

Xianchai Jiang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

1,351
citations

19
h-index

36
g-index

50
ext. papers

1,962
ext. citations

7.2
avg, IF

5.04
L-index

#	Paper	IF	Citations
46	Hierarchical Porous CoS/Nitrogen-Doped Carbon@MoS Polyhedrons as pH Universal Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28394-28405	9.5	135
45	Template synthesis of CoSe ₂ /Co ₃ Se ₄ nanotubes: tuning of their crystal structures for photovoltaics and hydrogen evolution in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4513-4526 ¹²⁵	13.4	125
44	Morphology-Tuned Synthesis of Nickel Cobalt Selenides as Highly Efficient Pt-Free Counter Electrode Catalysts for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29486-29495 ⁹⁶	9.5	96
43	Highly tough supramolecular double network hydrogel electrolytes for an artificial flexible and low-temperature tolerant sensor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6776-6784	13	89
42	The plasticizing mechanism and effect of calcium chloride on starch/poly(vinyl alcohol) films. <i>Carbohydrate Polymers</i> , 2012 , 90, 1677-84	10.3	88
41	Self-powered integrated system of a strain sensor and flexible all-solid-state supercapacitor by using a high performance ionic organohydrogel. <i>Materials Horizons</i> , 2020 , 7, 2085-2096	14.4	79
40	Preparation and characterization of poly(vinyl alcohol)/sodium alginate hydrogel with high toughness and electric conductivity. <i>Carbohydrate Polymers</i> , 2018 , 186, 377-383	10.3	79
39	Multifunctional Poly(vinyl alcohol) Nanocomposite Organohydrogel for Flexible Strain and Temperature Sensor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40815-40827	9.5	59
38	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30247-30258	9.5	42
37	Studies of the plasticizing effect of different hydrophilic inorganic salts on starch/poly (vinyl alcohol) films. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 223-30	7.9	41
36	Facile preparation and characterization of poly(vinyl alcohol)-NaCl-glycerol supramolecular hydrogel electrolyte. <i>European Polymer Journal</i> , 2018 , 106, 206-213	5.2	37
35	High-performance and flexible solid-state supercapacitors based on high toughness and thermoplastic poly(vinyl alcohol)/NaCl/glycerol supramolecular gel polymer electrolyte. <i>Electrochimica Acta</i> , 2019 , 324, 134874	6.7	36
34	Studies on the properties of poly(vinyl alcohol) film plasticized by urea/ethanolamine mixture. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 697-703	2.9	33
33	Preparation of high tough poly(vinyl alcohol) hydrogel by soaking in NaCl aqueous solution. <i>Materials Letters</i> , 2017 , 194, 34-37	3.3	31
32	Preparation and characterization of quaternized poly(vinyl alcohol)/chitosan/MoS composite anion exchange membranes with high selectivity. <i>Carbohydrate Polymers</i> , 2018 , 180, 96-103	10.3	31
31	Superhydrophobic and Flexible Silver Nanowire-Coated Cellulose Filter Papers with Sputter-Deposited Nickel Nanoparticles for Ultrahigh Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14623-14633	9.5	31
30	Preparation and characterization of novel magnetic FeO/chitosan/Al(OH) beads and its adsorption for fluoride. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 256-262	7.9	30

