Xianchai Jiang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4861912/publications.pdf

Version: 2024-02-01

49 papers	2,648 citations	186209 28 h-index	189801 50 g-index
50 all docs	50 docs citations	50 times ranked	2784 citing authors

#	Article	IF	Citations
1	Highly tough supramolecular double network hydrogel electrolytes for an artificial flexible and low-temperature tolerant sensor. Journal of Materials Chemistry A, 2020, 8, 6776-6784.	5.2	220
2	Self-powered integrated system of a strain sensor and flexible all-solid-state supercapacitor by using a high performance ionic organohydrogel. Materials Horizons, 2020, 7, 2085-2096.	6.4	187
3	Hierarchical Porous Co₉S₈/Nitrogen-Doped Carbon@MoS₂ Polyhedrons as pH Universal Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 28394-28405.	4.0	179
4	Template synthesis of CoSe₂/Co₃Se₄ nanotubes: tuning of their crystal structures for photovoltaics and hydrogen evolution in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 4513-4526.	5.2	165
5	Multifunctional Poly(vinyl alcohol) Nanocomposite Organohydrogel for Flexible Strain and Temperature Sensor. ACS Applied Materials & Interfaces, 2020, 12, 40815-40827.	4.0	141
6	Preparation and characterization of poly(vinyl alcohol)/sodium alginate hydrogel with high toughness and electric conductivity. Carbohydrate Polymers, 2018, 186, 377-383.	5.1	135
7	The plasticizing mechanism and effect of calcium chloride on starch/poly(vinyl alcohol) films. Carbohydrate Polymers, 2012, 90, 1677-1684.	5.1	119
8	Morphology-Tuned Synthesis of Nickel Cobalt Selenides as Highly Efficient Pt-Free Counter Electrode Catalysts for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 29486-29495.	4.0	117
9	Stimuliâ€Responsive Nanoparticles for Controlled Drug Delivery in Synergistic Cancer Immunotherapy. Advanced Science, 2022, 9, e2103444.	5.6	102
10	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. ACS Applied Materials & Interfaces, 2020, 12, 30247-30258.	4.0	93
11	Highly tough, freezing-tolerant, healable and thermoplastic starch/poly(vinyl alcohol) organohydrogels for flexible electronic devices. Journal of Materials Chemistry A, 2021, 9, 18406-18420.	5.2	91
12	Superhydrophobic and Flexible Silver Nanowire-Coated Cellulose Filter Papers with Sputter-Deposited Nickel Nanoparticles for Ultrahigh Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2021, 13, 14623-14633.	4.0	90
13	High-performance and flexible solid-state supercapacitors based on high toughness and thermoplastic poly(vinyl alcohol)/NaCl/glycerol supramolecular gel polymer electrolyte. Electrochimica Acta, 2019, 324, 134874.	2.6	68
14	Facile preparation and characterization of poly(vinyl alcohol)-NaCl-glycerol supramolecular hydrogel electrolyte. European Polymer Journal, 2018, 106, 206-213.	2.6	67
15	Studies of the plasticizing effect of different hydrophilic inorganic salts on starch/poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.6	55
16	An Antifreezing, Tough, Rehydratable, and Thermoplastic Poly(vinyl alcohol)/Sodium Alginate/Poly(ethylene glycol) Organohydrogel Electrolyte for Flexible Supercapacitors. ACS Sustainable Chemistry and Engineering, 2021, 9, 9833-9845.	3.2	54
17	Highly flexible and adhesive poly(vinyl alcohol)/poly(acrylic amide-co-2-acrylamido-2-methylpropane) Tj ETQq1 1 0.784314 rgBT /Overlock Engineering Journal, 2021, 425, 131505.	6.6	52
18	Preparation and characterization of quaternized poly(vinyl alcohol)/chitosan/MoS2 composite anion exchange membranes with high selectivity. Carbohydrate Polymers, 2018, 180, 96-103.	5.1	50

