Qiang Chen

List of Publications by Year in Descending Order

102 papers	4,606 citations	34 h-index	66 g-index
107 ext. papers	5,633 ext. citations	7.2 avg, IF	5.82 L-index

#	Paper	IF	Citations
102	Tough, Instant, and Repeatable Adhesion of Self-Healable Elastomers to Diverse Soft and Hard Surfaces.. *Advanced Science*, **2022**, e2105742	13.6	1
101	2D material-based peroxidase-mimicking nanozymes: catalytic mechanisms and bioapplications.. *Analytical and Bioanalytical Chemistry*, **2022**, 414, 2971	4.4	0
100	Tough and redox-mediated alkaline gel polymer electrolyte membrane for flexible supercapacitor with high energy density and low temperature resistance. *Journal of Membrane Science*, **2022**, 650, 120386	9.6	0
99	Design of Vertically Aligned Two-Dimensional Heterostructures of Rigid TiCT MXene and Pliable Vanadium Pentoxide for Efficient Lithium Ion Storage.. *ACS Nano*, **2022**,	16.7	5
98	Preparation of PVA-based composite alkaline solid polymer electrolyte with La2O3 nanoparticle filler. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	0
97	The Jahn-Teller Effect for Amorphization of Molybdenum Trioxide towards High-Performance Fiber Supercapacitor. *Research*, **2021**, 2021, 6742715	7.8	5
96	Ammonium Intercalation Induced Expanded 1T-Rich Molybdenum Diselenides for Improved Lithium Ion Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 17459-17466	9.5	14
95	Non-Alcoholic Fatty Liver Disease and Hypokalemia in Primary Aldosteronism Among Chinese Population. *Frontiers in Endocrinology*, **2021**, 12, 565714	5.7	1
94	Tough, Transparent, and Anti-Freezing Nanocomposite Organohydrogels with Photochromic Properties. *ACS Applied Materials & Interfaces*, **2021**, 13, 31180-31192	9.5	8
93	Designing Tubular Architectures Composed of Hollow N-Doped Carbon Polyhedrons for Improved Supercapacitance. *Advanced Materials Interfaces*, **2021**, 8, 2100805	4.6	3
92	Mesh-like vertical structures enable both high areal capacity and excellent rate capability. *Journal of Energy Chemistry*, **2021**, 53, 226-233	12	10
91	Freezing-tolerant and robust gelatin-based supramolecular conductive hydrogels with double-network structure for wearable sensors. *Polymer Testing*, **2021**, 93, 106879	4.5	11
90	Transforming non-adhesive hydrogels to reversible tough adhesives via mixed-solvent-induced phase separation. *Journal of Materials Chemistry A*, **2021**, 9, 9706-9718	13	19
89	Ultrathin NiMn layered double hydroxide nanosheets with a superior peroxidase mimicking performance to natural HRP for disposable paper-based bioassays. *Journal of Materials Chemistry B*, **2021**, 9, 983-991	7.3	8
88	Tough Interfacial Adhesion of Bilayer Hydrogels with Integrated Shape Memory and Elastic Properties for Controlled Shape Deformation. *ACS Applied Materials & Interfaces*, **2021**, 13, 10457-10466	8.5	8
87	Recent Advances in Molybdenum-Based Materials for Lithium-Sulfur Batteries. *Research*, **2021**, 2021, 5130420	7.8	10
86	Near-infrared responsive shape memory hydrogels with programmable and complex shape-morphing. *Science China Technological Sciences*, **2021**, 64, 1752-1764	3.5	4

