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pH-Responsive polymers

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#	Paper	IF	Citations
685	Dual-responsive core-crosslinked polyphosphoester-based nanoparticles for pH/redox-triggered anticancer drug delivery. <b>2017</b> , 5, 3771-3782		25
684	Stimulus-Responsive Degradable Polylactide-Based Block Copolymer Nanoassemblies for Controlled/Enhanced Drug Delivery. <b>2017</b> , 14, 2460-2474		49
683	Study the role of poly(diethyl aminoethyl methacrylate) as a modified and grafted shell for TiO2 and ZnO nanoparticles, application in flutamide delivery. <b>2017</b> , 116, 1-8		14
682	Thermoresponsive Microcarriers for Smart Release of Hydrate Inhibitors under Shear Flow. <b>2017</b> , 9, 171	78-17	1 <b>8</b> 5
681	Morphology transformation of self-assembled organic nanomaterials in aqueous solution induced by stimuli-triggered chemical structure changes. <b>2017</b> , 5, 16059-16104		47
68o	Triple-stimuli-responsive ferrocene-containing homopolymers by RAFT polymerization. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 2773-2784	4.9	30
679	Synthesis and Thermoresponsive Behaviors of Thermo-, pH-, CO2-, and Oxidation-Responsive Linear and Cyclic Graft Copolymers. <b>2017</b> , 50, 3411-3423		48
678	Oxygen and carbon dioxide dual gas-responsive homopolymers and diblock copolymers synthesized via RAFT polymerization. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 1163-1176	4.9	23
677	Functionalization of carboxylated lignin nanoparticles for targeted and pH-responsive delivery of anticancer drugs. <b>2017</b> , 12, 2581-2596		71
676	Preparation and characterization of pH-responsive poly( N,N -dimethyl acrylamide- co -methacryloyl sulfadimethoxine) hydrogels for application as food freshness indicators. <b>2017</b> , 120, 57-65		12
675	Decoupled Thermo- and pH-Responsive Hydrogel Microspheres Cross-Linked by Rotaxane Networks. <b>2017</b> , 56, 15393-15396		39
674	Smart pH-Responsive Polymer-Tethered and Pd NP-Loaded NMOF as the Pickering Interfacial Catalyst for One-Pot Cascade Biphasic Reaction. <b>2017</b> , 9, 36438-36446		50
673	Reduction-Triggered Release of CPT from Acid-Degradable Polymeric Prodrug Micelles Bearing Boronate Ester Bonds with Enhanced Cellular Uptake. <b>2017</b> , 3, 3364-3375		10
672	Dependence of color change of vinylethylene carbonate copolymers having N -substituted maleimides on chemical structure by acid-base switching in solution and solid state. <b>2017</b> , 120, 139-146		5
671	A Pyrene Derived CO2-Responsive Polymeric Probe for the Turn-On Fluorescent Detection of Nerve Agent Mimics with Tunable Sensitivity. <b>2017</b> , 50, 6888-6895		27
670	pH-Driven Wetting Switchability of Electrodeposited Superhydrophobic Copolymers of Pyrene Bearing Acid Functions and Fluorinated Chains. <b>2017</b> , 18, 3429-3436		9
669	Responsive polymeric nanoparticles for controlled drug delivery. <b>2017</b> , 66, 1756-1764		13

668	Fractionation of poly(methacrylic acid) and poly(vinyl pyridine) in aqueous and organic mobile phases by multidetector thermal field-flow fractionation. <b>2017</b> , 1512, 115-123		6
667	Temperature-responsive methacrylamide polyampholytes. <b>2017</b> , 7, 31033-31041		5
666	pH-Responsive Schizophrenic Diblock Copolymers Prepared by Polymerization-Induced Self-Assembly. <b>2017</b> , 50, 6108-6116		40
665	Studying the influence of stem composition in pH-sensitive molecular beacons onto their sensing properties. <b>2017</b> , 990, 157-167		13
664	Structural Variation in Homopolymers Bearing Zwitterionic and Ionic Liquid Pendants for Achieving Tunable Multi-Stimuli Responsiveness and Hierarchical Nanoaggregates. <b>2017</b> , 50, 9807-9820		26
663	Dual Location, Dual Acidic pH/Reduction-Responsive Degradable Block Copolymer: Synthesis and Investigation of Ketal Linkage Instability under ATRP Conditions. <b>2017</b> , 50, 9427-9436		17
662	Rationally Designed Calcium Phosphate/Small Gold Nanorod Assemblies Using Poly(acrylic acid calcium salt) Nanospheres as Templates for Chemo-photothermal Combined Cancer Therapy. <b>2017</b> , 3, 3215-3221		7
661	The application of blocked isocyanate chemistry in the development of tunable thermoresponsive crosslinkers. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 7229-7239	<b>1</b> .9	5
660	Decoupled Thermo- and pH-Responsive Hydrogel Microspheres Cross-Linked by Rotaxane Networks. <b>2017</b> , 129, 15595-15598		6
659	Self-Assembly of Double Hydrophilic Poly(2-ethyl-2-oxazoline)-b-poly(N-vinylpyrrolidone) Block Copolymers in Aqueous Solution. <b>2017</b> , 9,		18
658	Steric hindrance effect on the thermo- and photo-responsive properties of pyrene-based polymers. <b>2018</b> , 42, 5698-5708		8
657	Programmable hydrogels. <b>2018</b> , 178, 663-680		45
656	Composite Polymeric Membranes with Directionally Embedded Fibers for Controlled Dual Actuation. <b>2018</b> , 39, e1800082		39
655	A mobile precursor determines protein resistance on nanostructured surfaces. <b>2018</b> , 20, 12527-12534		7
654	Controllable fabrication of novel pH-, thermo-, and light-responsive supramolecular dendronized copolymers with dual self-assembly behavior. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3080-3087	<b>1</b> .9	3
653	Use of gasotransmitters for the controlled release of polymer-based nitric oxide carriers in medical applications. <b>2018</b> , 279, 157-170		20
652	Biopolymer-based strategies in the design of smart medical devices and artificial organs. <b>2018</b> , 41, 337-3	59	29
651	Thermoresponse and self-assembly of an ABC star quarterpolymer with O2 and redox dual-responsive Y junctions. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 1095-1108	<b>1</b> .9	9

650	Au(III) complexes loaded pH-responsive magnetic nanogels for cancer therapy. <b>2018</b> , 32, e4303	9
649	Amino acid-derived stimuli-responsive polymers and their applications. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 1257 <sub>4</sub> 1¢87	7 100
648	Behavior of double stimuli-responsive copolymer of N-(3-(diethylamino) propyl)-N-methylacrylamide and N,Ndiethylacrylamide in aqueous solutions. <b>2018</b> , 23, 236-243	5
647	Temperature and pH Responsive Hydrogels Using Methacrylated Lignosulfonate Cross-Linker: Synthesis, Characterization, and Properties. <b>2018</b> , 6, 1763-1771	48
646	Biomolecular Release from Alginate-modified Electrode Triggered by Chemical Inputs Processed through a Biocatalytic Cascade Integration of Biomolecular Computing and Actuation. <b>2018</b> , 30, 426-435	24
645	Stimuli-responsive dendronized polymeric hydrogels through Schiff-base chemistry showing remarkable topological effects. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 378-387	26
644	Polymer brush on surface with tunable hydrophilicity using SAM formation of zwitterionic 4-vinylpyridine-based polymer. <b>2018</b> , 42, 2513-2519	3
643	A step-wise self-assembly approach in preparation of multi-responsive poly(styrene-co-methyl methacrylate) nanoparticles containing spiropyran. <b>2018</b> , 515, 58-69	25
642	Effect of pH on the Behavior of a Random Copolymer of Acrylamide. 2018, 60, 127-133	3
641	Universal shape characteristics for the mesoscopic star-shaped polymer via dissipative particle dynamics simulations. <b>2018</b> , 30, 215101	5
640	Stimuli Responsive Hierarchical Assembly of P22 Virus-like Particles. <b>2018</b> , 30, 2262-2273	10
639	Light-Switchable Azobenzene-Containing Macromolecules: From UV to Near Infrared. <b>2018</b> , 39, 1700220	102
638	Bmart[Polymers: Physicochemical Characteristics and Applications in Bio-Separation Strategies. <b>2018</b> , 47, 199-213	9
637	Hybrid Silicon-Based Organic/Inorganic Block Copolymers with Sol-Gel Active Moieties: Synthetic Advances, Self-Assembly and Applications in Biomedicine and Materials Science. <b>2018</b> , 24, 3354-3373	16
636	Stimuli-sensitive nanostructured poly(sodium 4-styrene sulfonate): Synthesis, characterization, and study of metal ion retention properties. <b>2018</b> , 135, 46001	2
635	From Dendrimers to Macrocycles: 80 Years George R. Newkome <b>M</b> ilestones of a Gentleman Scientist. <b>2018</b> , 219, 1800269	4
634	Wettability of Amphoteric Surfaces: The Effect of pH and Ionic Strength on Surface Ionization and Wetting. <b>2018</b> , 34, 15174-15180	18
633	Poly(-isopropylacrylamide2-((diethylamino)methyl)-4-formyl-6-methoxyphenyl acrylate) Environmental Functional Copolymers: Synthesis, Characterizations, and Grafting with Amino Acids. <b>2018</b> , 8,	8

