

Xian Jun Loh

List of Publications by Year in Descending Order

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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	Fabricating Dual-Functional Plasmonic-Magnetic Au@MgFeO Nanohybrids for Photothermal Therapy and Magnetic Resonance Imaging.. <i>ACS Omega</i> , 2022 , 7, 2031-2040	3.9	1
354	Additive Manufacturing of Thermoelectrics: Emerging Trends and Outlook. <i>ACS Energy Letters</i> , 2022 , 7, 720-735	20.1	12
353	SARS-CoV-2 in wastewater: From detection to evaluation.. <i>Materials Today Advances</i> , 2022 , 13, 100211	7.4	1
352	Hofmeister effects of anions on self-assembled thermogels. <i>Materials Today Chemistry</i> , 2022 , 23, 100674	6.2	1
351	Effectiveness of an ocular adhesive polyhedral oligomeric silsesquioxane hybrid thermo-responsive FK506 hydrogel in a murine model of dry eye. <i>Bioactive Materials</i> , 2022 , 9, 77-91	16.7	9
350	How far is Lignin from being a biomedical material?. <i>Bioactive Materials</i> , 2022 , 8, 71-94	16.7	27
349	Potential of Recycled Silicon and Silicon-Based Thermoelectrics for Power Generation. <i>Crystals</i> , 2022 , 12, 307	2.3	2
348	Upcycling Silicon Photovoltaic Waste into Thermoelectrics.. <i>Advanced Materials</i> , 2022 , e2110518	24	5
347	Poly(hydroxyalkanoates): Production, Applications and End-of-Life Strategies—Life Cycle Assessment Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3387-3406	8.3	3
346	Rapid UV-Curable Form-Stable Polyethylene-Glycol-Based Phase Change Material. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2747-2756	4.3	1
345	Supramolecular Hydrogels: Design Strategies and Contemporary Biomedical Applications.. <i>Chemistry - an Asian Journal</i> , 2022 , e202200081	4.5	0
344	Branched PCL-Based Thermogelling Copolymers: Controlling Polymer Architecture to Tune Drug Release Profiles.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 864372	5.8	0
343	Structural Reconstruction of Cu ₂ O Superparticles toward Electrocatalytic CO Reduction with High C Products Selectivity.. <i>Advanced Science</i> , 2022 , e2105292	13.6	6
342	Flexible polymeric patch based nanotherapeutics against non-cancer therapy.. <i>Bioactive Materials</i> , 2022 , 18, 471-491	16.7	0
341	A bio-functional polymer that prevents retinal scarring through modulation of NRF2 signalling pathway.. <i>Nature Communications</i> , 2022 , 13, 2796	17.4	1
340	Facile Synthesis of Iron Oxide Nanozymes for Synergistically Colorimetric and Magnetic Resonance Detection Strategy.. <i>Journal of Biomedical Nanotechnology</i> , 2021 , 17, 582-594	4	1
339	In Situ Generating CsPbBr ₃ Nanocrystals on O-defective WO ₃ as Z-scheme and NIR-responsive Heterojunctions for Photocatalytic CO ₂ Reduction.. <i>ChemSusChem</i> , 2021 ,	8.3	7

