

Xian Jun Loh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

355 papers	21,193 citations	79 h-index	132 g-index
393 ext. papers	24,919 ext. citations	8.1 avg, IF	7.55 L-index

#	Paper	IF	Citations
355	Supramolecular polymeric hydrogels. <i>Chemical Society Reviews</i> , 2012 , 41, 6195-214	58.5	836
354	Cyclodextrin-based supramolecular architectures: syntheses, structures, and applications for drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1000-17	18.5	672
353	Towards lignin-based functional materials in a sustainable world. <i>Green Chemistry</i> , 2016 , 18, 1175-1200	10	668
352	Structures, mechanical properties and applications of silk fibroin materials. <i>Progress in Polymer Science</i> , 2015 , 46, 86-110	29.6	558
351	Nanoparticle-Hydrogel Composites: Concept, Design, and Applications of These Promising, Multi-Functional Materials. <i>Advanced Science</i> , 2015 , 2, 1400010	13.6	485
350	Methods and strategies for the synthesis of diverse nanoparticles and their applications: a comprehensive overview. <i>RSC Advances</i> , 2015 , 5, 105003-105037	3.7	386
349	Ultrahigh-water-content supramolecular hydrogels exhibiting multistimuli responsiveness. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11767-73	16.4	371
348	Silk Fibroin for Flexible Electronic Devices. <i>Advanced Materials</i> , 2016 , 28, 4250-65	24	340
347	Polyhydroxyalkanoates: opening doors for a sustainable future. <i>NPG Asia Materials</i> , 2016 , 8, e265-e265	10.3	286
346	Biodegradable polymers for electrospinning: towards biomedical applications. <i>Materials Science and Engineering C</i> , 2014 , 45, 659-70	8.3	252
345	Utilising inorganic nanocarriers for gene delivery. <i>Biomaterials Science</i> , 2016 , 4, 70-86	7.4	251
344	Recent Advances in Shape Memory Soft Materials for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10070-87	9.5	251
343	New biodegradable thermogelling copolymers having very low gelation concentrations. <i>Biomacromolecules</i> , 2007 , 8, 585-93	6.9	240
342	Water soluble polyhydroxyalkanoates: future materials for therapeutic applications. <i>Chemical Society Reviews</i> , 2015 , 44, 2865-79	58.5	225
341	Pectin as a rheology modifier: Origin, structure, commercial production and rheology. <i>Carbohydrate Polymers</i> , 2017 , 161, 118-139	10.3	220
340	Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 98, 379-86	3.5	209
339	Multi-functional fluorescent carbon dots with antibacterial and gene delivery properties. <i>RSC Advances</i> , 2015 , 5, 46817-46822	3.7	206

338	Recent Advances of Using Hybrid Nanocarriers in Remotely Controlled Therapeutic Delivery. <i>Small</i> , 2016 , 12, 4782-4806	11	204
337	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO Nanowire Composite. <i>Advanced Materials</i> , 2018 , 30, 1704531	24	202
336	Controlled drug release from biodegradable thermoresponsive physical hydrogel nanofibers. <i>Journal of Controlled Release</i> , 2010 , 143, 175-82	11.7	188
335	Polypyrrole-contained electrospun conductive nanofibrous membranes for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 376-85	5.4	186
334	Hydrolytic degradation and protein release studies of thermogelling polyurethane copolymers consisting of poly[(R)-3-hydroxybutyrate], poly(ethylene glycol), and poly(propylene glycol). <i>Biomaterials</i> , 2007 , 28, 4113-23	15.6	180
333	Tissue engineered plant extracts as nanofibrous wound dressing. <i>Biomaterials</i> , 2013 , 34, 724-34	15.6	178
332	Supramolecular peptide amphiphile vesicles through host-guest complexation. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9633-7	16.4	173
