Yongjun Zhang

List of Publications by Year in descending order

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137	6,210	57631	76769
papers	citations	44 h-index	74 g-index

142	142	142	6867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PNIPAM microgels for biomedical applications: from dispersed particles to 3D assemblies. Soft Matter, 2011, 7, 6375.	1.2	399
2	Boronic acid-containing hydrogels: synthesis and their applications. Chemical Society Reviews, 2013, 42, 8106.	18.7	368
3	Synthesis and Volume Phase Transitions of Glucose-Sensitive Microgels. Biomacromolecules, 2006, 7, 3196-3201.	2.6	230
4	Rapid Stress Relaxation and Moderate Temperature of Malleability Enabled by the Synergy of Disulfide Metathesis and Carboxylate Transesterification in Epoxy Vitrimers. ACS Macro Letters, 2019, 8, 255-260.	2.3	230
5	Facile Creation of a Bionic Super-Hydrophobic Block Copolymer Surface. Advanced Materials, 2004, 16, 1830-1833.	11.1	183
6	Fabrication of Hollow Capsules Based on Hydrogen Bonding. Advanced Materials, 2003, 15, 832-835.	11.1	142
7	Polymerized Microgel Colloidal Crystals: Photonic Hydrogels with Tunable Band Gaps and Fast Response Rates. Angewandte Chemie - International Edition, 2013, 52, 9961-9965.	7.2	142
8	Enzymatically crosslinked alginate hydrogels with improved adhesion properties. Polymer Chemistry, 2015, 6, 2204-2213.	1.9	132
9	In Situ Gelation of P(NIPAM-HEMA) Microgel Dispersion and Its Applications as Injectable 3D Cell Scaffold. Biomacromolecules, 2009, 10, 1410-1415.	2.6	123
10	Inverted-Colloidal-Crystal Hydrogel Matrices as Three-Dimensional Cell Scaffolds. Advanced Functional Materials, 2005, 15, 725-731.	7.8	117
11	Thermogelable PNIPAM microgel dispersion as 3D cell scaffold: effect of syneresis. Journal of Materials Chemistry, 2010, 20, 5937.	6.7	114
12	Fabrication of Stable Hollow Capsules by Covalent Layer-by-Layer Self-Assembly. Macromolecules, 2003, 36, 4238-4240.	2.2	105
13	Polymer composite hydrogels containing carbon nanomaterialsâ€"Morphology and mechanical and functional performance. Progress in Polymer Science, 2018, 77, 1-18.	11.8	101
14	Self-assembled nanospheres as a novel delivery system for taxol: a molecular hydrogel with nanosphere morphology. Chemical Communications, 2011, 47, 4439.	2.2	98
15	Permeability Control of Glucose-Sensitive Nanoshells. Biomacromolecules, 2007, 8, 3842-3847.	2.6	97
16	Ultrathin Hydrogel Films for Rapid Optical Biosensing. Biomacromolecules, 2012, 13, 92-97.	2.6	94
17	Layer-by-layer multilayer films linked with reversible boronate ester bonds with glucose-sensitivity under physiological conditions. Soft Matter, 2009, 5, 2302.	1.2	90
18	Kinetics of Glucose-Induced Swelling of P(NIPAM-AAPBA) Microgels. Macromolecules, 2011, 44, 4479-4486.	2.2	90

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19	New polymerized crystalline colloidal array for glucose sensing. Chemical Communications, 2009, , 1867.	2.2	89
20	Evaporation of Sessile Water Droplets on Superhydrophobic Natural Lotus and Biomimetic Polymer Surfaces. ChemPhysChem, 2006, 7, 2067-2070.	1.0	88
21	A Novel Ultraâ€hydrophobic Surface: Statically Nonâ€wetting but Dynamically Nonâ€sliding. Advanced Functional Materials, 2007, 17, 2739-2745.	7.8	88
22	Single Component Chitosan Hydrogel Microcapsule from a Layer-by-Layer Approach. Biomacromolecules, 2005, 6, 2365-2369.	2.6	85