29	The effect of glycerol on properties of chitosan/poly(vinyl alcohol) films with AlCl ₃ ·6H ₂ O aqueous solution as the solvent for chitosan. <i>Carbohydrate Polymers</i> , 2016 , 135, 191-8	10.3	29
28	Preparation and characterization of hybrid double network chitosan/poly(acrylic amide-acrylic acid) high toughness hydrogel through Al crosslinking. <i>Carbohydrate Polymers</i> , 2017 , 173, 701-706	10.3	29
27	Facile synthesis of MnO nanorods grown on porous carbon for supercapacitor with enhanced electrochemical performance. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 466-475	9.3	19
26	Facile preparation of nitrogen-doped activated mesoporous carbon aerogel from chitosan for methyl orange adsorption from aqueous solution. <i>Cellulose</i> , 2019 , 26, 4515-4527	5.5	19
25	Highly tough, freezing-tolerant, healable and thermoplastic starch/poly(vinyl alcohol) organohydrogels for flexible electronic devices. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18406-18420	13	15
24	A low-cost and environment friendly chitosan/aluminum hydroxide bead adsorbent for fluoride removal from aqueous solutions. <i>Iranian Polymer Journal (English Edition)</i> , 2018 , 27, 253-261	2.3	14
23	Modification of poly(vinyl alcohol) films by the addition of magnesium chloride hexahydrate. <i>Polymer Engineering and Science</i> , 2012 , 52, 1565-1570	2.3	14
22	Tunable electrorheological characteristics and mechanism of a series of graphene-like molybdenum disulfide coated core-shell structured polystyrene microspheres. <i>RSC Advances</i> , 2016 , 6, 26096-26103	3.7	13
21	Stimuli-Responsive Nanoparticles for Controlled Drug Delivery in Synergistic Cancer Immunotherapy.. <i>Advanced Science</i> , 2021 , e2103444	13.6	13
20	The Effect of glycerol on the crystalline, thermal, and tensile properties of CaCl ₂ -doped starch/PVA films. <i>Polymer Composites</i> , 2016 , 37, 3191-3199	3	12
19	Facile Fabrication of Biochar/Al ₂ O ₃ Adsorbent and Its Application for Fluoride Removal from Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 83-89	2.8	12
18	Facile preparation and characterization of super tough chitosan/poly(vinyl alcohol) hydrogel with low temperature resistance and anti-swelling property. <i>International Journal of Biological Macromolecules</i> , 2020 , 142, 574-582	7.9	11
17	A facile preparation method for anti-freezing, tough, transparent, conductive and thermoplastic poly(vinyl alcohol)/sodium alginate/glycerol organohydrogel electrolyte. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2512-2523	7.9	11
16	Facile synthesis of chitosan derived heteroatoms-doped hierarchical porous carbon for supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021 , 320, 111106	5.3	11
15	An Antifreezing, Tough, Rehydratable, and Thermoplastic Poly(vinyl alcohol)/Sodium Alginate/Poly(ethylene glycol) Organohydrogel Electrolyte for Flexible Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9833-9845	8.3	9
14	Environment stable ionic organohydrogel as a self-powered integrated system for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16345-16358	13	8
13	Toughened elastomer/polyhedral oligomeric silsesquioxane (POSS)-intercalated rectorite nanocomposites: Preparation, microstructure, and mechanical properties. <i>Polymer Composites</i> , 2017 , 38, E443-E450	3	7
12	Green synthesis of red-emission carbon based dots by microbial fermentation. <i>New Journal of Chemistry</i> , 2018 , 42, 8591-8595	3.6	6

11	CoMOF-74@CuMOF-74 Derived Bifunctional Co@Cu for One-Pot Production of 1, 4-Diphenyl-1, 3-Butadiene from Phenylacetylene. <i>ChemCatChem</i> , 2020 , 12, 6241-6247	5.2	6
10	Highly flexible and adhesive poly(vinyl alcohol)/poly(acrylic amide-co-2-acrylamido-2-methylpropane sulfonic acid)/glycerin hydrogel electrolyte for stretchable and resumable supercapacitor. <i>Chemical Engineering Journal</i> , 2021 , 425, 131505	14.7	5
9	A quaternized poly(vinyl alcohol)/chitosan composite alkaline polymer electrolyte: preparation and characterization of the membrane. <i>Iranian Polymer Journal (English Edition)</i> , 2017 , 26, 531-539	2.3	3
8	Tissue-adhesive and highly mechanical double-network hydrogel for cryopreservation and sustained release of anti-cancer drugs. <i>Smart Materials in Medicine</i> , 2021 , 2, 229-236	12.9	3
7	Preparation of glycerol plasticized chitosan films using AlCl ₃ ·6H ₂ O as the solvent: optical, crystalline, mechanical and barrier properties. <i>International Journal of Polymer Analysis and Characterization</i> , 2019 , 24, 295-303	1.7	2
6	Synergism Effect of Surfactant and Inorganic Salt on the Properties of Starch/Poly(Vinyl Alcohol) Film. <i>Starch/Staerke</i> , 2018 , 70, 1700146	2.3	2
5	Influences of nonsolvent on the morphologies and electrochemical properties of carbon nanofibres from electrospun polyacrylonitrile nanofibres. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	1
4	Preparation and properties of plasticized chitosan/starch cast films using AlCl ₃ ·6H ₂ O aqueous solution as the solvent. <i>Polymer Bulletin</i> , 2017 , 74, 1817-1830	2.4	1
3	Recyclable carbon fiber reinforced vanillin-based polyimine vitrimers: degradation and mechanical properties study. <i>Macromolecular Materials and Engineering</i> , 2100893	3.9	1
2	Tough and anti-fatigue double network gelatin/polyacrylamide/DMSO/Na ₂ SO ₄ ionic conductive organohydrogel for flexible strain sensor. <i>European Polymer Journal</i> , 2022 , 168, 111099	5.2	1
1	Tough chitosan/poly(acrylamide-acrylic acid)/cellulose nanofibrils/ethylene glycol nanocomposite organohydrogel with tolerance to hot and cold environments. <i>International Journal of Biological Macromolecules</i> , 2021 , 186, 952-961	7.9	0