

Qigang Wang

List of Publications by Year in descending order

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115
papers

7,291
citations

57758

44
h-index

56724

83
g-index

118
all docs

118
docs citations

118
times ranked

9775
citing authors

#	ARTICLE	IF	CITATIONS
1	Regenerated hydrogel electrolyte towards an all-gel supercapacitor. <i>Science China Materials</i> , 2022, 65, 115-123.	6.3	10
2	Spatiotemporally-regulated multienzymatic polymerization endows hydrogel continuous gradient and spontaneous actuation. <i>Science China Chemistry</i> , 2022, 65, 153-161.	8.2	2
3	COx/Hb Cascade Oxidized Crosslinking of Silk Fibroin for Tissue-Responsive Wound Repair. <i>Gels</i> , 2022, 8, 56.	4.5	3
4	Reshaping the Tumor Immune Microenvironment Based on a Light-Activated Nanoplatfor for Efficient Cancer Therapy. <i>Advanced Materials</i> , 2022, 34, e2108908.	21.0	41
5	Photothermo-Promoted Nanocatalysis Combined with H ₂ S-Mediated Respiration Inhibition for Efficient Cancer Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2007991.	14.9	70
6	3D-printing AIE stereolithography resins with real-time monitored printing process to fabricate fluorescent objects. <i>Composites Part B: Engineering</i> , 2021, 206, 108526.	12.0	14
7	Enzyme-Laden Bioactive Hydrogel for Biocatalytic Monitoring and Regulation. <i>Accounts of Chemical Research</i> , 2021, 54, 1274-1287.	15.6	59
8	Spatiotemporal Magnetocaloric Microenvironment for Guiding the Fate of Biodegradable Polymer Implants. <i>Advanced Functional Materials</i> , 2021, 31, 2009661.	14.9	19
9	Tissue Fluid Triggered Enzyme Polymerization for Ultrafast Gelation and Cartilage Repair. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19982-19987.	13.8	19
10	A Compartmental Silica Nanoreactor for Multienzyme-Regulated Superactive Catalytic Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2103531.	14.9	10
11	Construction of self-assembled nanogel as multienzyme mimics for bioresponsive tandem-catalysis imaging. <i>Science China Materials</i> , 2021, 64, 3079-3086.	6.3	5
12	Tissue Fluid Triggered Enzyme Polymerization for Ultrafast Gelation and Cartilage Repair. <i>Angewandte Chemie</i> , 2021, 133, 20135-20140.	2.0	2
13	A bimetallic oxide NiMnO ₃ with perovskite structured as a high-performance cathode for zinc ion batteries. <i>Ionics</i> , 2021, 27, 4811-4818.	2.4	12
14	Reversible Dendritic-Crystal-Reinforced Polymer Gel for Bioinspired Adaptable Adhesive. <i>Advanced Materials</i> , 2021, 33, e2103174.	21.0	35
15	Highly transparent conductive ionohydrogel for all-climate wireless human-motion sensor. <i>Chemical Engineering Journal</i> , 2021, 420, 129865.	12.7	47
16	Peroxisome inspired hybrid enzyme nanogels for chemodynamic and photodynamic therapy. <i>Nature Communications</i> , 2021, 12, 5243.	12.8	111
17	MoS ₂ nanosheet initiated smart polymeric hydrogel for NIR-driven Ag(I) enrichment. <i>Chemical Engineering Journal</i> , 2020, 382, 123018.	12.7	23
18	A Neutrophil-Inspired Supramolecular Nanogel for Magnetocaloric-Enzymatic Tandem Therapy. <i>Angewandte Chemie</i> , 2020, 132, 3761-3767.	2.0	42