331	Face Masks in the New COVID-19 Normal: Materials, Testing, and Perspectives. <i>Research</i> , 2020 , 2020, 7286735	7.8	168
330	Engineering Poly(lactide)/Lignin Nanofibers with Antioxidant Activity for Biomedical Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5268-5276	8.3	160
329	Triply triggered doxorubicin release from supramolecular nanocontainers. <i>Biomacromolecules</i> , 2012 , 13, 84-91	6.9	159
328	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, 1704229	24	159
327	Electrospinning of poly(glycerol sebacate)-based nanofibers for nerve tissue engineering. <i>Materials Science and Engineering C</i> , 2017 , 70, 1089-1094	8.3	150
326	Thermogels: In Situ Gelling Biomaterial. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 295-316	5.5	146
325	Biodegradable thermogelling poly(ester urethane)s consisting of poly(lactic acid)--thermodynamics of micellization and hydrolytic degradation. <i>Biomaterials</i> , 2008 , 29, 2164-72	15.6	143
324	Recent progress of atomic layer deposition on polymeric materials. <i>Materials Science and Engineering C</i> , 2017 , 70, 1182-1191	8.3	142
323	Synthesis and water-swelling of thermo-responsive poly(ester urethane)s containing poly(epsilon-caprolactone), poly(ethylene glycol) and poly(propylene glycol). <i>Biomaterials</i> , 2008 , 29, 3185-94	15.6	141
322	Anisotropically branched metal nanostructures. <i>Chemical Society Reviews</i> , 2015 , 44, 6001-17	58.5	139
321	Development of Lignin Supramolecular Hydrogels with Mechanically Responsive and Self-Healing Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2160-2169	8.3	138

320	Mechanical properties and in vitro behavior of nanofiber-hydrogel composites for tissue engineering applications. <i>Nanotechnology</i> , 2012 , 23, 095705	3.4	138
319	Pseudo-Block Copolymer Based on Star-Shaped Poly(N-isopropylacrylamide) with a β -Cyclodextrin Core and Guest-Bearing PEG: Controlling Thermoresponsivity through Supramolecular Self-Assembly. <i>Macromolecules</i> , 2008 , 41, 5967-5970	5.5	138
318	Polymeric Hydrogels and Nanoparticles: A Merging and Emerging Field. <i>Australian Journal of Chemistry</i> , 2013 , 66, 997	1.2	136
317	Layer-by-layer assemblies for antibacterial applications. <i>Biomaterials Science</i> , 2015 , 3, 1505-18	7.4	129
316	Bio-inspired crosslinking and matrix-drug interactions for advanced wound dressings with long-term antimicrobial activity. <i>Biomaterials</i> , 2017 , 138, 153-168	15.6	128
315	Engineering highly stretchable lignin-based electrospun nanofibers for potential biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6194-6204	7.3	128
314	Supramolecular hydrogels for antimicrobial therapy. <i>Chemical Society Reviews</i> , 2018 , 47, 6917-6929	58.5	128
313	Sustained release of proteins from high water content supramolecular polymer hydrogels. <i>Biomaterials</i> , 2012 , 33, 4646-52	15.6	128
312	Advances in hydrogel delivery systems for tissue regeneration. <i>Materials Science and Engineering C</i> , 2014 , 45, 690-7	8.3	125
311	Biodegradable electronics: cornerstone for sustainable electronics and transient applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5531-5558	7.1	124
310	Nanomaterial mediated optogenetics: opportunities and challenges. <i>RSC Advances</i> , 2016 , 6, 60896-60906	6.7	119
309	Synthesis of Novel Biodegradable Thermoresponsive Triblock Copolymers Based on Poly[(R)-3-hydroxybutyrate] and Poly(N-isopropylacrylamide) and Their Formation of Thermoresponsive Micelles. <i>Macromolecules</i> , 2009 , 42, 194-202	5.5	118
308	Biodegradable thermosensitive copolymer hydrogels for drug delivery. <i>Expert Opinion on Therapeutic Patents</i> , 2007 , 17, 965-977	6.8	116
