Xionghui Wei

List of Publications by Year
in descending order

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Version: 2024-02-01

71	2,095	218677	254184
papers	citations	26 h-index	43 g-index

71	71	71	1878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on experimental design for pollutants removal in water treatment with the aid of artificial intelligence. Chemosphere, 2018, 200, 330-343.	8.2	170
2	Efficient SO₂ Absorptions by Four Kinds of Deep Eutectic Solvents Based on Choline Chloride. Industrial & Engineering Chemistry Research, 2015, 54, 8019-8024.	3.7	136
3	Density, Viscosity, and Excess Properties for Aqueous Poly(ethylene glycol) Solutions from (298.15 to) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	93
4	Hydrogen bonding interactions between ethylene glycol and water: density, excess molar volume, and spectral study. Science in China Series B: Chemistry, 2008, 51, 420-426.	0.8	88
5	Nanoscale zero-valent metals: a review of synthesis, characterization, and applications to environmental remediation. Environmental Science and Pollution Research, 2016, 23, 17880-17900.	5.3	87
6	Modeling and prediction of copper removal from aqueous solutions by nZVI/rGO magnetic nanocomposites using ANN-GA and ANN-PSO. Scientific Reports, 2017, 7, 18040.	3.3	82
7	Spectral Studies of Hydrogen Bonding and Interaction in the Absorption Processes of Sulfur Dioxide in Poly(ethylene glycol) 400 + Water Binary System. Industrial & Engineering Chemistry Research, 2010, 49, 2025-2030.	3.7	79
8	Density, viscosity and spectroscopic studies of the binary system of ethylene glycol+dimethyl sulfoxide at T=(298.15 to 323.15) K. Journal of Molecular Liquids, 2015, 207, 315-322.	4.9	73
9	Densities and Viscosities for Binary Mixtures of Poly(ethylene glycol) 400 + Dimethyl Sulfoxide and Poly(ethylene glycol) 600 + Water at Different Temperatures. Journal of Chemical & Engineering Data, 2011, 56, 3083-3088.	1.9	63
10	Synthesis and Characterization of Reduced Graphene Oxide-Supported Nanoscale Zero-Valent Iron (nZVI/rGO) Composites Used for Pb(II) Removal. Materials, 2016, 9, 687.	2.9	61
11	Artificial Neural Network Modeling and Genetic Algorithm Optimization for Cadmium Removal from Aqueous Solutions by Reduced Graphene Oxide-Supported Nanoscale Zero-Valent Iron (nZVI/rGO) Composites. Materials, 2017, 10, 544.	2.9	55
12	Hydrogen Bonding and Interaction in the Absorption Processes of Sulfur Dioxide in Ethylene Glycol + Water Binary Desulfurization System. Industrial & Engineering Chemistry Research, 2009, 48, 1287-1291.	3.7	53
13	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and) Tj ETQq1 1 0.784314 rgBT	1.9	44
14	Optimizing the Removal of Rhodamine B in Aqueous Solutions by Reduced Graphene Oxide-Supported Nanoscale Zerovalent Iron (nZVI/rGO) Using an Artificial Neural Network-Genetic Algorithm (ANN-GA). Nanomaterials, 2017, 7, 134.	4.1	44
15	Gasâ^'Liquid Equilibrium Data for the Mixture Gas of Sulfur Dioxide/Nitrogen with Ethylene Glycol at Temperatures from (298.15 to 313.15) K under Low Pressures. Journal of Chemical & Engineering Data, 2008, 53, 1479-1485.	1.9	41
16	Solubility for dilute sulfur dioxide in binary mixtures of N,N-dimethylformamide+Ethylene Glycol at T=308.15K and p=122.66kPa. Journal of Chemical Thermodynamics, 2013, 62, 8-16.	2.0	41
17	Dehalogenation of persistent halogenated organic compounds: A review of computational studies and quantitative structureâ€“property relationships. Chemosphere, 2015, 131, 17-33.	8.2	39
18	Excess molar volumes and viscosities of poly(ethylene glycol) 300+water at different temperatures. Fluid Phase Equilibria, 2012, 313, 7-10.	2.5	37