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19	A Neutrophil-Inspired Supramolecular Nanogel for Magnetocaloric-Enzymatic Tandem Therapy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3732-3738.	13.8	39
20	Enhanced Solar-Driven Heating and Tough Hydrogel Electrolyte by Photothermal Effect and Hofmeister Effect. <i>Small</i> , 2020, 16, e2004091.	10.0	21
21	Frontispiz: Nanogel Multienzyme Mimics Synthesized by Biocatalytic ATRP and Metal Coordination for Bioresponsive Fluorescence Imaging. <i>Angewandte Chemie</i> , 2020, 132, .	2.0	0
22	Bioinspired Soft Microrobots with Precise Magneto-Collective Control for Microvascular Thrombolysis. <i>Advanced Materials</i> , 2020, 32, e2000366.	21.0	105
23	Hofmeister-Effect-Guided Ionohydrogel Design as Printable Bioelectronic Devices. <i>Advanced Materials</i> , 2020, 32, e2000189.	21.0	31
24	Nanogel Multienzyme Mimics Synthesized by Biocatalytic ATRP and Metal Coordination for Bioresponsive Fluorescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11748-11753.	13.8	37
25	Frontispiece: Nanogel Multienzyme Mimics Synthesized by Biocatalytic ATRP and Metal Coordination for Bioresponsive Fluorescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	13.8	0
26	Strength-tunable printing of xanthan gum hydrogel <i>via</i> enzymatic polymerization and amide bioconjugation. <i>Chemical Communications</i> , 2020, 56, 3457-3460.	4.1	10
27	Nanogel Multienzyme Mimics Synthesized by Biocatalytic ATRP and Metal Coordination for Bioresponsive Fluorescence Imaging. <i>Angewandte Chemie</i> , 2020, 132, 11846-11851.	2.0	9
28	Water-mediated crystallohydrate-polymer composite as a phase-change electrolyte. <i>Nature Communications</i> , 2020, 11, 1843.	12.8	22
29	Dual-Enzyme Crosslinking and Post-polymerization for Printing of Polysaccharide-Polymer Hydrogel. <i>Frontiers in Chemistry</i> , 2020, 8, 36.	3.6	12
30	Single-Atom-Thick Active Layers Realized in Nanolaminated $\text{Ti}_3\text{C}_2\text{X}_n/\text{Cu}_2\text{C}_2$ and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , 2019, 13, 9198-9205.	14.6	59
31	Diffusion-determined assembly of all-climate supercapacitors <i>via</i> bioinspired aligned gels. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19753-19760.	10.3	25
32	Hofmeister Effect-Aided Assembly of Enhanced Hydrogel Supercapacitor with Excellent Interfacial Contact and Reliability. <i>Small Methods</i> , 2019, 3, 1900558.	8.6	48
33	Controllable Formation of Ternary Inorganic-Supramolecular-Polymeric Hydrogels by Amidation-Fueled Self-assembly and Enzymatic Post-cross-linking for Ultrasound Theranostic. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5888-5896.	5.2	17
34	One-pot preparation of double network hydrogels <i>via</i> enzyme-mediated polymerization and post-self-assembly for wound healing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6195-6201.	5.8	15
35	Aligned Ionogel Electrolytes for High-Temperature Supercapacitors. <i>Advanced Science</i> , 2019, 6, 1801337.	11.2	48
36	Dissolution-Crystallization Transition within a Polymer Hydrogel for a Processable Ultratough Electrolyte. <i>Advanced Materials</i> , 2019, 31, e1900248.	21.0	88

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37	Supramolecular protein glue to boost enzyme activity. <i>Science China Materials</i> , 2019, 62, 1341-1349.	6.3	8
38	Supercapacitors: Aligned Ionogel Electrolytes for High-Temperature Supercapacitors (<i>Adv. Sci.</i> 5/2019). <i>Advanced Science</i> , 2019, 6, 1970029.	11.2	2
39	“All-in-Gel” design for supercapacitors towards solid-state energy devices with thermal and mechanical compliance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8826-8831.	10.3	41
40	Injectable Peptide Hydrogel Enables Integrated Tandem Enzymes' Superactivity for Cancer Therapy. <i>IScience</i> , 2019, 14, 27-35.	4.1	17
41	One-Step Nanosurface Self-Assembly of <sc>d</sc>-Peptides Renders Bubble-Free Ultrasound Theranostics. <i>Nano Letters</i> , 2019, 19, 2251-2258.	9.1	25
42	Enzymatic crosslinking to fabricate antioxidant peptide-based supramolecular hydrogel for improving cutaneous wound healing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2220-2225.	5.8	58
43	Cascade enzymes within self-assembled hybrid nanogel mimicked neutrophil lysosomes for singlet oxygen elevated cancer therapy. <i>Nature Communications</i> , 2019, 10, 240.	12.8	143
44	Nanoinitiator for enzymatic anaerobic polymerization and graft enhancement of gelatin“PAAM hydrogel. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1402-1409.	5.8	8
45	Oxidoreductase“initiated Radical Polymerizations to Design Hydrogels and Micro/Nanogels: Mechanism, Molding, and Applications. <i>Advanced Materials</i> , 2018, 30, e1705668.	21.0	60
46	A multi-layered touch-pressure sensing ionogel material suitable for sensing integrated actuations of soft robots. <i>Sensors and Actuators A: Physical</i> , 2018, 272, 341-348.	4.1	22
47	Gum Arabic: A promising candidate for the construction of physical hydrogels exhibiting highly stretchable, self-healing and tensility reinforcing performances. <i>Carbohydrate Polymers</i> , 2018, 181, 167-174.	10.2	38
48	Polyampholyte-doped aligned polymer hydrogels as anisotropic electrolytes for ultrahigh-capacity supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 58-64.	10.3	38
49	Extreme Temperature-Tolerant Organohydrogel Electrolytes for Laminated Assembly of Biaxially Stretchable Pseudocapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42959-42966.	8.0	39
50	Humidity-sensitive polymer xerogel actuators prepared by biaxial pre-stretching and drying. <i>Chemical Communications</i> , 2018, 54, 11610-11613.	4.1	22
51	Controllable Growth of Core“Shell Nanogels via Esterase-Induced Self-Assembly of Peptides for Drug Delivery. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 354-361.	1.1	14
52	Touch Locating and Stretch Sensing Studies of Conductive Hydrogels with Applications to Soft Robots. <i>Sensors</i> , 2018, 18, 569.	3.8	19
53	Water“Deactivated Polyelectrolyte Hydrogel Electrolytes for Flexible High“Voltage Supercapacitors. <i>ChemSusChem</i> , 2018, 11, 3410-3415.	6.8	67
54	FEM and experimental studies of flexible pressure sensors with micro-structured dielectric layers. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 105001.	2.6	13