#	Article	IF	Citations
19	Preparation and characterization of novel magnetic Fe3O4/chitosan/Al(OH)3 beads and its adsorption for fluoride. International Journal of Biological Macromolecules, 2018, 114, 256-262.	3.6	46
20	Preparation and characterization of hybrid double network chitosan/poly(acrylic amide-acrylic acid) high toughness hydrogel through Al 3+ crosslinking. Carbohydrate Polymers, 2017, 173, 701-706.	5.1	43
21	Facile synthesis of chitosan derived heteroatoms-doped hierarchical porous carbon for supercapacitors. Microporous and Mesoporous Materials, 2021, 320, 111106.	2.2	43
22	Preparation of high tough poly(vinyl alcohol) hydrogel by soaking in NaCl aqueous solution. Materials Letters, 2017, 194, 34-37.	1.3	42
23	Studies on the properties of poly(vinyl alcohol) film plasticized by urea/ethanolamine mixture. Journal of Applied Polymer Science, 2012, 125, 697-703.	1.3	41
24	Facile preparation of nitrogen-doped activated mesoporous carbon aerogel from chitosan for methyl orange adsorption from aqueous solution. Cellulose, 2019, 26, 4515-4527.	2.4	39
25	Hybridizing Silver Nanoparticles in Hydrogel for High-Performance Flexible SERS Chips. ACS Applied Materials & Interfaces, 2022, 14, 26216-26224.	4.0	37
26	A facile preparation method for anti-freezing, tough, transparent, conductive and thermoplastic poly(vinyl alcohol)/sodium alginate/glycerol organohydrogel electrolyte. International Journal of Biological Macromolecules, 2020, 164, 2512-2523.	3.6	36
27	Facile preparation and characterization of super tough chitosan/poly(vinyl alcohol) hydrogel with low temperature resistance and anti-swelling property. International Journal of Biological Macromolecules, 2020, 142, 574-582.	3.6	34
28	The effect of glycerol on properties of chitosan/poly(vinyl alcohol) films with AlCl 3 Â·6H 2 O aqueous solution as the solvent for chitosan. Carbohydrate Polymers, 2016, 135, 191-198.	5.1	33
29	Environment stable ionic organohydrogel as a self-powered integrated system for wearable electronics. Journal of Materials Chemistry A, 2021, 9, 16345-16358.	5.2	32
30	A low-cost and environment friendly chitosan/aluminum hydroxide bead adsorbent for fluoride removal from aqueous solutions. Iranian Polymer Journal (English Edition), 2018, 27, 253-261.	1.3	24
31	Facile synthesis of MnO2 nanorods grown on porous carbon for supercapacitor with enhanced electrochemical performance. Journal of Colloid and Interface Science, 2019, 540, 466-475.	5.0	23
32	Facile Fabrication of Biochar/Al₂O₃ Adsorbent and Its Application for Fluoride Removal from Aqueous Solution. Journal of Chemical & Engineering Data, 2019, 64, 83-89.	1.0	23
33	An adhesive, anti-freezing, and environment stable zwitterionic organohydrogel for flexible all-solid-state supercapacitor. Polymer, 2022, 254, 125109.	1.8	22
34	Modification of poly(vinyl alcohol) films by the addition of magnesium chloride hexahydrate. Polymer Engineering and Science, 2012, 52, 1565-1570.	1.5	17
35	The Effect of glycerol on the crystalline, thermal, and tensile properties of CaCl₂â€doped starch/<scp>PVA</scp> films. Polymer Composites, 2016, 37, 3191-3199.	2.3	15
36	Tunable electrorheological characteristics and mechanism of a series of graphene-like molybdenum disulfide coated coreâ€“shell structured polystyrene microspheres. RSC Advances, 2016, 6, 26096-26103.	1.7	13

#	Article	IF	Citations
37	Tissue-adhesive and highly mechanical double-network hydrogel for cryopreservation and sustained release of anti-cancer drugs. Smart Materials in Medicine, 2021, 2, 229-236.	3.7	13
38	Coâ€'MOFâ€'74@Cuâ€'MOFâ€'74 Derived Bifunctional Coâ€'C@Cuâ€'C for Oneâ€Pot Production of 1, 4â€Diphenylâ€1, 3â€Butadiene from Phenylacetylene. ChemCatChem, 2020, 12, 6241-6247.	1.8	12
39	Recyclable Carbon Fiber Reinforced Vanillinâ€Based Polyimine Vitrimers: Degradation and Mechanical Properties Study. Macromolecular Materials and Engineering, 2022, 307, .	1.7	11
40	Tough and anti-fatigue double network gelatin/polyacrylamide/DMSO/Na2SO4 ionic conductive organohydrogel for flexible strain sensor. European Polymer Journal, 2022, 168, 111099.	2.6	10
41	Toughened elastomer/polyhedral oligomeric silsesquioxane (POSS)â€intercalated rectorite nanocomposites: Preparation, microstructure, and mechanical properties. Polymer Composites, 2017, 38, E443.	2.3	9
42	Green synthesis of red-emission carbon based dots by microbial fermentation. New Journal of Chemistry, 2018, 42, 8591-8595.	1.4	8
43	A quaternized poly(vinyl alcohol)/chitosan composite alkaline polymer electrolyte: preparation and characterization of the membrane. Iranian Polymer Journal (English Edition), 2017, 26, 531-539.	1.3	5
44	Synergism Effect of Surfactant and Inorganic Salt on the Properties of Starch/Poly(Vinyl Alcohol) Film. Starch/Staerke, 2018, 70, 1700146.	1.1	5
45	Tough chitosan/poly(acrylamide-acrylic acid)/cellulose nanofibrils/ethylene glycol nanocomposite organohydrogel with tolerance to hot and cold environments. International Journal of Biological Macromolecules, 2021, 186, 952-961.	3.6	4
46	Preparation and properties of plasticized chitosan/starch cast films using AlCl3Â·6H2O aqueous solution as the solvent. Polymer Bulletin, 2017, 74, 1817-1830.	1.7	3
47	Preparation of glycerol plasticized chitosan films using AlCl3Â·6H2O as the solvent: optical, crystalline, mechanical and barrier properties. International Journal of Polymer Analysis and Characterization, 2019, 24, 295-303.	0.9	3
48	Self-assembled hierarchical metalâ€"polyphenol-coordinated hybrid 2D Coâ€"C_{TA}@g-C₃N₄heterostructured nanosheets for efficient electrocatalytic oxygen reduction. Catalysis Science and Technology, 2022, 12, 4653-4661.	2.1	2
49	Influences of nonsolvent on the morphologies and electrochemical properties of carbon nanofibres from electrospun polyacrylonitrile nanofibres. Bulletin of Materials Science, 2018, 41, 1.	0.8	1