

Kezhou Yan

List of Publications by Year in descending order

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100
papers

2,429
citations

201674

27
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233421

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all docs

100
docs citations

100
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Employing an ICT-FRET Integration Platform for the Real-Time Tracking of SO ₂ Metabolism in Cancer Cells and Tumor Models. <i>Journal of the American Chemical Society</i> , 2020, 142, 6324-6331.	13.7	186
2	Heat Stroke in Cell Tissues Related to Sulfur Dioxide Level Is Precisely Monitored by Light-Controlled Fluorescent Probes. <i>Journal of the American Chemical Society</i> , 2020, 142, 3262-3268.	13.7	164
3	Ionic Liquid Droplet Microreactor for Catalysis Reactions Not at Equilibrium. <i>Journal of the American Chemical Society</i> , 2017, 139, 17387-17396.	13.7	130
4	A New Strategy: Distinguishable Multi-substance Detection, Multiple Pathway Tracing Based on a New Site Constructed by the Reaction Process and Its Tumor Targeting. <i>Journal of the American Chemical Society</i> , 2020, 142, 18706-18714.	13.7	114
5	Superwetting Polymeric Three Dimensional (3D) Porous Materials for Oil/Water Separation: A Review. <i>Polymers</i> , 2019, 11, 806.	4.5	103
6	Role of additives in improved thermal activation of coal fly ash for alumina extraction. <i>Fuel Processing Technology</i> , 2013, 110, 114-121.	7.2	97
7	Improved extraction of alumina from coal gangue by surface mechanically grinding modification. <i>Powder Technology</i> , 2016, 302, 33-41.	4.2	91
8	Aqueous Hydrogenation of Levulinic Acid to 1,4-Pentanediol over Mo-Modified Ru/Activated Carbon Catalyst. <i>ChemSusChem</i> , 2018, 11, 1316-1320.	6.8	73
9	Treatment of high salinity brines by direct contact membrane distillation: Effect of membrane characteristics and salinity. <i>Chemosphere</i> , 2015, 140, 143-149.	8.2	67
10	Chemical cleaning-associated generation of dissolved organic matter and halogenated byproducts in ceramic MBR: Ozone versus hypochlorite. <i>Water Research</i> , 2018, 140, 243-250.	11.3	63
11	Liquid marble-derived solid-liquid hybrid superparticles for CO ₂ capture. <i>Nature Communications</i> , 2019, 10, 1854.	12.8	52
12	Co-metabolism for enhanced phenol degradation and bioelectricity generation in microbial fuel cell. <i>Bioelectrochemistry</i> , 2020, 134, 107527.	4.6	52
13	Biochar induced changes of soil dissolved organic matter: The release and adsorption of dissolved organic matter by biochar and soil. <i>Science of the Total Environment</i> , 2021, 783, 147091.	8.0	50
14	Decomposition and phase transformation mechanism of kaolinite calcined with sodium carbonate. <i>Applied Clay Science</i> , 2017, 147, 90-96.	5.2	49
15	Evaluating heavy metal accumulation and potential risks in soil-plant systems applied with magnesium slag-based fertilizer. <i>Chemosphere</i> , 2018, 197, 382-388.	8.2	48
16	Behaviors and Mechanism of Iron Extraction from Chloride Solutions Using Undiluted Cyphos IL 101. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7534-7542.	3.7	46
17	Bio-Inspired Polymeric Structures with Special Wettability and Their Applications: An Overview. <i>Polymers</i> , 2017, 9, 725.	4.5	44
18	Thermal and kinetic characteristics of combustion of coal sludge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 1899-1909.	3.6	39