23	Antibacterial cellulose membrane via one-step covalent immobilization of ammonium/amine groups. Desalination, 2015, 359, 156-166.	4.0	83
24	Covalent Cross-Linked Polymer/Single-Wall Carbon Nanotube Multilayer Films. Chemistry of Materials, 2005, 17, 2131-2135.	3.2	71
25	Release of Polyphenolic Drugs from Dynamically Bonded Layer-by-Layer Films. ACS Applied Materials & Interfaces, 2013, 5, 3541-3548.	4.0	71
26	Fabryâ"Perot Fringes and Their Application To Study the Film Growth, Chain Rearrangement, and Erosion of Hydrogen-Bonded PVPON/PAA Films. Journal of Physical Chemistry B, 2006, 110, 13484-13490.	1.2	68
27	Drug release kinetics from monolayer films of glucose-sensitive microgel. Polymer, 2010, 51, 2668-2675.	1.8	65
28	Thermoreversible Hydrogel for In Situ Generation and Release of HepG2 Spheroids. Biomacromolecules, 2011, 12, 578-584.	2.6	64
29	Contraction-type glucose-sensitive microgel functionalized with a 2-substituted phenylboronic acid ligand. Polymer Chemistry, 2014, 5, 1782-1790.	1.9	63
30	Supramolecular hydrogels inspired by collagen for tissue engineering. Organic and Biomolecular Chemistry, 2010, 8, 3267.	1.5	62
31	Synthesis of glucose-sensitive self-assembled films and their application in controlled drug delivery. Polymer, 2009, 50, 4205-4211.	1.8	61
32	Hydrogel Thin Film with Swelling-Induced Wrinkling Patterns for High-Throughput Generation of Multicellular Spheroids. Biomacromolecules, 2014, 15, 3306-3312.	2.6	61
33	Dynamically bonded layer-by-layer films for self-regulated insulin release. Journal of Materials Chemistry, 2012, 22, 16299.	6.7	60
34	The influence of pH on a hydrogen-bonded assembly film. Soft Matter, 2007, 3, 463-469.	1.2	59
35	Zero-order release of polyphenolic drugs from dynamic, hydrogen-bonded LBL films. Soft Matter, 2016, 12, 1085-1092.	1.2	55
36	Photonic Crystals with a Reversibly Inducible and Erasable Defect State Using External Stimuli. Angewandte Chemie - International Edition, 2015, 54, 9257-9261.	7.2	54

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37	Galactosylated reversible hydrogels as scaffold for HepG2 spheroid generation. Acta Biomaterialia, 2014, 10, 1965-1974.	4.1	52
38	Stability of hydrogen-bonded hydroxypropylcellulose/poly(acrylic acid) microcapsules in aqueous solutions. Soft Matter, 2009, 5, 842.	1.2	51
39	Highly tough, stretchable and resilient hydrogels strengthened with molecular springs and their application as a wearable, flexible sensor. Chemical Engineering Journal, 2021, 415, 128839.	6.6	50
40	Stable Self-Assembled Multilayer Films of Diazo Resin and Poly(maleic anhydride-co-styrene) Based on Charge-Transfer Interaction. Langmuir, 2001, 17, 5021-5024.	1.6	48
41	Porous and Nonporous Nanocapsules by H-Bonding Self-Assembly. Macromolecules, 2004, 37, 10059-10062.	2.2	48
42	Composite Thin Film by Hydrogen-Bonding Assembly of Polymer Brush and Poly(vinylpyrrolidone). Langmuir, 2006, 22, 338-343.	1.6	46
43	Multiple responsive hydrogel films based on dynamic Schiff base linkages. Polymer Chemistry, 2014, 5, 7081-7089.	1.9	46
44	A Drug Carrier for Sustained Zero-Order Release of Peptide Therapeutics. Scientific Reports, 2017, 7, 5524.	1.6	45
45	Orderâ€“Disorder Transition in Doped Microgel Colloidal Crystals and Its Application for Optical Sensing. ACS Applied Materials & Interfaces, 2018, 10, 14254-14258.	4.0	44
46	Novel Redox Hydrogel by in Situ Gelation of Chitosan as a Result of Template Oxidative Polymerization of Hydroquinone. Macromolecules, 2011, 44, 2245-2252.	2.2	43