307	Long-Term Real-Time In Vivo Drug Release Monitoring with AIE Thermogelling Polymer. <i>Small</i> , 2017 , 13, 1603404	11	115
306	Polyester elastomers for soft tissue engineering. <i>Chemical Society Reviews</i> , 2018 , 47, 4545-4580	58.5	114
305	Effective Targeted Photothermal Ablation of Multidrug Resistant Bacteria and Their Biofilms with NIR-Absorbing Gold Nanocrosses. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2122-30	10.1	114
304	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018 , 30, e1805468	24	114
303	Recent development of unimolecular micelles as functional materials and applications. <i>Polymer Chemistry</i> , 2016 , 7, 5898-5919	4.9	113

302	Sustainable and Antioxidant Lignin Polyester Copolymers and Nanofibers for Potential Healthcare Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6016-6025	8.3	112
301	Supramolecular host-guest polymeric materials for biomedical applications. <i>Materials Horizons</i> , 2014 , 1, 185-195	14.4	112
300	The in vitro hydrolysis of poly(ester urethane)s consisting of poly[(R)-3-hydroxybutyrate] and poly(ethylene glycol). <i>Biomaterials</i> , 2006 , 27, 1841-50	15.6	112
299	Biodegradable thermogelling polymers: working towards clinical applications. <i>Advanced Healthcare Materials</i> , 2014 , 3, 977-88	10.1	111
298	Purification and characterization of a vaterite-inducing peptide, pelovaterin, from the eggshells of <i>Pelodiscus sinensis</i> (Chinese soft-shelled turtle). <i>Biomacromolecules</i> , 2005 , 6, 1429-37	6.9	103
297	Formation of transient amorphous calcium carbonate precursor in quail eggshell mineralization: an in vitro study. <i>Biomacromolecules</i> , 2006 , 7, 3202-9	6.9	102
296	Elastic poly(ϵ -caprolactone)-polydimethylsiloxane copolymer fibers with shape memory effect for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 015007	3.5	101
295	Polyhydroxyalkanoates: Chemical Modifications Toward Biomedical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 106-119	8.3	101
294	Emulsion electrospun vascular endothelial growth factor encapsulated poly(l-lactic acid-co- ϵ -caprolactone) nanofibers for sustained release in cardiac tissue engineering. <i>Journal of Materials Science</i> , 2012 , 47, 3272-3281	4.3	101
293	Poly(glycerol sebacate) biomaterial: synthesis and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7641-7652	7.3	96
292	Supramolecular soft biomaterials for biomedical applications. <i>Materials Today</i> , 2014 , 17, 194-202	21.8	96
291	Poly(ester urethane)s consisting of poly[(R)-3-hydroxybutyrate] and poly(ethylene glycol) as candidate biomaterials: characterization and mechanical property study. <i>Biomacromolecules</i> , 2005 , 6, 2740-7	6.9	95
290	A Perspective on the Trends and Challenges Facing Porphyrin-Based Anti-Microbial Materials. <i>Small</i> , 2016 , 12, 3609-44	11	94
289	PHB-Based Gels as Delivery Agents of Chemotherapeutics for the Effective Shrinkage of Tumors. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2679-2685	10.1	92
288	Review of Adaptive Programmable Materials and Their Bioapplications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33351-33370	9.5	91
287	Co-delivery of drug and DNA from cationic dual-responsive micelles derived from poly(DMAEMA-co-PPGMA). <i>Materials Science and Engineering C</i> , 2013 , 33, 4545-50	8.3	91
286	Magnetic Anisotropic Particles: Toward Remotely Actuated Applications. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 709-728	3.1	91
