

Tao Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3542820/publications.pdf>

Version: 2024-02-01

48
papers

2,482
citations

236833

25
h-index

206029

48
g-index

50
all docs

50
docs citations

50
times ranked

3312
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogel sheets of chitosan, honey and gelatin as burn wound dressings. <i>Carbohydrate Polymers</i> , 2012, 88, 75-83.	5.1	271
2	Dual Physically Cross-Linked Hydrogels with High Stretchability, Toughness, and Good Self-Recoverability. <i>Macromolecules</i> , 2016, 49, 5660-5668.	2.2	191
3	Programmable and Bidirectional Bending of Soft Actuators Based on Janus Structure with Sticky Tough PAA-Clay Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11866-11873.	4.0	150
4	Polyampholyte Hydrogels with pH Modulated Shape Memory and Spontaneous Actuation. <i>Advanced Functional Materials</i> , 2018, 28, 1707245.	7.8	144
5	Infrared-driving actuation based on bilayer graphene oxide-poly(N-isopropylacrylamide) nanocomposite hydrogels. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15633.	5.2	139
6	NIR-Triggered Rapid Shape Memory PAM-GO-Gelatin Hydrogels with High Mechanical Strength. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12384-12392.	4.0	130
7	Fast Self-Healing of Graphene Oxide-Hectorite Clay-Poly(<i>N,N</i> -dimethylacrylamide) Hybrid Hydrogels Realized by Near-Infrared Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22855-22861.	4.0	97
8	Large deformation behavior and effective network chain density of swollen poly(N-isopropylacrylamide)-Laponite nanocomposite hydrogels. <i>Soft Matter</i> , 2012, 8, 774-783.	1.2	92
9	Robust and thermo-response graphene-PNIPAm hybrid hydrogels reinforced by hectorite clay. <i>Carbon</i> , 2013, 62, 117-126.	5.4	88
10	Bioinspired Smart Actuator Based on Graphene Oxide-Polymer Hybrid Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23423-23430.	4.0	87
11	Low Chemically Cross-Linked PAM/C-Dot Hydrogel with Robustness and Superstretchability in Both As-Prepared and Swelling Equilibrium States. <i>Macromolecules</i> , 2016, 49, 3174-3183.	2.2	87
12	Notch insensitive and self-healing PNIPAm-PAM-clay nanocomposite hydrogels. <i>Soft Matter</i> , 2014, 10, 3506.	1.2	68
13	Ultrafast and Programmable Shape Memory Hydrogel of Gelatin Soaked in Tannic Acid Solution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46701-46709.	4.0	64
14	Synthesis and dual response of ionic nanocomposite hydrogels with ultrahigh tensibility and transparency. <i>Polymer</i> , 2009, 50, 1933-1938.	1.8	62
15	Multiple Shape Memory, Self-Healable, and Supertough PAA-GO-Fe ³⁺ Hydrogel. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600359.	1.7	62
16	Self-healable tough supramolecular hydrogels crosslinked by poly-cyclodextrin through host-guest interaction. <i>Carbohydrate Polymers</i> , 2018, 193, 54-61.	5.1	59
17	High tensibility and pH-responsive swelling of nanocomposite hydrogels containing the positively chargeable 2-(dimethylamino)ethyl methacrylate monomer. <i>Reactive and Functional Polymers</i> , 2010, 70, 267-271.	2.0	57
18	Rapid cell sheet detachment from alginate semi-interpenetrating nanocomposite hydrogels of PNIPAm and hectorite clay. <i>Reactive and Functional Polymers</i> , 2011, 71, 447-454.	2.0	52

