Shouyong Zhou

List of Publications by Year
in descending order

74	2,947	159585 30	175258 52
papers	citations	h-index	g-index

75	75	75	3393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in catalytic transformation of biomass-derived 5-hydroxymethylfurfural into the innovative fuels and chemicals. Renewable and Sustainable Energy Reviews, 2017, 74, 230-257.	16.4	308
2	Chemocatalytic hydrolysis of cellulose into glucose over solid acid catalysts. Applied Catalysis B: Environmental, 2015, 174-175, 225-243.	20.2	216
3	Catalytic Advances in the Production and Application of Biomass-Derived 2,5-Dihydroxymethylfuran. ACS Catalysis, 2018, 8, 2959-2980.	11.2	210
4	Effective NH2-grafting on attapulgite surfaces for adsorption of reactive dyes. Journal of Hazardous Materials, 2011, 194, 7-14.	12.4	125
5	Biocatalytic Transformation of 5-Hydroxymethylfurfural into High-Value Derivatives: Recent Advances and Future Aspects. ACS Sustainable Chemistry and Engineering, 2018, 6, 15915-15935.	6.7	122
6	Adsorption of Hg2+ from aqueous solution onto polyacrylamide/attapulgite. Journal of Hazardous Materials, 2009, 171, 640-646.	12.4	113
7	Adsorption of reactive dyes from aqueous solution by silylated palygorskite. Applied Clay Science, 2010, 48, 638-640.	5.2	82
8	Graphitic carbon nitride nanosheets embedded in poly(vinyl alcohol) nanocomposite membranes for ethanol dehydration via pervaporation. Separation and Purification Technology, 2017, 188, 24-37.	7.9	74
9	Catalytic hydrolysis of microcrystalline and rice straw-derived cellulose over a chlorine-doped magnetic carbonaceous solid acid. Industrial Crops and Products, 2016, 84, 408-417.	5.2	70
10	Novel polyamidoamine dendrimer-functionalized palygorskite adsorbents with high adsorption capacity for Pb2+ and reactive dyes. Applied Clay Science, 2015, 107, 220-229.	5.2	69
11	Recent advances in catalytic and autocatalytic production of biomass-derived 5-hydroxymethylfurfural. Renewable and Sustainable Energy Reviews, 2020, 134, 110317.	16.4	69
12	Competitive adsorption of Hg2+, Pb2+ and Co2+ ions on polyacrylamide/attapulgite. Desalination, 2011, 270, 269-274.	8.2	65
13	PVDF mixed matrix ultrafiltration membrane incorporated with deformed rebar-like Fe3O4â€“palygorskite nanocomposites to enhance strength and antifouling properties. Journal of Membrane Science, 2020, 612, 118467.	8.2	60
14	Resistance analysis for ceramic membrane microfiltration of raw soy sauce. Journal of Membrane Science, 2007, 299, 122-129.	8.2	59
15	Efficient removal of methylene blue over composite-phase BiVO4 fabricated by hydrothermal control synthesis. Materials Chemistry and Physics, 2012, 136, 897-902.	4.0	52
16	Preparation and characterization of polyacrylamide/palygorskite. Applied Clay Science, 2009, 46, 148-152.	5.2	51
17	A novel ceramic microfiltration membrane fabricated by anthurium andraeanum-like attapulgite nanofibers for high-efficiency oil-in-water emulsions separation. Journal of Membrane Science, 2021, 630, 119291.	8.2	51
18	In situ generated micro-bubbles enhanced membrane antifouling for separation of oil-in-water emulsion. Journal of Membrane Science, 2021, 621, 119005.	8.2	48