# (2018-2018)

632	Synthetic Methodologies for Chelating Polymer Ligands: Recent Advances and Future Development. <b>2018</b> , 3, 13234-13270	8
631	Synthesis, Characterization and Drug Loading of Multiresponsive p[NIPAm-co-PEGMA] (core)/p[NIPAm-co-AAc] (Shell) Nanogels with Monodisperse Size Distributions. <b>2018</b> , 10,	7
630	Poly[oligo(2-ethyl-2-oxazoline)acrylate]-Based Poly(ionic liquid) Random Copolymers with Coexistent and Tunable Lower Critical Solution Temperature- and Upper Critical Solution Temperature-Type Phase Transitions. <b>2018</b> , 34, 12653-12663	15
629	pH- and thermo-responsive solution behavior of amphiphilic, linear triblock terpolymers. <b>2018</b> , 157, 9-18	14
628	Clinical Applications of Injectable Biomaterials. <b>2018</b> , 1077, 163-182	14
627	Synthesis and Characterization of Tunable, pH-Responsive Nanoparticle-Microgel Composites for Surface-Enhanced Raman Scattering Detection. <b>2018</b> , 3, 10572-10588	8
626	Advances and Future Perspectives in 4D Bioprinting. 2018, 13, e1800148	109
625	Polymeric Micelles Based on Light-Responsive Block Copolymers for the Phototunable Detection of Mercury(II) Ions Modulated by Morphological Changes. <b>2018</b> , 10, 34634-34639	15
624	Site-specific delivery of polymeric encapsulated microorganisms: a patent evaluation of US20170165201A1. <b>2018</b> , 28, 703-708	2
623	Construction of Thermo-Responsive Elastin-Like Polypeptides (ELPs)-Aggregation-Induced-Emission (AIE) Conjugates for Temperature Sensing. <b>2018</b> , 23,	16
622	Dual-Responsive Polyphosphoester-Doxorubicin Prodrug Containing a Diselenide Bond: Synthesis, Characterization, and Drug Delivery. <b>2018</b> , 4, 2443-2452	34
621	Determining influential descriptors for polymer chain conformation based on empirical force-fields and molecular dynamics simulations. <b>2018</b> , 704, 49-54	13
620	Temperature and pH-Dual Responsive AIE-Active Core Crosslinked Polyethylene <b>P</b> oly(methacrylic acid) Multimiktoarm Star Copolymers. <b>2018</b> , 7, 886-891	25
619	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> , <b>2018</b> , 9, 4063-4072	51
618	Stimuli-responsive biopolymer nanocarriers for drug delivery applications. <b>2018</b> , 405-432	7
617	Smart polymeric gels. <b>2018</b> , 179-230	2
616	Bioinspired polymeric carriers for drug delivery applications. <b>2018</b> , 377-404	11
615	Isomerization and rearrangement of boriranes: from chemical rarities to functional materials. <b>2018</b> , 61, 1249-1256	13

614	Stimuli-responsive nanocomposites for drug delivery. <b>2018</b> , 823-841	1
613	Introduction: Smart Materials in Biomedicine. <b>2018</b> , 1-13	1
612	Historical development of drug delivery systems: From conventional macroscale to controlled, targeted, and responsive nanoscale systems. <b>2018</b> , 3-41	13
611	DNA Hydrogel Assemblies: Bridging Synthesis Principles to Biomedical Applications. <b>2018</b> , 1, 1800042	43
610	Recent Progress and Advances in Stimuli-Responsive Polymers for Cancer Therapy. <b>2018</b> , 6, 110	80
609	Self-assembly/disassembly of giant double-hydrophilic polymersomes at biologically-relevant pH. <b>2018</b> , 54, 9043-9046	10
608	Proton transfer in nonpolar solvents: an approach to generate electrolytes in aprotic media. <b>2018</b> , 20, 18919-18923	5
607	Thermo-Responsive Starch-g-(PAM-co-PNIPAM): Controlled Synthesis and Effect of Molecular Components on Solution Rheology. <b>2018</b> , 10,	21
606	Self-Assembled Nanogels: From Particles to Scaffolds and Membranes. 2018, 33-62	3
605	Fabrication of Reduction-Responsive Star-Shaped Amphiphilic Block Copolymers with Click Coupling-Generated Block Junctions toward Enhanced Therapeutic Efficacy. <b>2018</b> , 219, 1800061	2
604	Development of pH-responsive biopolymer-silica composites loaded with Larrea divaricata Cav. extract with antioxidant activity. <b>2018</b> , 169, 82-91	16
603	Molecular Insights into the Effects of Media-Drug and Carrier-Drug Interactions on pH-Responsive Drug Carriers. <b>2018</b> , 15, 2479-2483	8
602	Modular Redesign of a Cationic Lytic Peptide To Promote the Endosomal Escape of Biomacromolecules. <b>2018</b> , 57, 12771-12774	19
601	Recent development of fiber-optic chemical sensors and biosensors: Mechanisms, materials, micro/nano-fabrications and applications. <b>2018</b> , 376, 348-392	114
600	Modular Redesign of a Cationic Lytic Peptide To Promote the Endosomal Escape of Biomacromolecules. <b>2018</b> , 130, 12953-12956	5
599	Dual pH-sensitive and UCST-type thermosensitive dendrimers: phenylalanine-modified polyamidoamine dendrimers with carboxyl termini <b>2018</b> , 8, 28147-28151	10
598	Core-Shell-Corona Micelles from a Polyether-Based Triblock Terpolymer: Investigation of the pH-Dependent Micellar Structure. <b>2018</b> , 34, 7813-7820	5
597	Acid-Triggered Polymer Backbone Degradation and Disassembly to Achieve Release of Camptothecin from Functional Polyphosphoramidate Nanoparticles. <b>2018</b> , 7, 783-788	15

596	Nano-engineered delivery systems for cancer imaging and therapy: Recent advances, future direction and patent evaluation. <b>2019</b> , 24, 462-491	55
595	Synthesis and physicochemical properties of dual-responsive acrylic acid/butyl acrylate cross-linked nanogel systems. <b>2019</b> , 556, 313-323	17
594	Stimuli-Responsive Drug Release from Smart Polymers. <b>2019</b> , 10,	81
593	Tailoring CO2-Responsive Polymers and Nanohybrids for Green Chemistry and Processes. <b>2019</b> , 58, 15088-15	10:85
592	pH-responsive AIE-active Polyethylene-based Block Copolymers. <b>2019</b> , 37, 930-935	8
591	Modular Fabrication of Intelligent Material-Tissue Interfaces for Bioinspired and Biomimetic Devices. <b>2019</b> , 106,	48
590	Electrochemical Signal-triggered Release of Biomolecules Functionalized with His-tag Units. <b>2019</b> , 31, 2274-2282	2
589	Synthesis, molecular characteristics, and stimulus-sensitivity of graft copolymer of chitosan and poly(N,N-diethylacrylamide). <b>2019</b> , 292, 111355	7
588	Design, development and validation of guar gum based pH sensitive drug delivery carrier via graft copolymerization reaction using microwave irradiations. <b>2019</b> , 138, 278-291	23
587	Nanoclustered Cascaded Enzymes for Targeted Tumor Starvation and Deoxygenation-Activated Chemotherapy without Systemic Toxicity. <b>2019</b> , 13, 8890-8902	68
586	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. <b>2019</b> , 6, 1900761	103
585	Other Polymer Nanoparticles as Promising Tools for Anticancer Therapeutics. <b>2019</b> , 373-388	
584	Synthesis of light and dual-redox triple-stimuli-responsive core-crosslinked micelles as nanocarriers for controlled release. <b>2019</b> , 136, 47946	11
583	3D and 4D Printing of Polymers for Tissue Engineering Applications. <b>2019</b> , 7, 164	162
582	Synthesis of Thermo-, Oxidation-, pH-, and CO -Responsive Polymers via the Combination of Aza-Michael and Thiol-Michael Reactions in One Pot. <b>2019</b> , 40, e1900342	4
581	Molecular brushes with poly-2-ethyl-2-oxazoline side chains and aromatic polyester backbone manifesting double stimuli responsiveness. <b>2019</b> , 297, 1445-1454	9
580	Zirconia/graphene nanocomposites effect on the enhancement of thermo-mechanical stability of polymer hydrogels. <b>2019</b> , 21, 100701	2
579	Fundamental Mechanisms of Intelligent Responsiveness. <b>2019</b> , 27-68	

578	pH-Driven Morphological Diversity in Poly[n-Butyl Acrylate-block-(2-(Dimethylamino)Ethyl Acrylate)] Amphiphilic Copolymer Solutions. <b>2019</b> , 40, e1900477	8
577	Unravelling the photothermal and photomechanical contributions to actuation of azobenzene-doped liquid crystal polymers in air and water. <b>2019</b> , 7, 13502-13509	49
576	Tetraphenylsilane-Cored Star-Shaped Polymer Micelles with pH/Redox Dual Response and Active Targeting Function for Drug-Controlled Release. <b>2019</b> , 20, 4602-4610	17
575	pH-Induced Amphiphilicity-Reversing Schizophrenic Aggregation by Alternating Copolymers. <b>2019</b> , 52, 8346-8358	38
574	Smart Microneedles with Porous Polymer Coatings for pH-Responsive Drug Delivery. 2019, 11,	16
573	Bioactuators based on stimulus-responsive hydrogels and their emerging biomedical applications. <b>2019</b> , 11,	100
572	Functional Macromolecule-Enabled Colloidal Synthesis: From Nanoparticle Engineering to Multifunctionality. <b>2019</b> , 31, e1902733	21
571	Corrosion Sensors for Structural Health Monitoring of Oil and Natural Gas Infrastructure: A Review. <b>2019</b> , 19,	40
570	Polymeric microneedles for controlled transdermal drug delivery. <b>2019</b> , 315, 97-113	71
569	Reversible stimuli-responsive nanomaterials with on-off switching ability for biomedical applications. <b>2019</b> , 314, 162-176	26
568	Morphological transformation of calcium phenylphosphonate microspheres induced by micellization of Epolyglutamic acid. <b>2019</b> , 556, 33-46	1
567	Development of stimuli-responsive nano-based pesticides: emerging opportunities for agriculture. <b>2019</b> , 17, 100	85
566	Surfactant-Switched Positive/Negative Electrorheological Effect in Tungsten Oxide Suspensions. <b>2019</b> , 24,	4
565	Grafting light-, temperature, and CO2-responsive copolymers from cellulose nanocrystals by atom transfer radical polymerization for adsorption of nitrate ions. <b>2019</b> , 182, 121830	40
564	Highly bluish-white light emissive and redox active conjugated poly-N-phenyl anthranilic acid polymer fluoroprobe for analytical sensing. <b>2019</b> , 181, 121747	7
563	Environment sensitive hydrogels for drug delivery applications. <b>2019</b> , 120, 109220	52
562	Mechanics of innovative responsive polymers. <b>2019</b> , 100, 103403	1
561	Sensing and Self-Sensing Actuation Methods for Ionic Polymer-Metal Composite (IPMC): A Review. <b>2019</b> , 19,	25