85	Strong, tough, anti-freezing, non-drying and sensitive ionic sensor based on fully physical cross-linked double network hydrogel. *Materials Science and Engineering C*, **2021**, 130, 112452	8.3	3
84	A General Protein Unfolding-Chemical Coupling Strategy for Pure Protein Hydrogels with Mechanically Strong and Multifunctional Properties.. *Advanced Science*, **2021**, e2102557	13.6	6
83	Microstructure Design of Carbonaceous Fibers: A Promising Strategy toward High-Performance Weaveable/Wearable Supercapacitors. *Small*, **2020**, 16, e2000653	11	26
82	Mechanistic insight in site-selective and anisotropic etching of prussian blue analogues toward designable complex architectures for efficient energy storage. *Nanoscale*, **2020**, 12, 11112-11118	7.7	12
81	High-Strength Albumin Hydrogels With Hybrid Cross-Linking. *Frontiers in Chemistry*, **2020**, 8, 106	5	5
80	Solution-Processed Sensing Textiles with Adjustable Sensitivity and Linear Detection Range Enabled by Twisting Structure. *ACS Applied Materials & Interfaces*, **2020**, 12, 12155-12164	9.5	15
79	Flexible, Water-Resistant and Air-Stable LiBH Nanoparticles Loaded Melamine Foam With Improved Dehydrogenation. *Frontiers in Chemistry*, **2020**, 8, 45	5	3
78	From design to applications of stimuli-responsive hydrogel strain sensors. *Journal of Materials Chemistry B*, **2020**, 8, 3171-3191	7.3	72
77	Flexible and low temperature resistant semi-IPN network gel polymer electrolyte membrane and its application in supercapacitor. *Journal of Membrane Science*, **2020**, 597, 117740	9.6	22
76	Jahn-Teller distortions boost the ultrahigh areal capacity and cycling robustness of holey NiMn-hydroxide nanosheets for flexible energy storage devices. *Nanoscale*, **2020**, 12, 22075-22081	7.7	11
75	The incorporation of expanded 1T-enriched MoS2 boosts hybrid fiber improved charge storage capability. *Carbon*, **2020**, 170, 543-549	10.4	11
74	Polyaniline-Decorated Supramolecular Hydrogel with Tough, Fatigue-Resistant, and Self-Healable Performances for All-In-One Flexible Supercapacitors. *ACS Applied Materials & Interfaces*, **2020**, 12, 9736-9745	9.5	52
73	Hierarchically tubular architectures composed of vertical carbon nanosheets embedded with oxygen-vacancy enriched hollow Co3O4 nanoparticles for improved energy storage. *Electrochimica Acta*, **2020**, 356, 136843	6.7	10
72	Multifunctional supramolecular gel polymer electrolyte for self-healable and cold-resistant supercapacitor. *Journal of Power Sources*, **2020**, 474, 228602	8.9	21
71	Scalable preparation of high performance fibrous electrodes with bio-inspired compact core-fluffy sheath structure for wearable supercapacitors. *Carbon*, **2020**, 157, 106-112	10.4	31
70	Recent Advances in Design of Flexible Electrodes for Miniaturized Supercapacitors. *Small Methods*, **2020**, 4, 1900824	12.8	34
69	Natural protein-based hydrogels with high strength and rapid self-recovery. *International Journal of Biological Macromolecules*, **2019**, 141, 108-116	7.9	10
68	Identifying the active site of ultrathin NiCo LDH as an efficient peroxidase mimic with superior substrate affinity for sensitive detection of hydrogen peroxide. *Journal of Materials Chemistry B*, **2019**, 7, 6232-6237	7.3	22

67	Tough and conductive nanocomposite hydrogels for human motion monitoring. *Polymer Testing*, **2019**, 75, 38-47	4.5	13
66	Conductive regenerated silk-fibroin-based hydrogels with integrated high mechanical performances. *Journal of Materials Chemistry B*, **2019**, 7, 1708-1715	7.3	44
65	Fabrication and mechanical behaviors of novel supramolecular/polymer hybrid double network hydrogels. *Polymer*, **2019**, 168, 159-167	3.9	27
64	Tough and Conductive Dual Physically Cross-Linked Hydrogels for Wearable Sensors. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17001-17009	3.9	13
63	Chest wall metastasis in postoperative thyroid cancer: a case report. *Journal of International Medical Research*, **2019**, 47, 4039-4042	1.4	
62	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. *Angewandte Chemie*, **2019**, 131, 15854-15858	3.6	21
61	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. *Angewandte Chemie - International Edition*, **2019**, 58, 15707-15711	16.4	122
60	Electrostatically Assembling 2D Nanosheets of MXene and MOF-Derivatives into 3D Hollow Frameworks for Enhanced Lithium Storage. *Small*, **2019**, 15, e1904255	11	73
59	Multiple Physical Cross-Linker Strategy To Achieve Mechanically Tough and Reversible Properties of Double-Network Hydrogels in Bulk and on Surfaces. *ACS Applied Polymer Materials*, **2019**, 1, 701-713	4.3	22
58	Flexible and low temperature resistant double network alkaline gel polymer electrolyte with dual-role KOH for supercapacitor. *Journal of Power Sources*, **2019**, 414, 201-209	8.9	52
57	General Principle for Fabricating Natural Globular Protein-Based Double-Network Hydrogels with Integrated Highly Mechanical Properties and Surface Adhesion on Solid Surfaces. *Chemistry of Materials*, **2019**, 31, 179-189	9.6	68
56	General Strategy To Fabricate Strong and Tough Low-Molecular-Weight Gelator-Based Supramolecular Hydrogels with Double Network Structure. *Chemistry of Materials*, **2018**, 30, 1743-1754	9.6	60
55	Semicrystalline Hydrophobically Associated Hydrogels with Integrated High Performances. *ACS Applied Materials & Interfaces*, **2018**, 10, 2946-2956	9.5	36
54	Effect of Graphite Oxide Dispersion Evaluated with Multifractal on Mechanical Properties and Thermal Stability of Poly(3hydroxybutyrate-co -4hydroxybutyrate)/Graphite Oxide Biocomposites. *Advances in Polymer Technology*, **2018**, 37, 376-383	1.9	1
53	Nanoclay Reinforced Self-Cross-Linking Poly(N-Hydroxyethyl Acrylamide) Hydrogels with Integrated High Performances. *Macromolecular Materials and Engineering*, **2018**, 303, 1800295	3.9	14
52	Preparation and Characterization of PVA Alkaline Solid Polymer Electrolyte with Addition of Bamboo Charcoal. *Materials*, **2018**, 11,	3.5	28
51	Mechanical properties of gelatin/polyacrylamide/graphene oxide nanocomposite double-network hydrogels. *Composites Science and Technology*, **2018**, 163, 81-88	8.6	51
50	Double network hydrogels with controlled shape deformation: A mini review. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 1351-1362	2.6	17

