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Study of pH/temperature dual stimuli-responsive nanogels with interpenetrating polymer network structure

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#	Paper	IF	Citations
46	Enhanced therapeutic efficacy of lipophilic amphotericin B against <i>Candida albicans</i> with amphiphilic poly(N-isopropylacrylamide) nanogels. <i>Macromolecular Research</i> , 2014 , 22, 1125-1131	1.9	20
45	Synthesis and characterization of self-oscillating P(AA-co-AM)/PEG semi-IPN hydrogels based on a pH oscillator in closed system. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1581-1589	3.5	4
44	Design and applications of interpenetrating polymer network hydrogels. A review. <i>Chemical Engineering Journal</i> , 2014 , 243, 572-590	14.7	590
43	Temperature- and pH-tunable plasmonic properties and SERS efficiency of the silver nanoparticles within the dual stimuli-responsive microgels. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7326-7335	7.1	38
42	Production of Cationic Nanogels with Potential Use in Controlled Drug Delivery. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 101-109	3.1	33
41	Magnetically doped multi stimuli-responsive hydrogel microspheres with IPN structure and application in dye removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 459, 39-47	5.1	55
40	Local structure of temperature and pH-sensitive colloidal microgels. <i>Journal of Chemical Physics</i> , 2015 , 143, 114904	3.9	13
39	Stimuli-responsive nanogel composites and their application in nanomedicine. <i>Chemical Society Reviews</i> , 2015 , 44, 6161-86	58.5	349
38	Multi-responsive microgel of a water-soluble monomer via emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	13
37	Anomalous Volume Phase Transition Temperature of Thermosensitive Semi-Interpenetrating Polymer Network Microgel Suspension by Dielectric Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13198-207	3.4	14
36	Preparation of Uniform-Sized and Dual Stimuli-Responsive Microspheres of Poly(Isopropylacrylamide)/Poly(Acrylic acid) with Semi-IPN Structure by One-Step Method. <i>Polymers</i> , 2016 , 8,	4.5	22
35	Green robust pH-temperature-sensitive maleated poly(vinyl alcohol)-g-gelatin for encapsulated capsaicin. <i>Polymer Bulletin</i> , 2016 , 73, 2303-2320	2.4	10
34	Tuning the Synthetic Routes of Dimethylaminoethyl methacrylate-Based Superabsorbent Copolymer Hydrogels Containing Sulfonate Groups: Elasticity, Dynamic, and Equilibrium Swelling Properties. <i>Advances in Polymer Technology</i> , 2017 , 36, 442-454	1.9	7
33	CO(2)-responsive polyacrylamide microspheres with interpenetrating networks. <i>Journal of Colloid and Interface Science</i> , 2017 , 497, 249-257	9.3	15
32	An antibacterial composite system based on multi-responsive microgels hosting monodisperse gold nanoparticles. <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	7
31	Nanobiomaterials Applications in neurodegenerative diseases. <i>Journal of Biomaterials Applications</i> , 2017 , 31, 953-984	2.9	29
30	Carbon-based hybrid nanogels: a synergistic nanoplatform for combined biosensing, bioimaging, and responsive drug delivery. <i>Chemical Society Reviews</i> , 2018 , 47, 4198-4232	58.5	146