560	Biocompatible disulphide cross-linked sodium alginate derivative nanoparticles for oral colon-targeted drug delivery. <b>2019</b> , 47, 353-369	39
559	Temperature and pH dual-stimuli responsive polymeric carriers for drug delivery. <b>2019</b> , 87-109	6
558	DNA-Inspired Strand-Exchange for Switchable PMMA-Based Supramolecular Morphologies. <b>2019</b> , 141, 2630-2635	13
557	Spatiotemporal control over the hostবuest characteristics of a stimulus-triggerable trifunctional polymer assembly. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1423-1430	3
556	With polymer photoclicks to fluorescent microspheres. <b>2019</b> , 6, 356-363	13
555	Investigation of pH-responsive block glycopolymers with different structures for the delivery of doxorubicin <b>2019</b> , 9, 1814-1821	6
554	Thermo-tunable colorimetric detection of mercury(II) ions driven by the temperature-dependent assembly and disassembly of a block copolymer. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 4017-4024	9
553	Responsive Polymers as Smart Nanomaterials Enable Diverse Applications. <b>2019</b> , 10, 361-382	23
552	pH-responsive dithiomaleimide-amphiphilic block copolymer for drug delivery and cellular imaging. <b>2019</b> , 552, 439-447	23
551	Bio-responsive smart polymers and biomedical applications. <b>2019</b> , 2, 032004	30
550	Stimuli-responsive polymers for sensing and actuation. <b>2019</b> , 6, 1774-1793	128
549	Nanomaterial-Based Approaches for Neural Regeneration. <b>2019</b> , 11,	8
548	Electrochemically stimulated molecule release associated with interfacial pH changes. <b>2019</b> , 55, 7856-7859	12
547	Switchable Dual-Function and Bioresponsive Materials to Control Bacterial Infections. <b>2019</b> , 11, 22897-22914	35
546	Synthesis and self-assembly of thermoresponsive poly(N-isopropylacrylamide)-b-poly(oligo ethylene glycol methyl ether acrylate) double hydrophilic block copolymers. <b>2019</b> , 57, 1467-1477	12
545	Boron-based stimuli responsive materials. <b>2019</b> , 48, 3537-3549	182
544	Tumor-targeting intracellular drug delivery based on dual acid/reduction-degradable nanoassemblies with ketal interface and disulfide core locations. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 2840-285 <sup>3</sup> -9	11
543	Poly(4-vinyl imidazole): A pH-Responsive Trigger for Hierarchical Self-Assembly of Multicompartment Micelles Based upon Triblock Terpolymers. <b>2019</b> , 220, 1900131	6

542	Modifications in Vaginal Microbiota and Their Influence on Drug Release: Challenges and Opportunities. <b>2019</b> , 11,	27
541	PDEA-Based Amphiphilic Polymer Enables pH-Responsive Emulsions for a Rapid Demulsification. <b>2019</b> ,	
540	To what extent do polymeric stabilizers affect nanoparticles characteristics?. <b>2019</b> , 270, 38-53	31
539	Thermo-responsive polymers: Applications of smart materials in drug delivery and tissue engineering. <b>2019</b> , 102, 589-605	137
538	Bulk poly(N-isopropylacrylamide) (PNIPAAm) thermoresponsive cell culture platform: toward a new horizon in cell sheet engineering. <b>2019</b> , 7, 2277-2287	26
537	Glutathione and pH-responsive fluorescent nanogels for cell imaging and targeted methotrexate delivery. <b>2019</b> , 30, 1847-1855	9
536	Preparation and Characterization of Novel Low-Temperature/pH Dual-Responsive Poly(N-isopropylacrylamide-co-1H-benzimidazolyl-ethyl acrylate) Copolymers. <b>2019</b> , 220, 1900123	1
535	Design and fabrication of pH-responsive microencapsulated phase change materials for multipurpose applications. <b>2019</b> , 140, 111-123	14
534	Artificial Microbial Arenas: Materials for Observing and Manipulating Microbial Consortia. <b>2019</b> , 31, e1900284	18
533	Dual CO2/temperature-responsive diblock copolymers confer controlled reversible emulsion behavior. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 2641-2646	9
532	The Influence of Composition of Thermo- and pH-Sensitive Copolymers of N-(3-(Diethylamino)propyl)-N-methylacrylamide and N,N-Diethylacrylamide on Their Behavior in Aqueous Solutions. <b>2019</b> , 61, 1-8	O
531	Multiscale modeling and simulations of responsive polymers. <b>2019</b> , 23, 21-33	16
530	New liquid crystal polycarbonate micelles for intracellular delivery of anticancer drugs. <b>2019</b> , 178, 395-403	7
529	Polydopamine as a Versatile Adhesive Layer for Robust Fabrication of Smart Surface with Switchable Wettability for Effective Oil/Water Separation. <b>2019</b> , 58, 4838-4843	18
528	Chitosan-Modified PLGA Nanoparticles for Control-Released Drug Delivery. 2019, 11,	104
527	Light-Switching Azo-Copolymers Self-Assembly in Multi-Stationary States. <b>2019</b> , 40, e1900058	6
526	A 'catch-and-release' receptor for the cholera toxin. <b>2019</b> , 219, 112-127	5

## (2019-2019)

524	Nanobuffering of pH-Responsive Polymers: A Known but Sometimes Overlooked Phenomenon and Its Biological Applications. <b>2019</b> , 13, 4876-4882		45
523	Programmable Therapeutic Nanodevices with Circular Amplification of H O in the Tumor Microenvironment for Synergistic Cancer Therapy. <b>2019</b> , 8, e1801627		16
522	Photo-induced hydrogen-bonding complexes for drug periodic release. <b>2019</b> , 7, 2468-2479		9
521	Assembly of particle strings via isotropic potentials. <b>2019</b> , 150, 124903		14
520	Applications and Experimental Design. <b>2019</b> , 31-99		
519	Smart Polymer Gels: Properties, Synthesis, and Applications. <b>2019</b> , 279-321		4
518	Smart Instructive Polymer Substrates for Tissue Engineering. <b>2019</b> , 411-438		6
517	Water Soluble Polymer Flocculants: Synthesis, Characterization, and Performance Assessment. <b>2019</b> , 304, 1800526		68
516	pH-Responsive Polymers: Properties, Synthesis, and Applications. <b>2019</b> , 45-86		O
515	The Use of Smart Polymers in Medical Devices for Minimally Invasive Surgery, Diagnosis, and Other Applications. <b>2019</b> , 481-531		О
514	A review on five key sensors for monitoring of concrete structures. <b>2019</b> , 204, 492-509		79
513	Three-Step Synthesis of a Less-Aggregated Water-Soluble Poly(p-phenylene ethynylene) with Meta Side Chains via Palladium/Norbornene Cooperative Catalysis. <b>2019</b> , 52, 1663-1670		8
512	Disassembly and tumor-targeting drug delivery of reduction-responsive degradable block copolymer nanoassemblies. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1554-1568	<b>1</b> .9	28
511	On Untethered, Dual Magneto- and Photoresponsive Liquid Crystal Bilayer Actuators Showing Bending and Rotating Motion. <b>2019</b> , 7, 1801604		21
510	Polymerization-Induced Self-Assembly Generating Vesicles with Adjustable pH-Responsive Release Performance. <b>2019</b> , 52, 1965-1975		36
509	Tuning Merocyanine Photoacid Structure to Enhance Solubility and Temporal Control: Application in Ring Opening Polymerization. <b>2019</b> , 3, 467-472		19
508	Stimuli-Responsive Graphene Oxide-Polymer Nanocomposites. <b>2019</b> , 27, 1061-1070		11
507	. 2019,		

506	Alkanethiol Molecular Barriers for Controlling Small Molecule Release Kinetics from a Microgel-Based Reservoir Device. <b>2019</b> , 11, 47446-47455	3
505	Cloud Point Driven Dynamics in Aqueous Solutions of Thermoresponsive Copolymers: Are They Akin to Criticality Driven Solution Dynamics?. <b>2019</b> , 123, 11042-11054	6
504	High-resolution label-free 3D mapping of extracellular pH of single living cells. <b>2019</b> , 10, 5610	31
503	The influence of pH, hydrolysis and degree of substitution on the temperature-sensitive properties of polyaspartamides. <b>2019</b> , 68, 88-93	7
502	ECyclodextrin modified electrospinning fibers with good regeneration for efficient temperature-enhanced adsorption of crystal violet. <b>2019</b> , 208, 486-494	26
501	Redox and pH responsive polymeric vesicles constructed from a water-soluble pillar[5]arene and a paraquat-containing block copolymer for rate-tunable controlled release. <b>2019</b> , 30, 202-214	8
500	Programmed Degradation of Hydrogels with a Double-Locked Domain. <b>2019</b> , 58, 2820-2825	5
499	Evidence, Manipulation, and Termination of pH 'Nanobuffering' for Quantitative Homogenous Scavenging of Monoclonal Antibodies. <b>2019</b> , 13, 1019-1028	10
498	pH-Sensitive Polymers as Dynamic Mediators of Barriers to Nucleic Acid Delivery. <b>2019</b> , 30, 350-365	15
497	Incorporation of cross-linked poly(AA-co-ACMO) copolymer with pH responsive and hydrophilic properties to polysulfone ultrafiltration membrane for the mitigation of fouling behaviour. <b>2019</b> , 572, 184-197	15
496	Programmed Degradation of Hydrogels with a Double-Locked Domain. <b>2019</b> , 131, 2846-2851	
495	High-Throughput Combinatorial Synthesis of Stimuli-Responsive Materials. <b>2019</b> , 3, e1800293	8
494	Recent Development of pH-Responsive Polymers for Cancer Nanomedicine. 2018, 24,	105
493	Application and Perspective of pH-Responsive Nano Drug Delivery Systems. <b>2019</b> , 15-33	5
492	Graphene oxide grafted poly(acrylic acid) synthesized via surface initiated RAFT as a pH-responsive additive for mixed matrix membrane. <b>2019</b> , 136, 47213	12
491	Lab-on-a-chip fabrication of polymeric microparticles for drug encapsulation and controlled release. <b>2019</b> , 217-280	1
490	Stimuli-responsive polymer wormlike micelles. <b>2019</b> , 89, 108-132	42
489	Vibrational Spectroscopy in Analysis of Stimuli-Responsive Polymer Water Systems. 2019, 223-271	

