

# Dongshun Deng

## List of Publications by Year in descending order

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39  
papers

1,779  
citations

257450

24  
h-index

315739

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docs citations

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times ranked

1201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solubilities and thermodynamic properties of CO <sub>2</sub> in choline-chloride based deep eutectic solvents. <i>Journal of Chemical Thermodynamics</i> , 2014, 75, 58-62.	2.0	130
2	The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. <i>RSC Advances</i> , 2013, 3, 15518.	3.6	127
3	Solubilities of carbon dioxide in the eutectic mixture of levulinic acid (or furfuryl alcohol) and choline chloride. <i>Journal of Chemical Thermodynamics</i> , 2015, 88, 72-77.	2.0	125
4	Solubilities of Carbon Dioxide in Eutectic Mixtures of Choline Chloride and Dihydric Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 1247-1253.	1.9	120
5	Palladium nanoparticles supported on mpg-C <sub>3</sub> N <sub>4</sub> as active catalyst for semihydrogenation of phenylacetylene under mild conditions. <i>Green Chemistry</i> , 2013, 15, 2525.	9.0	117
6	Investigation of protic NH <sub>4</sub> SCN-based deep eutectic solvents as highly efficient and reversible NH <sub>3</sub> absorbents. <i>Chemical Engineering Journal</i> , 2019, 358, 936-943.	12.7	110
7	Physicochemical Properties and Investigation of Azole-Based Deep Eutectic Solvents as Efficient and Reversible SO <sub>2</sub> Absorbents. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13850-13856.	3.7	99
8	Investigation of a deep eutectic solvent formed by levulinic acid with quaternary ammonium salt as an efficient SO <sub>2</sub> absorbent. <i>New Journal of Chemistry</i> , 2015, 39, 8158-8164.	2.8	98
9	Investigation of solubilities of carbon dioxide in five levulinic acid-based deep eutectic solvents and their thermodynamic properties. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 212-217.	2.0	76
10	Solubilities and Thermodynamic Properties of Carbon Dioxide in Guaiacol-Based Deep Eutectic Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 1448-1455.	1.9	70
11	Solubility and thermodynamic properties of NH <sub>3</sub> in choline chloride-based deep eutectic solvents. <i>Journal of Chemical Thermodynamics</i> , 2019, 133, 79-84.	2.0	70
12	New levulinic acid-based deep eutectic solvents: Synthesis and physicochemical property determination. <i>Journal of Molecular Liquids</i> , 2016, 222, 201-207.	4.9	67
13	Efficient Absorption of Low Partial Pressure SO <sub>2</sub> by 1-Ethyl-3-methylimidazolium Chloride Plus N-Formylmorpholine Deep Eutectic Solvents. <i>Energy &amp; Fuels</i> , 2020, 34, 665-671.	5.1	47
14	Protic guanidine isothiocyanate plus acetamide deep eutectic solvents with low viscosity for efficient NH <sub>3</sub> capture and NH <sub>3</sub> /CO <sub>2</sub> separation. <i>Journal of Molecular Liquids</i> , 2021, 324, 114719.	4.9	44
15	Efficient and reversible absorption of NH <sub>3</sub> by functional azole-glycerol deep eutectic solvents. <i>New Journal of Chemistry</i> , 2019, 43, 11636-11642.	2.8	40
16	SO <sub>2</sub> absorption/desorption performance of renewable phenol-based deep eutectic solvents. <i>Separation Science and Technology</i> , 2018, 53, 2150-2158.	2.5	38
17	Solubilities and Thermodynamic Properties of CO <sub>2</sub> in Four Azole-Based Deep Eutectic Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 2091-2096.	1.9	36
18	Absorption of SO <sub>2</sub> in Furoate Ionic Liquids/PEG200 Mixtures and Thermodynamic Analysis. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 259-268.	1.9	29