338	Antiangiogenic Nanomicelles for the Topical Delivery of Aflibercept to Treat Retinal Neovascular Disease. <i>Advanced Materials</i> , 2021 , e2108360	24	8
337	Biomaterials by design: Harnessing data for future development. <i>Materials Today Bio</i> , 2021 , 12, 100165	9.9	3
336	High molecular weight hyper-branched PCL-based thermogelling vitreous endotamponades. <i>Biomaterials</i> , 2021 , 280, 121262	15.6	3
335	Dual Tumor Microenvironment Remodeling by Glucose-Contained Radical Copolymer for MRI-Guided Photoimmunotherapy. <i>Advanced Materials</i> , 2021 , e2107674	24	8
334	Low-Threshold Amplified Spontaneous Emission from Air-Stable CsPbBr Perovskite Films Containing Trace Amounts of Polyethylene Oxide. <i>ChemPlusChem</i> , 2021 , 86, 1537-1543	2.8	0
333	Machine Learning-Driven Biomaterials Evolution. <i>Advanced Materials</i> , 2021 , e2102703	24	13
332	Poly(lactic acid) face masks: Are these the sustainable solutions in times of COVID-19 pandemic?. <i>Science of the Total Environment</i> , 2021 , 807, 151084	10.2	6
331	Design and development of multilayer cotton masks via machine learning. <i>Materials Today Advances</i> , 2021 , 12, 100178	7.4	2
330	A New Potent Antimicrobial Metalloporphyrin. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1007-1015	4.5	2
329	Solar-Powered Photodegradation of Pollutant Dyes Using Silver-Embedded Porous TiO Nanofibers. <i>Nanomaterials</i> , 2021 , 11,	5.4	10
328	A Morphable Ionic Electrode Based on Thermogel for Non-Invasive Hairy Plant Electrophysiology. <i>Advanced Materials</i> , 2021 , 33, e2007848	24	17
327	AuNPs Decorated PLA Stereocomplex Micelles for Synergetic Photothermal and Chemotherapy. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100062	5.5	2
326	Cyclodextrin-Based Hybrid Polymeric Complex to Overcome Dual Drug Resistance Mechanisms for Cancer Therapy. <i>Polymers</i> , 2021 , 13,	4.5	6
325	Recent Advances in New Copolymer Hydrogel-Formed Contact Lenses for Ophthalmic Drug Delivery. <i>ChemNanoMat</i> , 2021 , 7, 564-579	3.5	3
324	Effective design of barrier enclosure to contain aerosol emissions from COVID-19 patients. <i>Indoor Air</i> , 2021 , 31, 1639-1644	5.4	6
323	Pearl Powder-An Emerging Material for Biomedical Applications: A Review. <i>Materials</i> , 2021 , 14,	3.5	2
322	Toward the prevention of coronavirus infection: what role can polymers play?. <i>Materials Today Advances</i> , 2021 , 10, 100140	7.4	9
321	Machine Learning-Reinforced Noninvasive Biosensors for Healthcare. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100734	10.1	7

320	Thermo-Responsive Hydrogels: From Recent Progress to Biomedical Applications. <i>Gels</i> , 2021 , 7,	4.2	19
319	Response to 'Comment on: "Use of biomaterials for sustained delivery of anti-VEGF to treat retinal diseases"'. <i>Eye</i> , 2021 , 35, 1026-1027	4.4	
318	Engineering luminescent pectin-based hydrogel for highly efficient multiple sensing. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 869-875	7.9	7
317	Lignin-Incorporated Nanogel Serving As an Antioxidant Biomaterial for Wound Healing.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3-13	4.1	23
316	Engineered Janus amphipathic polymeric fiber films with unidirectional drainage and anti-adhesion abilities to accelerate wound healing. <i>Chemical Engineering Journal</i> , 2021 , 421, 127725	14.7	14
315	Gold-decorated TiO nanofibrous hybrid for improved solar-driven photocatalytic pollutant degradation. <i>Chemosphere</i> , 2021 , 265, 129114	8.4	18
314	Polymeric hydrogels as a vitreous replacement strategy in the eye. <i>Biomaterials</i> , 2021 , 268, 120547	15.6	14
313	Current research progress and perspectives on liquid hydrogen rich molecules in sustainable hydrogen storage. <i>Energy Storage Materials</i> , 2021 , 35, 695-722	19.4	23
312	Konjac glucomannan biopolymer as a multifunctional binder to build a solid permeable interface on Na3V2(PO4)3/C cathodes for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9864-9874	13	6
311	Current Research Trends and Perspectives on Solid-State Nanomaterials in Hydrogen Storage. <i>Research</i> , 2021 , 2021, 3750689	7.8	9
310	Recycling of spent coffee grounds for useful extracts and green composites.. <i>RSC Advances</i> , 2021 , 11, 2682-2692	3.7	13
309	The Efficacy of Plant-Based Ionizers in Removing Aerosol for COVID-19 Mitigation. <i>Research</i> , 2021 , 2021, 2173642	7.8	15
308	Exploring Reusability of Disposable Face Masks: Effects of Disinfection Methods on Filtration Efficiency, Breathability, and Fluid Resistance. <i>Global Challenges</i> , 2021 , 5, 2100030	4.3	0
307	The Translational Application of Hydrogel for Organoid Technology: Challenges and Future Perspectives. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100191	5.5	2
306	Halide Salt-Catalyzed Crosslinked Polyurethanes for Supercapacitor Gel Electrolyte Applications. <i>ChemSusChem</i> , 2021 , 14, 3237-3243	8.3	2
305	Efficacy of Water-Soluble Pearl Powder Components Extracted by a CO Supercritical Extraction System in Promoting Wound Healing. <i>Materials</i> , 2021 , 14,	3.5	2
304	Cationic Lignin-Based Hyperbranched Polymers to Circumvent Drug Resistance in Keratitis. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4659-4668	5.5	1
303	Kombucha SCOBY Waste as a Catalyst Support. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2939-2946	4.5	