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488	Modification of glycidyl methacrylate based block copolymers and their aqueous solution behaviours. <b>2019</b> , 110, 364-377	7
487	Architecture-transformable polymers: Reshaping the future of stimuli-responsive polymers. <b>2019</b> , 89, 61-75	132
486	Liposomes incorporating cinnamoyl gelatin and cinnnamoyl alginate and their pH and UV-responsive release property. <b>2020</b> , 41, 62-71	3
485	An overview on antimicrobial and wound healing properties of ZnO nanobiofilms, hydrogels, and bionanocomposites based on cellulose, chitosan, and alginate polymers. <b>2020</b> , 227, 115349	121
484	A photoluminescent molecular host with aggregation-induced emission enhancement, multi-stimuli responsive properties and tunable photoluminescence host-guest interaction in the solid state. <b>2020</b> , 386, 112106	6
483	Reflections on the Evolution of Smart Polymers. <b>2020</b> , 60, 75-85	11
482	Stimuli-Responsive Hybridized Nanostructures. <b>2020</b> , 30, 1903439	22
481	Preparation and catalytic properties of modified PGMA-based pH-responsive hydrogel films as a novel template for in situ synthesis of Au, Ag, and Au:Ag nanoparticles. <b>2020</b> , 137, 48360	3
480	Advances in Controlled Oxygen Generating Biomaterials for Tissue Engineering and Regenerative Therapy. <b>2020</b> , 21, 56-72	31
479	Influence of vanillin acrylate and 4-acetylphenyl acrylate hydrophobic functional monomers on phase separation of N-isopropylacrylamide environmental terpolymer: fabrication and characterization. <b>2020</b> , 77, 2905-2922	7
478	Fluorouracil neutrophil extracellular traps formation inhibited by polymer nanoparticle shielding. <b>2020</b> , 108, 110382	10
477	Four-dimensional bioprinting: Current developments and applications in bone tissue engineering. <b>2020</b> , 101, 26-42	112
476	pH-Responsive Side Chains as a Tool to Control Aqueous Self-Assembly Mechanisms. <b>2020</b> , 26, 606-610	5
475	The preparation of pH and GSH dual responsive thiolated heparin/DOX complex and its application as drug carrier. <b>2020</b> , 230, 115592	10
474	pH-Sensitive micelles of adamantane-based random copolymer. <b>2020</b> , 260, 126889	
473	Fabrication of 3D and 4D polymer micro- and nanostructures based on electrospinning. <b>2020</b> , 191-229	2
472	pH-Responsive Copolymer Films Prepared by Surface-Initiated Polymerization and Simple Modification. <b>2020</b> , 36, 715-722	6
471	Reduced strain mechanochemical activation onset in microstructured materials. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 1122-1126	4

470	pH-dependent swelling and antibiotic release from citric acid crosslinked poly(vinyl alcohol) (PVA)/nano silver hydrogels. <b>2020</b> , 188, 110757	38
469	Next-Generation Biomaterials for Culture and Manipulation of Stem Cells. <b>2020</b> , 12,	5
468	Combined Experimental and Molecular Simulation Study of Insulin-Chitosan Complexation Driven by Electrostatic Interactions. <b>2020</b> , 60, 854-865	7
467	CO-Responsive Nano-Objects with Assembly-Related Aggregation-Induced Emission and Tunable Morphologies. <b>2020</b> , 12, 1348-1358	13
466	Tooth Regeneration: Insights from Tooth Development and Spatial-Temporal Control of Bioactive Drug Release. <b>2020</b> , 16, 41-55	13
465	Photomechanical Liquid Crystal Polymers and Bioinspired Soft Actuators. <b>2020</b> , 233-256	O
464	Dual physically and chemically cross-linked polyelectrolyte nanohydrogels: Compositional and pH-dependent behavior studies. <b>2020</b> , 122, 109398	7
463	Synthesis and characterization of (co)polymeric films obtained under atmospheric plasma conditions. <b>2020</b> , 264, 127062	1
462	A review of smart electrospun fibers toward textiles. <b>2020</b> , 22, 100506	50
461	Tailoring cellular microenvironments using scaffolds based on magnetically-responsive polymer brushes. <b>2020</b> , 8, 10172-10181	3
460	Lapatinib-loaded acidity-triggered charge switchable polycarbonate-doxorubicin conjugate micelles for synergistic breast cancer chemotherapy. <b>2020</b> , 118, 182-195	6
459	Bioresponsive drug delivery systems for the treatment of inflammatory diseases. <b>2020</b> , 327, 641-666	42
458	Carbon nanotube embedded cyclodextrin polymer derived injectable nanocarrier: A multiple faceted platform for stimulation of multi-drug resistance reversal. <b>2020</b> , 247, 116751	20
457	pH-Responsive charge switchable PEGylated Epoly-l-lysine polymeric nanoparticles-assisted combination therapy for improving breast cancer treatment. <b>2020</b> , 326, 350-364	36
456	Stimuli-Responsive Materials for Tissue Engineering and Drug Delivery. <b>2020</b> , 21,	40
455	Graft modification of starch nanoparticles with pH-responsive polymers via nitroxide-mediated polymerization. <b>2020</b> , 58, 2211-2220	3
454	Degradable and Resorbable Polymers. <b>2020</b> , 167-190	6
453	Recent Developments in Pathological pH-Responsive Polymeric Nanobiosensors for Cancer Theranostics. <b>2020</b> , 8, 601586	2

# (2020-2020)

452	Scaling Laws in the Diffusive Release of Neutral Cargo from Hollow Hydrogel Nanoparticles: Paclitaxel-Loaded Poly(4-vinylpyridine). <b>2020</b> , 14, 15227-15240	5
451	Preparation and properties of thermo- and pH-responsive polypeptide bearing OEG and aldehyde pendants. <b>2020</b> , 298, 1293-1302	5
450	Readily Adsorbable Thermoresponsive Polymers for the Preparation of Smart Cell-Culturing Surfaces on Site. <b>2020</b> , 6, 5337-5345	3
449	Ionotronics Based on Horizontally Aligned Carbon Nanotubes. <b>2020</b> , 30, 2003177	10
448	Designing, structural determination and biological effects of rifaximin loaded chitosan-carboxymethyl chitosan nanogel. <b>2020</b> , 248, 116782	23
447	Film-Forming Sprays for Topical Drug Delivery. <b>2020</b> , 14, 2909-2925	11
446	Smart Polymers for Advanced Applications: A Mechanical Perspective Review. <b>2020</b> , 7,	14
445	Charge-Dependent Microphase Separation in Thin Films from a Multiresponsive Pentablock Quaterpolymer: A GISAXS Investigation. <b>2020</b> , 53, 6255-6266	4
444	Enhancing delayed release characteristics of chapparada avare seed starch. 2020, 165, 1431-1437	1
443	Preparation of Responsive Zwitterionic Diblock Copolymers Containing Phosphate and Phosphonate Groups. <b>2020</b> , 28, 1134-1141	1
442	Synthesis and Characterization of Phenylalanine Nanotubes as Green pH-Responsive Drug Nanocarriers. <b>2020</b> , 5, 12570-12581	4
441	Functionalized fluorescent terephthalate monomers and their attempted polyester formation. <b>2020</b> , 18, 8735-8745	1
440	Developing a Functional Poly(dimethylsiloxane)-Based Microbial Nanoculture System Using Dimethylallylamine. <b>2020</b> , 12, 50581-50591	6
439	Recent Advances in Stimuli-Responsive Platforms for Cancer Immunotherapy. <b>2020</b> , 53, 2044-2054	39
438	Developments of Smart Drug-Delivery Systems Based on Magnetic Molecularly Imprinted Polymers for Targeted Cancer Therapy: A Short Review. <b>2020</b> , 12,	20
437	Interface Engineering in Multiphase Systems toward Synthetic Cells and Organelles: From Soft Matter Fundamentals to Biomedical Applications. <b>2020</b> , 32, e2002932	15
436	Direct Polymerization Approach to Synthesize Acid-Degradable Block Copolymers Bearing Imine Pendants for Tunable pH-Sensitivity and Enhanced Release. <b>2020</b> , 41, e2000394	2
435	Grafting with RAFT-gRAFT Strategies to Prepare Hybrid Nanocarriers with Core-shell Architecture. <b>2020</b> , 12,	6

434	Oxidative regulation of the mechanical strength of a C-S bond. <b>2020</b> , 11, 10444-10448	1
433	Multiple stimuli-switchable electrocatalysis and logic gates of rutin based on semi-interpenetrating polymer network hydrogel films. <b>2020</b> , 44, 16045-16053	1
432	Recent Achievements in Polymer Bio-Based Flocculants for Water Treatment. <b>2020</b> , 13,	41
431	Last-resort strategies during mask shortages: optimal design features of cloth masks and decontamination of disposable masks during the COVID-19 pandemic. <b>2020</b> , 7,	38
430	Tunable surface wettability and pH-responsive 2D structures from amphiphilic and amphoteric protein microfibrils <b>2020</b> , 10, 33033-33039	2
429	Surface-Charge-Switchable Nanoclusters for Magnetic Resonance Imaging-Guided and Glutathione Depletion-Enhanced Photodynamic Therapy. <b>2020</b> , 14, 11225-11237	47
428	A pH and UCST thermo-responsive tri-block copolymer (PAA-b-PDMA-b-P(AM-co-AN)) with micellization and gelatinization in aqueous media for drug release. <b>2020</b> , 44, 14551-14559	8
427	Development and evaluation of a pH-responsive and water-soluble drug delivery system based on smart polymer coating of graphene nanosheets: an study <b>2020</b> , 10, 31106-31114	6
426	Thermoresponsive Biodegradable Polymeric Materials for Biomedical Application. 2020, 159-172	1
425	Phosphorus Flame Retardants from Crop Plant Phenolic Acids. <b>2020</b> , 199-208	О
425 424	Phosphorus Flame Retardants from Crop Plant Phenolic Acids. <b>2020</b> , 199-208  Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. <b>2020</b> , 53, 11065-11076	6
424	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. <b>2020</b> , 53, 11065-11076	6
424 423	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. <b>2020</b> , 53, 11065-11076  Green Hydrogels Based on Starch: Preparation Methods for Biomedical Applications. <b>2020</b> , 173-196  60Co-induced grafting of dual polymer (acrylic acid-co-HEMA) onto expanded	3
424 423 422	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. 2020, 53, 11065-11076  Green Hydrogels Based on Starch: Preparation Methods for Biomedical Applications. 2020, 173-196  60Co-induced grafting of dual polymer (acrylic acid-co-HEMA) onto expanded poly(tetrafluoroethylene) membranes. 2020,	3
424 423 422 421	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. 2020, 53, 11065-11076  Green Hydrogels Based on Starch: Preparation Methods for Biomedical Applications. 2020, 173-196  60Co-induced grafting of dual polymer (acrylic acid-co-HEMA) onto expanded poly(tetrafluoroethylene) membranes. 2020,  CO-Responsive Water-Soluble Conjugated Polymers for and Biological Imaging. 2020, 21, 5282-5291  Theoretical Modeling of Chemical Equilibrium in Weak Polyelectrolyte Layers on Curved	6 3 1
424 423 422 421 420	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. 2020, 53, 11065-11076  Green Hydrogels Based on Starch: Preparation Methods for Biomedical Applications. 2020, 173-196  60Co-induced grafting of dual polymer (acrylic acid-co-HEMA) onto expanded poly(tetrafluoroethylene) membranes. 2020,  CO-Responsive Water-Soluble Conjugated Polymers for and Biological Imaging. 2020, 21, 5282-5291  Theoretical Modeling of Chemical Equilibrium in Weak Polyelectrolyte Layers on Curved Nanosystems. 2020, 12,  Poly(2-oxazoline)-based stimulus-responsive (Co)polymers: An overview of their design, solution	6 3 1 4

