

# Polymeric Systems for Controlled Drug Release

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Physico-chemical material properties and analysis techniques relevant in high-throughput biomaterials research. , 0, , 13-30.		0
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1869	Biodegradable Antibacterial Polymeric Nanosystems: A New Hope to Cope with Multidrug-Resistant Bacteria. <i>Small</i> , 2019, 15, e1900999.	5.2	135

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1871	Particulate systems of PLA and its copolymers. , 2019, , 349-380.		1
1872	Cellulosic medicine hydrogels with cyto- and biocompatible properties for ultrasound stimuliâ€”drug release materials. , 2019, , 165-181.		2
1873	Biomedical applications of PLGA particles. , 2019, , 87-129.		4
1874	Polymers for extended-release administration. <i>Biomedical Microdevices</i> , 2019, 21, 45.	1.4	21
1875	Design of diffusionâ€”controlled drug delivery devices for controlled release of Paclitaxel. <i>Chemical Biology and Drug Design</i> , 2019, 94, 1478-1487.	1.5	9
1876	Use of Core-Cross-Linked Polymeric Micelles Induced by the Selective Detection of Cu(II) Ions for the Sustained Release of a Model Drug. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14368-14375.	4.0	7
1877	3D printed dual macro-, microscale porous network as a tissue engineering scaffold with drug delivering function. <i>Biofabrication</i> , 2019, 11, 035014.	3.7	47
1878	Spirocyclic Acetal-Modified Dextran as a Flexible pH-Sensitive Solubility-Switching Material. <i>Biomacromolecules</i> , 2019, 20, 2008-2014.	2.6	9
1879	Microgels in biomaterials and nanomedicines. <i>Advances in Colloid and Interface Science</i> , 2019, 266, 1-20.	7.0	56
1880	Vitamin D-binding protein-loaded PLGA nanoparticles suppress Alzheimer's disease-related pathology in 5XFAD mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 297-307.	1.7	76
1881	Polymers from macrolactones: From pheromones to functional materials. <i>Progress in Polymer Science</i> , 2019, 91, 29-50.	11.8	40
1882	Drug Delivery: Polymers in the Development of Controlled Release Systems. <i>Polymers and Polymeric Composites</i> , 2019, , 1-29.	0.6	2
1883	Bioinspired Shear-Flow-Driven Layer-by-Layer <i>in Situ</i> Self-Assembly. <i>ACS Nano</i> , 2019, 13, 1910-1922.	7.3	10
1884	Heterogeneous catalysts based on built-in N-heterocyclic carbenes with high removability, recoverability and reusability for ring-opening polymerization of cyclic esters. <i>Polymer Chemistry</i> , 2019, 10, 1526-1536.	1.9	9
1885	Nanoporous Structures from PS- <i>b</i> -PMMA- <i>b</i> -P <i>t</i> BA Triblock Copolymer and Selective Modification for Ultrafiltration Membranes. <i>ACS Applied Polymer Materials</i> , 2019, 1, 584-592.	2.0	5
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1892	Size effects on rotational particle diffusion in complex fluids as probed by Magnetic Particle Nanorheology. Physical Chemistry Chemical Physics, 2019, 21, 26525-26539.	1.3	16
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1900	Cefuroxime conjugated chitosan hydrogel for treatment of wound infections. Colloids and Surfaces B: Biointerfaces, 2019, 173, 776-787.	2.5	52
1901	Folate-tagged chitosan-functionalized gold nanoparticles for enhanced delivery of 5-fluorouracil to cancer cells. Applied Nanoscience (Switzerland), 2019, 9, 7-17.	1.6	48
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1908	Fabrication and characterization of dual drug-loaded poly (lactic-co-glycolic acid) fiber-microsphere composite scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 375-383.	1.8	7
1909	Porous conductive and biocompatible scaffolds on the basis of polycaprolactone and polythiophene for scaffolding. <i>Polymer Bulletin</i> , 2020, 77, 1829-1846.	1.7	14
1910	Development of PLGA nanoparticles for sustained release of a connexin43 mimetic peptide to target glioblastoma cells. <i>Materials Science and Engineering C</i> , 2020, 108, 110191.	3.8	34
1911	Nanoparticle Technology for Respiratory Tract Mucosal Vaccine Delivery. <i>KONA Powder and Particle Journal</i> , 2020, 37, 97-113.	0.9	5
1912	Novel cationic cellulose-based nanocomposites for targeted delivery of methotrexate to breast cancer cells. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 99-115.	1.2	18
1913	pH-sensitive controlled release <i>in vitro</i> and pharmacokinetics of ibuprofen from hybrid nanocomposite using amine-modified bimodal mesopores silica as core and poly(methylacrylic acid) as shell. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020, 69, 1023-1033.	1.8	4
1914	The Benefits of Macromolecular/Supramolecular Approaches in Hydrogen Sulfide Delivery: A Review of Polymeric and Self-Assembled Hydrogen Sulfide Donors. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 79-95.	2.5	32
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1916	Modulation of release mechanisms of methylene blue (MB) monomers and dimers from silica-MB@shellac synthesized by antisolvent crystallization. <i>Materials Science and Engineering C</i> , 2020, 107, 110309.	3.8	3
1917	Experiments and modeling of controlled release behavior of commercial and model polymer-drug formulations using dialysis membrane method. <i>Drug Delivery and Translational Research</i> , 2020, 10, 515-528.	3.0	9
1918	Aggregation and surface phenomena of amitriptyline hydrochloride and cationic benzethonium chloride surfactant mixture in different media. <i>Journal of Molecular Liquids</i> , 2020, 300, 112346.	2.3	12
1919	A glance over doxorubicin based-nanotherapeutics: From proof-of-concept studies to solutions in the market. <i>Journal of Controlled Release</i> , 2020, 317, 347-374.	4.8	53
1920	Incorporated plant extract fabricated silver/poly-D,L-lactide-co-glycolide nanocomposites for antimicrobial based wound healing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117673.	2.0	18
1921	Injectable Carrier for Zero-Order Release of Salmon Calcitonin. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 485-493.	2.6	13
1922	Synthesis of poly(2-ethyl-2-oxazoline)-b-poly( $\epsilon$ -caprolactone) conjugates by a new modular strategy. <i>Polymer Bulletin</i> , 2020, 77, 5647-5662.	1.7	5
1923	A short review on chemical properties, stability and nano-technological advances for curcumin delivery. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 61-75.	2.4	54
1924	The Unlimited Potential of Microbial Rhodopsins as Optical Tools. <i>Biochemistry</i> , 2020, 59, 218-229.	1.2	27

