Sijun Liu

List of Publications by Year
in descending order

34 papers	1,793 citations	394421 19 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	2518 citing authors

#	Article	IF	Citations
1	Physically cross-linked gellan gum/hydrophobically associated polyacrylamide double network hydrogel for cartilage repair. European Polymer Journal, 2022, 167, 111074.	5.4	16
2	Molecular Dynamics of Azobenzene Polymer with Photoreversible Glass Transition. Macromolecules, 2022, 55, 3711-3722.	4.8	13
3	A Flexible, Transparent, Ultralow Detection Limit Capacitive Pressure Sensor. Advanced Materials Interfaces, 2022, 9, .	3.7	13
4	Functionalized Graphene Oxideâ€Reinforced Chitosan Hydrogel as Biomimetic Dressing for Wound Healing. Macromolecular Bioscience, 2021, 21, e2000432.	4.1	21
5	In Situ Formation of 3D Conductive and Cellâ€Laden Graphene Hydrogel for Electrically Regulating Cellular Behavior. Macromolecular Bioscience, 2021, 21, e2000374.	4.1	6
6	Symmetry breakdown in the sol-gel transition of a Guar gum transient physical network. Carbohydrate Polymers, 2021, 258, 117689.	10.2	5
7	A biomimetic skin-like sensor with multiple sensory capabilities based on hybrid ionogel. Sensors and Actuators A: Physical, 2021, 330, 112855.	4.1	8
8	Hydrogels and hydrogel composites for 3D and 4D printing applications. , 2020, , 427-465.		12
9	Simultaneously improved strength and toughness in Îº-carrageenan/polyacrylamide double network hydrogel via synergistic interaction. Carbohydrate Polymers, 2020, 230, 115596.	10.2	27
10	Bioinspired Anisotropic Chitosan Hybrid Hydrogel. ACS Applied Bio Materials, 2020, 3, 6959-6966.	4.6	19
11	Selfâ€Contained Focusâ€Tunable Lenses Based on Transparent and Conductive Gels. Macromolecular Materials and Engineering, 2020, 305, 2000393.	3.6	6
12	Highly Stretchable and Self-Healing Strain Sensor Based on Gellan Gum Hybrid Hydrogel for Human Motion Monitoring. ACS Applied Polymer Materials, 2020, 2, 1325-1334.	4.4	47
13	Unique gelation of chitosan in an alkali/urea aqueous solution. Polymer, 2018, 141, 124-131.	3.8	18
14	Three-Dimensional Bioprinting of Oppositely Charged Hydrogels with Super Strong Interface Bonding. ACS Applied Materials & Interfaces, 2018, 10, 11164-11174.	8.0	82
15	Enhanced stability and mechanical strength of sodium alginate composite films. Carbohydrate Polymers, 2017, 160, 62-70.	10.2	124
16	Effect of functionalized graphene oxide on gelation and scaling law of alginate in aqueous solution. European Polymer Journal, 2017, 95, 462-473.	5.4	9
17	A 3D Printable and Mechanically Robust Hydrogel Based on Alginate and Graphene Oxide. ACS Applied Materials & Interfaces, 2017, 9, 41473-41481.	8.0	103
18	Ultrastretchable and Self-Healing Double-Network Hydrogel for 3D Printing and Strain Sensor. ACS Applied Materials & Interfaces, 2017, 9, 26429-26437.	8.0	374

#	Article	IF	Citations
19	Thermoreversible gelation and viscoelasticity of Îº-carrageenan hydrogels. Journal of Rheology, 2016, 60, 203-214.	2.6	53
20	Thermoreversible gelation and scaling laws for graphene oxide-filled Îº-carrageenan hydrogels. European Polymer Journal, 2016, 79, 150-162.	5.4	29
21	Thermoreversible gelation and scaling behavior of Ca2+-induced Îº-carrageenan hydrogels. Food Hydrocolloids, 2016, 61, 793-800.	10.7	72
22	Recoverable and Self-Healing Double Network Hydrogel Based on Îº-Carrageenan. ACS Applied Materials & Interfaces, 2016, 8, 29749-29758.	8.0	143
23	Scaling law and microstructure of alginate hydrogel. Carbohydrate Polymers, 2016, 135, 101-109.	10.2	54
24	Rheological study on 3D printability of alginate hydrogel and effect of graphene oxide. International Journal of Bioprinting, 2016, 2, .	3.4	165
25	Multiple Phase Transition and Scaling Law for Poly(ethylene oxide)â€“Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 Interfaces, 2015, 7, 2688-2697.	8.0	36
26	Rheological Properties and Scaling Laws of Îº-Carrageenan in Aqueous Solution. Macromolecules, 2015, 48, 7649-7657.	4.8	87
27	Role of PPOâ€“PEOâ€“PPO triblock copolymers in phase transitions of a PEOâ€“PPOâ€“PEO triblock copolymer in aqueous solution. European Polymer Journal, 2015, 71, 423-439.	5.4	21
28	Molecular interactions between PEOâ€“PPOâ€“PEO and PPOâ€“PEOâ€“PPO triblock copolymers in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 485-497.	4.7	18
29	Crystallization and microporous membrane properties of ultrahigh molecular weight polyethylene with dibenzylidene sorbitol. Journal of Applied Polymer Science, 2014, 131, .	2.6	7
30	Tuning the water permeability of ultra-high molecular weight polyethylene microporous membrane by molecular self-assembly and flow field. Polymer, 2014, 55, 2113-2124.	3.8	17
31	Synthesis of hierarchically structured ZnO nanomaterials via a supercritical assisted solvothermal process. Chemical Communications, 2014, 50, 930-932.	4.1	23
32	Molecular Self-Assembly Assisted Liquidâ€“Liquid Phase Separation in Ultrahigh Molecular Weight Polyethylene/Liquid Paraffin/Dibenzylidene Sorbitol Ternary Blends. Macromolecules, 2013, 46, 6309-6318.	4.8	18
33	Solvents effects in the formation and viscoelasticity of DBS organogels. Soft Matter, 2013, 9, 864-874.	2.7	64
34	Phase separation and structure control in ultra-high molecular weight polyethylene microporous membrane. Journal of Membrane Science, 2011, 379, 268-278.	8.2	83