416	Preparation of Gas-Responsive Imprinting Hydrogel and Their Gas-Driven Switchable Affinity for Target Protein Recognition. <b>2020</b> , 12, 24363-24369	16
415	Reversible-deactivation radical polymerization of cyclic ketene acetals. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 352 <b>5</b> :35	45 <sub>14</sub>
414	Recent advances in celluloses and their hybrids for stimuli-responsive drug delivery. 2020, 158, 670-688	18
413	Facet-selective asymmetric functionalization of anisotropic gold nanoprisms for Janus particle synthesis. <b>2020</b> , 22, 1	3
412	Combinatorial Library of Cyclic Benzylidene Acetal-Containing pH-Responsive Lipidoid Nanoparticles for Intracellular mRNA Delivery. <b>2020</b> , 31, 1835-1843	4
411	Using Copolymers to Design Tunable Stimuli-Reponsive Brushes. <b>2020</b> , 53, 5326-5336	6
410	Swelling mechanism in smart polymers responsive to mechano-chemical stimuli. <b>2020</b> , 143, 104011	10
409	Supramolecular-covalent hybrid polymers for light-activated mechanical actuation. <b>2020</b> , 19, 900-909	78
408	Photo- and pH-Responsive Polycarbonate Block Copolymer Prodrug Nanomicelles for Controlled Release of Doxorubicin. <b>2020</b> , 20, e2000118	11
407	Lignin-based smart materials: a roadmap to processing and synthesis for current and future applications. <b>2020</b> , 7, 2237-2257	7º
406	Pore-selective modification of the honeycomb-patterned porous polystyrene film with poly(N-isopropylacrylamide) and application for thermo-responsive smart material. <b>2020</b> , 201, 122630	11
405	A nanoscale, biocompatible and amphiphilic prodrug of cabazitaxel with improved anticancer efficacy against 3D spheroids of prostate cancer cells. <b>2020</b> , 1, 738-748	8
404	Artificial Organic Skin Wets Its Surface by Field-Induced Liquid Secretion. <b>2020</b> , 3, 782-793	6
403	A novel stimuli-responsive and fouling resistant PVDF ultrafiltration membrane prepared by using amphiphilic copolymer of poly(vinylidene fluoride) and Poly(2-N-morpholino)ethyl methacrylate. <b>2020</b> , 603, 118047	16
402	Photodynamic Control of the Chain Length in Supramolecular Polymers: Switching an Intercalator into a Chain Capper. <b>2020</b> , 142, 6295-6303	28
401	L-proline functionalized pH-responsive copolymers as supported organocatalysts for asymmetric aldol reaction in water. <b>2020</b> , 150, 104544	4
400	Temperature-Responsive Poly(-Isopropylacrylamide) Nanogels: The Role of Hollow Cavities and Different Shell Cross-Linking Densities on Doxorubicin Loading and Release. <b>2020</b> , 36, 2683-2694	35
399	A Stimulus-Responsive Zinc-Iodine Battery with Smart Overcharge Self-Protection Function. <b>2020</b> , 32, e2000287	53

398	A Versatile Polymer-Based Platform for Intracellular Delivery of Macromolecules. <b>2020</b> , 3, 1900169		5
397	The Influence of Vanillin Acrylate Derivative on the Phase Separation Temperature of Environmental Photo-Cross-Linked N-isopropylacrylamide Copolymer and Hydrogel Thin Films. <b>2020</b> , 28, 2599-2615		4
396	Recent developments in stimuli-responsive poly(ionic liquid)s. <b>2020</b> , 27, 1		8
395	pH-Responsive Antibacterial Resin Adhesives for Secondary Caries Inhibition. <b>2020</b> , 99, 1368-1376		9
394	Confined Microenvironments from Thermoresponsive Dendronized Polymers. <b>2020</b> , 41, e2000325		12
393	PNIPAM-b-PDMAEA double stimuli responsive copolymers: Effects of composition, end groups and chemical modification on solution self-assembly. <b>2020</b> , 135, 109867		8
392	Multifunctional soft machines based on stimuli-responsive hydrogels: from freestanding hydrogels to smart integrated systems. <b>2020</b> , 8, 100088		32
391	Polymeric Nanocomposite-Based Agriculture Delivery System: Emerging Technology for Agriculture. <b>2020</b> ,		3
390	pH-Sensitive Nanomaterials for Smart Release of Drugs. <b>2020</b> , 17-41		
389	An in situ shearing x-ray measurement system for exploring structures and dynamics at the solid-liquid interface. <b>2020</b> , 91, 013908		2
388	Biomedical Applications of pH-Responsive Amphiphilic Polymer Nanoassemblies. <b>2020</b> , 3, 2104-2117		43
387	Aqueous solution behavior of stimulus-responsive poly(methacrylic acid)-poly(2-hydroxypropyl methacrylate) diblock copolymer nanoparticles. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2147-2156	4.9	16
386	pH-sensitive drug delivery systems. <b>2020</b> , 259-278		5
385	Synthesis, characterization and swelling performance of a temperature/pH-sensitive Ecarrageenan graft copolymer. <b>2020</b> , 152, 359-370		12
384	Switchable Antimicrobial and Antifouling Coatings from Tannic Acid-Scaffolded Binary Polymer Brushes. <b>2020</b> , 8, 2586-2595		25
383	. 2020,		10
382	Synthesis of spiropyran with methacrylate at the benzopyran moiety and control of the water repellency and cell adhesion of its polymer film. <b>2020</b> , 8, 1489-1495		7
381	pH-Dependent thermoresponsive poly[2-(diethylamino)ethyl acrylamide]-grafted PVDF membranes with switchable wettability for efficient emulsion separation. <b>2020</b> , 137, 49032		8

380	Modification of cellulose nanocrystal with dual temperature- and CO2-responsive block copolymers for ion adsorption applications. <b>2020</b> , 310, 113234		17
379	Development and disassembly of single and multiple acid-cleavable block copolymer nanoassemblies for drug delivery. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2934-2954	4.9	20
378	Synthesis, thermoresponsivity and multi-tunable hierarchical self-assembly of multi-responsive (AB)mC miktobrush-coil terpolymers. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 3003-3017	4.9	9
377	Kinetic analysis of pH influence on the fluorescein release from chitosan-coated mesoporous silica nanoparticles. <b>2020</b> , 27, 1077-1086		O
376	Biosignal-responsive polymer nanorods that specifically recognize hydrogen polysulfide (H2Sn) from reactive sulfur species. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2781-2785	4.9	
375	Bioresponsive Nanomedicine: The Next Step of Deadliest Cancers' Theranostics. <b>2020</b> , 8, 257		3
374	Microwave Characterization of Chitosan Hydrogel and Its Use as a Wireless pH Sensor in Smart Packaging Applications. <b>2020</b> , 20, 8990-8996		14
373	Mucoadhesive formulations: innovations, merits, drawbacks, and future outlook. <b>2020</b> , 25, 797-814		12
372	Self-Organization Processes in Poly(N-[2-(diethylamino)ethyl]acrylamide) Buffer Solutions with Change in Concentration and pH of a Medium. <b>2020</b> , 62, 24-31		1
371	Targeted delivery of methotrexate using a new PEGylated magnetic/gold nanoplatform covered with pH-responsive shell. <b>2021</b> , 70, 636-645		О
370	Halochromic Composite Materials. <b>2021</b> , 420-428		
369	Uncovering the relationship between the structure and acid-base properties for hyperbranched polyester-polyols self-assembled on carbon surfaces. <b>2021</b> , 880, 114819		1
368	Polymers for enhanced photodynamic cancer therapy: Phthalocyanines as a photosensitzer model. <b>2021</b> , 32, 919-930		3
367	Self-Assembled Block Copolymer Nanoaggregates for Drug Delivery Applications. <b>2021</b> , 423-447		3
366	Effect of Hydrophilic Monomer Distribution on Self-Assembly of a pH-Responsive Copolymer: Spheres, Worms and Vesicles from a Single Copolymer Composition. <b>2021</b> , 60, 4925-4930		19
365	Stimuli-responsive natural gums-based drug delivery systems for cancer treatment. <b>2021</b> , 254, 117422		9
364	Stimuli-responsive glycopolymers and their biological applications. <b>2021</b> , 142, 110147		4
363	Functional Dyes in Polymeric 3D Printing: Applications and Perspectives. <b>2021</b> , 3, 1-17		18