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1927	L-menthol-based xanthate mediator for RAFT polymerization of vinyl acetate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 299-309.	1.2	4
1928	Recent trends in protein and peptide-based biomaterials for advanced drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 156, 133-187.	6.6	173
1929	Drug-Eluting Stents and Balloons – Materials, Structure Designs, and Coating Techniques: A Review. <i>Molecules</i> , 2020, 25, 4624.	1.7	40
1930	Lymphatic immunomodulation using engineered drug delivery systems for cancer immunotherapy. <i>Advanced Drug Delivery Reviews</i> , 2020, 160, 19-35.	6.6	27
1931	Electron rich (salen)AlCl catalysts for lactide polymerisation: Investigation of the influence of regioisomers on the rate and initiation efficiency. <i>European Polymer Journal</i> , 2020, 138, 109917.	2.6	10
1932	Topology-Controlled Ring-Opening Polymerization of <i>l</i> -Carboxyanhydride. <i>Macromolecules</i> , 2020, 53, 8829-8836.	2.2	13
1933	Neodymium monochloride and monoallyl complexes {2-[Ph <sub>2</sub> P(O)]C <sub>6</sub> H <sub>4</sub> NC(But)N(2,6-Me <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )} <sub>2</sub> NdR (R) Tj ETQq0 0 0 rgBT /Overlock of cyclic esters. <i>Russian Chemical Bulletin</i> , 2020, 69, 1114-1121.	0.4	6
1934	Modeling, design, and machine learning-based framework for optimal injectability of microparticle-based drug formulations. <i>Science Advances</i> , 2020, 6, eabb6594.	4.7	42
1935	Fluorescent detectors for hydroxyl radical and their applications in bioimaging: A review. <i>Coordination Chemistry Reviews</i> , 2020, 421, 213457.	9.5	56
1936	Controlled drug release performance of plasma modified slab and mat matrices: A model study with – Ampicillin –. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119586.	2.6	3
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1938	Characterizing the Molecular Architecture of Hydrogels and Crosslinked Polymer Networks beyond Flory – Rehner – l. Theory. <i>Biomacromolecules</i> , 2020, 21, 5104-5118.	2.6	21
1939	Structural Investigations of Polycarbonates whose Mechanical and Erosion Behavior Can Be Controlled by Their Isomer Sequence. <i>Macromolecules</i> , 2020, 53, 9878-9889.	2.2	4
1940	Biointerface Engineering: Prospects in Medical Diagnostics and Drug Delivery. , 2020, , .		8
1941	Syntheses, structures and catalysis of tetranuclear zinc N-alkoxide ketoiminate complexes for ring-opening polymerization of rac-lactide. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108136.	1.8	2
1942	Random poly(– caprolactone – L – alanine) by direct melt copolymerization. <i>Polymer International</i> , 2020, 69, 1161-1168.	1.6	7