47	Tough, Resilient, Adhesive, and Anti-Freezing Hydrogels Cross-Linked with a Macromolecular Cross-Linker for Wearable Strain Sensors. ACS Applied Materials & Interfaces, 2021, 13, 42052-42062.	4.0	43
48	Water uptake behavior of hydrogen-bonded PVPONâ€“PAA LBL film. Soft Matter, 2006, 2, 699-704.	1.2	42
49	Salt-induced erosion of hydrogen-bonded layer-by-layer assembled films. Soft Matter, 2009, 5, 860-867.	1.2	40
50	Thermally Induced Phase Transition of Glucose-Sensitive Coreâ^'Shell Microgels. ACS Applied Materials & Interfaces, 2010, 2, 760-767.	4.0	40
51	Gelation Kinetics of Thermosensitive PNIPAM Microgel Dispersions. Macromolecular Chemistry and Physics, 2011, 212, 2052-2060.	1.1	40
52	Leadâ€sensitive PNIPAM microgels modified with crown ether groups. Journal of Polymer Science Part A, 2010, 48, 4120-4127.	2.5	38
53	Glucose oxidase-incorporated hydrogel thin film for fast optical glucose detecting under physiological conditions. Materials Today Chemistry, 2016, 1-2, 7-14.	1.7	35
54	Investigation and intervention of autophagy to guide cancer treatment with nanogels. Nanoscale, 2017, 9, 150-163.	2.8	35

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55	Assembling of gold nanorods on P(NIPAMâ€“AAPBA) microgels: a large shift in the plasmon band and colorimetric glucose sensing. RSC Advances, 2012, 2, 4768.	1.7	34
56	Dynamic Layer-by-Layer Films: A Platform for Zero-Order Release. Biomacromolecules, 2015, 16, 2032-2039.	2.6	34
57	Thermal gelation of chitosan in an aqueous alkaliâ€“urea solution. Soft Matter, 2014, 10, 8245-8253.	1.2	33
58	One-step synthesis of PHEMA hydrogel films capable of generating highly ordered wrinkling patterns. Polymer, 2017, 110, 114-123.	1.8	32
59	Mechanically strong and on-demand dissoluble chitosan hydrogels for wound dressing applications. Carbohydrate Polymers, 2022, 294, 119774.	5.1	32
60	Self-assembly of small molecules: An approach combining electrostatic self-assembly technology with hostâ€“guest chemistry. New Journal of Chemistry, 2001, 25, 483-486.	1.4	31
61	Silver-loading in uncrosslinked hydrogen-bonded LBL films: structure change and improved stability. Journal of Materials Chemistry, 2011, 21, 548-555.	6.7	31
62	Fractal Structures of the Hydrogels Formed in Situ from Poly(N-isopropylacrylamide) Microgel Dispersions. Langmuir, 2012, 28, 10873-10880.	1.6	30
63	Synthesis of a Colloidal Molecule from Soft Microgel Spheres. ACS Macro Letters, 2016, 5, 565-568.	2.3	30
64	â€œBitter-Sweetâ€•Polymeric Micelles Formed by Block Copolymers from Glucosamine and Cholic Acid. Biomacromolecules, 2017, 18, 778-786.	2.6	30
65	Swelling-induced surface instability of a hydrogen-bonded LBL film and its self-healing. Polymer, 2014, 55, 2197-2204.	1.8	29
66	Fabryâ€“PÃ©rot fringes of hydrogen-bonded assembly films. Thin Solid Films, 2008, 516, 4018-4024.	0.8	27
67	Mutual interaction between embedded microgel particles and the surrounding hydrogel matrix. Soft Matter, 2013, 9, 2629.	1.2	27
68	Zero-Order Release of Gossypol Improves Its Antifertility Effect and Reduces Its Side Effects Simultaneously. Biomacromolecules, 2018, 19, 1918-1925.	2.6	27
69	Tetrahedral, Octahedral, and Triangular Dipyramidal Microgel Clusters with Thermosensitivity Fabricated from Binary Colloidal Crystals Template and Thiolâ€“Ene Reaction. ACS Macro Letters, 2018, 7, 80-84.	2.3	27