362	Smart polymeric nanostructures for targeted delivery of therapeutics. <b>2021</b> , 58, 269-284	3
361	A mathematical model for pH-responsive ionically crosslinked TEMPO nanocellulose hydrogel design in drug delivery systems. <b>2021</b> , 168, 695-707	13
360	Einfluss der Verteilung hydrophiler Monomere auf die Selbstassemblierung eines pH-responsiven Copolymers: Kugeln, Wilmer und Vesikel aus einer einzigen Copolymerkomposition. <b>2021</b> , 133, 4975-4981	
359	Targeted delivery, drug release strategies, and toxicity study of polymeric drug nanocarriers. <b>2021</b> , 32, 931-944	3
358	Application of stimuli-responsive materials for extraction purposes. <b>2021</b> , 1636, 461764	1
357	Prevent or Cure-The Unprecedented Need for Self-Reporting Materials. <b>2021</b> , 60, 17290-17313	9
356	Vorbeugen oder Heilen Idie beispiellose Notwendigkeit von selbstberichtenden Materialien. <b>2021</b> , 133, 17430-17454	
355	Materials, Actuators, and Sensors for Soft Bioinspired Robots. <b>2021</b> , 33, e2003139	66
354	Using reactive dissipative particle dynamics to understand local shape manipulation of polymer vesicles. <b>2021</b> , 17, 24-39	3
353	5-Boronopicolinic acid-functionalized polymeric nanoparticles for targeting drug delivery and enhanced tumor therapy. <b>2021</b> , 119, 111553	6
352	pH-sensitive molecularly imprinted polymer based on graphene oxide for stimuli actuated controlled release of curcumin. <b>2021</b> , 857, 157603	6
351	Multi-stimuli-responsive aggregation of nanoparticles driven by the manipulation of colloidal stability. <b>2021</b> , 13, 7879-7896	15
350	Tunable Hydrogels: Introduction to the World of Smart Materials for Biomedical Applications. <b>2021</b> , 178, 1-35	О
349	Engineering of pH-triggered nanoplatforms based on novel poly(2-methyl-2-oxazoline)-b-poly[2-(diisopropylamino)ethyl methacrylate] diblock copolymers 4.9 with tunable morphologies for biomedical applications. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2868-2880	О
348	A dual-functional biomimetic-mineralized nanoplatform for glucose detection and therapy with cancer cells. <b>2021</b> , 9, 3885-3891	2
347	Nanotheranostics in epilepsy: A perspective for multimodal diagnosis and strategic management. <b>2021</b> , 2, 1277-1290	2
346	Stimuli-responsive Hybrid Polymeric Nanoparticles for Targeted Drug Delivery. <b>2021</b> , 57-81	
345	Soft microrobotics. <b>2021</b> , 57, 1-44	1

344	Conformational transitions of adsorption-responsive single diblock copolymers in homopolymer brushes. <b>2021</b> , 17, 2410-2420		2
343	Phenylboronic acid-based core-shell drug delivery platform clasping 1,3-dicarbonyl compounds by a coordinate interaction. <b>2021</b> , 9, 6851-6864		1
342	Hybrid Nanosystems for Biomedical Applications. <b>2021</b> , 15, 2099-2142		43
341	Temperature- and pH-responsive poly(-isopropylacrylamidemethacrylic acid) microgels as a carrier for controlled protein adsorption and release. <b>2021</b> , 17, 9595-9606		1
340	pH-Responsive "Smart" Hydrogel for Controlled Delivery of Silver Nanoparticles to Infected Wounds. <b>2021</b> , 10,		27
339	Fully Recyclable Polycarbonates from Simple, Bio-Derived Building Blocks. <b>2021</b> , 3, 730-736		2
338	Recent developments in selenium-containing polymeric micelles: prospective stimuli, drug-release behaviors, and intrinsic anticancer activity. <b>2021</b> , 9, 6770-6801		6
337	Effects of Hydrophobic Modifications on the Solution Self-Assembly of P(DMAEMA-co-QDMAEMA)POEGMA Random Diblock Copolymers. <b>2021</b> , 13,		5
336	Recent advances in the synthesis of smart hydrogels. <b>2021</b> , 2, 4532-4573		17
335	Thermo-responsive cotton fabric prepared by enzyme-initiated graft frompolymerization for moisture/thermal management. <b>2021</b> , 28, 1795-1808		3
334	Regulation of oligonucleotide adsorption by a thermo and pH dual-responsive copolymer layer. <b>2021</b> , 23, 14296-14307		2
333	Use of Lipids, Polymers, and Peptides for Drug Delivery and Targeting to Cancer Cells or Specific Organs. <b>2021</b> , 276-289		
332	Hydrogels: Biomaterials for Sustained and Localized Drug Delivery. <b>2021</b> , 211-252		
331	Bioresponsive nano-theranostic approaches for cancer targeting. <b>2021</b> , 409-413		
330	Fabrication of thermoresponsive magnetic micelles from amphiphilic poly(phenyl isocyanide) and Fe3O4 nanoparticles for controlled drug release and synergistic thermochemotherapy. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2132-2140	4.9	6
329	Core-crosslinked, temperature- and pH-responsive micelles: design, physicochemical characterization, and gene delivery application. <b>2021</b> , 13, 19412-19429		2
328	Investigation of Actuation-Size Effects in pH-Responsive Polymer Artificial Muscles. 2021,		
327	Smart biopolymers for controlled drug delivery applications. <b>2021</b> , 53-83		

Development of lignin-based nanoparticles: fabrication methods and functionalization approaches. **2021**, 227-270

325	Smart polymer composites in drug delivery. <b>2021</b> , 261-294	O
324	Molecular understanding of the LCST phase behaviour of P(MEO2MA-b-OEGMA) block copolymers. 1-7	
323	In situ poly I:C released from living cell drug nanocarriers for macrophage-mediated antitumor immunotherapy. <b>2021</b> , 269, 120670	6
322	Optical properties of solute molecules: Environmental effects, challenges, and their practical implications. <b>2021</b> , 161, 105797	2
321	Multifaceted pH and Temperature Induced Self-Assembly of P(DMAEMA-co-LMA)-b-POEGMA Terpolymers and Their Cationic Analogues in Aqueous Media. <b>2021</b> , 222, 2000358	6
320	pH-sensitive polymers: Classification and some fine potential applications. <b>2021</b> , 32, 1455-1484	35
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281	Natural Origin Biomaterials for 4D Bioprinting Tissue-Like Constructs. <b>2021</b> , 6, 2100168  ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. <b>2021</b> , 14,	10
280	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. <b>2021</b> , 14,	10
280 279	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. <b>2021</b> , 14,  Smart gating porous particles as new carriers for drug delivery. <b>2021</b> , 174, 425-446  Adaptive Nanoparticle-Polymer Complexes as Optical Elements: Design and Application in	10
280 279 278	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. 2021, 14,  Smart gating porous particles as new carriers for drug delivery. 2021, 174, 425-446  Adaptive Nanoparticle-Polymer Complexes as Optical Elements: Design and Application in Nanophotonics and Nanomedicine. 2021, 15, 2000421  Correlation between Protonation of Tailor-Made Polypiperazines and Endosomal Escape for	10
280 279 278 277	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. 2021, 14,  Smart gating porous particles as new carriers for drug delivery. 2021, 174, 425-446  Adaptive Nanoparticle-Polymer Complexes as Optical Elements: Design and Application in Nanophotonics and Nanomedicine. 2021, 15, 2000421  Correlation between Protonation of Tailor-Made Polypiperazines and Endosomal Escape for Cytosolic Protein Delivery. 2021, 13, 35233-35247  Tuning the Cloud-Point and Flocculation Temperature of Poly(2-(diethylamino)ethyl	10 10 3 3
280 279 278 277 276	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. 2021, 14,  Smart gating porous particles as new carriers for drug delivery. 2021, 174, 425-446  Adaptive Nanoparticle-Polymer Complexes as Optical Elements: Design and Application in Nanophotonics and Nanomedicine. 2021, 15, 2000421  Correlation between Protonation of Tailor-Made Polypiperazines and Endosomal Escape for Cytosolic Protein Delivery. 2021, 13, 35233-35247  Tuning the Cloud-Point and Flocculation Temperature of Poly(2-(diethylamino)ethyl methacrylate)-Based Nanoparticles via a Postpolymerization Betainization Approach. 2021, 1, 47-58  Specially Designed Polyaniline/Polypyrrole Ink for a Fully Printed Highly Sensitive pH Microsensor.	10 10 3 3

272	Two-in-One Dual-Channel Boronic Ester Block Copolymer for the Colorimetric Detection of Cysteine and Glucose at Neutral pH. <b>2021</b> , 9, 9915-9922	4
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258	pH-sensitive nanocarriers for curcumin delivery in cancer therapy. <b>2021</b> , 66, 102879  Breaking Isolation to Form New Networks: pH-Triggered Changes in Connectivity inside Lipid	0

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252	Smart Covalent Organic Frameworks as a dual-role material for light-controlled colorimetric pH detection and efficiency removal of pollutants in water treatment. <b>2021</b> , 132353	О
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250	pH-responsive antibacterial film based polyvinyl alcohol/poly (acrylic acid) incorporated with aminoethyl-phloretin and application to pork preservation. <b>2021</b> , 147, 110532	1
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248	Smart materials for remediation of aqueous environmental contaminants. <b>2021</b> , 9, 106486	2
247	Bending of hard-magnetic soft beams: A finite elasticity approach with anticlastic bending. <b>2021</b> , 90, 104374	5
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245	Modification of cotton gauzes with poly(acrylic acid) and poly(methacrylic acid) using gamma radiation for drug loading studies. <b>2022</b> , 190, 109787	5
244	Superparamagnetic iron oxide nanoparticles functionalized with a binary alkoxysilane array and poly(4-vinylpyridine) for magnetic targeting and pH-responsive release of doxorubicin. <b>2021</b> , 45, 3600-3609	2
243	A novel method for DNA delivery into bacteria using cationic copolymers. <b>2021</b> , 54, e10743	Ο
242	Self-assembly of dual-responsive amphiphilic POEGMA-b-P4VP-b-POEGMA triblock copolymers: effect of temperature, pH, and complexation with Cu2+. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 4668-4679	1
241	pH-Responsive expandable polycarbonatedoxorubicin conjugate nanoparticles for fast intracellular drug release. <b>2021</b> , 45, 7261-7269	O
240	Vaginal Nano-Based Drug Delivery System. <b>2021</b> , 357-377	1
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238	Combining CROP and ATRP to synthesize pH-responsive poly(2-ethyl-2-oxazoline-b-4-vinylpyridine) block copolymers. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 4680-4695	1
237	Adamantane Functionalized Poly(2-oxazoline)s with Broadly Tunable LCST-Behavior by Molecular Recognition. <b>2021</b> , 13,	3

