

Xionghui Wei

List of Publications by Year in descending order

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71
papers

2,095
citations

218677

26
h-index

254184

43
g-index

71
all docs

71
docs citations

71
times ranked

1878
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput computational screening of porous polymer networks for natural gas sweetening based on a neural network. <i>AIChE Journal</i> , 2022, 68, e17433.	3.6	11
2	Advances in the Applications of Graphene-Based Nanocomposites in Clean Energy Materials. <i>Crystals</i> , 2021, 11, 47.	2.2	18
3	Carbon-Based Nanocomposites as Fenton-Like Catalysts in Wastewater Treatment Applications: A Review. <i>Materials</i> , 2021, 14, 2643.	2.9	17
4	Ionic liquid screening for desulfurization of coke oven gas based on COSMO-SAC model and process simulation. <i>Chemical Engineering Research and Design</i> , 2021, 176, 146-161.	5.6	7
5	Decontamination of methylene Blue from simulated wastewater by the mesoporous rGO/Fe/Co nanohybrids: Artificial intelligence modeling and optimization. <i>Materials Today Communications</i> , 2020, 24, 100709.	1.9	18
6	Mesoporous Mn-Doped Fe Nanoparticle-Modified Reduced Graphene Oxide for Ethyl Violet Elimination: Modeling and Optimization Using Artificial Intelligence. <i>Processes</i> , 2020, 8, 488.	2.8	10
7	Performance of Several Cobalt-Amine Denitration Solutions and Their Catalytic Regeneration by Graphene. <i>Environmental Science & Technology</i> , 2019, 53, 11904-11912.	10.0	7
8	The regeneration of Fe-EDTA denitration solutions by nanoscale zero-valent iron. <i>RSC Advances</i> , 2019, 9, 132-138.	3.6	13
9	Use of cobalt(II) chelates of monothiol-containing ligands for the removal of nitric oxide. <i>Journal of Hazardous Materials</i> , 2019, 374, 50-57.	12.4	15
10	Absorption of Sulfur Dioxide by Tetraglyme-Sodium Salt Ionic Liquid. <i>Molecules</i> , 2019, 24, 436.	3.8	4
11	A review on experimental design for pollutants removal in water treatment with the aid of artificial intelligence. <i>Chemosphere</i> , 2018, 200, 330-343.	8.2	170
12	Absorption of dilute sulfur dioxide in ethanediamine with ethylene glycol or polyethylene glycol 400 plus water system. <i>Journal of Cleaner Production</i> , 2018, 171, 506-511.	9.3	15
13	Solubility of sulfur dioxide in tetraglyme-NH ₄ SCN ionic liquid: high absorption efficiency. <i>RSC Advances</i> , 2018, 8, 42116-42122.	3.6	6
14	Modeling of Malachite Green Removal from Aqueous Solutions by Nanoscale Zerovalent Zinc Using Artificial Neural Network. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 3.	2.5	27
15	Artificial Intelligence Based Optimization for the Se(IV) Removal from Aqueous Solution by Reduced Graphene Oxide-Supported Nanoscale Zero-Valent Iron Composites. <i>Materials</i> , 2018, 11, 428.	2.9	16
16	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. <i>Materials</i> , 2018, 11, 865.	2.9	31
17	Modeling and prediction of copper removal from aqueous solutions by nZVI/rGO magnetic nanocomposites using ANN-GA and ANN-PSO. <i>Scientific Reports</i> , 2017, 7, 18040.	3.3	82
18	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). <i>Nanomaterials</i> , 2017, 7, 134.	4.1	44