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19	Molecular orbital studies on brominated diphenyl ethers. Part IIâ€"reactivity and quantitative structureâ€"activity (property) relationships. Chemosphere, 2005, 59, 1043-1057.	8.2	36
20	Solubility properties and spectral characterization of sulfur dioxide in ethylene glycol derivatives. RSC Advances, 2015, 5, 8706-8712.	3.6	36
21	Spectral Investigation of Intermolecular Hydrogen Bonding and S...â^'O Interaction in Diethylene Glycol + H₂O + SO₂Systems. Industrial & Engineering Chemistry Research, 2011, 50, 674-679.	3.7	35
22	Spectroscopic and Kinetic Studies of Photochemical Reaction of Magnesium Tetraphenylporphyrin with Oxygen. Journal of Physical Chemistry A, 2009, 113, 5367-5374.	2.5	31
23	Removal of Crystal Violet by Using Reduced-Graphene-Oxide-Supported Bimetallic Fe/Ni Nanoparticles (rGO/Fe/Ni): Application of Artificial Intelligence Modeling for the Optimization Process. Materials, 2018, 11, 865.	2.9	31
24	Excess properties and spectroscopic studies for the binary system 1,2-ethanediamine+polyethylene glycol 300 at T=(293.15, 298.15, 303.15, 308.15, 313.15, and 318.15) K. Journal of Molecular Liquids, 2014, 198, 21-29.	4.9	30
25	Molecular orbital studies on brominated diphenyl ethers. Part Iâ€"conformational properties. Chemosphere, 2005, 59, 1033-1041.	8.2	27
26	Excess properties and spectral studies for binary system tri-ethylene glycol + dimethyl sulfoxide. Journal of Molecular Liquids, 2015, 212, 187-195.	4.9	27
27	Modeling of Malachite Green Removal from Aqueous Solutions by Nanoscale Zerovalent Zinc Using Artificial Neural Network. Applied Sciences (Switzerland), 2018, 8, 3.	2.5	27
28	Optimizing Low-Concentration Mercury Removal from Aqueous Solutions by Reduced Graphene Oxide-Supported Fe3O4 Composites with the Aid of an Artificial Neural Network and Genetic Algorithm. Materials, 2017, 10, 1279.	2.9	25
29	Gasâ^'Liquid Equilibrium Data for a Mixture Gas of Sulfur Dioxide + Nitrogen with Ethylene Glycol Aqueous Solutions at 298.15 K and 123.15 kPa. Journal of Chemical & Engineering Data, 2008, 53, 2372-2374.	1.9	23
30	Theoretical Studies on Structures, Properties and Dominant Debromination Pathways for Selected Polybrominated Diphenyl Ethers. International Journal of Molecular Sciences, 2016, 17, 927.	4.1	22
31	Gasâ^'Liquid Equilibrium Data for the Mixture Gas of Sulfur Dioxide + Nitrogen with Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 55, 959-961.	1.9	21
32	Absorption of dilute sulfur dioxide in aqueous poly-ethylene glycol 400 solutions at T=308.15K and p=122.60kPa. Journal of Chemical Thermodynamics, 2011, 43, 1463-1467.	2.0	21
33	Absorption, desorption and spectroscopic investigation of sulfur dioxide in the binary system ethylene glycol+dimethyl sulfoxide. Fluid Phase Equilibria, 2015, 405, 7-16.	2.5	20
34	Solubility and Henry's law constant of sulfur dioxide in aqueous polyethylene glycol 300 solution at different temperatures and pressures. Fluid Phase Equilibria, 2013, 348, 9-16.	2.5	19
35	Solubility of dilute SO2 in 1,4-dioxane, 15-crown-5 ether, polyethylene glycol 200, polyethylene glycol 300, and their binary mixtures at 308.15K and 122.66kPa. Fluid Phase Equilibria, 2013, 344, 65-70.	2.5	18
36	Solubility of Dilute SO₂ in Mixtures of N,N-Dimethylformamide + Polyethylene Glycol 400 and the Density and Viscosity of the Mixtures. Journal of Chemical & Engineering Data, 2013, 58, 639-647.	1.9	18