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1944	Complex Temperature and Concentration Dependent Self-Assembly of Poly(2-oxazoline) Block Copolymers. <i>Polymers</i> , 2020, 12, 1495.	2.0	8
1945	Controlled anti-cancer drug release through advanced nano-drug delivery systems: Static and dynamic targeting strategies. <i>Journal of Controlled Release</i> , 2020, 327, 316-349.	4.8	236
1946	Drug-encapsulated blend of PLGA-PEG microspheres: in vitro and in vivo study of the effects of localized/targeted drug delivery on the treatment of triple-negative breast cancer. <i>Scientific Reports</i> , 2020, 10, 14188.	1.6	60
1947	Soft Contact Lens with Embedded Microtubes for Sustained and Self-Adaptive Drug Delivery for Glaucoma Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45789-45795.	4.0	19
1948	Designing Metallogelators Derived from NSAID-based Zn(II) Coordination Complexes for Drug Delivery Applications. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3558-3567.	1.7	4
1949	Zero-order drug delivery: State of the art and future prospects. <i>Journal of Controlled Release</i> , 2020, 327, 834-856.	4.8	126
1950	Zn(II)-Coordination Polymers with a Right- and Left-Handed Twist: Multifunctional Metal-Organic Hybrid for Dye Adsorption and Drug Delivery. <i>Crystal Growth and Design</i> , 2020, 20, 7411-7420.	1.4	17
1951	Experimental Studies and Modeling of the Degradation Process of Poly(Lactic-co-Glycolic Acid) Microspheres for Sustained Protein Release. <i>Polymers</i> , 2020, 12, 2042.	2.0	14
1952	Synthesis of the Core-Shell Structure Materials as the Controlled-Release Drug Carrier. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 658-664.	0.4	1
1953	Supramolecular Biocomposite Hydrogels Formed by Cellulose and Host-Guest Polymers Assisted by Calcium Ion Complexes. <i>Biomacromolecules</i> , 2020, 21, 3936-3944.	2.6	14
1954	The Optimization of a Novel Hydrogel Egg White-Alginate for 2.5D Tissue Engineering of Salivary Spheroid-Like Structure. <i>Molecules</i> , 2020, 25, 5751.	1.7	10
1955	Interfacial behavior of surfactant-covered double emulsion in extensional flow. <i>Physical Review E</i> , 2020, 102, 053104.	0.8	6
1956	Progress in the Preparation of Functional and (Bio)Degradable Polymers via Living Polymerizations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9581.	1.8	7
1957	Effectiveness of Core-Shell Nanofibers Incorporating Amphotericin B by Solution Blow Spinning Against Leishmania and Candida Species. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 571821.	2.0	10
1958	Encapsulation of octenidine hydrochloride into bioresorbable polyesters for extended antimicrobial activity. <i>European Polymer Journal</i> , 2020, 138, 109987.	2.6	5
1959	Investigation of radiolabelled chitosan nanoparticles bearing Cefpodoxime Proxetil, and in vitro antibacterial effect on Gram-positive <i>Staphylococcus aureus</i> and Gram-negative <i>Escherichia coli</i> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 1551-1558.	0.7	0
1960	Phase-Change Materials for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2020, 32, e2000660.	11.1	140