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19	Tracking multiple aromatic compounds in a full-scale coking wastewater reclamation plant: Interaction with biological and advanced treatments. <i>Chemosphere</i> , 2019, 222, 431-439.	8.2	39
20	Effect of impure components in flue gas desulfurization (FGD) gypsum on the generation of polymorph CaCO ₃ during carbonation reaction. <i>Journal of Hazardous Materials</i> , 2019, 369, 236-243.	12.4	37
21	Facile Preparation of Ammonium Molybdophosphate/Al ₂ O ₃ Composite Material from Natural Clay and Its Use in Cesium Ion Adsorption. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2125-2131.	2.0	35
22	Role of ionic liquids in the efficient transfer of lithium by Cyanex 923 in solvent extraction system. <i>AIChE Journal</i> , 2019, 65, e16606.	3.6	32
23	Ceramic membrane fouling by dissolved organic matter generated during on-line chemical cleaning with ozone in MBR. <i>Water Research</i> , 2018, 146, 328-336.	11.3	31
24	Fate and wetting potential of bio-refractory organics in membrane distillation for coke wastewater treatment. <i>Chemosphere</i> , 2018, 208, 450-459.	8.2	30
25	CO ₂ sequestration: high conversion of gypsum into CaCO ₃ by ultrasonic carbonation. <i>Environmental Chemistry Letters</i> , 2020, 18, 1369-1377.	16.2	30
26	Treatment of domestic sewage with anoxic/oxic membrane-less microbial fuel cell with intermittent aeration. <i>Bioresource Technology</i> , 2016, 218, 680-686.	9.6	29
27	Factors controlling adsorption of recalcitrant organic contaminant from bio-treated coking wastewater using lignite activated coke and coal tar-derived activated carbon. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 112-120.	3.2	29
28	Distribution Characteristics of Valuable Elements, Al, Li, and Ga, and Rare Earth Elements in Feed Coal, Fly Ash, and Bottom Ash from a 300 MW Circulating Fluidized Bed Boiler. <i>ACS Omega</i> , 2019, 4, 6854-6863.	3.5	28
29	Pseudocapacitive Charge Storage in MXene@V ₂ O ₅ for Asymmetric Flexible Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54791-54797.	8.0	28
30	pH-sensitive fluorescent salicylaldehyde derivative for selective imaging of hydrogen sulfide in living cells. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 212-218.	7.8	25
31	Insights into the enhanced flux of graphene oxide composite membrane in direct contact membrane distillation: The different role at evaporation and condensation interfaces. <i>Water Research</i> , 2022, 212, 118091.	11.3	25
32	Extraction of Valuable Metals and Preparation of Mesoporous Materials from Circulating Fluidized Bed-Derived Fly Ash via an Acid-Alkali-Based Alternate Method. <i>ACS Omega</i> , 2020, 5, 31295-31305.	3.5	24
33	Modification of waste coal gangue and its application in the removal of Mn ²⁺ from aqueous solution. <i>Water Science and Technology</i> , 2016, 74, 524-534.	2.5	23
34	Aluminum extraction technologies from high aluminum fly ash. <i>Reviews in Chemical Engineering</i> , 2021, 37, 885-906.	4.4	23
35	Preparation of Ultrafine Fly Ash-Based Superhydrophobic Composite Coating and Its Application to Foam Concrete. <i>Polymers</i> , 2020, 12, 2187.	4.5	23
36	HSA-Lys-161 covalent bound fluorescent dye for <i>in vivo</i> blood drug dynamic imaging and tumor mapping. <i>Chemical Science</i> , 2021, 13, 218-224.	7.4	18