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19	Fabrication of temperature-responsive ZrO2 tubular membranes, grafted with poly (N-isopropylacrylamide) brush chains, for protein removal and easy cleaning. Journal of Membrane Science, 2014, 450, 351-361.	8.2	47
20	PVDF/palygorskite composite ultrafiltration membranes with enhanced abrasion resistance and flux. Journal of Membrane Science, 2015, 495, 91-100.	8.2	42
21	Controllable construction of polymer/inorganic interface for poly(vinyl alcohol)/graphitic carbon nitride hybrid pervaporation membranes. Chemical Engineering Science, 2018, 181, 237-250.	3.8	41
22	Evaluation of hydroxyapatite derived from flue gas desulphurization gypsum on simultaneous immobilization of lead and cadmium in contaminated soil. Journal of Hazardous Materials, 2020, 400, 123038.	12.4	39
23	Asymmetric whole-cell bioreduction of sterically bulky 2-benzoylpyridine derivatives in aqueous hydrophilic ionic liquid media. Chemical Engineering Journal, 2017, 316, 919-927.	12.7	38
24	Purification of cellulase fermentation broth via low cost ceramic microfiltration membranes with nanofibers-like attapulgite separation layers. Separation and Purification Technology, 2017, 175, 435-442.	7.9	36
25	Preparation of a new ceramic microfiltration membrane with a separation layer of attapulgite nanofibers. Materials Letters, 2015, 143, 27-30.	2.6	34
26	Selective transformation of biomass-derived 5-hydroxymethylfurfural into 2,5-dihydroxymethylfuran via catalytic transfer hydrogenation over magnetic zirconium hydroxides. Korean Journal of Chemical Engineering, 2018, 35, 99-109.	2.7	34
27	Dynamic experiments and model of hydrogen and deuterium separation with micropore molecular sieve Y at 77K. Chemical Engineering Journal, 2009, 152, 428-433.	12.7	33
28	Clarification of raw rice wine by ceramic microfiltration membranes and membrane fouling analysis. Desalination, 2010, 256, 166-173.	8.2	33
29	PVDF/palygorskite composite ultrafiltration membranes: Effects of nano-clay particles on membrane structure and properties. Applied Clay Science, 2019, 181, 105171.	5.2	33
30	Preparation of titania microfiltration membranes supported on porous Tiâ€“Al alloys. Journal of Membrane Science, 2008, 325, 546-552.	8.2	31
31	Magnetically separable attapulgiteâ^'TiO2â^'Fe O composites with superior activity towards photodegradation of methyl orange under visible light radiation. Journal of Industrial and Engineering Chemistry, 2014, 20, 3884-3889.	5.8	31
32	Grafting polyacrylic acid brushes onto zirconia membranes: Fouling reduction and easy-cleaning properties. Separation and Purification Technology, 2013, 114, 53-63.	7.9	29
33	Exceptional visible-light-induced photocatalytic activity of attapulgiteâ€“BiOBrâ€“TiO2 nanocomposites. Applied Clay Science, 2014, 90, 135-140.	5.2	29
34	Diffusion behaviors of ethanol and water through gâ€“C3N4â€“based membranes: Insights from molecular dynamics simulation. Journal of Membrane Science, 2019, 585, 81-89.	8.2	29
35	Anti-fouling and easy-cleaning PVDF membranes blended with hydrophilic thermo-responsive nanofibers for efficient biological wastewater treatment. Separation and Purification Technology, 2022, 281, 119881.	7.9	29
36	Fabrication of porous attapulgite hollow fiber membranes for liquid filtration. Materials Letters, 2015, 161, 132-135.	2.6	28

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37	Enhanced fouling and wetting resistance of composite Hyflon AD/poly(vinylidene fluoride) membrane in vacuum membrane distillation. Separation and Purification Technology, 2019, 211, 135-140.	7.9	27
38	Heterogeneous poly(ionic liquids) catalyst on nanofiber-like palygorskite supports for biodiesel production. Applied Clay Science, 2017, 146, 167-175.	5.2	25
39	A versatile polar-embedded polyphenyl phase for multimodal separation in liquid chromatography. Journal of Chromatography A, 2018, 1553, 81-89.	3.7	24
40	Humic acid removal and easy-cleanability using temperature-responsive ZrO2 tubular membranes grafted with poly(N-isopropylacrylamide) brush chains. Water Research, 2013, 47, 2375-2386.	11.3	23
41	Preparation of dense Pd composite membranes on porous Tiâ€“Al alloy supports by electroless plating. Journal of Membrane Science, 2012, 387-388, 24-29.	8.2	22
42	Preparation of poly (vinyl alcohol)/palygorskite-poly (ionic liquids) hybrid catalytic membranes to facilitate esterification. Separation and Purification Technology, 2020, 230, 115746.	7.9	21
43	Simple Synthesis of High Specific Surface Carbon Nitride for Adsorption-Enhanced Photocatalytic Performance. Nanoscale Research Letters, 2018, 13, 248.	5.7	20
44	A new low-cost hydroxyapatite for efficient immobilization of lead. Journal of Colloid and Interface Science, 2019, 553, 798-804.	9.4	20
45	Palygorskite@Co3O4 nanocomposites as efficient peroxidase mimics for colorimetric detection of H2O2 and ascorbic acid. Applied Clay Science, 2021, 209, 106109.	5.2	20
46	Morphology control of mesoporous Cu 2 O by reductants and its photocatalytic activity. Ceramics International, 2017, 43, 8222-8229.	4.8	18
47	Enhanced hydrophilicity of a thermo-responsive PVDF/palygorskite-g-PNIPAAM hybrid ultrafiltration membrane via surface segregation induced by temperature. RSC Advances, 2016, 6, 62186-62192.	3.6	17
48	Two-dimensional graphitic carbon nitride for membrane separation. Chinese Journal of Chemical Engineering, 2022, 42, 297-311.	3.5	17
49	Efficient hydrolysis of cellulose over a magnetic lignin-derived solid acid catalyst in 1-butyl-3-methylimidazolium chloride. Korean Journal of Chemical Engineering, 2016, 33, 1232-1238.	2.7	16
50	Adsorption behaviors and mechanism of heavy metals onto attapulgite functionalized by polyamine silane. Journal of the American Ceramic Society, 2021, 104, 1887-1901.	3.8	16
51	Asymmetric poly (vinyl alcohol)/Schiff base network framework hybrid pervaporation membranes for ethanol dehydration. European Polymer Journal, 2022, 162, 110924.	5.4	16
52	Redox-Switchable Biocatalyst for Controllable Oxidation or Reduction of 5-Hydroxymethylfurfural into High-Value Derivatives. ACS Omega, 2020, 5, 19625-19632.	3.5	15
53	Design and evaluation of polar-embedded stationary phases containing triacontyl group for liquid chromatography. Journal of Chromatography A, 2020, 1621, 461035.	3.7	15
54	Polyacrylonitrile-supported self-aggregation crosslinked poly (vinyl alcohol) pervaporation membranes for ethanol dehydration. European Polymer Journal, 2020, 122, 109359.	5.4	14