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55	Oxygen-tuned nanozyme polymerization for the preparation of hydrogels with printable and antibacterial properties. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1518-1524.	5.8	34
56	A robust, highly stretchable supramolecular polymer conductive hydrogel with self-healability and thermo-processability. <i>Scientific Reports</i> , 2017, 7, 41566.	3.3	132
57	Development and modeling of a new ionogel based actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2036-2050.	2.5	8
58	Adhesive nanocomposites of hypergravity induced Co_3O_4 nanoparticles and natural gels as Li-ion battery anode materials with high capacitance and low resistance. <i>RSC Advances</i> , 2017, 7, 21061-21067.	3.6	15
59	Dynamic hydrogels produced via monoamine oxidase B-catalyzed deamination and aldimine crosslinking for 3D printing. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5092-5095.	5.8	23
60	serine enzymatic metabolism induced formation of a powder-remoldable PAAM-CS hydrogel. <i>Chemical Communications</i> , 2017, 53, 12270-12273.	4.1	7
61	Efficient VEGF targeting delivery of DOX using Bevacizumab conjugated SiO_2 @LDH for anti-neuroblastoma therapy. <i>Acta Biomaterialia</i> , 2017, 63, 163-180.	8.3	54
62	Tough Ionogel-Mask Hybrid Gel Electrolytes in Supercapacitors with Durable Pressure and Thermal Tolerances. <i>Energy Technology</i> , 2017, 5, 220-224.	3.8	19
63	Hydrogel with Aligned and Tunable Pore Via "Hot Ice" Template Applies as Bioscaffold. <i>Advanced Healthcare Materials</i> , 2016, 5, 648-652.	7.6	21
64	Fe_3O_4 @nanogel via UOx/HRP initiated surface polymerization for pH sensitive drug delivery. <i>RSC Advances</i> , 2016, 6, 53170-53174.	3.6	5
65	Removal of methylene blue with hemicellulose/clay hybrid hydrogels. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016, 34, 709-719.	3.8	52
66	Laccase-mediated formation of mesoporous silica nanoparticle based redox stimuli-responsive hybrid nanogels as a multifunctional nanotheranostic agent. <i>Nanoscale</i> , 2016, 8, 17241-17249.	5.6	42
67	A Tough Nanocomposite Aerogel of Manganese Oxide and Polyaniline as an Electrode for a Supercapacitor. <i>ChemPlusChem</i> , 2016, 81, 40-43.	2.8	18
68	Tough TiO_2 -rGO-PDMAA nanocomposite hydrogel via one-pot UV polymerization and reduction for photodegradation of methylene blue. <i>Carbon</i> , 2016, 108, 394-403.	10.3	42
69	Viscosity-controlled printing of supramolecular-polymeric hydrogels via dual-enzyme catalysis. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6302-6306.	5.8	22
70	Electromechanical bending behavior study of soft photocurable ionogel actuator using a new finite element method. <i>Smart Materials and Structures</i> , 2016, 25, 095018.	3.5	9
71	Selective Adsorption of La^{3+} Using a Tough Alginate-Clay-Poly(<i>N</i> -isopropylacrylamide) Hydrogel with Hierarchical Pores and Reversible Re-Deswelling/Swelling Cycles. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6732-6743.	6.7	66
72	Controllable preparation of an eggshell membrane supported hydrogel electrolyte with thickness-dependent electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17933-17938.	10.3	32