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1962	In Situ Formation of Polymeric Nanoassemblies Using an Efficient Reversible Click Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15135-15140.	7.2	13
1963	Biofunctional hydrogels based on host-guest interactions. <i>Polymer Journal</i> , 2020, 52, 839-859.	1.3	45
1964	Antitumoral Drug-Loaded Biocompatible Polymeric Nanoparticles Obtained by Non-Aqueous Emulsion Polymerization. <i>Polymers</i> , 2020, 12, 1018.	2.0	28
1965	Systematic Studies on Surface Erosion of Photocrosslinked Polyanhydride Tablets and Data Correlation with Release Kinetic Models. <i>Polymers</i> , 2020, 12, 1105.	2.0	23
1966	Multifaceted applications of cellulosic porous materials in environment, energy, and health. <i>Progress in Polymer Science</i> , 2020, 106, 101253.	11.8	63
1967	Cellular Delivery of Hoechst 33342 Anticancer Drug from Crosslinked Poly(thioether anhydrides): A Cytotoxicity and Efficacy Study. <i>ACS Symposium Series</i> , 2020, , 63-77.	0.5	2
1968	High load drug release systems based on carbon porous nanocapsule carriers. Ibuprofen case study. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5293-5304.	2.9	21
1969	Scalable microfabrication of drug-loaded core-shell tablets from a single erodible polymer with adjustable release profiles. <i>Biofabrication</i> , 2020, 12, 045007.	3.7	5
1970	Polymeric Systems for Bioprinting. <i>Chemical Reviews</i> , 2020, 120, 10744-10792.	23.0	161
1971	Synthesis and properties of a temperature-sensitive hydrogel based on physical crosslinking via stereocomplexation of PLLA-PDLA. <i>RSC Advances</i> , 2020, 10, 19759-19769.	1.7	16
1972	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055026.	1.7	2
1973	Endosomal signaling of delta opioid receptors is an endogenous mechanism and therapeutic target for relief from inflammatory pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15281-15292.	3.3	72
1974	Leveraging Framework Instability: A Journey from Energy Storage to Drug Delivery. <i>Synlett</i> , 2020, 31, 1573-1580.	1.0	4
1975	Functional Nanofibrous Biomaterials of Tailored Structures for Drug Delivery—A Critical Review. <i>Pharmaceutics</i> , 2020, 12, 522.	2.0	27
1976	Study of the Kinetic Features of Bimodal Gelation in Viscous Flow Fluids. <i>Russian Journal of Physical Chemistry B</i> , 2020, 14, 100-110.	0.2	0
1977	Enzymatic Biofuel Cells for Self-Powered, Controlled Drug Release. <i>Journal of the American Chemical Society</i> , 2020, 142, 11602-11609.	6.6	55
1978	Unexpected substituent effects on catalytic activity in the ring-opening polymerization of $\beta$ -CL and $\beta$ -VL catalyzed by $\beta$ -pyridyl-enamino Al complexes. <i>European Polymer Journal</i> , 2020, 128, 109626.	2.6	5

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1980	Betaine-loaded CaCO <sub>3</sub> microparticles improve survival of vitrified feline preantral follicles through higher mitochondrial activity and decreased reactive oxygen species. <i>Reproduction, Fertility and Development</i> , 2020, 32, 531.	0.1	4
1981	Di-urea cross-linked siloxane hybrid materials incorporating oligo(oxypropylene) and oligo(oxyethylene) chains. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 620-634.	1.1	2
1982	An inkjet-printed polysaccharide matrix for on-chip sample preparation in point-of-care cell counting chambers. <i>RSC Advances</i> , 2020, 10, 18062-18072.	1.7	3
1983	Intelligent drug delivery systems. , 2020, , 163-184.		0
1984	Dendritic cells responses to biomaterials. , 2020, , 53-68.		0
1985	Site-Selective, Multistep Functionalizations of CO <sub>2</sub> -Based Hyperbranched Poly(alkynoate)s toward Functional Polymeric Materials. <i>Advanced Science</i> , 2020, 7, 2000465.	5.6	24
1986	<p>&lt;p>Burgeoning Polymer Nano Blends for Improved Controlled Drug Release: A Review&lt;/p>&lt;/p>International Journal of Nanomedicine, 2020, Volume 15, 4363-4392.	3.3	76
1987	Tumor targeted delivery of umbelliferone via a smart mesoporous silica nanoparticles controlled-release drug delivery system for increased anticancer efficiency. <i>Materials Science and Engineering C</i> , 2020, 116, 111239.	3.8	66
1988	Mechanism of loading and release in nanocontainers. , 2020, , 67-87.		4
1989	Just how prevalent are peptide therapeutic products? A critical review. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119491.	2.6	28
1990	In Situ Formation of Polymeric Nanoassemblies Using an Efficient Reversible Click Reaction. <i>Angewandte Chemie</i> , 2020, 132, 15247-15252.	1.6	4
1991	Biological Evaluation of Naproxen-Dehydrodipeptide Conjugates with Self-Hydrogelation Capacity as Dual LOX/COX Inhibitors. <i>Pharmaceutics</i> , 2020, 12, 122.	2.0	16
1993	A Smart Drug Delivery System Based on Biodegradable Chitosan/Poly(allylamine hydrochloride) Blend Films. <i>Pharmaceutics</i> , 2020, 12, 131.	2.0	53
1994	PLA-PCL-PEG-PCL-PLA based micelles for improving the ocular permeability of dexamethasone: development, characterization, and <i>in vitro</i> evaluation. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 704-719.	1.1	25
1995	The 21st century revival of chitosan in service to bio-organic chemistry. <i>Biotechnology and Biotechnological Equipment</i> , 2020, 34, 221-237.	0.5	29
1997	Antibacterial Polyurethane Foams with Incorporated Lignin-Capped Silver Nanoparticles for Chronic Wound Treatment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 4504-4514.	1.8	54
1998	Electrospun nanofibers for the delivery of active drugs through nasal, oral and vaginal mucosa: Current status and future perspectives. <i>Materials Science and Engineering C</i> , 2020, 111, 110756.	3.8	73

