Xu Weijian

List of Publications by Year in descending order

92 papers	1,987 citations	279701 23 h-index	289141 40 g-index
93 all docs	93 docs citations	93 times ranked	3152 citing authors

#	Article	IF	Citations
1	Rational design of self-supported WC/Co3W3N/Co@NC yolk/shell nitrogen-doped porous carbon catalyst for highly efficient overall water splitting. Journal of Alloys and Compounds, 2022, 902, 163627.	2.8	8
2	A New Synthetic Strategy for Polymeric Bromine Precursors: Oneâ€Step Change from Bromineâ€Containing Polymers to Functional Polymers. Macromolecular Chemistry and Physics, 2021, 222, 2000303.	1.1	1
3	Versatile quantitative biopsy: an approach for cost-effective detection of hydrogen peroxide in tissue specimens. New Journal of Chemistry, 2021, 45, 4311-4317.	1.4	3
4	Bimetal zeolite imidazolate framework derived Mo0.84Ni0.16-Mo2C@NC nanosphere for overall water splitting in alkaline solution. Journal of Colloid and Interface Science, 2021, 592, 349-357.	5.0	23
5	Phytic acid assisted preparation of high-performance supercapacitor electrodes from noncarbonizable polyvinylpyrrolidone. Journal of Power Sources, 2020, 448, 227402.	4.0	14
6	A feasible and environmentally friendly method to simultaneously synthesize MoS2 quantum dots and pore-rich monolayer MoS2 for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 433-442.	3.8	24
7	Few-layer N-doped porous carbon nanosheets derived from corn stalks as a bifunctional electrocatalyst for overall water splitting. Fuel, 2020, 280, 118567.	3.4	50
8	Lipaseâ€Catalyzed Reactive Extrusion: Copolymerization of Îµâ€Caprolactone and Ï‰â€Pentadecalactone. Macromolecular Rapid Communications, 2020, 41, e2000417.	2.0	7
9	Recycling the Catalyst of Atom Transfer Radical Polymerization to Prepare a Cu, N Codoped Mesoporous Carbon Electrocatalyst for Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 12768-12774.	3.2	10
10	Template-free fabrication of hierarchical graphitic carbon nitride via self-assembled aggregates for enhanced photocatalytic hydrogen evolution activity under visible light. Catalysis Science and Technology, 2020, 10, 6350-6358.	2.1	6
11	Ultra-low cobalt loading on N-doped carbon nanosheets by polymer pyrolysis strategy for efficient electrocatalytic hydrogen evolution. Applied Surface Science, 2020, 518, 146239.	3.1	10
12	Lipase-catalyzed ring-opening copolymerization of Ï‰-pentadecalactone and Î´-valerolactone by reactive extrusion. Green Chemistry, 2020, 22, 662-668.	4.6	12
13	Nitrogen-doped hierarchical porous carbons prepared via freeze-drying assisted carbonization for high-performance supercapacitors. Applied Surface Science, 2019, 496, 143643.	3.1	26
14	A novel MnO₂/MXene composite prepared by electrostatic self-assembly and its use as an electrode for enhanced supercapacitive performance. Inorganic Chemistry Frontiers, 2019, 6, 199-208.	3.0	68
15	Synthesis of a novel graphene-based gold nanocomposite using PVEIM-b-PNIPAM as a stabilizer and its thermosensitivity for the catalytic reduction of 4-nitrophenol. Inorganic Chemistry Frontiers, 2019, 6, 903-913.	3.0	21
16	In situ preparation of uniform and ultrafine SnO2 nanocrystals anchored within a mesoporous carbon network as advanced anode materials. Inorganic Chemistry Frontiers, 2018, 5, 378-385.	3.0	6
17	Coatings super-repellent to ultralow surface tension liquids. Nature Materials, 2018, 17, 1040-1047.	13.3	289
18	Coumarin-surfactant modified polyoxometalate catalyzed cross dehydrogenative coupling of benzyl alcohol with the para-Câ€“H of unprotected aniline. Catalysis Science and Technology, 2018, 8, 5133-5136.	2.1	0