285	Highly Efficient Supramolecular Aggregation-Induced Emission-Active Pseudorotaxane Luminogen for Functional Bioimaging. <i>Biomacromolecules</i> , 2017 , 18, 886-897	6.9	88

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- ²⁸³ Biodegradable thermogelling poly[(R)-3-hydroxybutyrate]-based block copolymers: micellization, gelation, and cytotoxicity and cell culture studies. *Journal of Physical Chemistry B*, **2009**, 113, 11822-30 3.4 88
- ²⁸² Recent development of synthetic nonviral systems for sustained gene delivery. *Drug Discovery Today*, **2017**, 22, 1318-1335 8.8 87
- ²⁸¹ Biocompatible electrically conductive nanofibers from inorganic-organic shape memory polymers. *Colloids and Surfaces B: Biointerfaces*, **2016**, 148, 557-565 6 87
- ²⁸⁰ An experimental and theoretical investigation of the anisotropic branching in gold nanocrosses. *Nanoscale*, **2016**, 8, 543-52 7.7 84
- ²⁷⁹ Metal carbonyl-gold nanoparticle conjugates for highly sensitive SERS detection of organophosphorus pesticides. *Biosensors and Bioelectronics*, **2017**, 96, 167-172 11.8 80
- ²⁷⁸ Electrospun synthetic and natural nanofibers for regenerative medicine and stem cells. *Biotechnology Journal*, **2013**, 8, 59-72 5.6 80
- ²⁷⁷ Nano-Star-Shaped Polymers for Drug Delivery Applications. *Macromolecular Rapid Communications*, **2017**, 38, 1700410 4.8 80
- ²⁷⁶ Sustained delivery of doxorubicin from thermogelling poly(PEG/PPG/PTMC urethane)s for effective eradication of cancer cells. *Journal of Materials Chemistry*, **2012**, 22, 21249 79
- ²⁷⁵ Recent Progress in Using Biomaterials as Vitreous Substitutes. *Biomacromolecules*, **2015**, 16, 3093-102 6.9 78
- ²⁷⁴ New biocompatible thermogelling copolymers containing ethylene-butylene segments exhibiting very low gelation concentrations. *Soft Matter*, **2011**, 7, 2150 3.6 78
- ²⁷³ Micellization and phase transition behavior of thermosensitive poly(N-isopropylacrylamide)-poly(ϵ -caprolactone)-poly(N-isopropylacrylamide) triblock copolymers. *Polymer*, **2008**, 49, 5084-5094 3.9 78
- ²⁷² Poly(DMAEMA-co-PPGMA): Dual-responsive Reversible Micelles. *Journal of Applied Polymer Science*, **2013**, 127, 992-1000 2.9 76
- ²⁷¹ Emerging Supramolecular Therapeutic Carriers Based on Host-Guest Interactions. *Chemistry - an Asian Journal*, **2016**, 11, 1300-21 4.5 76
- ²⁷⁰ Safe and efficient membrane permeabilizing polymers based on PLLA for antibacterial applications. *RSC Advances*, **2016**, 6, 28947-28955 3.7 75
- ²⁶⁹ Biomechano-Interactive Materials and Interfaces. *Advanced Materials*, **2018**, 30, e1800572 24 75
- ²⁶⁸ Encapsulation of basic fibroblast growth factor in thermogelling copolymers preserves its bioactivity. *Journal of Materials Chemistry*, **2011**, 21, 2246 75
- ²⁶⁷ Novel poly(N-isopropylacrylamide)-poly[(R)-3-hydroxybutyrate]-poly(N-isopropylacrylamide) triblock copolymer surface as a culture substrate for human mesenchymal stem cells. *Soft Matter*, **2009**, 5, 2937 3.6 75

266	Injectable Supramolecular Hydrogels as Delivery Agents of Bcl-2 Conversion Gene for the Effective Shrinkage of Therapeutic Resistance Tumors. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700159	10.1	74
265	Control of PLA Stereoisomers-Based Polyurethane Elastomers as Highly Efficient Shape Memory Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1217-1227	8.3	74
264	Engineering PCL/lignin nanofibers as an antioxidant scaffold for the growth of neuron and Schwann cell. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 169, 356-365	6	74
263	Sustained delivery of paclitaxel using thermogelling poly(PEG/PPG/PCL urethane)s for enhanced toxicity against cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2686-94	5.4	74