49	Controlled shape deformation of bilayer films with tough adhesion between nanocomposite hydrogels and polymer substrates. *Journal of Materials Chemistry B*, **2018**, 6, 6629-6636	7.3	18
48	Fully physical double network hydrogels with high strength, rapid self-recovery and self-healing performances. *Polymer Testing*, **2018**, 69, 167-174	4.5	17
47	Hydrogels: A Novel Design of Multi-Mechanoresponsive and Mechanically Strong Hydrogels (Adv. Mater. 21/2017). *Advanced Materials*, **2017**, 29,	24	2
46	A Novel Design of Multi-Mechanoresponsive and Mechanically Strong Hydrogels. *Advanced Materials*, **2017**, 29, 1606900	24	156
45	Super Bulk and Interfacial Toughness of Physically Crosslinked Double-Network Hydrogels. *Advanced Functional Materials*, **2017**, 27, 1703086	15.6	126
44	Tough, Stretchable, Compressive Novel Polymer/Graphene Oxide Nanocomposite Hydrogels with Excellent Self-Healing Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 38052-38061	9.5	122
43	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. *Polymer Chemistry*, **2017**, 8, 4659-4672	4.9	38
42	High strength and self-healable gelatin/polyacrylamide double network hydrogels. *Journal of Materials Chemistry B*, **2017**, 5, 7683-7691	7.3	105
41	Effectiveness and Complications of Improved Liposuction-Curettage Through Mini-Incisions for the Treatment of Axillary Osmidrosis. *Plastic Surgery*, **2017**, 25, 234-241	0.8	5
40	Clinical analysis of hyperkalemia after esophagectomy: A case report. *Medicine (United States)*, **2017**, 96, e8966	1.8	
39	A comparative study of the mechanical properties of hybrid double-network hydrogels in swollen and as-prepared states. *Journal of Materials Chemistry B*, **2016**, 4, 5814-5824	7.3	44
38	Hybrid nanocomposite hydrogels with high strength and excellent self-recovery performance. *RSC Advances*, **2016**, 6, 59131-59140	3.7	13
37	Fibroma of tendon sheath in planta. *SpringerPlus*, **2016**, 5, 575		6
36	Molecular Understanding and Structural-Based Design of Polyacrylamides and Polyacrylates as Antifouling Materials. *Langmuir*, **2016**, 32, 3315-30	4	74
35	Engineering of Tough Double Network Hydrogels. *Macromolecular Chemistry and Physics*, **2016**, 217, 1022-1036	2.6	95
34	A rare atypical rapidly involuting congenital hemangioma combined with vascular malformation in the upper limb. *World Journal of Surgical Oncology*, **2016**, 14, 229	3.4	1
33	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. *Acta Biomaterialia*, **2016**, 40, 62-69	10.8	64
32	Improvement of Mechanical Strength and Fatigue Resistance of Double Network Hydrogels by Ionic Coordination Interactions. *Chemistry of Materials*, **2016**, 28, 5710-5720	9.6	176