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19	Coumarin-surfactant modified polyoxometalate as highly efficient catalysts for the selective oxidation of benzyl alcohol with air. Catalysis Communications, 2018, 114, 24-27.	1.6	5
20	Programmable DNA triple-helix molecular switch in biosensing applications: from in homogenous solutions to in living cells. Chemical Communications, 2017, 53, 2507-2510.	2.2	25
21	Light and pH dualâ€sensitive biodegradable polymeric nanoparticles for controlled release of cargos. Journal of Polymer Science Part A, 2017, 55, 1773-1783.	2.5	22
22	Functionalized Graphene Obtained via Thiol-Ene Click Reactions as an Efficient Electrochemical Sensor. ChemistrySelect, 2017, 2, 9284-9290.	0.7	14
23	Photoresponsive biodegradable poly(carbonate)s with pendent oâ€nitrobenzyl ester. Journal of Polymer Science Part A, 2017, 55, 2770-2780.	2.5	14
24	3D Graphene Frameworks/Co₃O₄ Composites Electrode for Highâ€Performance Supercapacitor and Enzymeless Glucose Detection. Small, 2017, 13, 1602077.	5.2	153
25	Water-soluble graphene dispersion functionalized by Dielsâ€“Alder cycloaddition reaction. Journal of the Iranian Chemical Society, 2017, 14, 89-93.	1.2	9
26	p<scp>H</scp>â€responsive core crosslinked polycarbonate micelles via thiolâ€acrylate <scp>M</scp>ichael addition reaction. Journal of Applied Polymer Science, 2017, 134, .	1.3	4
27	Anionic polymerization of 1,3-pentadiene in toluene: homopolymer, alternating and block copolymers. RSC Advances, 2016, 6, 51533-51543.	1.7	8
28	Redox-responsive, core-crosslinked degradable micelles for controlled drug release. Polymer Chemistry, 2016, 7, 6330-6339.	1.9	37
29	Mutually Duplicated Templates and Their Versatile Applications. Advanced Materials Interfaces, 2016, 3, 1600351.	1.9	1
30	Quantitative Monitoring of Hypoxia-Induced Intracellular Acidification in Lung Tumor Cells and Tissues Using Activatable Surface-Enhanced Raman Scattering Nanoprobes. Analytical Chemistry, 2016, 88, 11852-11859.	3.2	29
31	Transcription of G-quartet supramolecular aggregates into hierarchical mesoporous silica nanotubes. Dalton Transactions, 2016, 45, 7912-7920.	1.6	12
32	Enantiomerically Pure Chiral {Cu^{II}₃₂}-Based 2D-Layered Frameworks: From the Asymmetric Octacopper(II) Subcomponents to 3D Hierarchical Supramolecular Structures. Inorganic Chemistry, 2016, 55, 2673-2675.	1.9	5
33	An Anionic Heptacopper(II) Oxo-Cluster {Cu^{II}₇} with an S = 7/2 Ground State. Inorganic Chemistry, 2016, 55, 540-542.	1.9	16
34	Responsiveness, swelling, and mechanical properties of PNIPA nanocomposite hydrogels reinforced by nanocellulose. Journal of Materials Research, 2015, 30, 1797-1807.	1.2	29
35	Photoâ€responsive amphiphilic poly(Î±â€hydroxy acids) with pendent oâ€nitrobenzyl ester constructed via copperâ€catalyzed azideâ€alkyne cycloaddition reaction. Polymers for Advanced Technologies, 2015, 26, 449-456.	1.6	20
36	Synthesis and Characterization of Water-Soluble POSS Hybrid Inorganic/Organic PDMAEMA Nanocomposite Hydrogels. Soft Materials, 2015, 13, 77-85.	0.8	4

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37	Reversibly lightâ€responsive biodegradable poly(carbonate) micelles constructed via <scp>C</scp>u<scp>AAC</scp> reaction. Journal of Polymer Science Part A, 2015, 53, 750-760.	2.5	30
38	Cyclodextrin supramolecular inclusion-enhanced pyrene excimer switching for time-resolved fluorescence detection of biothiols in serum. Biosensors and Bioelectronics, 2015, 68, 253-258.	5.3	21
39	An Hg²⁺-selective chemosensor based on the self-assembly of a novel amphiphilic block copolymer bearing rhodamine 6G derivative moieties in purely aqueous media. Analytical Methods, 2015, 7, 2738-2746.	1.3	19
40	Folded three-dimensional graphene with uniformly distributed mesopores for high-performance supercapacitors. RSC Advances, 2015, 5, 33767-33771.	1.7	4
41	A cationic azobenzene-surfactant-modified graphene hybrid: unique photoresponse and electrochemical behavior. Nanoscale, 2015, 7, 19673-19686.	2.8	34
42	Preparation of Lightâ€Responsive Polyester Micelles via Ringâ€Opening Polymerization of Oâ€Carboxyanhydride and Azideâ€“Alkyne Click Chemistry. Macromolecular Chemistry and Physics, 2015, 216, 77-84.	1.1	23
43	Durable superoleophobic fabric surfaces with counterintuitive superwettability for polar solvents. AICHE Journal, 2014, 60, 2752-2756.	1.8	64
44	Silica/poly (Nâ€vinylimidazolium) nanospheres by combined RAFT polymerization and thiolâ€ene click chemistry. Polymers for Advanced Technologies, 2014, 25, 684-688.	1.6	14
45	Spiropyran-decorated light-responsive amphiphilic poly(Î±-hydroxy acids) micelles constructed via a CuAAC reaction. RSC Advances, 2014, 4, 58432-58439.	1.7	14
46	Photo-responsive reversible micelles based on azobenzene-modified poly(carbonate)s via azideâ€“alkyne click chemistry. RSC Advances, 2014, 4, 47929-47936.	1.7	33
47	The preparation and characteristic of robust inorganic/organic IPN nanocomposite hydrogels with fast response rate. Journal of Materials Science, 2014, 49, 7360-7370.	1.7	4
48	The evolution of structure and properties of PNIPA/clay nanocomposite hydrogels with the freezing time in polymerization. Journal of Materials Research, 2014, 29, 820-832.	1.2	11
49	Development of a DOPOâ€containing melamine epoxy hardeners and its thermal and flameâ€retardant properties of cured products. Journal of Applied Polymer Science, 2013, 127, 4352-4358.	1.3	97
50	Preparation and characterization of strongly swellable modified-lignosulfonate hydrogel particles. Iranian Polymer Journal (English Edition), 2013, 22, 749-756.	1.3	12
51	Azo addition to exfoliated graphene: a facile and high yield route to functionalized graphene. RSC Advances, 2013, 3, 17689.	1.7	11
52	Synthesis and characterization of pH and temperature double-sensitive nanocomposite hydrogels consisting of poly(dimethylaminoethyl methacrylate) and clay. Journal of Materials Research, 2013, 28, 1394-1404.	1.2	25
53	High concentration and stable few-layer graphene dispersions prepared by the exfoliation of graphite in different organic solvents. RSC Advances, 2013, 3, 9490.	1.7	43
54	Synthesis and characterization of polyhedral oligomeric silsesquioxane hybrid coâ€crosslinked poly(Nâ€isopropylacrylamideâ€coâ€dimethylaminoethyl methacrylate) hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1494-1504.	2.4	27