262	Efficient gene delivery with paclitaxel-loaded DNA-hybrid polyplexes based on cationic polyhedral oligomeric silsesquioxanes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10634		74
261	New Linear and Star-Shaped Thermogelling Poly([R]-3-hydroxybutyrate) Copolymers. <i>Chemistry - A European Journal</i> , 2016 , 22, 10501-12	4.8	73
260	Biodegradable Polysaccharides for Controlled Drug Delivery. <i>ChemPlusChem</i> , 2016 , 81, 504-514	2.8	73
259	Recent Advances in the Development of Antimicrobial Nanoparticles for Combating Resistant Pathogens. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701400	10.1	72
258	Dual responsive micelles based on poly[(R)-3-hydroxybutyrate] and poly(2-(di-methylamino)ethyl methacrylate) for effective doxorubicin delivery. <i>Polymer Chemistry</i> , 2013 , 4, 2564	4.9	72
257	Cationic star copolymers based on β -cyclodextrins for efficient gene delivery to mouse embryonic stem cell colonies. <i>Chemical Communications</i> , 2015 , 51, 10815-8	5.8	72
256	Triggered insulin release studies of triply responsive supramolecular micelles. <i>Polymer Chemistry</i> , 2012 , 3, 3180	4.9	72
255	"On-demand" control of thermoresponsive properties of poly(N-isopropylacrylamide) with cucurbit[8]uril host-guest complexes. <i>Chemical Communications</i> , 2011 , 47, 6000-2	5.8	72
254	Custom-Made Electrochemical Energy Storage Devices. <i>ACS Energy Letters</i> , 2019 , 4, 606-614	20.1	72
253	Stem cell-loaded nanofibrous patch promotes the regeneration of infarcted myocardium with functional improvement in rat model. <i>Acta Biomaterialia</i> , 2014 , 10, 2727-38	10.8	71
252	Enhanced stability and activity of temozolomide in primary glioblastoma multiforme cells with cucurbit[n]uril. <i>Chemical Communications</i> , 2012 , 48, 9843-5	5.8	71
251	Surface coating with a thermoresponsive copolymer for the culture and non-enzymatic recovery of mouse embryonic stem cells. <i>Macromolecular Bioscience</i> , 2009 , 9, 1069-79	5.5	70
250	Controlling cell adhesion using layer-by-layer approaches for biomedical applications. <i>Materials Science and Engineering C</i> , 2017 , 70, 1163-1175	8.3	68
249	Biocompatibility evaluation of electrically conductive nanofibrous scaffolds for cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2305-2314	7.3	67

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- 247 β -shape armed amphiphilic star-like copolymers: design, synthesis and dual-responsive unimolecular micelle formation for controlled drug delivery. *Polymer Chemistry*, **2017**, 8, 5611-5620 4.9 64
- 246 Rational Design of Biomolecular Templates for Synthesizing Multifunctional Noble Metal Nanoclusters toward Personalized Theranostic Applications. *Advanced Healthcare Materials*, **2016**, 5, 1844-59 10.1 64
- 245 Supramolecular polymeric peptide amphiphile vesicles for the encapsulation of basic fibroblast growth factor. *Chemical Communications*, **2014**, 50, 3033-5 5.8 63
- 244 Interaction of gelatin with polyenes modulates antifungal activity and biocompatibility of electrospun fiber mats. *International Journal of Nanomedicine*, **2014**, 9, 2439-58 7.3 62
- 243 Biocompatible pH-responsive nanoparticles with a core-anchored multilayer shell of triblock copolymers for enhanced cancer therapy. *Journal of Materials Chemistry B*, **2017**, 5, 4421-4425 7.3 61
- 242 PLA-based thermogel for the sustained delivery of chemotherapeutics in a mouse model of hepatocellular carcinoma. *RSC Advances*, **2016**, 6, 44506-44513 3.7 61
- 241 Fluorescent gels: a review of synthesis, properties, applications and challenges. *Materials Chemistry Frontiers*, **2019**, 3, 1489-1502 7.8 60