29	Shell-corona microgels from double interpenetrating networks. <i>Soft Matter</i> , 2018 , 14, 2777-2781	3.6	20
28	An L-proline based thermoresponsive and pH-switchable nanogel as a drug delivery vehicle. <i>Polymer Chemistry</i> , 2018 , 9, 2271-2280	4.9	16
27	Thermo/pH/magnetic-triple sensitive poly(N-isopropylacrylamide-co-2-dimethylaminoethyl methacrylate)/sodium alginate modified magnetic graphene oxide nanogel for anticancer drug delivery. <i>Polymer Bulletin</i> , 2018 , 75, 5403-5419	2.4	16
26	Fabricating core (Au)-shell (different stimuli-responsive polymers) nanoparticles via inverse emulsion polymerization: Comparing DOX release behavior in dark room and under NIR lighting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 166, 144-151	6	28
25	Epoxide Functional Temperature-Sensitive Semi-IPN Hydrogel Microspheres for Isolating Inorganic Nanoparticles. <i>Advances in Polymer Technology</i> , 2018 , 37, 94-103	1.9	3
24	Synthesis and evaluation on pH- and temperature-responsive chitosan-p(MAA-co-NIPAM) hydrogels. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 367-375	7.9	37
23	A lysosome-targeting nanosensor for simultaneous fluorometric imaging of intracellular pH values and temperature. <i>Mikrochimica Acta</i> , 2018 , 185, 533	5.8	14
22	Interpenetrating Polymer Network Microgels in Water: Effect of Composition on the Structural Properties and Electrosteric Interactions. <i>ChemPhysChem</i> , 2018 , 19, 2894-2901	3.2	10
21	A thermo-/pH-responsive hydrogel (PNIPAM-PDMA-PAA) with diverse nanostructures and gel behaviors as a general drug carrier for drug release. <i>Polymer Chemistry</i> , 2018 , 9, 4063-4072	4.9	51
20	Semi-interpenetrated, dendritic, dual-responsive nanogels with cytochrome c corona induce controlled apoptosis in HeLa cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 130, 115-122	5.7	6
19	NIR- and thermo-responsive semi-interpenetrated polypyrrole nanogels for imaging guided combinational photothermal and chemotherapy. <i>Journal of Controlled Release</i> , 2019 , 311-312, 147-161	11.7	31
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16	Thermochromic Hydrogel-Functionalized Textiles for Synchronous Visual Monitoring of On-Demand Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51225-51235	9.5	18
15	Stimuli-responsive polymer/nanomaterial hybrids for sensing applications. <i>Analyst, The</i> , 2020 , 145, 5713-5724	5.7	12
14	The Age of Multistimuli-responsive Nanogels: The Finest Evolved Nano Delivery System in Biomedical Sciences. <i>Biotechnology and Bioprocess Engineering</i> , 2020 , 25, 655-669	3.1	6
13	Relaxation Dynamics, Softness, and Fragility of Microgels with Interpenetrated Polymer Networks. <i>Macromolecules</i> , 2020 , 53, 1596-1603	5.5	15
12	New Developments in Medical Applications of Hybrid Hydrogels Containing Natural Polymers. <i>Molecules</i> , 2020 , 25,	4.8	72

11	Poly(N-isopropylacrylamide) based thin microgel films for use in cell culture applications. <i>Scientific Reports</i> , 2020 , 10, 6126	4.9	30
10	POSS-based IPN nanocomposites. 2021 , 195-203		5
9	Glass and Jamming Rheology in Soft Particles Made of PNIPAM and Polyacrylic Acid. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
8	Chemical-Physical Behaviour of Microgels Made of Interpenetrating Polymer Networks of PNIPAM and Poly(acrylic Acid). <i>Polymers</i> , 2021 , 13,	4.5	5
7	Volume fraction determination of microgel composed of interpenetrating polymer networks of PNIPAM and polyacrylic acid. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	5
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5	Hypoxia and temperature dual-stimuli-responsive random copolymers: facile synthesis, self-assembly and controlled release of drug. <i>New Journal of Chemistry</i> , 2020 , 44, 10229-10238	3.6	1
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3	Interpenetrating network based polymeric sensors with enhanced specificity, sensitivity, and reusability. <i>Sensors and Actuators B: Chemical</i> , 2022 , 367, 132172	8.5	1
2	Ultrasound triggered nanovesicular drug delivery systems. 2022 , 403-418		0
1	A statistical-chain-based theory for dynamic living polymeric gels with concurrent diffusion, chain remodeling reactions and deformation. 2023 , 172, 105155		0