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19	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. <i>Materials</i> , 2017, 10, 544.	2.9	55
20	Optimizing Low-Concentration Mercury Removal from Aqueous Solutions by Reduced Graphene Oxide-Supported Fe ₃ O ₄ Composites with the Aid of an Artificial Neural Network and Genetic Algorithm. <i>Materials</i> , 2017, 10, 1279.	2.9	25
21	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). <i>Nanomaterials</i> 2017, 7, 134. <i>Nanomaterials</i> , 2017, 7, 309.	4.1	2
22	Theoretical Studies on Structures, Properties and Dominant Debromination Pathways for Selected Polybrominated Diphenyl Ethers. <i>International Journal of Molecular Sciences</i> , 2016, 17, 927.	4.1	22
23	Synthesis and Characterization of Reduced Graphene Oxide-Supported Nanoscale Zero-Valent Iron (nZVI/rGO) Composites Used for Pb(II) Removal. <i>Materials</i> , 2016, 9, 687.	2.9	61
24	Nanoscale zero-valent metals: a review of synthesis, characterization, and applications to environmental remediation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17880-17900.	5.3	87
25	Solubility and Spectral Investigation of Dilute SO ₂ in the Binary System Polyethylene Glycol 600 + Water and System's Density, Viscosity, and Surface Tension. <i>Journal of Molecular Liquids</i> , 2016, 223, 224-234.	4.9	9
26	Experimental solubility and absorption mechanism of dilute SO ₂ in aqueous diethylene glycol dimethyl ether solution. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3493-3503.	2.7	4
27	Direct promotion effect of Fe on no reduction by activated carbon loaded with Fe species. <i>Journal of Chemical Thermodynamics</i> , 2016, 95, 216-230.	2.0	9
28	Highly efficient sulfur dioxide capture by glyme's lithium salt ionic liquids. <i>RSC Advances</i> , 2015, 5, 46564-46567.	3.6	12
29	Solubility Properties and Spectral Characterization of Dilute SO ₂ in Binary Mixtures of Urea + Ethylene Glycol. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 161-170.	1.9	9
30	Excess Properties and Spectral Investigation for the Binary System Diethylene Glycol Dimethyl Ether + Water at $T = (293.15, 298.15, 303.15, 308.15, \text{ and } 313.15) \text{ K}$. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2-10.	1.9	14
31	Thermodynamic properties and spectral investigation of dilute sulfur dioxide in binary system N,N-dimethylformamide+diethylene glycol. <i>Fluid Phase Equilibria</i> , 2015, 389, 74-82.	2.5	3
32	Absorption, desorption and spectroscopic investigation of sulfur dioxide in the binary system ethylene glycol+dimethyl sulfoxide. <i>Fluid Phase Equilibria</i> , 2015, 405, 7-16.	2.5	20
33	Solubility properties and spectral characterization of sulfur dioxide in ethylene glycol derivatives. <i>RSC Advances</i> , 2015, 5, 8706-8712.	3.6	36
34	Density, viscosity and spectroscopic studies of the binary system of ethylene glycol+dimethyl sulfoxide at $T = (298.15 \text{ to } 323.15) \text{ K}$. <i>Journal of Molecular Liquids</i> , 2015, 207, 315-322.	4.9	73
35	Excited States and Photodebromination of Selected Polybrominated Diphenyl Ethers: Computational and Quantitative Structure-Property Relationship Studies. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1160-1178.	4.1	10
36	Dehalogenation of persistent halogenated organic compounds: A review of computational studies and quantitative structure-property relationships. <i>Chemosphere</i> , 2015, 131, 17-33.	8.2	39

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37	Solubility of dilute sulfur dioxide in binary mixtures of ethylene glycol and tetraethylene glycol dimethyl ether. <i>Fluid Phase Equilibria</i> , 2015, 394, 12-18.	2.5	8
38	Excess properties and spectral studies for binary system tri-ethylene glycol + dimethyl sulfoxide. <i>Journal of Molecular Liquids</i> , 2015, 212, 187-195.	4.9	27
39	Efficient SO ₂ Absorptions by Four Kinds of Deep Eutectic Solvents Based on Choline Chloride. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8019-8024.	3.7	136
40	Solubility for dilute sulfur dioxide, viscosities, excess properties, and viscous flow thermodynamics of binary system N,N-dimethylformamide+diethylene glycol. <i>Fluid Phase Equilibria</i> , 2014, 373, 89-99.	2.5	17
41	Desorption Property and Spectral Investigation of Dilute Sulfur Dioxide in Ethylene Glycol + N,N-Dimethylformamide System. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 7871-7876.	3.7	5
42	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. <i>Journal of Molecular Liquids</i> , 2014, 198, 4.9 21-29.	4.9	30
43	Solubility of dilute SO ₂ in 1,4-dioxane, 15-crown-5 ether, polyethylene glycol 200, polyethylene glycol 300, and their binary mixtures at 308.15K and 122.66kPa. <i>Fluid Phase Equilibria</i> , 2013, 344, 65-70.	2.5	18
44	Electron-induced reductive debromination of 2,3,4-tribromodiphenyl ether: a computational study. <i>Journal of Molecular Modeling</i> , 2013, 19, 3333-3338.	1.8	15
45	Theoretical study on the radical anions and reductive dechlorination of selected polychlorinated dibenzo-p-dioxins. <i>Chemosphere</i> , 2013, 91, 765-770.	8.2	9
46	Solubility for dilute sulfur dioxide in binary mixtures of N,N-dimethylformamide+Ethylene Glycol at T=308.15K and p=122.66kPa. <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 8-16.	2.0	41
47	Solubility and Henry's law constant of sulfur dioxide in aqueous polyethylene glycol 300 solution at different temperatures and pressures. <i>Fluid Phase Equilibria</i> , 2013, 348, 9-16.	2.5	19
48	Solubility of Dilute SO ₂ in Mixtures of N,N-Dimethylformamide + Polyethylene Glycol 400 and the Density and Viscosity of the Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 639-647.	1.9	18
49	Photochemical fixation and reduction of sulfur dioxide to sulfide by tetraphenylporphyrin magnesium: Spectroscopic and kinetic studies. <i>Science China Chemistry</i> , 2012, 55, 1881-1886.	8.2	2
50	Binding of nucleosides with the cytotoxic plant alkaloid sanguinarine: Spectroscopic and thermodynamic studies. <i>Science China Chemistry</i> , 2012, 55, 1895-1902.	8.2	3
51	Excess molar volumes and viscosities of poly(ethylene glycol) 300+water at different temperatures. <i>Fluid Phase Equilibria</i> , 2012, 313, 7-10.	2.5	37
52	Densities and Viscosities for Binary Mixtures of Poly(ethylene glycol) 400 + Dimethyl Sulfoxide and Poly(ethylene glycol) 600 + Water at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3083-3088.	1.9	63
53	Spectral Investigation of Intermolecular Hydrogen Bonding and S...O Interaction in Diethylene Glycol + H ₂ O + SO ₂ Systems. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 674-679.	3.7	35
54	Absorption of dilute sulfur dioxide in aqueous poly-ethylene glycol 400 solutions at T=308.15K and p=122.60kPa. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1463-1467.	2.0	21

