkylcarbonate-Alkanol Solutions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5015-28	3.4	11
60	A theoretical study on the adsorption of acid gases by boron nitride-based nanomaterials. <i>Applied Surface Science</i> , 2019 , 480, 83-95	6.7	11
59	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, 5546-57	3.4	10
58	Theoretical Study on Deep Eutectic Solvents as Vehicles for the Delivery of Anesthetics. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1794-1805	3.4	10
57	A theoretical study on mixtures of amino acid-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10213-10223	3.6	10
56	Molecular Insights into Benzimidazole-Linked Polymer Interactions with Carbon Dioxide and Nitrogen. <i>ChemistrySelect</i> , 2018 , 3, 3691-3701	1.8	10

55	Structure of alkylcarbonate + n-alkane mixed fluids. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11310-223,4	10
54	Viscosity and Density of Ternary Solution of Calcium Chloride + Sodium Chloride + Water from T = (293.15 to 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2133-2143	2.8 10
53	Insights on the water effect on deep eutectic solvents properties and structuring: The archetypical case of choline chloride+ethylene glycol. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117717	6 10
52	Insights on [BMIM][BF4] and [BMIM][PF6] ionic liquids and their binary mixtures with acetone and acetonitrile. <i>Journal of Molecular Liquids</i> , 2019 , 294, 111632	6 9
51	Insights on Betaine + Lactic Acid Deep Eutectic Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11880-11892	3.9 9
50	An experimental study on doubly salt effect for methane hydrate inhibition. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 72, 103015	4.6 9
49	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	3.9 9
48	A theoretical study on aminoacid-based ionic liquids with acid gases and water. <i>Journal of Molecular Liquids</i> , 2017 , 225, 347-356	6 9
47	Permeabilities of CO, HS and CH through Choline-Based Ionic Liquids: Atomistic-Scale Simulations. <i>Molecules</i> , 2019 , 24,	4.8 8
46	Designing ionic liquid solvents for carbon capture using property-based visual approach. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 1177-1188	4.3 8
45	Interfacial properties of 1-ethyl-3-methylimidazolium glycinate ionic liquid regarding CO2, SO2 and water from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2016 , 220, 910-917	6 8
44	Molecular dynamics and experimental characterization of [BMIM][BF4] and [BMIM][PF6] with ether cosolvent binary mixtures. <i>Journal of Molecular Liquids</i> , 2018 , 271, 65-73	6 7
43	Viscous origin of ionic liquids at the molecular level: A quantum chemical insight. <i>Chemical Physics Letters</i> , 2014 , 610-611, 267-272	2.5 7
42	Microscopic characterization of mixtures of amino acid ionic liquids and organic solvents. <i>Journal of Molecular Liquids</i> , 2018 , 250, 111-120	6 7
41	A nanoscopic approach on benzene-toluene-xylenes extraction by sulfolane. <i>Journal of Molecular Liquids</i> , 2018 , 249, 1039-1046	6 7
40	Microscopic characterization of amino acid ionic liquids - water mixtures. <i>Journal of Molecular Liquids</i> , 2017 , 236, 81-92	6 6
39	Theoretical Study on the Solvation of C60 Fullerene by Ionic Liquids II: DFT Analysis of the Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10616-29	3.4 6
38	Flavonol-carbon nanostructure hybrid systems: a DFT study on the interaction mechanism and UV/Vis features. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4760-71	3.6 6

