Zhong Wei

List of Publications by Year
in descending order

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45 papers	980 citations	430874 18 h-index	454955 30 g-index
45 all docs	45 docs citations	45 times ranked	1276 citing authors

#	Article	IF	Citations
1	Mixed-Matrix Membranes Containing Carbon Nanotubes Composite with Hydrogel for Efficient CO₂ Separation. ACS Applied Materials & Interfaces, 2016, 8, 29044-29051.	8.0	111
2	Polydopamine-mediated surface functionalization of electrospun nanofibrous membranes: Preparation, characterization and their adsorption properties towards heavy metal ions. Applied Surface Science, 2015, 346, 207-215.	6.1	85
3	Highly Active Ruthenium Catalyst Supported on Barium Hexaaluminate for Ammonia Decomposition to CO_x-Free Hydrogen. ACS Sustainable Chemistry and Engineering, 2019, 7, 8226-8235.	6.7	72
4	Highly sensitive and rapid chemiresistive sensor towards trace nitro-explosive vapors based on oxygen vacancy-rich and defective crystallized In-doped ZnO. Sensors and Actuators B: Chemical, 2017, 244, 983-991.	7.8	57
5	Viscosity-driven in situ self-assembly strategy to fabricate cross-linked ZIF-90/PVA hybrid membranes for ethanol dehydration via pervaporation. Separation and Purification Technology, 2018, 201, 256-267.	7.9	52
6	Effect of interfacial interaction between graphene oxide derivatives and poly(vinyl chloride) upon the mechanical properties of their nanocomposites. Journal of Materials Science, 2014, 49, 2943-2951.	3.7	48
7	An acid-stable positively charged polysulfonamide nanofiltration membrane prepared by interfacial polymerization of polyallylamine and 1,3-benzenedisulfonyl chloride for water treatment. RSC Advances, 2019, 9, 2042-2054.	3.6	42
8	Positively Charged Polysulfonamide Nanocomposite Membranes Incorporating Hydrophilic Triazine-Structured COFs for Highly Efficient Nanofiltration. ACS Applied Nano Materials, 2020, 3, 9329-9339.	5.0	41
9	Intensification of water/ethanol separation by PVA hybrid membrane with different functional ligand UiO-66-X nanochannels in pervaporation process. Separation and Purification Technology, 2021, 256, 117802.	7.9	31
10	Novel branched poly(É›â€caprolactone) as a nonmigrating plasticizer in flexible <scp>PVC</scp>: Synthesis and characterization. Journal of Applied Polymer Science, 2018, 135, 46542.	2.6	30
11	In-situ generation of iron-dopamine nanoparticles with hybridization and cross-linking dual-functions in poly (vinyl alcohol) membranes for ethanol dehydration via pervaporation. Separation and Purification Technology, 2017, 188, 282-292.	7.9	25
12	Surface chemistry, topology and desalination performance controlled positively charged NF membrane prepared by polydopamine-assisted graft of starburst PAMAM dendrimers. RSC Advances, 2016, 6, 4673-4682.	3.6	24
13	Synthesis of lanthanum ricinoleate and its effect on thermal stability and mechanical properties in PVC. Journal of Rare Earths, 2014, 32, 1089-1094.	4.8	23
14	Multiarm hyperbranched polyesterâ€bâ€Poly(Îµâ€caprolactone):Plasticization effect and migration resistance for PVC. Journal of Vinyl and Additive Technology, 2020, 26, 35-42.	3.4	23
15	Molecular chain model construction, thermo-stability, and thermo-oxidative degradation mechanism of poly(vinyl chloride). RSC Advances, 2016, 6, 31898-31905.	3.6	22
16	High-performance SPEEK/amino acid salt membranes for CO2 separation. RSC Advances, 2016, 6, 2252-2258.	3.6	22
17	Toughening of Poly(<scp>l</scp>-Lactide) with Branched Polycaprolactone: Effect of Chain Length. ACS Omega, 2020, 5, 29284-29291.	3.5	22
18	Predictive molecular thermodynamic models for ionic liquids. AICHE Journal, 2022, 68, .	3.6	21