302	Catalysts developed from waste plastics: a versatile system for biomass conversion. <i>Materials Today Chemistry</i> , 2021 , 21, 100524	6.2	5
301	Risk assessment of airborne COVID-19 exposure in social settings. <i>Physics of Fluids</i> , 2021 , 33, 087118	4.4	10
300	Limiting the Uncoordinated N Species in M-N Single-Atom Catalysts toward Electrocatalytic CO Reduction in Broad Voltage Range. <i>Advanced Materials</i> , 2021 , e2104090	24	11
299	N95 respirator decontamination: a study in reusability. <i>Materials Today Advances</i> , 2021 , 11, 100148	7.4	3
298	Natural polymer towards lustrous multicolored silk: Hermetical encapsulation and understanding of colorants via controlled de/recrystallization process. <i>Polymer</i> , 2021 , 233, 124163	3.9	
297	Engineered bio-adhesive polyhedral oligomeric silsesquioxane hybrid nanoformulation of amphotericin B for prolonged therapy of fungal keratitis. <i>Chemical Engineering Journal</i> , 2021 , 421, 129734	14.7	7
296	Thermoelectric materials and transport physics. <i>Materials Today Physics</i> , 2021 , 21, 100519	8	22
295	Synergistic UV protection effects of the lignin nanodiamond complex. <i>Materials Today Chemistry</i> , 2021 , 22, 100574	6.2	1
294	Microscopically tuning the graphene oxide framework for membrane separations: a review. <i>Nanoscale Advances</i> , 2021 , 3, 5265-5276	5.1	1
293	Enhanced drug retention by anthracene crosslinked nanocomposites for bimodal imaging-guided phototherapy. <i>Nanoscale</i> , 2021 , 13, 14713-14722	7.7	1
292	Artificial Sense Technology: Emulating and Extending Biological Senses. <i>ACS Nano</i> , 2021 ,	16.7	13
291	Zinc diethyldithiocarbamate as a catalyst for synthesising biomedically-relevant thermogelling polyurethanes. <i>Materials Advances</i> , 2020 , 1, 3221-3232	3.3	5
290	PCL-Based Thermogelling Polymer: Molecular Weight Effects on Its Suitability as Vitreous Tamponade.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 9043-9053	4.1	12
289	A topical gel for extended ocular drug release. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1024-1025	19	1
288	Wound healing properties of magnesium mineralized antimicrobial nanofibre dressings containing chondroitin sulphate - a comparison between blend and core-shell nanofibres. <i>Biomaterials Science</i> , 2020 , 8, 3454-3471	7.4	15
287	Sanitizing agents for virus inactivation and disinfection. <i>View</i> , 2020 , 1, e16	7.8	55
286	Bottom-Up Engineering of Responsive Hydrogel Materials for Molecular Detection and Biosensing 2020 , 2, 918-950		19
285	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