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234	PDEGMA-b-PDIPAEMA copolymers via RAFT polymerization and their pH and thermoresponsive schizophrenic self-assembly in aqueous media. <b>2020</b> , 58, 1867-1880	5
233	Nanopesticides: From the Bench to the Market. <b>2020</b> , 317-348	2
232	The mutual effect of the crosslinker and biopolymer concentration on the desired hydrogel properties. <b>2020</b> , 159, 557-569	12
231	Sustainability and Green Polymer ChemistryAn Overview. <b>2020</b> , 1-11	2
230	Sustainable Photo-curable Polymers in Additive Manufacturing Arena: A Review. 2020, 89-98	1
229	CHAPTER 3:pH-responsive Drug Delivery Systems. 51-82	2
228	Synthesis and properties of pH-cleavable toothbrush-like copolymers comprising multi-reactive Y junctions and a linear or cyclic backbone. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2098-2109	5
227	Hydrogels as artificial matrices for cell seeding in microfluidic devices <b>2020</b> , 10, 43682-43703	23
226	Pseudo-Gemini Biosurfactants with CO2 Switchability for Enhanced Oil Recovery (EOR). <b>2019</b> , 56, 407-416	4
225	Recent Advances in Nanomicelles Delivery Systems. <b>2020</b> , 11,	21
224	Amphiphilic Molecular Brushes with Regular Polydimethylsiloxane Backbone and Poly-2-isopropyl-2-oxazoline Side Chains. 2. Self-Organization in Aqueous Solutions on Heating. <b>2020</b> , 13,	3
223	Folic Acid-Terminated Poly(2-Diethyl Amino Ethyl Methacrylate) Brush-Gated Magnetic Mesoporous Nanoparticles as a Smart Drug Delivery System. <b>2020</b> , 13,	18
222	Preparation and Characterization of Environmental Functional Poly(Styrene-<i>Co</i>-2-[(Diethylamino)Methyl]- 4-Formyl-6-Methoxy-Phenyl Acrylate) Copolymers for Amino Acid Post Polymerization. <b>2018</b> , 08, 41-55	6
221	Temperature and pH responsive polymers: sensing applications. 1-29	4
220	An Insight of Skeletal Networks Analysis for Smart Hydrogels. 2108489	1
219	Methacrylated alkali lignin grafted P(Nipam-Co-AAc) copolymeric hydrogels: Tuning the mechanical and stimuli-responsive properties. <b>2021</b> , 192, 180-196	2

218	Pulsed plasma surface modified omeprazole microparticles for delayed release application. <b>2021</b> , 66, 102905	О
217	The influence of the molecular structure of copolymers Dextran-poly-N-isopropylacrylamide on conformational transition characteristics. <b>2017</b> , 39, 122-128	
216	Chapter 10:Smart Microcapsule Membranes for Controlled Release. <b>2019</b> , 255-296	
215	Research Progress of Stimuli-Sensitive Polymer Carriers for Anti-Tumor Drug Delivery. <b>2019</b> , 08, 65-73	
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212	Nature-Inspired Resins for Additive Manufacturing. <b>2020</b> , 69-88	1
211	Hylozoic by Design: Converging Material and Biological Complexities for Cell-Driven Living Materials with 4D Behaviors. 2108057	O
210	Smart and Biomimetic 3D and 4D Printed Composite Hydrogels: Opportunities for Different Biomedical Applications. <b>2021</b> , 9,	10
209	A multi-stimuli-responsive tetraphenylethene derivative with high fluorescent emission in solid state. <b>2021</b> , 109909	2
208	Tumor-Responsive Drug Release Strategies. <b>2020</b> , 57-86	
207	Bioreducible and pH-responsive shell crosslinked polymeric micelles from a star-shaped terpolymer as drug delivery system. 1-12	2
206	Novel chitosan-based strategies for insulin nanoencapsulation. <b>2022</b> , 461-500	
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194	Organic/Inorganic Self-Assembled Hybrid Nano-Architectures for Cancer Therapy Applications. <b>2021</b> , e2100349	4
193	Functionalized Poly(-isopropylacrylamide)-Based Microgels in Tumor Targeting and Drug Delivery. <b>2021</b> , 7,	2
192	pH and thermoresponsive comb-type grafted hydrogels based on polyethylene glycol diglycidyl ether and monoamino/diamino terminated jeffamines: synthesis, characterization and physicochemical properties. <b>2020</b> , 41, 690-698	
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182	Multi-tunable aggregation behaviors of thermo/pH-responsive toothbrush-like and jellyfish-like copolymers. <i>Polymer Chemistry</i> ,	4.9	O
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118	Stimuli-Responsive Thiomorpholine Oxide-Derived Polymers with Tailored Hydrophilicity and Hemocompatible Properties. <b>2022</b> , 27, 4233	О
117	Comprehensive study of the phase transition temperature of poly (NIPAAm-co-DEAMCA-co-VA) terpolymers, post-serine and valine: thermal/pH and Hofmeister anions.	O
116	Stimuli-responsive hybrid metal nanocomposite 🖪 promising technology for effective anticancer therapy. <b>2022</b> , 624, 121966	
115	Role of molecularly imprinted hydrogels in drug delivery - A current perspective. 2022, 121883	1
114	Chapter 5. Monitoring Interfaces of Thermo- and pH-responsive Polymers Using Solvent Relaxation. <b>2022</b> , 122-141	
113	pH-responsive nanomedicine for breast cancer targeting. <b>2022</b> , 335-349	
112	AcidBase responsive photoluminescence switching of CdSe/ZnS quantum dots coupled to plasmonic gold film using nanometer-thick poly[(2-diethylamino)ethyl methacrylate] layer.	О
111	Poly(2-(dimethylamino) ethyl methacrylate)- b -poly(lauryl methacrylate)- b -poly(oligo ethylene glycol methacrylate) triblock terpolymer micelles as drug delivery carriers for curcumin.	О

110	Toward Targeted Invasive Predator Control: Developing pH-Responsive Subcutaneous Implants for Native Mammals.	2
109	Construction of pH-sensitive sodium alginates/sodium carboxymethyl cellulose/zeolite P composite hydrogel microspheres loaded with potassium diformate. 1-19	
108	Immunostimulatory Polymers as Adjuvants, Immunotherapies, and Delivery Systems. 2022, 55, 6913-6937	1
107	Self-assembling Peptides with Internal Ionizable Unnatural Amino Acids: A New and General Approach to pH-responsive Peptide Materials.	
106	Polyelectrolyte Hydrogels for Tissue Engineering and Regenerative Medicine.	1
105	Design of soft matter for additive processing. <b>2022</b> , 1, 592-600	O
104	Polyoxazoline: A review article from polymerization to smart behaviors and biomedical applications. <b>2022</b> , 178, 111484	5
103	Fabrication of carboxyalkylated lignin derived microgels for adsorbing heavy metals. <b>2022</b> , 187, 115482	O
102	Pain and nociception bioinspiration for the development of a micellar-based screening test for antinociceptive drugs. <b>2022</b> , 365, 120101	
101	Current advanced drug delivery systems: Challenges and potentialities. <b>2022</b> , 76, 103727	1
100	Removal of anionic and cationic dyes from aqueous solution using thermo- and pH-responsive amphiphilic copolymers. <b>2022</b> , 49, 103107	1
99	Dual-responsive polymeric micelles for drug delivery. <b>2022</b> , 429-447	O
98	In situ preparation of glyco-micromotors and their bacteria loading/guiding ability. <b>2022</b> , 58, 10965-10968	О
97	Synthesis of multiple stimuli-responsive degradable block copolymers via facile carbonyl imidazole-induced postpolymerization modification. <b>2022</b> , 13, 4557-4568	1
96	Stimuli-responsive delivery strategies for controllable gene editing in tumor therapeutics. <b>2022</b> , 10, 7694-770	<b>)7</b> 0
95	Interaction between two polyelectrolytes in monovalent aqueous salt solutions. <b>2022</b> , 24, 21112-21121	O
94	Self-assembly micelles with pH/ROS dual responsive and mitochondrial targeting for potential anti-tumor.	1
93	Controlling the pH-response of branched copolymer nanoprecipitates synthesised by transfer-dominated branching radical telomerisation (TBRT) through telogen chemistry and spatial distribution of tertiary amine functionality. <b>2022</b> , 4, 4051-4058	O

92	Using PolymerBurfactant Charge Ratio to Control Synergistic Flocculation of Anionic Particulate Dispersions. <b>2022</b> , 14, 3504	О
91	Current Advances in Nano-Based and Polymeric Stimuli-Responsive Drug Delivery Targeting the Ocular Microenvironment: A Review and Envisaged Future Perspectives. <b>2022</b> , 14, 3580	O
90	Saltwater-responsive bubble artificial muscles using superabsorbent polymers. 9,	О
89	Temperature- and pH-Responsive Polymeric Photocatalysts for Enhanced Control and Recovery.	О
88	Switchable aqueous catalytic systems for organic transformations. <b>2022</b> , 5,	О
87	Temperature- and pH-Responsive Polymeric Photocatalysts for Enhanced Control and Recovery.	O
86	On the Preparation of Thin Films of Stearyl Methacrylate Directly Photo-polymerized at the Air Water Interface. <b>2022</b> , 38, 11658-11665	О
85	Emulsion confined block copolymer self-assembly: Recent progress and prospect.	О
84	Review of gel systems for CO2 geological storage leakage and conformance control for enhanced oil recovery: Mechanisms, recent advances, and future perspectives. <b>2022</b> , 111110	1
83	The clinical significance of 4D printing. <b>2022</b> , 103391	1
83	The clinical significance of 4D printing. <b>2022</b> , 103391  Water treatment using stimuli-responsive polymers. <b>2022</b> , 13, 5940-5964	1
82	Water treatment using stimuli-responsive polymers. <b>2022</b> , 13, 5940-5964  GE11 peptide-decorated acidity-responsive micelles for improved drug delivery and enhanced	1
82	Water treatment using stimuli-responsive polymers. 2022, 13, 5940-5964  GE11 peptide-decorated acidity-responsive micelles for improved drug delivery and enhanced combination therapy of metastatic breast cancer.  Newly Designed Acrylamide Derivative-based pH-responsive Hydrogel-Urease Bioconjugates:	1 O
82 81 80	Water treatment using stimuli-responsive polymers. 2022, 13, 5940-5964  GE11 peptide-decorated acidity-responsive micelles for improved drug delivery and enhanced combination therapy of metastatic breast cancer.  Newly Designed Acrylamide Derivative-based pH-responsive Hydrogel-Urease Bioconjugates: Synthesis and Catalytic Urea Hydrolysis.  Elastomeric, bioadhesive and pH-responsive amphiphilic copolymers based on direct crosslinking of	1 O
82 81 80	Water treatment using stimuli-responsive polymers. 2022, 13, 5940-5964  GE11 peptide-decorated acidity-responsive micelles for improved drug delivery and enhanced combination therapy of metastatic breast cancer.  Newly Designed Acrylamide Derivative-based pH-responsive Hydrogel-Urease Bioconjugates: Synthesis and Catalytic Urea Hydrolysis.  Elastomeric, bioadhesive and pH-responsive amphiphilic copolymers based on direct crosslinking of poly(glycerol sebacate)-co-polyethylene glycol.  Analysis of kinetic release of dye from the temperature-sensitive poly(N-isopropylacrylamide)	1 0 0
82 81 80 79 78	Water treatment using stimuli-responsive polymers. 2022, 13, 5940-5964  GE11 peptide-decorated acidity-responsive micelles for improved drug delivery and enhanced combination therapy of metastatic breast cancer.  Newly Designed Acrylamide Derivative-based pH-responsive Hydrogel-Urease Bioconjugates: Synthesis and Catalytic Urea Hydrolysis.  Elastomeric, bioadhesive and pH-responsive amphiphilic copolymers based on direct crosslinking of poly(glycerol sebacate)-co-polyethylene glycol.  Analysis of kinetic release of dye from the temperature-sensitive poly(N-isopropylacrylamide) functionalized porous polystyrene film.	1 OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO

74	Phase Behavior of Ion-Containing Polymers in Polar Solvents: Predictions from a Liquid-State Theory with Local Short-Range Interactions. <b>2022</b> , 14, 4421	О
73	Enhanced Delivery of Insulin through Acrylamide-Modified Chitosan Containing Smart Carrier System. <b>2022</b> , 8, 701	1
72	Hybrid nanofibers opportunities and frontiers [A review. <b>2022</b> , 10, 108850	1
71	Unexpected luminescence of non-conjugated biomass-based polymers: new approach in photothermal imaging.	O
70	Surface antimicrobial functionalization with polymers: fabrication, mechanisms and applications.	О
69	Amphiphilic Block Copolymers: Their Structures, and Self-Assembly to Polymeric Micelles and Polymersomes as Drug Delivery Vehicles. <b>2022</b> , 14, 4702	7
68	Smart Nano-switch with Flexible Modulation of Ion Transport Using Multiple Environmental Stimuli.	О
67	Microfluidic preparation of composite hydrogel microparticles for the staining of microalgal cells. <b>2022</b> , 113026	o
66	Recent advances in dual- and multi-responsive nanomedicines for precision cancer therapy. <b>2022</b> , 291, 121906	1
65	Bio-nanocomposites as food packaging materials; the main production techniques and analytical parameters. <b>2022</b> , 310, 102806	1
64	Engineering Functional Natural Polymer Based Nanocomposite Hydrogels for Wound Healing.	1
63	Thermoresponsive Block Copolymer CoreBhell Nanoparticles with Tunable Flow Behavior in Porous Media.	O
62	Bioplastic-Based Nanocomposites for Smart Materials. <b>2023</b> , 457-470	О
61	Introduction to smart polymers and their application. <b>2023</b> , 1-46	O
60	Engineered extracellular vesicles as drug delivery systems for the next generation of nanomedicine. <b>2023</b> , 105-128	О
59	From Static to Active Photoluminescence Tuning: Functional Spacer Materials for Plasmon-Fluorophore Interactions.	0
58	Strain-triggered acidification in a double-network hydrogel enabled by multi-functional transduction of molecular mechanochemistry.	1
57	In situ investigation of catalytic interfaces by scanning probe microscopy under electrochemical conditions. <b>2023</b> ,	O

56	Smart dental materials for antimicrobial applications. <b>2023</b> , 24, 1-19	1
55	Reversible electrospun fibers containing spiropyran for acid and base vapor sensing.	O
54	4D Printing in Biomedical Engineering: a State-of-the-Art Review of Technologies, Biomaterials, and Application.	0
53	Alginate-Derivative Encapsulated Carbon Coated Manganese-Ferrite Nanodots for Multimodal Medical Imaging. <b>2022</b> , 14, 2550	O
52	The Coming of Age of Neodymium: Redefining Its Role in Rare Earth Doped Nanoparticles.	O
51	Engineering the Nonmorphing Point of Actuation for Controlled Drug Release by Hydrogel Bilayer across the pH Spectrum. <b>2022</b> , 14, 56321-56330	O
50	Polysaccharides-Based Injectable Hydrogels: Preparation, Characteristics, and Biomedical Applications. <b>2022</b> , 6, 78	O
49	Multifunctional Liquid Crystal Polymer Networks: Azobenzene-Based Monoacrylate Molecules Impart a Photothermal Effect to Polymer Networks.	O
48	Polymeric Biomaterials for Topical Drug Delivery in the Oral Cavity: Advances on Devices and Manufacturing Technologies. <b>2023</b> , 15, 12	O
47	Multiresponsive Dielectric Metasurfaces Based on Dual Light- and Temperature-Responsive Copolymers. 2202187	O
46	Preparation and characterization of cross-linked poly (vinyl alcohol-co-methyl methacrylate) colloidal nanoparticles from hydrolysis of poly (vinyl acetate-co-methyl methacrylate) as a promising cancer drug delivery system. 1-16	0
45	Intracellular pH Sensor Based on Heteroleptic Bis-Cyclometalated Iridium(III) Complex Embedded into Block-Copolymer Nanospecies: Application in Phosphorescence Lifetime Imaging Microscopy. 2212390	1
44	Breathable Lignin Nanoparticles as Reversible Gas Swellable Nanoreactors. 2205672	О
43	pH-Responsive Metal©rganic Framework Thin Film for Drug Delivery. <b>2022</b> , 38, 16014-16023	O
42	pH-triggered cancer-targeting polymers: From extracellular accumulation to intracellular release.	О
41	Modeling and control of ionic polymer metal composite actuators: A review. <b>2023</b> , 111821	O
40	Synthesis of pH-responsive polyzwitterions for activated cellular uptake and tumor accumulation of gold nanoparticles at tumorous acidity.	0
39	Smart delivery systems for microbial biofilm therapy: Dissecting design, drug release and toxicological features. <b>2023</b> , 354, 394-416	O

38	Pseudo hydrophobically associative polymer with CO2-switchable viscosity. 2023, 372, 121170	0
37	Smart biomaterials for skin tissue engineering and health monitoring. <b>2023</b> , 211-258	О
36	Smart polymers for biomedical applications. <b>2023</b> , 223-246	0
35	Methods of nanoencapsulation of phytochemicals using organic platforms. <b>2023</b> , 123-184	O
34	Clinical Trials and Regulatory Issues of Natural Polymers Employed in Respiratory Disease. <b>2023</b> , 407-424	0
33	Antibacterial piperazine-derived quaternized copolyesters with controlled degradability.	О
32	Precipitation polymerization. <b>2023</b> , 121-139	0
31	Efficient Transfection via an Unexpected Mechanism by Near Neutral Polypiperazines with Tailored Response to Endosomal pH. 2200517	О
30	End-group controlling aqueous solution properties in star-shaped poly(2-hydroxyethyl acrylate) and poly(2-hydroxyethyl acrylate)- b -poly( N -isopropylacrylamide) polymers.	0
29	Stimuli-responsive structureproperty switchable polymer materials.	O
28	Smart Triboelectric Nanogenerators Based on Stimulus-Response Materials: From Intelligent Applications to Self-Powered Systems. <b>2023</b> , 13, 1316	0
27	pH-Sensitive Degradable Oxalic Acid Crosslinked Hyperbranched Polyglycerol Hydrogel for Controlled Drug Release. <b>2023</b> , 15, 1795	O
26	Fast-release kinetics of a pH-responsive polymer detected by dynamic contact angles. <b>2023</b> , 158, 144901	0
25	Novel bioactive dental restorations to inhibit secondary caries in enamel and dentin under oral biofilms. <b>2023</b> , 133, 104497	O
24	Polymer brush structures functionalized with molecular beacon for point-of-care diagnostics. <b>2023</b> , 19, 100184	0
23	The pH-induced physical properties of ionic contact lens material. <b>2023</b> , 9, e12996	O
22	Polymeric Membranes for Biomedical Applications. <b>2023</b> , 15, 619	2
21	Surfactant and Block Copolymer Nanostructures: From Design and Development to Nanomedicine Preclinical Studies. <b>2023</b> , 15, 501	О

20	Bio-inspired hierarchical structure of polyaniline in the pore surface of polymer film through interfacial polymerization as a smart material sensitive to pH. <b>2023</b> , 187, 111893	o
19	Donor Ecceptor Stenhouse adduct functionalised polymer microspheres. 2023, 14, 1456-1468	О
18	Maleic acid as an important monomer in synthesis of stimuli-responsive poly(acrylic acid-co-acrylamide-co-maleic acid) superabsorbent polymer. <b>2023</b> , 13,	0
17	Amidation of methyl ester-functionalised poly(2-oxazoline)s as a powerful tool to create dual pH-and temperature-responsive polymers as potential drug delivery systems.	O
16	Current Standing on Radical Ring-Opening Polymerizations of Cyclic Ketene Acetals as Homopolymers and Copolymers with one another. 2200941	0
15	Polyacrylamide Hydrogel Enriched with Amber for In Vitro Plant Rooting. <b>2023</b> , 12, 1196	O
14	Potential Approaches for Delivery of Surface Decorated Nano-carriers in the Management of Carcinoma. <b>2023</b> , 64-105	O
13	Molecular Orientation of Carboxylate Anions at the WaterAir Interface Studied with Heterodyne-Detected Vibrational Sum-Frequency Generation.	O
12	Glucose-Responsive Materials: Properties, Design, and Applications. 231-249	0
11	Driving Polymer Brushes from Synthesis to Functioning.	o
10	Driving Polymer Brushes from Synthesis to Functioning.	0
9	The effect of side chain spacer length on the thermoresponsive behaviour of poly(methylamide acrylate)s.	0
8	pH-responsive DMAEM Monomer for dental caries inhibition. <b>2023</b> ,	
		О
7	Injectable Colloidal Hydrogels of N-Vinylformamide Microgels Dispersed in Covalently Interlinked pH-Responsive Methacrylic Acid-Based Microgels.	0
7		
	pH-Responsive Methacrylic Acid-Based Microgels.	O
6	pH-Responsive Methacrylic Acid-Based Microgels.  Soft Hydrogel Shapeability via Supportive Bath Matching in Embedded 3D Printing.	0

2 Polysaccharide Based Hydrogels in Drug Delivery Systems, Wound Healing, and Agriculture.

О

Freestanding region-responsive bilayer for functional packaging of ingestible devices. 2023, 9,

O