70	Tuning properties of injectable hydrogel scaffold by PEG blending. Polymer, 2012, 53, 5124-5131.	1.8	26
71	Thin hydrogel films based on lectin-saccharide biospecific interaction for label-free optical glucose sensing. Sensors and Actuators B: Chemical, 2018, 272, 243-251.	4.0	25
72	PHEMA hydrogel films crosslinked with dynamic disulfide bonds: synthesis, swelling-induced mechanical instability and self-healing. Polymer Chemistry, 2019, 10, 4844-4851.	1.9	25

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73	From Cloudy to Transparent: Chain Rearrangement in Hydrogen-Bonded Layer-by-Layer Assembled Films. ChemPhysChem, 2007, 8, 418-424.	1.0	24
74	Peptide-Cross-Linked Protein-Imprinted Polymers: Easy Template Removal and Excellent Imprinting Effect. CCS Chemistry, 2019, 1, 544-552.	4.6	24
75	Facile Assembly of 3D Binary Colloidal Crystals from Soft Microgel Spheres. Macromolecular Rapid Communications, 2014, 35, 630-634.	2.0	23
76	Fabrication of Large-Area Two-Dimensional Microgel Colloidal Crystals via Interfacial Thiolâ€“Ene Click Reaction. Langmuir, 2016, 32, 3977-3982.	1.6	22
77	Construction of a Few-Layered COF@CNT Composite as an Ultrahigh Rate Cathode for Low-Cost K-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 31234-31244.	4.0	22
78	Dynamically bonded layerâ€byâ€layer films: Dynamic properties and applications. Journal of Applied Polymer Science, 2014, 131, .	1.3	21
79	Swelling Kinetics of Microgels Embedded in a Polyacrylamide Hydrogel Matrix. ChemPhysChem, 2014, 15, 1785-1792.	1.0	21
80	The synthesis of a contraction-type glucose-sensitive microgel working at physiological temperature guided by a new glucose-sensing mechanism. Polymer Chemistry, 2018, 9, 1012-1021.	1.9	21
81	Engineering of Ag-nanoparticle-encapsulated intermediate layer by tannic acid-inspired chemistry towards thin film nanocomposite membranes of superior antibiofouling property. Journal of Membrane Science, 2022, 641, 119922.	4.1	21
82	Unveiling the Actual Catalytic Sites in Nanozymeâ€Catalyzed Oxidation of oâ€Phenylenediamine. Small, 2021, 17, e2104083.	5.2	21
83	Additive Manufacturing of Two-Dimensional Conductive Metalâ€“Organic Framework with Multidimensional Hybrid Architectures for High-Performance Energy Storage. Nano Letters, 2022, 22, 1198-1206.	4.5	21
84	Effect of particle size in a colloidal hydrogel scaffold for 3D cell culture. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1139-1147.	2.5	20
85	Extraordinarily Large LCST Depression Converts Nonthermosensitive Polymer to Thermosensitive. Macromolecules, 2019, 52, 365-375.	2.2	20
86	Mechanical properties of polyelectrolyte multilayer self-assembled films. Thin Solid Films, 2005, 474, 159-164.	0.8	19
87	Smart microneedle patches for rapid, and painless transdermal insulin delivery. Journal of Materials Chemistry B, 2020, 8, 9335-9342.	2.9	19
88	Human serum albumin-imprinted polymers with high capacity and selectivity for abundant protein depletion. Acta Biomaterialia, 2021, 126, 249-258.	4.1	18
89	Oxidative polymerization of hydroquinone using deoxycholic acid supramolecular template. Science China Chemistry, 2012, 55, 830-835.	4.2	17
90	Facile Assembly of Large-Area 2D Microgel Colloidal Crystals Using Charge-Reversible Substrates. Langmuir, 2016, 32, 12876-12884.	1.6	17

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91	Inducing and erasing of defect state in polymerized microgel colloidal crystals via external stimuli. Journal of Colloid and Interface Science, 2018, 526, 83-89.	5.0	17