284	Mussel-Inspired Durable Antimicrobial Contact Lenses: The Role of Covalent and Noncovalent Attachment of Antimicrobials. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3162-3173	5.5	10
283	Superhydrophobic Materials Derived from Hybrid Silicon Copolymers 2020 , 119-143		1
282	Silicone Copolymers for Healthcare and Personal Care Applications 2020 , 145-166		2
281	Cyber-Physiochemical Interfaces. <i>Advanced Materials</i> , 2020 , 32, e1905522	24	37
280	Mechanically Interlocked Hydrogel/Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1909540	15.6	55
279	pH-responsive and hyaluronic acid-functionalized metal-organic frameworks for therapy of osteoarthritis. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 139	9.4	18
278	Sensors, Biosensors, and Analytical Technologies for Aquaculture Water Quality. <i>Research</i> , 2020 , 2020, 8272705	7.8	34
277	Use of biomaterials for sustained delivery of anti-VEGF to treat retinal diseases. <i>Eye</i> , 2020 , 34, 1341-1356	7.4	27
276	Implantable and degradable antioxidant poly(ϵ -caprolactone)-lignin nanofiber membrane for effective osteoarthritis treatment. <i>Biomaterials</i> , 2020 , 230, 119601	15.6	48
275	A new highly transparent injectable PHA-based thermogelling vitreous substitute. <i>Biomaterials Science</i> , 2020 , 8, 926-936	7.4	28
274	Thermogelling chitosan-based polymers for the treatment of oral mucosa ulcers. <i>Biomaterials Science</i> , 2020 , 8, 1364-1379	7.4	22
273	Tough hydrogel module towards an implantable remote and controlled release device. <i>Biomaterials Science</i> , 2020 , 8, 960-972	7.4	9
272	Recent innovations in artificial skin. <i>Biomaterials Science</i> , 2020 , 8, 776-797	7.4	22
271	Insights into the epigenetic effects of nanomaterials on cells. <i>Biomaterials Science</i> , 2020 , 8, 763-775	7.4	26
270	Electrospun cellulose acetate butyrate/polyethylene glycol (CAB/PEG) composite nanofibers: A potential scaffold for tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110713	6	28
269	Preparation of mixed micelles carrying folates and stable radicals through PLA stereocomplexation for drug delivery. <i>Materials Science and Engineering C</i> , 2020 , 108, 110464	8.3	10
268	Reinforcement of aligned cellulose fibers by lignin-polyester copolymers. <i>Materials Today Chemistry</i> , 2020 , 18, 100358	6.2	2
267	Surface Migration of Fluorinated-Siloxane Copolymer with Unusual Liquid Crystal Behavior for Highly Efficient Oil/Water Separation. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3612-3620	4.3	10

