

Lifang Chen

List of Publications by Year in descending order

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82
papers

3,277
citations

109321

35
h-index

161849

54
g-index

83
all docs

83
docs citations

83
times ranked

3189
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of acidic deep eutectic solvents on synthesis, properties and applications. <i>Green Energy and Environment</i> , 2020, 5, 8-21.	8.7	234
2	An Overview of Mutual Solubility of Ionic Liquids and Water Predicted by COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6256-6264.	3.7	148
3	Intercalation of Aggregation-Free and Well-Dispersed Gold Nanoparticles into the Walls of Mesoporous Silica as a Robust "Green" Catalyst for <i>n</i> -Alkane Oxidation. <i>Journal of the American Chemical Society</i> , 2009, 131, 914-915.	13.7	119
4	Screening of ionic liquids for solvent-sensitive extraction "with deep desulfurization as an example. <i>Chemical Engineering Science</i> , 2015, 129, 69-77.	3.8	117
5	TiO ₂ Nanoflakes Modified with Gold Nanoparticles as Photocatalysts with High Activity and Durability under near UV Irradiation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1641-1645.	3.1	98
6	Solubilities of CO ₂ in Poly(ethylene glycols) from (303.15 to 333.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 610-616.	1.9	93
7	Dynamics of CO ₂ Absorption and Desorption Processes in Alkanolamine with Cosolvent Polyethylene Glycol. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12081-12088.	3.7	82
8	Screening deep eutectic solvents for extractive desulfurization of fuel based on COSMO-RS model. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 125, 246-252.	3.6	80
9	Carbon Dioxide Solubility in Phosphonium-Based Deep Eutectic Solvents: An Experimental and Molecular Dynamics Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17514-17523.	3.7	72
10	Facile synthesis of sulfate-doped Ag ₃ PO ₄ with enhanced visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 681-689.	20.2	68
11	Computer-Aided Design of Ionic Liquids as Absorbent for Gas Separation Exemplified by CO ₂ Capture Cases. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12025-12035.	6.7	68
12	Deep Separation of Benzene from Cyclohexane by Liquid Extraction Using Ionic Liquids as the Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5559-5564.	3.7	66
13	Computer-aided ionic liquid design for alkane/cycloalkane extractive distillation process. <i>Green Energy and Environment</i> , 2019, 4, 154-165.	8.7	66
14	Multilevel screening of ionic liquid absorbents for simultaneous removal of CO ₂ and H ₂ S from natural gas. <i>Separation and Purification Technology</i> , 2020, 248, 117053.	7.9	66
15	Computer-aided ionic liquid design for separation processes based on group contribution method and COSMO-SAC model. <i>Chemical Engineering Science</i> , 2017, 159, 58-68.	3.8	63
16	Visible-light-driven Ag ₂ MoO ₄ /Ag ₃ PO ₄ composites with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017, 701, 350-357.	5.5	63
17	Computer-aided design and process evaluation of ionic liquids for n-hexane-methylcyclopentane extractive distillation. <i>Separation and Purification Technology</i> , 2018, 196, 157-165.	7.9	59
18	Prediction of CO ₂ solubility in deep eutectic solvents using random forest model based on COSMO-RS-derived descriptors. <i>Green Chemical Engineering</i> , 2021, 2, 431-440.	6.3	57