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37	Comprehensive performance, bacterial community structure of single-chamber microbial fuel cell affected by COD/N ratio and physiological stratifications in cathode biofilm. <i>Bioresource Technology</i> , 2021, 320, 124416.	9.6	17
38	Electrochemical Sensor for o-Nitrophenol Based on β -Cyclodextrin Functionalized Graphene Nanosheets. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	2.7	16
39	Synthesis of SBA-15 encapsulated ammonium molybdophosphate using Qaidam natural clay and its use in cesium ion adsorption. <i>RSC Advances</i> , 2015, 5, 35453-35460.	3.6	15
40	Use of mixed solid waste as a soil amendment for saline-sodic soil remediation and oat seedling growth improvement. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21407-21415.	5.3	15
41	Facile construction of reduced graphene oxide supported three-dimensional polyaniline/WO ₂ nanobelt-flower as a full solar spectrum light response catalyst for efficient photocatalytic conversion of bromate. <i>Chemosphere</i> , 2019, 222, 781-788.	8.2	14
42	One-Step Synthesis of Solid-Liquid Composite Microsphere for CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5814-5822.	8.0	14
43	An efficient and low-cost magnetic heterogenous Fenton-like catalyst for degrading antibiotics in wastewater: Mechanism, pathway and stability. <i>Journal of Environmental Management</i> , 2022, 302, 114119.	7.8	14
44	Facile Synthesis of Magnetically Recyclable Fe-doped Lithium Ion Sieve and Its Li Adsorption Performance. <i>Chemistry Letters</i> , 2018, 47, 1308-1310.	1.3	13
45	Enhanced SO ₂ and Rhodamine B Removal by Blending Coke-Making Waste Benzene Residue (BR) for Pelletized Activated Coke (PAC) Production and Mechanisms. <i>Energy & Fuels</i> , 2019, 33, 5173-5181.	5.1	13
46	Effect of Oxygen Functional Groups on the Surface Properties and Flotation Response of Fine Coal, Comparison of Rank with Oxidation. <i>International Journal of Coal Preparation and Utilization</i> , 2021, 41, 290-306.	2.1	12
47	Glycine-induced synthesis of vaterite by direct aqueous mineral carbonation of desulfurization gypsum. <i>Environmental Chemistry Letters</i> , 2022, 20, 2261-2269.	16.2	12
48	One-step strategy for synthesis of yolk-shell silica spheres using trisiloxane-tailed ionic liquids as a template. <i>Journal of Materials Science</i> , 2014, 49, 4919-4926.	3.7	11
49	Synthesis of a novel slow-release potassium fertilizer from modified Pidgeon magnesium slag by potassium carbonate. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 758-767.	1.9	11
50	Quantitative assessment of aeolian desertification dynamics—A case study in north Shanxi of China (1975 to 2015). <i>Scientific Reports</i> , 2017, 7, 10460.	3.3	11
51	Converting waste coal fly ash into effective adsorbent for the removal of ammonia nitrogen in water. <i>Journal of Materials Science</i> , 2018, 53, 12731-12740.	3.7	11
52	Preparation, thermal stability and mechanical properties of inorganic continuous fibers produced from fly ash and magnesium slag. <i>Waste Management</i> , 2021, 120, 156-163.	7.4	11
53	Effect of organic matter on the Rietveld quantitative analysis of crystalline minerals in coal gangue. <i>Powder Diffraction</i> , 2016, 31, 185-191.	0.2	10
54	Synthesis and optimization of a novel poly-silicic metal coagulant from coal gangue for tertiary treatment of coking wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 365-371.	3.2	10