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73	Printable hybrid hydrogel by dual enzymatic polymerization with superactivity. <i>Chemical Science</i> , 2016, 7, 2748-2752.	7.4	102
74	Bioinorganic Nanocomposite Hydrogels Formed by HRPâ€“GOxâ€“Cascadeâ€“Catalyzed Polymerization and Exfoliation of the Layered Composites. <i>Chemistry - A European Journal</i> , 2015, 21, 12620-12626.	3.3	18
75	A polymer/clay nanocomposite gel via chlorinated paraffin solvent initiated photopolymerization with electrorheological performance. <i>RSC Advances</i> , 2015, 5, 7752-7754.	3.6	5
76	Microgels formed by enzyme-mediated polymerization in reverse micelles with tunable activity and high stability. <i>RSC Advances</i> , 2015, 5, 44342-44345.	3.6	8
77	Hydrogel-coated enzyme electrodes formed by GOx-mediated polymerization for glucose detecting. <i>RSC Advances</i> , 2015, 5, 47244-47247.	3.6	8
78	Dual-Enzyme-Loaded Multifunctional Hybrid Nanogel System for Pathological Responsive Ultrasound Imaging and T_2 -Weighted Magnetic Resonance Imaging. <i>ACS Nano</i> , 2015, 9, 5646-5656.	14.6	122
79	Cobalt Oxide-Carbon Nanosheet Nanoarchitecture as an Anode for High-Performance Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2882-2890.	8.0	101
80	Elastic ionogels with freeze-aligned pores exhibit enhanced electrochemical performances as anisotropic electrolytes of all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15408-15412.	10.3	24
81	Iron oxide/manganese oxide co-loaded hybrid nanogels as pH-responsive magnetic resonance contrast agents. <i>Biomaterials</i> , 2015, 53, 349-357.	11.4	76
82	Microgel coating of magnetic nanoparticles via bienzyme-mediated free-radical polymerization for colorimetric detection of glucose. <i>Nanoscale</i> , 2015, 7, 16578-16582.	5.6	45
83	A hybrid gel of hypergravity prepared NiO and polyaniline as Li-ion battery anodes. <i>RSC Advances</i> , 2015, 5, 88419-88424.	3.6	7
84	Functional Elastic Hydrogel as Recyclable Membrane for the Adsorption and Degradation of Methylene Blue. <i>PLoS ONE</i> , 2014, 9, e88802.	2.5	15
85	Selfâ€“Recovering Tough Gel Electrolyte with Adjustable Supercapacitor Performance. <i>Advanced Materials</i> , 2014, 26, 4370-4375.	21.0	172
86	Magnetic Nanocomposite Hydrogel Prepared by ZnO-initiated Photopolymerization for La (III) Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19840-19849.	8.0	78
87	Dual enzymatic formation of hybrid hydrogels with supramolecular-polymeric networks. <i>Chemical Communications</i> , 2014, 50, 14429-14432.	4.1	31
88	Glucose oxidase triggers gelation of N-hydroxyimideâ€“heparin conjugates to form enzyme-responsive hydrogels for cell-specific drug delivery. <i>Chemical Science</i> , 2014, 5, 4204-4209.	7.4	48
89	Fluorinated graphene: facile solution preparation and tailorable properties by fluorine-content tuning. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8782-8789.	10.3	121
90	Nanocomposite Gels via in Situ Photoinitiation and Disassembly of TiO_2 â€“Clay Composites with Polymers Applied as UV Protective Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1356-1360.	8.0	63