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19	Simulation based ionic liquid screening for benzene-cyclohexane extractive separation. Chemical Engineering Science, 2014, 113, 45-53.	3.8	55
20	COSMO-descriptor based computer-aided ionic liquid design for separation processes. Chemical Engineering Science, 2017, 162, 364-374.	3.8	53
21	Microwave-assisted synthesis of Ag/Ag ₂ SO ₄ /ZnO nanostructures for efficient visible-light-driven photocatalysis. Journal of Molecular Catalysis A, 2015, 401, 81-89.	4.8	52
22	Effect of cation alkyl chain length on liquid-liquid equilibria of {ionic liquids+thiophene+heptane}: COSMO-RS prediction and experimental verification. Fluid Phase Equilibria, 2016, 425, 244-251.	2.5	52
23	COSMO-descriptor based computer-aided ionic liquid design for separation processes. Part I: Modified group contribution methodology for predicting surface charge density profile of ionic liquids. Chemical Engineering Science, 2017, 162, 355-363.	3.8	52
24	Synthesis and surface activity of single-crystalline Co ₃ O ₄ (111) holey nanosheets. Nanoscale, 2010, 2, 1657.	5.6	51
25	Selective oxidation of cyclohexanol to cyclohexanone in the ionic liquid 1-octyl-3-methylimidazolium chloride. Chemical Communications, 2011, 47, 9354.	4.1	51
26	Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural in Aqueous Media with Au-Pd Supported on Zinc Hydroxycarbonate. ChemCatChem, 2016, 8, 3636-3643.	3.7	50
27	Gold Nanoparticles Intercalated into the Walls of Mesoporous Silica as a Versatile Redox Catalyst. Industrial & Engineering Chemistry Research, 2011, 50, 13642-13649.	3.7	49
28	Reprint of: Simulation based ionic liquid screening for benzene-cyclohexane extractive separation. Chemical Engineering Science, 2014, 115, 186-194.	3.8	48
29	Selection of Imidazolium-Based Ionic Liquids for Vitamin E Extraction from Deodorizer Distillate. ACS Sustainable Chemistry and Engineering, 2016, 4, 583-590.	6.7	48
30	Bifunctional imidazole-PTSA deep eutectic solvent for synthesizing long-chain ester IBIBE in reactive extraction. AIChE Journal, 2019, 65, 675-683.	3.6	47
31	Advances of Ionic Liquids and Deep Eutectic Solvents in Green Processes of Biomass-Derived 5-Hydroxymethylfurfural. ChemSusChem, 2022, 15, .	6.8	47
32	Association extraction for vitamin E recovery from deodorizer distillate by <i>in situ</i> formation of deep eutectic solvent. AIChE Journal, 2017, 63, 2212-2220.	3.6	43
33	Atomically dispersed Pd catalysts for the selective hydrogenation of succinic acid to ³ -butyrolactone. Catalysis Today, 2016, 276, 55-61.	4.4	41
34	Solubility of imidazolium-based ionic liquids in model fuel hydrocarbons: A COSMO-RS and experimental study. Journal of Molecular Liquids, 2016, 224, 544-550.	4.9	41
35	Catalytic Properties of Nanoscale Iron-Doped Zirconia Solid Solution Aerogels. ChemPhysChem, 2008, 9, 1069-1078.	2.1	39
36	Heterogeneous Wheel-Shaped Cu ₂₀ -Polyoxotungstate [Cu ₂₀ Cl(OH) ₂₄ (H ₂ O) ₁₂ (P ₈ W ₄₈ O ₁₈₄)] Catalyst for Solvent-Free Aerobic Oxidation of <i>n</i> -Hexadecane. Chemistry - A European Journal, 2009, 15, 7490-7497.	3.3	39