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55	Adsorption kinetics and isotherms of ammonia-nitrogen on steel slag. <i>Desalination and Water Treatment</i> , 2015, 55, 142-150.	1.0	9
56	A NIR fluorescent probe tracing norepinephrine exocytosis and depression occurrence at the cellular level. <i>Chemical Communications</i> , 2022, 58, 2999-3002.	4.1	9
57	Effects of solid waste-based soil conditioner and arbuscular mycorrhizal fungi on crop productivity and heavy metal distribution in foxtail millet (<i>Setaria italica</i>). <i>Journal of Environmental Management</i> , 2022, 313, 114974.	7.8	9
58	Aggregation Behavior of Trisiloxane-Tailed Surface Active Ionic Liquids in Aqueous Solution: Coarse-Grained Molecular Dynamics Study. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1520-1527.	2.4	8
59	Bisurfactant-assisted preparation of amorphous silica from fly ash. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 884-892.	1.5	8
60	Specific Ion Effects of Salt Solutions on Colloidal Properties of Octadecylamine Hydrochloride. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 483-491.	2.1	8
61	Effect of surfactants on the properties of a gas-sealing coating modified with fly ash and cement. <i>Journal of Materials Science</i> , 2018, 53, 15142-15156.	3.7	8
62	Ammonia nitrogen removal from micro-polluted river by permeable reactive barriers: lab-scale study with steel slag and fly ash brick in combination as reactive media. <i>Desalination and Water Treatment</i> , 2014, 52, 365-374.	1.0	7
63	Chemical, Mineralogical, and Morphological Characteristics of Pidgeon Magnesium Slag. <i>Environmental Engineering Science</i> , 2016, 33, 290-297.	1.6	7
64	A silicon-potash fertilizer prepared from magnesium slag and how it can improve soil fertility and agronomic performance. <i>Soil Science and Plant Nutrition</i> , 2019, 65, 274-280.	1.9	7
65	Preparation of a PASi-P(AM-ADB) hybrid flocculant and efficiently removal bio-refractory organics from coking wastewater. <i>Environmental Chemistry Letters</i> , 2019, 17, 509-514.	16.2	7
66	Lauryl Phosphate Flotation Chemistry in Barite Flotation. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 280.	2.0	7
67	Enhanced Mechanical and Shape Memory Properties of Poly(propylene glycol)-Based Star-Shaped Polyurethane. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000082.	2.2	7
68	Improvement of solid oxide fuel cell performance by a core-shell structured catalyst using low concentration coal bed methane fuel. <i>International Journal of Energy Research</i> , 2020, 44, 5516-5526.	4.5	7
69	Preparation and characterization of novel $\text{CuS} / \text{SiO}_2$ @n-octadecane phase-change nanocapsules enhanced photothermal conversion for solar energy utilization. <i>International Journal of Energy Research</i> , 2022, 46, 7411-7423.	4.5	7
70	Enhancement of coal briquette quality through corn stalk blending and binder optimization. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 613-618.	2.3	6
71	Effects of CaO and CO_2 on combustion behavior and emission properties of SO_2 and NO_x during coal sludge combustion. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 735-742.	1.5	6
72	Surface-Segregation-Induced Nanopillae on FDS-Blended PDMS Film and Implications in Wettability, Adhesion, and Friction Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7476-7486.	8.0	6