- 266 Supramolecular thermogels from branched PCL-containing polyurethanes.. *RSC Advances*, **2020**, 10, 39109-39120
- 265 Sensors and Analytical Technologies for Air Quality: Particulate Matters and Bioaerosols. *Chemistry - an Asian Journal*, **2020**, 15, 4241-4255 4.5 9
- 264 Lab-on-Mask for Remote Respiratory Monitoring **2020**, 2, 1178-1181 26
- 263 Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. *Advanced Materials*, **2020**, 32, e2001903 24 23
- 262 An artificial sensory neuron with visual-haptic fusion. *Nature Communications*, **2020**, 11, 4602 17.4 55
- 261 Face Masks in the New COVID-19 Normal: Materials, Testing, and Perspectives. *Research*, **2020**, 2020, 7286735 7.8 168
- 260 Highly Washable and Reusable Green Nanofibrous Sorbent with Superoleophilicity, Biodegradability, and Mechanical Robustness. *ACS Applied Polymer Materials*, **2020**, 2, 4825-4835 4.3 16
- 259 Biomimetic Poly(Poly(E-caprolactone)-Polytetrahydrofuran urethane) Based Nanofibers Enhanced Chondrogenic Differentiation and Cartilage Regeneration. *Journal of Biomedical Nanotechnology*, **2019**, 15, 1005-1017 4 10
- 258 The effective treatment of multi-drug resistant tumors with self-assembling alginate copolymers. *Polymer Chemistry*, **2019**, 10, 278-286 4.9 8
- 257 Cyclodextrin-based sustained gene release systems: a supramolecular solution towards clinical applications. *Materials Chemistry Frontiers*, **2019**, 3, 181-192 7.8 28
- 256 Using Artificial Skin Devices as Skin Replacements: Insights into Superficial Treatment. *Small*, **2019**, 15, e1805453 11 34
- 255 Cationic Poly([R]-3-hydroxybutyrate) Copolymers as Antimicrobial Agents. *Macromolecular Bioscience*, **2019**, 19, e1800466 5.5 9
- 254 Utilization of biomass pectin polymer to build high efficiency electrode architectures with sturdy construction and fast charge transfer structure to boost sodium storage performance for NASICON-type cathode. *Journal of Materials Chemistry A*, **2019**, 7, 1548-1555 13 12
- 253 Light-Induced Redox-Responsive Smart Drug Delivery System by Using Selenium-Containing Polymer@MOF Shell/Core Nanocomposite. *Advanced Healthcare Materials*, **2019**, 8, e1900406 10.1 51
- 252 Autonomous Chitosan-Based Self-Healing Hydrogel Formed through Noncovalent Interactions. *ACS Applied Polymer Materials*, **2019**, 1, 1769-1777 4.3 23
- 251 Fluorescent gels: a review of synthesis, properties, applications and challenges. *Materials Chemistry Frontiers*, **2019**, 3, 1489-1502 7.8 60
- 250 Protective Action of Linear Polyethylenimine against Colonization and Exaggerated Inflammation and. *ACS Infectious Diseases*, **2019**, 5, 1411-1422 5.5 5
- 249 Retinal-detachment repair and vitreous-like-body reformation via a thermogelling polymer endotamponade. *Nature Biomedical Engineering*, **2019**, 3, 598-610 19 49

- 248 Structure mapping of dengue and Zika viruses reveals functional long-range interactions. *Nature Communications*, **2019**, 10, 1408 17.4 54
- 247 Polymeric Janus Nanoparticles: Recent Advances in Synthetic Strategies, Materials Properties, and Applications. *Macromolecular Rapid Communications*, **2019**, 40, e1800203 4.8 36
- 246 Precise Synthesis of PS-PLA Janus Star-Like Copolymer. *Macromolecular Rapid Communications*, **2019**, 40, e1800217 4.8 8
- 245 Cyclodextrin-Based Star-Like Amphiphilic Cationic Polymer as a Potential Pharmaceutical Carrier in Macrophages. *Macromolecular Rapid Communications*, **2019**, 40, e1800207 4.8 19
- 244 Targeted and Sustained Corelease of Chemotherapeutics and Gene by Injectable Supramolecular Hydrogel for Drug-Resistant Cancer Therapy. *Macromolecular Rapid Communications*, **2019**, 40, e1800117 4.8 40
- 243 pH-Responsive Poly(dimethylsiloxane) Copolymer Decorated Magnetic Nanoparticles for Remotely Controlled Oil-in-Water Nanoemulsion Separation. *Macromolecular Rapid Communications*, **2019**, 40, e1800013 4.8 10
- 242 Sustained delivery of anti-VEGFs from thermogel depots inhibits angiogenesis without the need for multiple injections. *Biomaterials Science*, **2019**, 7, 4603-4614 7.4 30
- 241 Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. *Advanced Materials*, **2019**, 31, e1901360 24 56
- 240 Molecular gel sorbent materials for environmental remediation and wastewater treatment. *Journal of Materials Chemistry A*, **2019**, 7, 18759-18791 13 57
- 239 PHA-Based Thermogel as a Controlled Zero-Order Chemotherapeutic Delivery System for the Effective Treatment of Melanoma.. *ACS Applied Bio Materials*, **2019**, 2, 3591-3600 4.1 19
- 238 Recent advances in supramolecular hydrogels for biomedical applications. *Materials Today Advances*, **2019**, 3, 100021 7.4 51
- 237 UV Protection and Antioxidant Activity of Nanodiamonds and Fullerenes for Sunscreen Formulations. *ACS Applied Nano Materials*, **2019**, 2, 7604-7616 5.6 10
- 236 Self-Healable, Fast Responsive Poly(ϵ -Pentadecalactone) Thermogelling System for Effective Liver Cancer Therapy. *Frontiers in Chemistry*, **2019**, 7, 683 5 10
- 235 Recent Progress in Polyhydroxyalkanoates-Based Copolymers for Biomedical Applications. *Biotechnology Journal*, **2019**, 14, e1900283 5.6 36
- 234 New Dual Functional PHB-Grafted Lignin Copolymer: Synthesis, Mechanical Properties, and Biocompatibility Studies.. *ACS Applied Bio Materials*, **2019**, 2, 127-134 4.1 36
- 233 Custom-Made Electrochemical Energy Storage Devices. *ACS Energy Letters*, **2019**, 4, 606-614 20.1 72
- 232 Hydrogels as Emerging Materials for Translational Biomedicine. *Advanced Therapeutics*, **2019**, 2, 1800088 4.9 43
- 231 Supramolecular hydrogels for antimicrobial therapy. *Chemical Society Reviews*, **2018**, 47, 6917-6929 58.5 128