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2000	5-Fluorouracil monodispersed chitosan microspheres: Microfluidic chip fabrication with crosslinking, characterization, drug release and anticancer activity. <i>Carbohydrate Polymers</i> , 2020, 236, 116094.	5.1	53
2001	The Effect of Solvent Vapor Annealing on Drug-Loaded Electrospun Polymer Fibers. <i>Pharmaceutics</i> , 2020, 12, 139.	2.0	12
2002	Exploring Poly(Ethylene Glycol)-Poly(Trimethylene Carbonate) Nanoparticles as Carriers of Hydrophobic Drugs to Modulate Osteoblastic Activity. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 1594-1604.	1.6	4
2003	Cobalt (II) complex catalyzed polymerization of lactide and coupling of CO <sub>2</sub> and styrene oxide into cyclic styrene carbonate. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	0.7	6
2004	Ring-Opening Polymerization (ROP) of cyclic esters by a versatile aluminum Diphenoximine Complex: From polylactide to random copolymers. <i>European Polymer Journal</i> , 2020, 125, 109527.	2.6	23
2005	Synthesis of Cobalt Hydroxide Nano-flakes Functionalized with Glutamic Acid and Conjugated with Thiosemicarbazide for Anticancer Activities Against Human Breast Cancer Cells. <i>Biological Trace Element Research</i> , 2020, 198, 98-108.	1.9	24
2006	Facilitating Myers's Saito cyclization through acid-triggered tautomerization for the development of maleimide-based antitumor agents. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1971-1979.	2.9	13
2007	A sustained zero-order release carrier for long-acting, peakless basal insulin therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1952-1959.	2.9	15
2008	Effects of electrospray mechanisms and structural relaxation on polylactide ion conformations in the gas phase: insights from ion mobility spectrometry and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4193-4204.	1.3	9
2009	2D Covalent Organic Frameworks for Biomedical Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002046.	7.8	172
2010	Diffusion Behavior of Drug Molecules in Acrylic Pressure-Sensitive Adhesive. <i>ACS Omega</i> , 2020, 5, 9408-9419.	1.6	17
2011	Sol-Gel Treatment of Textiles for the Entrapping of an Antioxidant/Anti-Inflammatory Molecule: Functional Coating Morphological Characterization and Drug Release Evaluation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2287.	1.3	20
2012	Drug Release from Polymer Thin Films and Gel Pellets: Insights from Programmed Microplate Electroanalysis. <i>ChemPlusChem</i> , 2020, 85, 627-633.	1.3	4
2013	DFT study of lactide ring-opening polymerizations by aluminium trialkoxides: Understanding the effects of monomer, alkoxide substituent, solvent and metal. <i>Chemical Physics Letters</i> , 2020, 750, 137482.	1.2	6
2014	"Nanogels as drug carriers" Introduction, chemical aspects, release mechanisms and potential applications. <i>International Journal of Pharmaceutics</i> , 2020, 581, 119268.	2.6	72
2015	Synthesis of degradable PLA-based diblock copolymers with dual acid/reduction-cleavable junction. <i>Polymer</i> , 2020, 194, 122391.	1.8	9
2016	Controlled release of the guest molecule <i>via</i> borate formation of a fluorinated boronic ester cage. <i>Chemical Communications</i> , 2020, 56, 5613-5616.	2.2	13

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