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19	Kinetics of Sn(Oct)2-catalyzed ring opening polymerization of Îµ-caprolactone. Macromolecular Research, 2017, 25, 1070-1075.	2.4	20
20	Cross-linking of poly(dimethylaminoethyl methacrylate) by phytic acid: pH-responsive adsorbent for high-efficiency removal of cationic and anionic dyes. RSC Advances, 2020, 10, 4232-4242.	3.6	19
21	(3-Aminopropyl) Triethoxysilane-Modified ZIF-90 Nanoparticle/Polydimethylsiloxane Mixed Matrix Membranes for Ethanol Recovery via Pervaporation. ACS Applied Nano Materials, 2022, 5, 183-194.	5.0	17
22	Mechanical properties, flame retardancy, and smoke suppression of lanthanum organic montmorillonite/poly(vinyl chloride) nanocomposites. Journal of Applied Polymer Science, 2016, 133, .	2.6	16
23	Green synthesis of AgNPs/reduced graphene oxide nanocomposites and effect on the electrical performance of electrically conductive adhesives. Journal of Materials Science: Materials in Electronics, 2016, 27, 3540-3548.	2.2	16
24	Functionalized polyesters derived from glycerol: Selective polycondensation methods toward glycerolâ€based polyesters by different catalysts. Journal of Applied Polymer Science, 2020, 137, 48574.	2.6	15
25	Catalytic performance of a Ti added Pd/SiO2 catalyst for acetylene hydrogenation. Journal of Industrial and Engineering Chemistry, 2012, 18, 45-48.	5.8	14
26	Agitating transformation during vinyl chloride suspension polymerization: aggregation morphology and PVC properties. RSC Advances, 2017, 7, 24022-24029.	3.6	12
27	Difunctional Fluorescence Nanoparticles for Accurate Tracing of Nanopesticide Fate and Crop Protection Prepared by Flash Nanoprecipitation. Journal of Agricultural and Food Chemistry, 2020, 68, 735-741.	5.2	12
28	Construction of a Drug Delivery System via pH-Responsive Polymeric Nanomicelles Containing Ferrocene for DOX Release and Enhancement of Therapeutic Effects. ACS Omega, 2021, 6, 28242-28253.	3.5	11
29	Construction of chain segment structure models, and effects on the initial stage of the thermal degradation of poly(vinyl chloride). RSC Advances, 2017, 7, 37268-37275.	3.6	10
30	Morphology, mechanical property, and processing thermal stability of PVC/Laâ€OMMTs nanocomposites prepared via in situ intercalative polymerization. Journal of Vinyl and Additive Technology, 2020, 26, 97-108.	3.4	8
31	Hydrophilic surface modification of DPVC nanofibrous membrane by free-radical graft polymerization. Fibers and Polymers, 2016, 17, 663-670.	2.1	7
32	Extraction of steviol glycosides from Stevia rebaudiana (Bertoni) leaves by highâ€speed shear homogenization extraction. Journal of Food Processing and Preservation, 2019, 43, e14250.	2.0	7
33	Mesoporous polystyrene-based microspheres with polar functional surface groups synthesized from double emulsion for selective isolation of acetoside. Journal of Chromatography A, 2022, 1662, 462720.	3.7	7
34	The modification of lanthanumâ€exchanged montmorillonite with anionic surfactants to enhance the thermal stability of polyvinyl chloride. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
35	UV-Visible Spectrophotometry for the Determination of Conjugated Polyene Structures of Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ove 20, 240-249.	1.9	5
36	The preparation of <scp>SPEEK</scp>/phosphate salts membranes and application for <scp>CO₂/CH₄</scp> separation. Journal of Applied Polymer Science, 2016, 133, .	2.6	5

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37	Synthesis of glycerol carbonate with high surface area ZrO2â€“KOH catalyst. Research on Chemical Intermediates, 2022, 48, 2557-2573.	2.7	4
38	Increasing the Production of Reactive Oxygen Species through a Ferroptosis Pathway Disrupts the Redox Balance of Tumor Cells for Cancer Treatment. ACS Applied Polymer Materials, 2022, 4, 5001-5011.	4.4	4
39	Effect of cross-linking on rheological properties and a model for flexibility-rigidity transition in SBS/PBMA LIPNs. Journal of Polymer Engineering, 2016, 36, 149-156.	1.4	3
40	Syntheses of high molecular weight hydroxy functional copolymers by green and selective polycondensation methods. RSC Advances, 2020, 10, 6414-6422.	3.6	3
41	The influence of twoâ€stage variable temperature suspension polymerization on polyvinyl chloride resin: The molecular chain segment structure and thermal stability. Journal of Vinyl and Additive Technology, 2019, 25, E80.	3.4	2
42	Structurally ordered nanofiltration membranes prepared by spatially anchoring interfacial polymerization for highly efficient separation properties. Korean Journal of Chemical Engineering, 2021, 38, 1956-1969.	2.7	2
43	Synthesis of phytic acidâ€based compounds for improving the mechanical properties and fire performances of poly(lactic acid). Journal of Vinyl and Additive Technology, 2022, 28, 459-473.	3.4	2
44	Preparation of IPNs SBS/PBMA-b-PMA and Effect of Compatibility with PVC. Advanced Materials Research, 2011, 320, 97-102.	0.3	1
45	Effect of segment structure on the thermal stability ofCPVCin theGasâ€Solid PVCchlorination process. Journal of Applied Polymer Science, 2020, 137, 49396.	2.6	1