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55	Spectral Studies of Hydrogen Bonding and Interaction in the Absorption Processes of Sulfur Dioxide in Poly(ethylene glycol) 400 + Water Binary System. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2025-2030.	3.7	79
56	Gas-Liquid Equilibrium Data for the Mixture Gas of Sulfur Dioxide + Nitrogen with Poly(ethylene glycol) 400 + Water Binary System. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 959-961.	1.9	21
57	Solubility of Carbonyl Sulfide in Aqueous Solutions of Ethylene Glycol at Temperatures from (308.15 K) to (333.15 K). <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1446-1448.	1.9	18
58	Density, Viscosity, and Excess Properties for 1,2-Diaminoethane + 1,2-Ethanediol at (298.15, 303.15, and) 313.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1446-1448.	1.9	44
59	Gas-Liquid Equilibrium Data for Sulfur Dioxide + Nitrogen in Diethylene Glycol + Water at 298.15 K and 123.15 kPa. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1446-1448.	1.9	17
60	Biological decomposition of Na ₂ S ₂ O ₃ into sulfur by a newly isolated facultative thermophilic alkaline desulphuricant strain. <i>Science in China Series B: Chemistry</i> , 2009, 52, 226-230.	0.8	0
61	Spectroscopic and Kinetic Studies of Photochemical Reaction of Magnesium Tetraphenylporphyrin with Oxygen. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5367-5374.	2.5	31
62	Hydrogen Bonding and Interaction in the Absorption Processes of Sulfur Dioxide in Ethylene Glycol + Water Binary Desulfurization System. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1287-1291.	3.7	53
63	Isolation and identification of the thermophilic alkaline desulphuricant strain. <i>Science in China Series B: Chemistry</i> , 2008, 51, 158-165.	0.8	11
64	Hydrogen bonding interactions between ethylene glycol and water: density, excess molar volume, and spectral study. <i>Science in China Series B: Chemistry</i> , 2008, 51, 420-426.	0.8	88
65	Gas-Liquid Equilibrium Data for a Mixture Gas of Sulfur Dioxide + Nitrogen with Ethylene Glycol Aqueous Solutions at 298.15 K and 123.15 kPa. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2372-2374.	1.9	23
66	Density, Viscosity, and Excess Properties for Aqueous Poly(ethylene glycol) Solutions from (298.15 to) 313.15 K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1479-1485.	1.9	95
67	Gas-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. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1479-1485.	1.9	41
68	A Spectral Study of the Interaction Between Chelerythrine Chloride and Adenosine. <i>Spectroscopy Letters</i> , 2007, 40, 615-626.	1.0	2
69	Molecular orbital studies on brominated diphenyl ethers. Part I—conformational properties. <i>Chemosphere</i> , 2005, 59, 1033-1041.	8.2	27
70	Molecular orbital studies on brominated diphenyl ethers. Part II—reactivity and quantitative structure-activity (property) relationships. <i>Chemosphere</i> , 2005, 59, 1043-1057.	8.2	36
71	Effective removal of arsenide from aqueous solutions using mesoporous CoFe ₂ O ₄ /graphene oxide nanocomposites assisted by artificial intelligence. <i>Carbon Letters</i> , 0, 1.	5.9	6