92	Layer-by-Layer Assembly of Microgel Colloidal Crystals via Photoinitiated Alkyneâ€“Azide Click Reaction. ACS Omega, 2019, 4, 5650-5660.	1.6	17
93	Photo-induced DNA cleavage in self-assembly multilayer films. New Journal of Chemistry, 2002, 26, 617-620.	1.4	16
94	Chitosan as inter-cellular linker to accelerate multicellular spheroid generation in hydrogel scaffold. Polymer, 2015, 77, 366-376.	1.8	16
95	A sustained zero-order release carrier for long-acting, peakless basal insulin therapy. Journal of Materials Chemistry B, 2020, 8, 1952-1959.	2.9	15
96	Dynamic layer-by-layer films linked with Schiff base bond for sustained drug release. RSC Advances, 2015, 5, 83914-83921.	1.7	14
97	A CO₂-responsive hydrogel film for optical sensing of dissolved CO₂. Soft Matter, 2019, 15, 6107-6115.	1.2	14
98	Synthesis and thermal gelation of hydroxypropyl chitin. RSC Advances, 2015, 5, 39677-39685.	1.7	13
99	Injectable Carrier for Zero-Order Release of Salmon Calcitonin. ACS Biomaterials Science and Engineering, 2020, 6, 485-493.	2.6	13
100	Precise and tunable time-controlled drug release system using layer-by-layer films as erodible coatings. Materials Science and Engineering C, 2020, 116, 111244.	3.8	13
101	Fabrication of covalently attached conducting multilayer self-assembly film of polyaniline by in situ coupling reaction. Synthetic Metals, 2002, 128, 305-309.	2.1	12
102	Growth of giant silver dendrites on layer-by-layer assembled films. Polymer, 2015, 63, 237-243.	1.8	12
103	Multilayer Films from Phenolic Resinâ€“Sodium Dodecyl Sulfate Complex and Polycations. Journal of Colloid and Interface Science, 2002, 249, 91-95.	5.0	11
104	In situ generation of fluorescent silver nanoclusters in layer-by-layer assembled films. Journal of Materials Chemistry C, 2013, 1, 2036.	2.7	11
105	Unexpected Large Depression of VPTT of a PNIPAM Microgel by Low Concentration of PVA. Macromolecular Chemistry and Physics, 2017, 218, 1700364.	1.1	11
106	Mechanistic insights into the novel glucose-sensitive behavior of P(NIPAM-co-2-AAPBA). Science China Chemistry, 2020, 63, 377-385.	4.2	11
107	PEGylated leuprolide with improved pharmacokinetic properties. Bioorganic and Medicinal Chemistry, 2020, 28, 115306.	1.4	11
108	Construction of shape memorable imprinted cavities for protein recognition using oligo-l-lysine-based peptide crosslinker. Journal of Colloid and Interface Science, 2021, 595, 118-128.	5.0	11

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109	Swelling-induced surface instability patterns guided by pre-introduced structures. Soft Matter, 2015, 11, 1937-1944.	1.2	10
110	Large-area 2D microgel colloidal crystals fabricated via benzophenone-based photochemical reaction. RSC Advances, 2016, 6, 82006-82013.	1.7	10
111	A new emulsification-crosslinking technique for preparation of physically crosslinked chitosan microspheres. Journal of Bioactive and Compatible Polymers, 2020, 35, 289-300.	0.8	10
112	Fabrication of an ESA Multilayer Film from a Diazo Resin by Direct Surface Charge Reversal. Macromolecular Rapid Communications, 2001, 22, 842-845.	2.0	9
113	Redoxâ€active LBL films via in situ template polymerization of hydroquinone. Journal of Applied Polymer Science, 2013, 129, 3070-3076.	1.3	9
114	Assembly of highly ordered 2D arrays of silver-PNIPAM hybrid microgels. Chinese Journal of Polymer Science (English Edition), 2017, 35, 1212-1221.	2.0	9