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37	One-pot synthesis of gold nanoparticles embedded in silica for cyclohexane oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 1123.	4.1	34
38	Fabrication of spinel CoMn ₂ O ₄ hollow spheres for highly selective aerobic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>Catalysis Today</i> , 2020, 347, 39-47.	4.4	34
39	Ionic liquid [BMIm][HSO ₄] as dual catalyst-solvent for the esterification of hexanoic acid with n-butanol. <i>Catalysis Today</i> , 2020, 339, 113-119.	4.4	34
40	Liquid-liquid equilibrium for the system of ionic liquid [BMIm][HSO ₄] catalysed isobutyl isobutyrate formation. <i>Journal of Chemical Thermodynamics</i> , 2018, 122, 162-169.	2.0	33
41	Deep Deterpenation of Citrus Essential Oils Intensified by In Situ Formation of a Deep Eutectic Solvent in Associative Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9223-9232.	3.7	33
42	Highly Efficient Removal of Congo red from Wastewater by Nano-Cao. <i>Separation Science and Technology</i> , 2013, 48, 2681-2687.	2.5	32
43	Highly Selective Aerobic Oxidation of 5-Hydroxymethyl Furfural into 2,5-Diformylfuran over Mn-Co Binary Oxides. <i>ChemistrySelect</i> , 2017, 2, 6632-6639.	1.5	32
44	Solubility of CO ₂ in the Mixed Solvent System of Alkanolamines and Poly(ethylene glycol) 200. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1781-1787.	1.9	31
45	Three-Dimensional Morphology Control during Wet Chemical Synthesis of Porous Chromium Oxide Spheres. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1931-1937.	8.0	30
46	Enhanced Vitamin E Extraction Selectivity from Deodorizer Distillate by a Biphasic System: A COSMO-RS and Experimental Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5547-5554.	6.7	29
47	Reactive extraction for intensifying 2-ethylhexyl acrylate synthesis using deep eutectic solvent [Im:2PTSA]. <i>Green Energy and Environment</i> , 2021, 6, 405-412.	8.7	26
48	Microwave assisted hydrothermal synthesis of MnO ₂ ·0.5H ₂ O ion-sieve for lithium ion selective adsorption. <i>Separation Science and Technology</i> , 2016, 51, 874-882.	2.5	25
49	Facile Synthesis and Active Photocatalysis of Mesoporous and Microporous TiO ₂ Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5864-5871.	2.0	24
50	MnOx/P25 with tuned surface structures of anatase-rutile phase for aerobic oxidation of 5-hydroxymethylfurfural into 2,5-diformylfuran. <i>Catalysis Today</i> , 2019, 319, 105-112.	4.4	23
51	A microwave assisted ionic liquid route to prepare bivalent Mn ₅ O ₈ nanoplates for 5-hydroxymethylfurfural oxidation. <i>Nanoscale</i> , 2020, 12, 17902-17914.	5.6	23
52	Toward Rational Functionalization of Ionic Liquids for Enhanced Extractive Desulfurization: Computer-Aided Solvent Design and Molecular Dynamics Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 2093-2103.	3.7	23
53	Effect of water on extractive desulfurization of fuel oils using ionic liquids: A COSMO-RS and experimental study. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 159-165.	3.5	20
54	Ionic-Liquid-Controlled Two-Dimensional Monolayer Bi ₂ MoO ₆ and Its Adsorption of Azo Molecules. <i>ACS Applied Nano Materials</i> , 2018, 1, 5083-5091.	5.0	19