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91	Molecular Hydrogel-Stabilized Enzyme with Facilitated Electron Transfer for Determination of H_2O_2 Released from Live Cells. <i>Analytical Chemistry</i> , 2014, 86, 4395-4401.	6.5	80
92	Tough BMIMCl-based ionogels exhibiting excellent and adjustable performance in high-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11569.	10.3	91
93	Tough Nanocomposite Ionogel-based Actuator Exhibits Robust Performance. <i>Scientific Reports</i> , 2014, 4, 6673.	3.3	71
94	High {001} facets dominated BiOBr lamellas: facile hydrolysis preparation and selective visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8622.	10.3	312
95	BSA-rGO nanocomposite hydrogel formed by UV polymerization and in situ reduction applied as biosensor electrode. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5393.	5.8	22
96	HRP-mediated polymerization forms tough nanocomposite hydrogels with high biocatalytic performance. <i>Chemical Communications</i> , 2013, 49, 8033.	4.1	57
97	Thermal responsive microgels as recyclable carriers to immobilize active proteins with enhanced nonaqueous biocatalytic performance. <i>Chemical Communications</i> , 2013, 49, 11299.	4.1	25
98	Adsorption of lanthanum (III) from aqueous solution using 2-ethylhexyl phosphonic acid mono-2-ethylhexyl ester-grafted magnetic silica nanocomposites. <i>Journal of Hazardous Materials</i> , 2013, 260, 409-419.	12.4	117
99	Semiconductor nanoparticle-based hydrogels prepared via self-initiated polymerization under sunlight, even visible light. <i>Scientific Reports</i> , 2013, 3, 1399.	3.3	81
100	Preparation, characterization and adsorptive study of rare earth ions using magnetic GMZ bentonite. <i>Applied Clay Science</i> , 2012, 62-63, 87-93.	5.2	55
101	Selective Removal of La(III) Ions Using Super-Paramagnetic Nanosorbent Coated by Saponified <i>o</i> -Octylphenoxy Acetic Acid. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 553-560.	1.9	19
102	Eu(III) adsorption using di(2-ethylhexyl) phosphoric acid-immobilized magnetic GMZ bentonite. <i>Chemical Engineering Journal</i> , 2012, 181-182, 387-396.	12.7	89
103	High-water-content mouldable hydrogels by mixing clay and a dendritic molecular binder. <i>Nature</i> , 2010, 463, 339-343.	27.8	1,446
104	Small peptide nanofibers as the matrices of molecular hydrogels for mimicking enzymes and enhancing the activity of enzymes. <i>Chemical Society Reviews</i> , 2010, 39, 3425.	38.1	242
105	Bioinspired Supramolecular Confinement of Luminol and Heme Proteins to Enhance the Chemiluminescent Quantum Yield. <i>Chemistry - A European Journal</i> , 2009, 15, 3168-3172.	3.3	27
106	High Catalytic Activities of Artificial Peroxidases Based on Supramolecular Hydrogels That Contain Heme Models. <i>Chemistry - A European Journal</i> , 2008, 14, 5073-5078.	3.3	63
107	Enzymatic hydrogelation to immobilize an enzyme for high activity and stability. <i>Soft Matter</i> , 2008, 4, 550.	2.7	106
108	Bisphosphonate-containing supramolecular hydrogels for topical decorporation of uranium-contaminated wounds in mice. <i>International Journal of Radiation Biology</i> , 2008, 84, 353-362.	1.8	25

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109	Molecular hydrogel-immobilized enzymes exhibit superactivity and high stability in organic solvents. <i>Chemical Communications</i> , 2007, , 1032.	4.1	126
110	Using β -Lactamase to Trigger Supramolecular Hydrogelation. <i>Journal of the American Chemical Society</i> , 2007, 129, 266-267.	13.7	203
111	A Supramolecular-Hydrogel-Encapsulated Hemin as an Artificial Enzyme to Mimic Peroxidase. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4285-4289.	13.8	369
112	Immobilization of hemoglobin at the galleries of layered niobate HCaNbO. <i>Biomaterials</i> , 2005, 26, 5267-5275.	11.4	30
113	Layered Structural Heme Protein Magadiite Nanocomposites with High Enzyme-like Peroxidase Activity. <i>Chemistry of Materials</i> , 2004, 16, 2675-2684.	6.7	64
114	Reversible Intercalation of Large-Capacity Hemoglobin into in Situ Prepared Titanate Interlayers with Enhanced Thermal and Organic Medium Stabilities. <i>Langmuir</i> , 2004, 20, 10231-10237.	3.5	36
115	Enhanced Catalytic Activity of Hemoglobin in Organic Solvents by Layered Titanate Immobilization. <i>Journal of the American Chemical Society</i> , 2004, 126, 14346-14347.	13.7	79