115	Michael reaction of chitosan with acrylamides in an aqueous alkaliâ€“urea solution. Polymer Bulletin, 2015, 72, 2075-2087.	1.7	8
116	A novel photosensitive ternary complex consisting of phenol-formaldehyde resin, sodium dodecyl sulfate, and diazo resin. Journal of Polymer Science Part A, 2000, 38, 2566-2571.	2.5	7
117	Glucose-Induced Transition among Three States of a Doped Microgel Colloidal Crystal. Langmuir, 2018, 34, 8288-8293.	1.6	7
118	Shear-assisted grain coarsening in colloidal polycrystals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24055-24060.	3.3	7
119	Glucose-Triggered Micellization of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (glycol)-b-poly(N-i Copolymer. ACS Applied Polymer Materials, 2020, 2, 3966-3976.	2.0	7
120	Novel alternating polymer adsorption/surface activation self-assembled film based on hydrogen bond. Thin Solid Films, 2003, 437, 280-284.	0.8	6
121	Patterned PHEMA Films Synthesized by Redox Polymerization for Multicellular Spheroid Generation. Industrial & Engineering Chemistry Research, 2019, 58, 10713-10723.	1.8	6
122	Hydrogenâ€Bonded Films for Zeroâ€Order Release of Leuprolide. Macromolecular Bioscience, 2020, 20, 2000050.	2.1	6
123	Dielsâ€“Alder Cross-Linked, Washing-Free Hydrogel Films with Ordered Wrinkling Patterns for Multicellular Spheroid Generation. Biomacromolecules, 2021, 22, 3474-3485.	2.6	6
124	A 3D printed synergistic aerogel microreactor toward stable and high-efficiency photocatalytic degradation. Materials Today Chemistry, 2021, 22, 100566.	1.7	6
125	A highly programmable platform for sequential release of protein therapeutics. Journal of Materials Chemistry B, 2021, 9, 1616-1624.	2.9	6
126	Construction of single-injection vaccine using new time-controlled release system. , 2022, 137, 212812.		6

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127	Glucose-sensitive membrane with phenylboronic acid-based contraction-type microgels as chemical valves. Journal of Membrane Science, 2022, 650, 120406.	4.1	5
128	Magnetic Field-Assisted Fast Assembly of Microgel Colloidal Crystals. Langmuir, 2022, 38, 6057-6065.	1.6	5
129	Inclusion Complexation of Diphenylamine-4-diazonium Chloride and p-Sulfonatocalix[4]arene. Supramolecular Chemistry, 2002, 14, 473-475.	1.5	3
130	Uniformly Sized Stem Cell Spheroids for Treatment of Hind Limb Ischemia: Size Effect. Advanced Materials Interfaces, 2022, 9, .	1.9	3
131	Periodic pattern of iron oxide using 2D microgel colloidal crystal as template. Applied Surface Science, 2020, 513, 145737.	3.1	2
132	SYNTHESIS OF GLUCOSE-SENSITIVE CORE-SHELL MICROGELS. Acta Polymerica Sinica, 2010, 010, 280-284.	0.0	2
133	Polysilsesquioxane Nanosheets Synthesized in Confined Environment. Macromolecular Rapid Communications, 2003, 24, 676-680.	2.0	1
134	A novel photosensitive ternary complex consisting of phenol-formaldehyde resin, sodium dodecyl sulfate, and diazo resin. , 2000, 38, 2566.		1
135	SYNTHESIS OF N-ISOPROYLACRYLAMIDE COPOLYMER MICROGELS SENSITIVE TO LEAD IONS. Acta Polymerica Sinica, 2010, 010, 793-796.	0.0	1
136	Surface Modification of Silica Gel by Interfacial Polyelectrolyte Complexes. Adsorption Science and Technology, 1999, 17, 459-467.	1.5	0
137	AN APPARENT KINETICS STUDY ON THE OXIDATIVE POLYMERIZATION OF <I>p</I>-DIHYDROXYBENZENE USING CHITOSAN AS TEMPLATE. Acta Polymerica Sinica, 2009, 009, 572-575.	0.0	0