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55	Facile synthesis and catalytic activity of wellâ€defined amphiphilic block copolymers based on Nâ€vinylimidazolium. Polymers for Advanced Technologies, 2013, 24, 1089-1093.	1.6	10
56	Preparation of modified sodium lignosulfonate hydrogelâ€“silver nanocomposites. Polymer Composites, 2013, 34, 860-866.	2.3	7
57	Preparation of Graphene Dispersion and Carbon Nanoscrolls. Chemistry Letters, 2012, 41, 606-608.	0.7	2
58	Evaporation-induced Self-assembly of Polystyrene-b-poly (acrylic acid) Nanomicelles on the Silicon Wafer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 533-538.	1.2	3
59	Highly Controlled Organotellurium-Mediated Living Radical Polymerization (TERP) in Ionic Liquids (ILs). The New Role of ILs in Radical Reactions. ACS Macro Letters, 2012, 1, 146-149.	2.3	13
60	Preparation of microencapsulated ammonium polyphosphate with montmorilloniteâ€melamine formaldehyde resin and its flame retardancy in EVM. Polymers for Advanced Technologies, 2012, 23, 166-170.	1.6	22
61	Derivitization of pristine graphene for bulk heterojunction polymeric photovoltaic devices. Journal of Materials Chemistry, 2012, 22, 16723.	6.7	16
62	Photoreversible Superhydrophobic Surfaces with Switchable Stickyâ€Rolling State of Water Droplets. Macromolecular Materials and Engineering, 2012, 297, 979-984.	1.7	8
63	Synthesis of a novel intumescent flame retardant and its application in EVM. Journal of Applied Polymer Science, 2012, 125, 1544-1551.	1.3	13
64	Fabrication of a coumarin-driven switchable superhydrophobic silica surface by photochemistry. Soft Matter, 2012, 8, 7357.	1.2	20
65	General Avenue to Multifunctional Aqueous Nanocrystals Stabilized by Hyperbranched Polyglycerol. Chemistry of Materials, 2011, 23, 1461-1470.	3.2	72
66	A Facile Method to Fabricate Hierarchical Particulates for Superhydrophobic Surfaces by Diisocyanate Reactions. Journal of Adhesion Science and Technology, 2011, 25, 1393-1401.	1.4	2
67	Preparation, characterization, and properties of crosslinked hydroxylated poly(styreneâ€bâ€butadieneâ€bâ€styrene) triblock copolymer. Journal of Applied Polymer Science, 2011, 120, 1162-1169.	1.3	4
68	UV exposure effects on photoinitiatorâ€grafted styreneâ€butadieneâ€styrene triblock copolymer. Journal of Applied Polymer Science, 2011, 120, 2627-2631.	1.3	3
69	Curing kinetics of fluorene containing benzoxazine investigated by nonisothermal differential scanning calorimetry. Journal of Applied Polymer Science, 2011, 121, 2481-2487.	1.3	16
70	Preparation and properties of nylon 6/carboxylic silica nanocomposites via in situ polymerization. Journal of Applied Polymer Science, 2011, 122, 1316-1324.	1.3	16
71	Transparent, fluorescent, and mechanical enhanced elastomeric composites formed with poly (styreneâ€butadieneâ€styrene) and SiO₂â€hybridized CdTe quantum dots. Journal of Applied Polymer Science, 2011, 122, 2325-2330.	1.3	5
72	Flame Retardancy and Mechanical Properties of Ethylene-vinyl Acetate Rubber with Expandable Graphite/Ammonium Polyphosphate/Dipentaerythritol System. Journal of Macromolecular Science - Physics, 2011, 50, 1864-1872.	0.4	15