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37	Decontamination of methylene Blue from simulated wastewater by the mesoporous rGO/Fe/Co nanohybrids: Artificial intelligence modeling and optimization. Materials Today Communications, 2020, 24, 100709.	1.9	18
38	Advances in the Applications of Graphene-Based Nanocomposites in Clean Energy Materials. Crystals, 2021, 11, 47.	2.2	18
39	Gasâ^'Liquid Equilibrium Data for Sulfur Dioxide + Nitrogen in Diethylene Glycol + Water at 298.15 K and 123.15 kPa. Journal of Chemical & Engineering Data, 2010, 55, 1446-1448.	1.9	17
40	Solubility for dilute sulfur dioxide, viscosities, excess properties, and viscous flow thermodynamics of binary system N,N-dimethylformamide+diethylene glycol. Fluid Phase Equilibria, 2014, 373, 89-99.	2.5	17
41	Carbon-Based Nanocomposites as Fenton-Like Catalysts in Wastewater Treatment Applications: A Review. Materials, 2021, 14, 2643.	2.9	17
42	Solubility of Carbonyl Sulfide in Aqueous Solutions of Ethylene Glycol at Temperatures from (308.15 K) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	16
43	Artificial Intelligence Based Optimization for the Se(IV) Removal from Aqueous Solution by Reduced Graphene Oxide-Supported Nanoscale Zero-Valent Iron Composites. Materials, 2018, 11, 428.	2.9	16
44	Electron-induced reductive debromination of 2,3,4-tribromodiphenyl ether: a computational study. Journal of Molecular Modeling, 2013, 19, 3333-3338.	1.8	15
45	Absorption of dilute sulfur dioxide in ethanediamine with ethylene glycol or polyethylene glycol 400 plus water system. Journal of Cleaner Production, 2018, 171, 506-511.	9.3	15
46	Use of cobalt(II) chelates of monothiol-containing ligands for the removal of nitric oxide. Journal of Hazardous Materials, 2019, 374, 50-57.	12.4	15
47	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at T = (293.15, 298.15, 303.15, 308.15, and 313.15) K. Journal of Chemical & Engineering Data, 2015, 60, 2-10.	1.9	14
48	The regeneration of Fe-EDTA denitration solutions by nanoscale zero-valent iron. RSC Advances, 2019, 9, 132-138.	3.6	13
49	Highly efficient sulfur dioxide capture by glymeâ€"lithium salt ionic liquids. RSC Advances, 2015, 5, 46564-46567.	3.6	12
50	Isolation and identification of the thermophilic alkaline desulphuricant strain. Science in China Series B: Chemistry, 2008, 51, 158-165.	0.8	11
51	Highâ€throughput computational screening of porous polymer networks for natural gas sweetening based on a neural network. AICHE Journal, 2022, 68, e17433.	3.6	11
52	Excited States and Photodebromination of Selected Polybrominated Diphenyl Ethers: Computational and Quantitative Structureâ€"Property Relationship Studies. International Journal of Molecular Sciences, 2015, 16, 1160-1178.	4.1	10
53	Mesoporous Mn-Doped Fe Nanoparticle-Modified Reduced Graphene Oxide for Ethyl Violet Elimination: Modeling and Optimization Using Artificial Intelligence. Processes, 2020, 8, 488.	2.8	10
54	Theoretical study on the radical anions and reductive dechlorination of selected polychlorinated dibenzo-p-dioxins. Chemosphere, 2013, 91, 765-770.	8.2	9