- 240 Supramolecular cyclodextrin nanocarriers for chemo- and gene therapy towards the effective treatment of drug resistant cancers. *Nanoscale*, **2016**, 8, 18876-18881 7.7 60
- 239 Design of a micellized β -cyclodextrin based supramolecular hydrogel system. *Soft Matter*, **2015**, 11, 5425-34 7.6 60
- 238 Multi-arm carriers composed of an antioxidant lignin core and poly(glycidyl methacrylate-co-poly(ethylene glycol)methacrylate) derivative arms for highly efficient gene delivery. *Journal of Materials Chemistry B*, **2015**, 3, 6897-6904 7.3 59
- 237 Engineering Bioresponsive Hydrogels toward Healthcare Applications. *Macromolecular Chemistry and Physics*, **2016**, 217, 175-188 2.6 59
- 236 Unexpected formation of gold nanoflowers by a green synthesis method as agents for a safe and effective photothermal therapy. *Nanoscale*, **2017**, 9, 15753-15759 7.7 58
- 235 Recent advances of using polyhydroxyalkanoate-based nanovehicles as therapeutic delivery carriers. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2017**, 9, e1429 9.2 58
- 234 Molecular gel sorbent materials for environmental remediation and wastewater treatment. *Journal of Materials Chemistry A*, **2019**, 7, 18759-18791 13 57
- 233 Current treatment options and drug delivery systems as potential therapeutic agents for ovarian cancer: a review. *Materials Science and Engineering C*, **2014**, 45, 609-19 8.3 57
- 232 Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. *Advanced Materials*, **2019**, 31, e1901360 24 56
- 231 Sanitizing agents for virus inactivation and disinfection. *View*, **2020**, 1, e16 7.8 55

230	Mechanically Interlocked Hydrogel/Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1909540	15.6	55
229	A thixotropic polyglycerol sebacate-based supramolecular hydrogel showing UCST behavior. <i>RSC Advances</i> , 2015 , 5, 48720-48728	3.7	55
228	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020 , 11, 4602	17.4	55
227	Structure mapping of dengue and Zika viruses reveals functional long-range interactions. <i>Nature Communications</i> , 2019 , 10, 1408	17.4	54
226	Unusual thermogelling behaviour of poly[2-(dimethylamino)ethyl methacrylate] (PDMAEMA)-based polymers polymerized in bulk. <i>RSC Advances</i> , 2015 , 5, 62314-62318	3.7	54
225	Multifunctional Polyphenols- and Catecholamines-Based Self-Defensive Films for Health Care Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1220-32	9.5	53
224	Light-Induced Redox-Responsive Smart Drug Delivery System by Using Selenium-Containing Polymer@MOF Shell/Core Nanocomposite. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900406	10.1	51
223	Recent advances in supramolecular hydrogels for biomedical applications. <i>Materials Today Advances</i> , 2019 , 3, 100021	7.4	51
222	Conjugation of poly(ethylene glycol) to poly(lactide)-based polyelectrolytes: An effective method to modulate cytotoxicity in gene delivery. <i>Materials Science and Engineering C</i> , 2017 , 73, 275-284	8.3	50
221	Retinal-detachment repair and vitreous-like-body reformation via a thermogelling polymer endotamponade. <i>Nature Biomedical Engineering</i> , 2019 , 3, 598-610	19	49
220	Incorporation of poly[(R)-3-hydroxybutyrate] into cationic copolymers based on poly(2-(dimethylamino)ethyl methacrylate) to improve gene delivery. <i>Macromolecular Bioscience</i> , 2013 , 13, 1092-9	5.5	49
219	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. <i>Journal of Power Sources</i> , 2018 , 400, 566-571	8.9	48