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55	Self-Developed Fabrication of Manganese Oxides Microtubes with Efficient Catalytic Performance for the Selective Oxidation of 5-Hydroxymethylfurfural. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13122-13132.	3.7	19
56	Highly dispersed palladium nanoclusters incorporated in amino- γ -functionalized silica spheres for the selective hydrogenation of succinic acid to γ -butyrolactone. <i>Applied Organometallic Chemistry</i> , 2015, 29, 653-660.	3.5	18
57	Au nanoparticles confined in hybrid shells of silica nanospheres for solvent-free aerobic cyclohexane oxidation. <i>Journal of Materials Science</i> , 2017, 52, 7186-7198.	3.7	18
58	Corrosion properties of steel in 1-butyl-3-methylimidazolium hydrogen sulfate ionic liquid systems for desulfurization application. <i>RSC Advances</i> , 2017, 7, 48526-48536.	3.6	18
59	Extractive separation of tetralin-dodecane mixture using tetrabutylphosphonium bromide-based deep eutectic solvent. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 149, 107822.	3.6	17
60	Bifunctional Imidazole-Benzenesulfonic Acid Deep Eutectic Solvent for Fructose Dehydration to 5-Hydroxymethylfurfural. <i>Catalysis Letters</i> , 2021, 151, 445-453.	2.6	17
61	Systematic screening of bifunctional ionic liquid for intensifying esterification of methyl heptanoate in the reactive extraction process. <i>Chemical Engineering Science</i> , 2021, 246, 116888.	3.8	17
62	Selection of deep eutectic solvents for extractive dewatering of lemon essential oil. <i>Journal of Molecular Liquids</i> , 2022, 350, 118524.	4.9	16
63	Controlled Synthesis of Nanoscale Icosahedral Gold Particles at Room Temperature. <i>ChemCatChem</i> , 2012, 4, 1662-1667.	3.7	15
64	Toward reactive extraction processes for synthesizing long-chain esters: A general approach by tuning bifunctional deep eutectic solvent. <i>Chemical Engineering Journal</i> , 2022, 445, 136664.	12.7	13
65	Liquid-Liquid Equilibrium for the Esterification System of Acrylic Acid with <i>n</i> -Butanol Catalyzed by Ionic Liquid [BMIm][HSO ₄] at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 2764-2772.	1.9	12
66	Transformation of CO ₂ incorporated in adducts of N-heterocyclic carbene into dialkyl carbonates under ambient conditions: An experimental and mechanistic study. <i>Chemical Engineering Journal</i> , 2021, 413, 127469.	12.7	11
67	CO ₂ capture by 1-ethyl-3-methylimidazolium acetate: Solubility at low pressure and quantification of chemisorption and physisorption. <i>Journal of Molecular Liquids</i> , 2022, 348, 118036.	4.9	11
68	Propene carbonate intensified cyclohexane oxidation over Au/SiO ₂ catalyst. <i>Catalysis Communications</i> , 2015, 64, 58-61.	3.3	10
69	Self-assembled single-crystalline ZnO nanostructures. <i>CrystEngComm</i> , 2013, 15, 3780.	2.6	9
70	Highly Dispersed Ag ₂ SO ₄ Nanoparticles Deposited on ZnO Nanoflakes as Photocatalysts. <i>Catalysis Letters</i> , 2014, 144, 598-606.	2.6	9
71	Uniform heterostructured MnO _x /MnCO ₃ /Fe ₂ O ₃ nanocomposites assembled in an ionic liquid for highly selective oxidation of 5-hydroxymethylfurfural. <i>New Journal of Chemistry</i> , 2021, 45, 12050-12063.	2.8	9
72	Reactive extraction for synthesizing long chain ester butyl hexanoate intensified by deep eutectic solvent. <i>Chinese Journal of Chemical Engineering</i> , 2020, , .	3.5	7

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73	Elucidating the transition between CO ₂ physisorption and chemisorption in 1,2,4-triazolate ionic liquids at a molecular level. <i>Chemical Engineering Journal</i> , 2022, 435, 134956.	12.7	7
74	Selective synthesis of glyceryl monolaurate intensified by boric acid based deep eutectic solvent. <i>Catalysis Today</i> , 2021, . .	4.4	6
75	Co-solvent intensification effect on aromatic alcohol oxidation. <i>Catalysis Communications</i> , 2012, 28, 143-146.	3.3	5
76	Plasmonic Ag/AgClâ€modified bismuth subcarbonate with enhanced visible light photocatalytic activity. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3777.	3.5	5
77	Reactive Extraction Strategy for Synthesizing Dioctyl Phthalate Intensified by Bifunctional Deep Eutectic Solvent [Im:2PTSA]. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 157, 108060.	3.6	5
78	A rate-based method for dynamic analysis and optimal design of reactive extraction: n-Hexyl acetate esterification as an example. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 76-83.	3.5	4
79	BrÃnsted Acidic Deep Eutectic Solvent Based on Imidazole and <i>p</i> -Toluenesulfonic Acid Intensified Prins Condensation of Styrene with Formaldehyde. <i>Chemistry Letters</i> , 2021, 50, 1194-1197.	1.3	3
80	Z-scheme heterojunction Ag/AgBr/Bi ₂ MoO ₆ with improved visible-light-induced photocatalytic activity. <i>Bulletin of Materials Science</i> , 2022, 45, .	1.7	3
81	Regenerable Subnanometer Pd Clusters on Zirconia for Highly Selective Hydrogenation of Biomass-Derived Succinic Acid in Water. <i>Catalysts</i> , 2016, 6, 100.	3.5	2
82	Intensified synthesis of glycerol monocaprylin using ionic liquids by temperature-responsive esterification. <i>Journal of Molecular Liquids</i> , 2022, 359, 119255.	4.9	1