#	ARTICLE	IF	CITATIONS
19	Fast deswelling and highly extensible poly(N-isopropylacrylamide)-hectorite clay nanocomposite cryogels prepared by freezing polymerization. <i>Polymer</i> , 2013, 54, 1846-1852.	1.8	50
20	Super strong dopamine hydrogels with shape memory and bioinspired actuating behaviours modulated by solvent exchange. <i>Soft Matter</i> , 2018, 14, 2500-2507.	1.2	48
21	Self-Reinforcement of PNIPAm/Laponite Nanocomposite Gels Investigated by Atom Force Microscopy Nanoindentation. <i>Macromolecules</i> , 2012, 45, 7220-7227.	2.2	45
22	Large amplitude oscillatory shear rheology for nonlinear viscoelasticity in hectorite suspensions containing poly(ethylene glycol). <i>Polymer</i> , 2011, 52, 1402-1409.	1.8	43
23	Elastin-Based Thermoresponsive Shape-Memory Hydrogels. <i>Biomacromolecules</i> , 2020, 21, 1149-1156.	2.6	37
24	Effect of adsorbed poly(ethylene glycol) on the gelation evolution of Laponite suspensions: Aging time-polymer concentration superposition. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 76-82.	5.0	30
25	Unique Self-Reinforcing and Rapid Self-Healing Polyampholyte Hydrogels with a pH-Induced Shape Memory Effect. <i>Macromolecules</i> , 2021, 54, 5218-5228.	2.2	30
26	Preferential Adsorption of Poly(ethylene glycol) on Hectorite Clay and Effects on Poly(N-isopropylacrylamide)/Hectorite Nanocomposite Hydrogels. <i>Langmuir</i> , 2010, 26, 4233-4238.	1.6	29
27	pH Responsive Strong Polyion Complex Shape Memory Hydrogel with Spontaneous Shape Changing and Information Encryption. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000747.	2.0	26
28	Accelerated cell sheet detachment by copolymerizing hydrophilic PEG side chains into PNIPAm nanocomposite hydrogels. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 055008.	1.7	24
29	Linear and nonlinear viscoelasticity of water-in-oil emulsions: Effect of droplet elasticity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 434, 220-228.	2.3	24
30	Promoted cell proliferation and mechanical relaxation of nanocomposite hydrogels prepared in cell culture medium. <i>Reactive and Functional Polymers</i> , 2013, 73, 683-689.	2.0	20
31	Cell proliferation and cell sheet detachment from the positively and negatively charged nanocomposite hydrogels. <i>Biopolymers</i> , 2014, 101, 58-65.	1.2	20
32	Ultra-Strong and Fast Response Gel by Solvent Exchange and Its Shape Memory Applications. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2703-2712.	2.0	20
33	Rapid shape memory and pH-modulated spontaneous actuation of dopamine containing hydrogels. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1297-1306.	2.0	19
34	Highly efficient and synergetic antibacterial nanocomposite hydrogel with quaternized chitosan/Ag nanoparticles prepared by one-pot UV photochemical synthesis. <i>Biopolymers</i> , 2020, 111, e23354.	1.2	19
35	Binding Interaction and Gelation in Aqueous Mixtures of Poly(N-isopropylacrylamide) and Hectorite Clay. <i>Journal of Physical Chemistry B</i> , 2015, 119, 612-619.	1.2	11
36	A facile method for reinforcing poly(N-isopropylacrylamide)-hectorite clay nanocomposite hydrogels by heat treatment. <i>Polymer Composites</i> , 2016, 37, 1557-1563.	2.3	11

#	ARTICLE	IF	CITATIONS
37	Effect of Salt Concentration on the Motion of Particles near the Substrate in Drying Sessile Colloidal Droplets. <i>Langmuir</i> , 2017, 33, 685-695.	1.6	11
38	Colloidal probe dynamics in gelatin solution during the sol-gel transition. <i>Soft Matter</i> , 2018, 14, 3694-3703.	1.2	11
39	Ultrahigh Tensibility and Stimuli-Response of Polymer-Hectorite Nanocomposite Hydrogels. <i>Macromolecular Symposia</i> , 2011, 306-307, 49-58.	0.4	9
40	The jamming and unjamming transition in poly(N-isopropylacrylamide) microgel suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 912-921.	2.3	8
41	Adsorption of fluorophores and N-isopropylacrylamide on Laponite. <i>Applied Clay Science</i> , 2012, 58, 102-107.	2.6	7
42	Scaling of the dynamic response of hectorite clay suspensions containing poly(ethylene glycol) along the universal route of aging. <i>Soft Matter</i> , 2013, 9, 6263.	1.2	7
43	Thermo-Moldable Nanocomposite Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 57-63.	1.7	7
44	Infrared radiation triggered detachable bio-adhesive hybrid hydrogels. <i>Journal of Controlled Release</i> , 2015, 213, e102-e103.	4.8	4
45	Combinational Hydrogel and Xerogel Actuators Showing NIR Manipulating Complex Actions. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900270.	2.0	4
46	Rheological inversion of the universal aging dynamics of hectorite clay suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 300-306.	2.3	3
47	Dynamical heterogeneity in the gelation process of a polymer solution with a lower critical solution temperature. <i>Soft Matter</i> , 2021, 17, 3222-3233.	1.2	2
48	Phase separation of chemically crosslinked poly(n-butyl methacrylate-co-methacrylic acid) in mixtures of N,N-dimethyl formamide and water. <i>Polymer</i> , 2022, , 125009.	1.8	0