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73	Hybrid microbial electrolytic/LIV system for highly efficient organic pollutants removal. <i>Journal of Environmental Sciences</i> , 2019, 83, 39-45.	6.1	6
74	Crystal Growth Rate of KCl in the $KCl \cdot 2MgCl_2 \cdot 2H_2O$ System Based on MSE Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17658-17666.	3.7	5
75	Thermostable mesoporous silica nanospheres produced through the use of a trisiloxane-tailed ionic liquid as a template. <i>RSC Advances</i> , 2014, 4, 4836.	3.6	5
76	Long-term dynamic characterization of aeolian desertification in northwest Shanxi, China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17166-17174.	5.3	5
77	Selective adsorption of octadecylamine hydrochloride on the surface of KCl crystal: adsorption energy based on density functional theory. <i>Adsorption</i> , 2019, 25, 1553-1558.	3.0	5
78	Experimental Study on Coal Fly Ash-Based Gas-Sealing Coating Used for Coal Mine Roadway Walls. <i>Coatings</i> , 2020, 10, 863.	2.6	5
79	Insights into Coproduction of Silica Gel via Desulfurization of Steel Slag and Silica Gel Adsorption Performance. <i>ACS Omega</i> , 2022, 7, 21062-21074.	3.5	5
80	Effect of calcium sulfate dehydrate and external electric field on the sedimentation of fine insoluble particles. <i>Desalination and Water Treatment</i> , 0, , 1-10.	1.0	4
81	Effect of Preparation Conditions on the Structure and Magnetic Properties of Metal-Doped Magnesium Ferrites Synthesized From Laterite Leaching Solutions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 1475-1482.	1.8	4
82	Phase Diagram of $AlCl_3 \cdot FeCl_3 \cdot H_2O \sim HCl$ Salt Water System at 298.15 K and Its Application in the Crystallization of $AlCl_3 \cdot 6H_2O$. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5089-5094.	1.9	4
83	Numerical Simulation of Dense Solid-Liquid Mixing in Stirred Vessel with Improved Dual Axial Impeller. <i>Separations</i> , 2022, 9, 122.	2.4	4
84	Study on Thermal Insulation Zeolite by Coal Fly Ash. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	2.7	3
85	Separating NaCl and $AlCl_3 \cdot 6H_2O$ Crystals from Acidic Solution Assisted by the Non-Equilibrium Phase Diagram of $AlCl_3$ -NaCl- H_2O (-HCl) Salt-Water System at 353.15 K. <i>Crystals</i> , 2017, 7, 244.	2.2	3
86	Dynamic Desulfurization Process over Porous Zn-Cu-Based Materials in a Packed Column: Adsorption Kinetics and Breakthrough Modeling. <i>Energy & Fuels</i> , 2020, 34, 16552-16559.	5.1	3
87	Ultrasonic process intensification during the preparation of dimethyl carbonate based on the alcoholysis of ethylene carbonate and the kinetic behavior of dimethyl carbonate. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2170-2180.	3.7	3
88	Quantitative characterization of climate change and its impact on aeolian desertification: a case study in northwest Shanxi of China. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	3
89	ASSESSMENT OF THERMAL ENERGY FOR NaCl PRODUCTION BY SOLAR ASSISTED EVAPORATION OF CONCENTRATED SALTWATER. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1911-1916.	0.6	3
90	Effect of O ₂ concentration on combustion behavior and kinetics of coal gangue during oxy-fuel combustion and oxy-steam combustion. <i>Asia-Pacific Journal of Chemical Engineering</i> , 0, , e2713.	1.5	3

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91	Fabrication of Mechanically Robust and Highly Elastic Epoxy Sponges <i>via</i> Surface Embedding of Nanoparticles for Long-Term Oil/Water Separation. ACS ES&T Engineering, 2022, 2, 924-939.	7.6	3
92	Facile Synthesis of Spinel Ferrites with Enhanced Magnetic Properties from Two Intractable Metallurgical Resources: Zinc-Bearing Dust and Nickel Laterite Ore. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2655-2660.	1.8	2
93	Enhanced Removal of Dissolved Humic Acid from Water Using Eco-Friendly Phenylalanine-Modified Chitosan Fe ₃ O ₄ Magnetic Nanoparticles. ChemistrySelect, 2020, 5, 4285-4291.	1.5	2
94	Al ₂ O ₃ Dispersion-Induced Micropapillae in an Epoxy Composite Coating and Implications in Thermal Conductivity. ACS Omega, 2021, 6, 17870-17879.	3.5	2
95	Removal of Insoluble Slimes from Potash Ore Using Flotation. Tenside, Surfactants, Detergents, 2017, 54, 479-485.	1.2	2
96	Spinel Ferrite Transformation for an Efficient Fe Removal from Circulating Fluidized Bed Fly Ash by Carbothermal Reduction at a Low Temperature. ACS Omega, 2022, 7, 18612-18622.	3.5	2
97	Effect of Unhydrated Aminopropyl Triethoxysilane Modification on the Properties of Calcined Kaolin. Minerals (Basel, Switzerland), 2022, 12, 705.	2.0	2
98	Facile Synthesis of Magnetically Recyclable Fe ₂ O ₃ ·MFe ₂ O ₄ Photocatalyst from Saprolite-Limonite Laterite Leach Liquors. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3339-3343.	1.8	1
99	Facile generation of rod-like PbCl ₂ crystals from Pb(II) aqueous solutions induced by Aliquat 336 at room temperature. Journal of Chemical Technology and Biotechnology, 2017, 92, 2410-2416.	3.2	0
100	Cover Image, Volume 93, Issue 2. Journal of Chemical Technology and Biotechnology, 2018, 93, i-i.	3.2	0