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73	Flowability and Mechanical and Thermal Properties of Nylon 6/Ethylene bis-Stearamide/Carboxylic Silica Composites. Journal of Macromolecular Science - Physics, 2011, 50, 2255-2270.	0.4	8
74	Crystal structure, curing kinetics, and thermal properties of bisphenol fluorene epoxy resin. Journal of Applied Polymer Science, 2010, 118, 827-833.	1.3	5
75	Preparation and characterization of epoxy/kaolinite nanocomposites. Journal of Applied Polymer Science, 2010, 118, 2461-2466.	1.3	3
76	Preparation, characterization, and polymerization of novel maleimidobenzoxazine containing carboxylic moiety and its cocuring behaviors with epoxy resin. Journal of Applied Polymer Science, 2010, 118, 705-710.	1.3	11
77	Preparation, characterization, and properties of sodium montmorillonite clay/poly(styreneâ€“butadieneâ€“styrene) containing quaternary ammonium cations and photoinitiator nanocomposites via ultraviolet exposure. Journal of Applied Polymer Science, 2010, 118, 1675-1682.	1.3	2
78	Preparation and Characteration of UV-cured EA/MMT Nanocomposites ViaIn-SituPolymerization. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 647-654.	1.2	3
79	Application of Click Chemistry in the Fabrication of Cactus-Like Hierarchical Particulates for Sticky Superhydrophobic Surfaces. Journal of Physical Chemistry C, 2010, 114, 5926-5931.	1.5	28
80	Simultaneous photoluminescence import and mechanical enhancement of polymer films using silica-hybridized quantum dots. Journal of Materials Chemistry, 2010, 20, 5675.	6.7	27
81	Efficient Grafting of Hyperbranched Polyglycerol from Hydroxylâ€Functionalized Multiwalled Carbon Nanotubes by Surfaceâ€Initiated Anionic Ringâ€Opening Polymerization. Macromolecular Chemistry and Physics, 2009, 210, 1011-1018.	1.1	57
82	Preparation of ultravioletâ€cured bisphenol A epoxy diacrylate/montmorillonite nanocomposites with a bifunctional, reactive, organically modified montmorillonite as the only initiator via in situ polymerization. Journal of Applied Polymer Science, 2009, 111, 813-818.	1.3	15
83	Isothermal crystallization kinetics of highâ€flow nylon 6 by differential scanning calorimetry. Journal of Applied Polymer Science, 2009, 111, 2930-2937.	1.3	11
84	Amphibious polymer-functionalized CdTe quantum dots: Synthesis, thermo-responsive self-assembly, and photoluminescent properties. Journal of Materials Chemistry, 2009, 19, 5655.	6.7	38
85	Investigation on nonisothermal crystallization kinetics of the highâ€flow nylon 6 by differential scanning calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2201-2211.	2.4	14
86	Highâ€flow nylon 6 by in situ polymerization: Synthesis and characterization. Journal of Applied Polymer Science, 2008, 108, 2365-2372.	1.3	15
87	Synthesis and characterization of dendronized aromatic polyamides with bromomethyl groups in the periphery. Journal of Applied Polymer Science, 2008, 109, 397-405.	1.3	3
88	Preparation and characterization of a novel composite based on hyperbranched polysilane and fullerene. Journal of Applied Polymer Science, 2007, 105, 821-826.	1.3	9
89	Facile synthesis of dendronized polyamides with chloromethyl groups in the periphery and some properties. Journal of Applied Polymer Science, 2007, 105, 3087-3096.	1.3	6
90	Synthesis of a novel aromaticâ€“aliphatic hyperbranched polyamide and its application in piezoelectric immunosensors. Polymer International, 2007, 56, 1432-1439.	1.6	12

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91	Comparison between two commercial uranium resins and a uranyl sulphate imprinted resin based on self-assembling MIT. Frontiers of Chemical Engineering in China, 2007, 1, 327-331.	0.6	2
92	A Novel Sigma-Conjugated Hyperbranched Polysilane Polymethylphenylsilane-co-methylsilane (PMPS-co-MS). Materials Research Society Symposia Proceedings, 2006, 937, 1.	0.1	0