31	Mechanically strong hybrid double network hydrogels with antifouling properties. *Journal of Materials Chemistry B*, **2015**, 3, 5426-5435	7.3	66
30	Fundamentals of double network hydrogels. *Journal of Materials Chemistry B*, **2015**, 3, 3654-3676	7.3	329
29	Simultaneous Enhancement of Stiffness and Toughness in Hybrid Double-Network Hydrogels via the First, Physically Linked Network. *Macromolecules*, **2015**, 48, 8003-8010	5.5	100
28	Chitosan prevents adhesion during rabbit flexor tendon repair via the sirtuin 1 signaling pathway. *Molecular Medicine Reports*, **2015**, 12, 4598-4603	2.9	7
27	Artificial finger joint replacement due to a giant cell tumor of the tendon sheath with bone destruction: A case report. *Oncology Letters*, **2015**, 10, 3502-3504	2.6	9
26	Inflammatory myofibroblastic tumor of the hand: A case report. *Oncology Letters*, **2015**, 9, 2548-2550	2.6	2
25	A Novel Design Strategy for Fully Physically Linked Double Network Hydrogels with Tough, Fatigue Resistant, and Self-Healing Properties. *Advanced Functional Materials*, **2015**, 25, 1598-1607	15.6	411
24	Three different methods for treating multiple enchondromatosis in one hand. *International Journal of Clinical and Experimental Medicine*, **2015**, 8, 13417-20		2
23	Hamartoma compress medial and radial nerve in neurofibromatosis type 1. *International Journal of Clinical and Experimental Medicine*, **2015**, 8, 15313-6		6
22	Pigmented villonodular synovitis of the elbow with rdial, median and ulnar nerve compression. *International Journal of Clinical and Experimental Pathology*, **2015**, 8, 14045-9	1.4	7
21	Synthesis and characterization of antifouling poly(N-acryloylaminoethoxyethanol) with ultralow protein adsorption and cell attachment. *Langmuir*, **2014**, 30, 10398-409	4	56
20	Fracture of the Physically Cross-Linked First Network in Hybrid Double Network Hydrogels. *Macromolecules*, **2014**, 47, 2140-2148	5.5	108
19	Chitosan inhibits fibroblasts growth in Achilles tendon via TGF-β1/Smad3 pathway by miR-29b. *International Journal of Clinical and Experimental Pathology*, **2014**, 7, 8462-70	1.4	23
18	Probing structure-antifouling activity relationships of polyacrylamides and polyacrylates. *Biomaterials*, **2013**, 34, 4714-24	15.6	67
17	A robust, one-pot synthesis of highly mechanical and recoverable double network hydrogels using thermoreversible sol-gel polysaccharide. *Advanced Materials*, **2013**, 25, 4171-6	24	485
16	Synthesis and characterization of pH-sensitive poly(N-2-hydroxyethyl acrylamide)-acrylic acid (poly(HEAA/AA)) nanogels with antifouling protection for controlled release. *Soft Matter*, **2012**, 8, 7848	3.6	68
15	A novel multi-responsive polyampholyte composite hydrogel with excellent mechanical strength and rapid shrinking rate. *Journal of Colloid and Interface Science*, **2010**, 345, 360-8	9.3	53
14	Preparation and characterization of nanostructured and high transparent hydrogel films with pH sensitivity and application. *Journal of Applied Polymer Science*, **2009**, 112, 2261-2269	2.9	2

13	Preparation of polyacrylamide aqueous dispersions using poly(sodium acrylic acid) as stabilizer. *Journal of Applied Polymer Science*, **2009**, 113, 2693-2701	2.9	14
12	Preparation and characterization of poly (N-isopropylacrylamide)/polyvinylamine core-shell microgels. *Colloid and Polymer Science*, **2009**, 287, 1339-1346	2.4	12
11	Low Cationic Proportion Ampholytic Polymer: Synthesis, Solution Properties and Interaction with Anionic Surfactant. *Polymer Bulletin*, **2008**, 60, 545-554	2.4	4
10	Synthesis and aqueous solution properties of hydrophobically modified anionic acrylamide copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 2465-2474	2.6	34
9	Preparation and characterization of interpenetration polymer network films based on poly(vinyl alcohol) and poly(acrylic acid) for drug delivery. *Journal of Applied Polymer Science*, **2008**, 108, 3836-3842	2.9	19
8	Phase behavior and self-assembly of poly[N-vinylformamide-co-(acrylic acid)] copolymers under highly acidic conditions. *Journal of Applied Polymer Science*, **2008**, 109, 2802-2807	2.9	1
7	Spontaneous volume transition of polyampholyte nanocomposite hydrogels based on pure electrostatic interaction. *Journal of Colloid and Interface Science*, **2008**, 321, 272-8	9.3	31
6	Effect of acetylation on the properties of corn starch. *Food Chemistry*, **2008**, 106, 923-928	8.5	251
5	Polyampholytes superabsorbent nanocomposites with excellent gel strength. *Composites Science and Technology*, **2007**, 67, 3480-3486	8.6	34
4	Study on the synthesis and performance of hydrogels with ionic monomers and montmorillonite. *Applied Clay Science*, **2007**, 38, 139-145	5.2	45
3	A Temperature-Responsive Copolymer Hydrogel in Controlled Drug Delivery. *Macromolecules*, **2006** , 39, 6584-6589	5.5	153
2	Recent Progress in Double Network Elastomers: One Plus One is Greater Than Two. *Advanced Functional Materials*,2110244	15.6	5
1	Wet-Chemistry: A Useful Tool for Deriving Metal□Organic Frameworks toward Supercapacitors and Secondary Batteries. *Advanced Materials Interfaces*,2102595	4.6	1