37	Nanoscopic characterization of type II porous liquid and its use for CO ₂ absorption from molecular simulation. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115660	6	6
36	High performance CO ₂ filtration and sequestration by using bromomethyl benzene linked microporous networks. <i>RSC Advances</i> , 2016 , 6, 66324-66335	3-7	6
35	Insights into Glycol Ether-Alkanol Mixtures from a Combined Experimental and Theoretical Approach. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5601-5612	3-4	5
34	Insights on (C, BN, Si, Ge, MoS) Nanotubes in Reline Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3556-3567	3-4	5
33	Microscopic Characterization of CO ₂ and H ₂ S Removal by Sulfolane. <i>Energy & Fuels</i> , 2017 , 31, 9800-9813	4-5	5
32	Thermodynamic characterization of deepwater natural gas mixtures with heavy hydrocarbon content at high pressures. <i>Journal of Chemical Thermodynamics</i> , 2015 , 82, 134-142	2-9	5
31	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
30	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	3-9	5
29	Insights into tris-(2-hydroxyethyl)methylammonium methylsulfate aqueous solutions. <i>ChemPhysChem</i> , 2012 , 13, 3340-9	3-2	5
28	Natural Gas Hydrates		5
27	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
26	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	1-8	5
25	Flavonols on graphene: a DFT insight. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1-9	4
24	Molecular Modeling Analysis of CO Absorption by Glymes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1948-1957	3-4	4
23	Behavior of Antibiotics in Natural Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4669-4683	2-8	4
22	A nanoscopic explanation of nitric oxide solubility in natural deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2021 , 324, 114673	6	4
21	Molecular dynamics study on water confinement in deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116758	6	4
20	Density Functional Theory Study on the Cholinium Dihydrogenphosphate Ionic Liquid for Acid Gas Removal. <i>Journal of Solution Chemistry</i> , 2015 , 44, 890-899	1-8	3

19	Interaction Mechanism Insights on the Solvation of Fullerene B(80)with Choline-based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12455-63	3.4	3
18	A theoretical study on ionic liquid endohedral C540 fullerene. <i>RSC Advances</i> , 2014 , 4, 45286-45299	3.7	3
17	Theoretical insights into the cineole-based deep eutectic solvents. <i>Journal of Chemical Physics</i> , 2021 , 154, 184504	3.9	3
16	Properties of Dialkylcarbonate + 1-Alkanol Mixtures at the Vacuum Interface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29126-29134	3.8	3
15	Evaluating the Performance of a Newly Developed Carbon Capture Device for Mobile Emission Sources. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017 , 139,	2.6	2
14	Nanostructuring and macroscopic behavior of type V deep eutectic solvents based on monoterpenoids.. <i>Physical Chemistry Chemical Physics</i> , 2021 , 24, 512-531	3.6	2
13	Molecular dynamics study on the use of Deep Eutectic Solvents for Enhanced Oil Recovery. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 209, 109953	4.4	2
12	On the interaction between carbon nanomaterials and lipid biomembranes. <i>Journal of Molecular Liquids</i> , 2019 , 295, 111714	6	1
11	Intermolecular forces in pyrrolidones + 1,2-alkanediol liquid mixtures. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112539	6	1
10	Review on Natural Gas Thermophysical Property Measurement Techniques 2012 ,		1
9	Applications of Ionic Liquids in Gas Processing 2012 , 133-138		1
8	Nanosopic study on carvone-terpene based natural deep eutectic solvents.. <i>Journal of Chemical Physics</i> , 2021 , 155, 224702	3.9	1
7	Membranes for CO2 Separation 2016 , 237-292		1
6	Insights on novel type V deep eutectic solvents based on levulinic acid.. <i>Journal of Chemical Physics</i> , 2022 , 156, 094504	3.9	1
5	Bulk liquid phase and interfacial behavior of cineole Based deep eutectic solvents with regard to carbon dioxide. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118748	6	1
4	On the behavior of quercetin + organic solvent solutions and their role for C60 fullerene solubilization. <i>Journal of Molecular Liquids</i> , 2022 , 345, 117714	6	0
3	High Pressure and High Temperature CO2 Adsorption on Hydrotalcite Derivatives 2012 , 78-81		
2	Exceptional CO2 capture via polymeric materials 2012 , 38-41		

- 1 A Systematic Visual Approach to Ionic Liquid Design for Carbon Dioxide Capture. *Computer Aided Chemical Engineering*, **2015**, 1211-1216 o.6