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55	Solubility Properties and Spectral Characterization of Dilute SO₂ in Binary Mixtures of Urea + Ethylene Glycol. Journal of Chemical & Engineering Data, 2015, 60, 161-170.	1.9	9
56	Solubility and Spectral Investigation of Dilute SO2 in the Binary System Polyethylene Glycol 600 + Water and Systemâ€™s Density, Viscosity, and Surface Tension. Journal of Molecular Liquids, 2016, 223, 224-234.	4.9	9
57	Direct promotion effect of Fe on no reduction by activated carbon loaded with Fe species. Journal of Chemical Thermodynamics, 2016, 95, 216-230.	2.0	9
58	Solubility of dilute sulfur dioxide in binary mixtures of ethylene glycol and tetraethylene glycol dimethyl ether. Fluid Phase Equilibria, 2015, 394, 12-18.	2.5	8
59	Performance of Several Cobaltâ€“Amine Denitration Solutions and Their Catalytic Regeneration by Graphene. Environmental Science & Technology, 2019, 53, 11904-11912.	10.0	7
60	Ionic liquid screening for desulfurization of coke oven gas based on COSMO-SAC model and process simulation. Chemical Engineering Research and Design, 2021, 176, 146-161.	5.6	7
61	Solubility of sulfur dioxide in tetraglyme-NH₄SCN ionic liquid: high absorption efficiency. RSC Advances, 2018, 8, 42116-42122.	3.6	6
62	Effective removal of arsenide from aqueous solutions using mesoporous CoFe2O4/graphene oxide nanocomposites assisted by artificial intelligence. Carbon Letters, 0, , 1.	5.9	6
63	Desorption Property and Spectral Investigation of Dilute Sulfur Dioxide in Ethylene Glycol + N,N-Dimethylformamide System. Industrial & Engineering Chemistry Research, 2014, 53, 7871-7876.	3.7	5
64	Experimental solubility and absorption mechanism of dilute SO2 in aqueous diethylene glycol dimethyl ether solution. Korean Journal of Chemical Engineering, 2016, 33, 3493-3503.	2.7	4
65	Absorption of Sulfur Dioxide by Tetraglymeâ€“Sodium Salt Ionic Liquid. Molecules, 2019, 24, 436.	3.8	4
66	Binding of nucleosides with the cytotoxic plant alkaloid sanguinarine: Spectroscopic and thermodynamic studies. Science China Chemistry, 2012, 55, 1895-1902.	8.2	3
67	Thermodynamic properties and spectral investigation of dilute sulfur dioxide in binary system N,N-dimethylformamide+diethylene glycol. Fluid Phase Equilibria, 2015, 389, 74-82.	2.5	3
68	A Spectral Study of the Interaction Between Chelerythrine Chloride and Adenosine. Spectroscopy Letters, 2007, 40, 615-626.	1.0	2
69	Photochemical fixation and reduction of sulfur dioxide to sulfide by tetraphenylporphyrin magnesium: Spectroscopic and kinetic studies. Science China Chemistry, 2012, 55, 1881-1886.	8.2	2
70	Addendum: Shi, X.D.; Ruan, W.Q.; Hu, J.W.; Fan, M.Y.; Cao, R.S.; Wei, X.H. Optimizing the Removal of Rhodamine B in Aqueous Solutions by Reduced Graphene Oxide-Supported Nanoscale Zerovalent Iron (nZVI/rGO) Using an Artificial Neural Network-Genetic Algorithm (ANN-GA). Nanomaterials 2017, 7, 134. Nanomaterials, 2017, 7, 309.	4.1	2
71	Biological decomposition of Na2S2O3 into sulfur by a newly isolated facultative thermophilic alkaline desulphuricant strain. Science in China Series B: Chemistry, 2009, 52, 226-230.	0.8	0