218	Implantable and degradable antioxidant poly(ϵ -caprolactone)-lignin nanofiber membrane for effective osteoarthritis treatment. <i>Biomaterials</i> , 2020 , 230, 119601	15.6	48
217	PCL-based thermo-gelling polymers for in vivo delivery of chemotherapeutics to tumors. <i>Materials Science and Engineering C</i> , 2017 , 74, 110-116	8.3	47
216	Strong and biocompatible lignin /poly (3-hydroxybutyrate) composite nanofibers. <i>Composites Science and Technology</i> , 2018 , 158, 26-33	8.6	47
215	Stimuli-Responsive Cationic Hydrogels in Drug Delivery Applications. <i>Gels</i> , 2018 , 4,	4.2	47
214	Small molecule therapeutic-loaded liposomes as therapeutic carriers: from development to clinical applications. <i>RSC Advances</i> , 2016 , 6, 70592-70615	3.7	45
213	An adherent tissue-inspired hydrogel delivery vehicle utilised in primary human glioma models. <i>Biomaterials</i> , 2018 , 179, 199-208	15.6	45

212	The role of hydrogen bonding in alginate/poly(acrylamide-co-dimethylacrylamide) and alginate/poly(ethylene glycol) methyl ether methacrylate-based tough hybrid hydrogels. <i>RSC Advances</i> , 2015 , 5, 57678-57685	3.7	44
211	High molecular weight polyacrylamides by atom transfer radical polymerization: Enabling advancements in water-based applications. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 181-186	2.5	44
210	Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NF-kappa B signaling pathway. <i>Biomaterials</i> , 2018 , 178, 281-292	15.6	43
209	A Thixotropic Polyglycerol Sebacate-Based Supramolecular Hydrogel as an Injectable Drug Delivery Matrix. <i>Polymers</i> , 2016 , 8,	4.5	43
208	Biodegradable thermogelling polymers for biomedical applications. <i>MRS Bulletin</i> , 2016 , 41, 557-566	3.2	43
207	Hydrogels as Emerging Materials for Translational Biomedicine. <i>Advanced Therapeutics</i> , 2019 , 2, 1800088	4.9	43
206	Codelivery for Paclitaxel and Bcl-2 Conversion Gene by PHB-PDMAEMA Amphiphilic Cationic Copolymer for Effective Drug Resistant Cancer Therapy. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700186	5.5	42
205	Hierarchically Self-Assembled Supramolecular Host-Guest Delivery System for Drug Resistant Cancer Therapy. <i>Biomacromolecules</i> , 2018 , 19, 1926-1938	6.9	41
204	Targeted and Sustained Corelease of Chemotherapeutics and Gene by Injectable Supramolecular Hydrogel for Drug-Resistant Cancer Therapy. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800117	4.8	40
203	Effective near-infrared photodynamic therapy assisted by upconversion nanoparticles conjugated with photosensitizers. <i>International Journal of Nanomedicine</i> , 2015 , 10, 419-32	7.3	40
202	A supramolecular route towards core-shell polymeric microspheres in water via cucurbit[8]uril complexation. <i>Chemical Communications</i> , 2012 , 48, 8757-9	5.8	40
201	Modification of Thermal and Mechanical Properties of PEG-PPG-PEG Copolymer (F127) with MA-POSS. <i>Polymers</i> , 2016 , 8,	4.5	39
200	Multifunctional Antimicrobial Nanofiber Dressings Containing EPolylysine for the Eradication of Bacterial Bioburden and Promotion of Wound Healing in Critically Colonized Wounds. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15989-16005	9.5	38
199	Dual functional anti-oxidant and SPF enhancing lignin-based copolymers as additives for personal and healthcare products. <i>RSC Advances</i> , 2016 , 6, 86420-86427	3.7	38
198	Dual-responsive hybrid thermoplastic shape memory polyurethane. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 767-779	7.8	38
197	Electrospun Pectin-Polyhydroxybutyrate Nanofibers for Retinal Tissue Engineering. <i>ACS Omega</i> , 2017 , 2, 8959-8968	3.9	38
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