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55	Enhancement of hydroxide conductivity by incorporating nanofiber-like palygorskite into quaternized polysulfone as anion exchange membranes. Applied Clay Science, 2020, 195, 105702.	5.2	14
56	Tuning selectivity via electronic interaction: Preparation and systematic evaluation of serial polar-embedded aryl stationary phases bearing large polycyclic aromatic hydrocarbons. Analytica Chimica Acta, 2018, 1036, 162-171.	5.4	13
57	Preparation and properties of a low-cost porous ceramic support from low-grade palygorskite clay and silicon-carbide with vanadium pentoxide additives. Chinese Journal of Chemical Engineering, 2021, 29, 417-425.	3.5	13
58	A highly efficient acyl-transfer approach to urea-functionalized silanes and their immobilization onto silica gel as stationary phases for liquid chromatography. Journal of Chromatography A, 2020, 1626, 461366.	3.7	11
59	Monolayer Adsorption Behavior of Hydrogen Isotopes on Microporous and Mesoporous Molecular Sieves. Journal of Chemical & Engineering Data, 2010, 55, 2512-2516.	1.9	10
60	Study on Sorption Behaviors of H₂S by Triethanolamine-Modified Mesoporous Molecular Sieve SBA-15. Industrial & Engineering Chemistry Research, 2012, 51, 4407-4413.	3.7	10
61	A docosyl-terminated polyamine amphiphile-bonded stationary phase for multimodal separations in liquid chromatography. Journal of Chromatography A, 2021, 1642, 462045.	3.7	10
62	Anchoring cobalt single atoms on 2D covalent triazine framework with charge nanospatial separation for enhanced photocatalytic pollution degradation. Materials Today Chemistry, 2022, 24, 100832.	3.5	10
63	Simulation study on real laminar assembly of g-C3N4 high performance free standing membrane with bio-based materials. Separation and Purification Technology, 2021, 278, 119598.	7.9	9
64	Construction of graphitic carbon nitride nanosheets via an improved solvent exfoliation strategy and interfacial mechanics insight from molecular dynamics simulations. Journal of Porous Materials, 2021, 28, 943-954.	2.6	8
65	A carbonylative coupling approach to alkyl stationary phases with variable embedded carbamate groups for high-performance liquid chromatography. Journal of Chromatography A, 2022, 1661, 462718.	3.7	8
66	Adsorption behaviors of CO2 and CH4 on zeolites JSR and NanJSR using the GCMC simulations. Adsorption, 2016, 22, 1065-1073.	3.0	7
67	Preparation of pH-responsive ceramic composite membranes by grafting acrylic acid onto Î±-alumina membranes. Science Bulletin, 2009, 54, 2147-2149.	9.0	5
68	Gas exfoliation mechanisms of graphitic carbon nitride into few-layered nanosheets. Journal of Porous Materials, 0, , 1.	2.6	4
69	Adsorption and separation of carbon dioxide and methane in new zeolites using the Grand Canonical Monte Carlo method. Adsorption, 2016, 22, 891-899.	3.0	3
70	Underwater superoleophobic mesh with robust Anthurium andraeanum-like attapulgite coating layer for effective oil spill recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129184.	4.7	3
71	Effects of Sintering Atmosphere on the Microstructure and Surface Properties of Symmetric TiO2 Membranes. Chinese Journal of Chemical Engineering, 2009, 17, 739-745.	3.5	2
72	A Novel Anti-fouling Polymer-Ceramic Composite Membrane by Graft Polymerization of Acrylic Acid. , 2011, , .		1

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73	Effect of Modification Conditions on Synthesis Polyamide/Attapulgite Composite Material. , 2011, , .		0
74	A COST-EFFECTIVE MAGNETIC PHOTOCATALYST PALYGORSKITEâ€“TiO2â€“FexOy WITH EXCELLENT PERFORMANCE FOR DYE PHOTODEGRADATION UNDER VISIBLE LIGHT. Nano, 2014, 09, 1450063.	1.0	0