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19	Solubilities and thermodynamic properties of SO <sub>2</sub> in five biobased solvents. <i>Journal of Chemical Thermodynamics</i> , 2016, 92, 207-213.	2.0	28
20	Protic ionic liquid ethanolamine thiocyanate with multiple sites for highly efficient NH <sub>3</sub> uptake and NH <sub>3</sub> /CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2021, 276, 119298.	7.9	27
21	Investigation of the Solubilities of Carbon Dioxide in Some Low Volatile Solvents and Their Thermodynamic Properties. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 1254-1261.	1.9	26
22	Ammonia Solubility, Density, and Viscosity of Choline Chloride–Dihydric Alcohol Deep Eutectic Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 4845-4854.	1.9	26
23	Solubilities of Carbon Dioxide in Five Biobased Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 104-111.	1.9	25
24	Investigation of furoate-based ionic liquid as efficient SO <sub>2</sub> absorbent. <i>New Journal of Chemistry</i> , 2017, 41, 2090-2097.	2.8	24
25	Solubility of CO <sub>2</sub> in amide-based Brønsted acidic ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 355-359.	2.0	22
26	Efficient uptake of NH <sub>3</sub> by dual active sites NH <sub>4</sub> SCN-imidazole deep eutectic solvents with low viscosity. <i>Journal of Molecular Liquids</i> , 2021, 339, 116724.	4.9	22
27	Highly efficient absorption and separation of NH <sub>3</sub> by simple lithium deep eutectic solvents. <i>Separation and Purification Technology</i> , 2021, 279, 119763.	7.9	22
28	Hydrocracking of bio-alkanes over Pt/Al-MCM-41 mesoporous molecular sieves for bio-jet fuel production. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	20
29	Solubility and thermodynamic properties of SO <sub>2</sub> in three low volatile urea derivatives. <i>Journal of Chemical Thermodynamics</i> , 2016, 101, 12-18.	2.0	18
30	Low pressure solubilities of CO <sub>2</sub> in five fatty amine polyoxyethylene ethers. <i>Journal of Chemical Thermodynamics</i> , 2014, 72, 89-93.	2.0	14
31	Investigation of the weak basic butyltriethylammonium acetylacetonate and polyethylene glycol mixture as a new efficient CO <sub>2</sub> absorption solvent. <i>Journal of Chemical Thermodynamics</i> , 2014, 79, 230-234.	2.0	12
32	Investigation of SO <sub>2</sub> solubilities in some biobased solvents and their thermodynamic properties. <i>Journal of Chemical Thermodynamics</i> , 2018, 119, 84-91.	2.0	9
33	Solubilities and Thermodynamic Properties of NH <sub>3</sub> in Glycerin and its Derivatives. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 1131-1139.	1.9	9
34	Solubilities and Thermodynamic Properties of Carbon Dioxide in Some Biobased Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 3355-3362.	1.9	8
35	Investigation of NH <sub>3</sub> absorption by protic imidazolium thiocyanate-based deep eutectic solvents with multiple binding sites and low viscosity. <i>New Journal of Chemistry</i> , 0, , .	2.8	8
36	Vapour–liquid equilibrium measurements and modelling for the ternary system (water+2-propanol+1-butyl-3-methylimidazolium acetate). <i>Physics and Chemistry of Liquids</i> , 2012, 50, 504-512.	2.0	5

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37	Solubility and thermodynamic properties of sulfur dioxide in water. <i>Journal of Chemical Thermodynamics</i> , 2016, 95, 190-194.	2.0	5
38	Physicochemical property and solubility of SO <sub>2</sub> in glycerin derivatives. <i>Journal of Molecular Liquids</i> , 2018, 264, 66-71.	4.9	5
39	Investigation of guanidinium acetylacetonate and polyethylene glycol mixture as a new reversible and efficient SO <sub>2</sub> absorbent. <i>Separation Science and Technology</i> , 2021, 56, 2499-2506.	2.5	1