230	Strong and biocompatible lignin /poly (3-hydroxybutyrate) composite nanofibers. <i>Composites Science and Technology</i> , 2018 , 158, 26-33	8.6	47
229	Tailoring Polyelectrolyte Architecture To Promote Cell Growth and Inhibit Bacterial Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7882-7891	9.5	29
228	Hierarchically Self-Assembled Supramolecular Host-Guest Delivery System for Drug Resistant Cancer Therapy. <i>Biomacromolecules</i> , 2018 , 19, 1926-1938	6.9	41
227	Thermoresponsive Supramolecular Chemotherapy by "V"-Shaped Armed β -Cyclodextrin Star Polymer to Overcome Drug Resistance. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701143	10.1	25
226	Dominant Albumin-Surface Interactions under Independent Control of Surface Charge and Wettability. <i>Langmuir</i> , 2018 , 34, 1953-1966	4	13
225	Polyester elastomers for soft tissue engineering. <i>Chemical Society Reviews</i> , 2018 , 47, 4545-4580	58.5	114
224	Recent Advances in the Development of Antimicrobial Nanoparticles for Combating Resistant Pathogens. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701400	10.1	72
223	Antimicrobial quaternary ammonium organosilane cross-linked nanofibrous collagen scaffolds for tissue engineering. <i>International Journal of Nanomedicine</i> , 2018 , 13, 4473-4492	7.3	15
222	Thermogelling 3D Systems towards Stem Cell-Based Tissue Regeneration Therapies. <i>Molecules</i> , 2018 , 23,	4.8	13
221	Poly(carbonate urethane)-Based Thermogels with Enhanced Drug Release Efficacy for Chemotherapeutic Applications. <i>Polymers</i> , 2018 , 10,	4.5	23
220	Stimuli-Responsive Cationic Hydrogels in Drug Delivery Applications. <i>Gels</i> , 2018 , 4,	4.2	47
219	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
218	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. <i>Journal of Power Sources</i> , 2018 , 400, 566-571	8.9	48
217	Formulation, characterization and evaluation of mRNA-loaded dissolvable polymeric microneedles (RNApatch). <i>Scientific Reports</i> , 2018 , 8, 11842	4.9	35
216	Biodegradable polyester unimolecular systems as emerging materials for therapeutic applications. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5488-5498	7.3	25
215	Lignin and Its Properties. <i>Sustainable Chemistry Series</i> , 2018 , 1-28	0.4	1
214	Biomechano-Interactive Materials and Interfaces. <i>Advanced Materials</i> , 2018 , 30, e1800572	24	75
213	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

212	Chemical Modification of Lignin. <i>Sustainable Chemistry Series</i> , 2018 , 81-120	0.4	3
211	Carbon Precursor from Lignin: Methods and Applications. <i>Sustainable Chemistry Series</i> , 2018 , 121-152	0.4	4
210	Chapter 7: Degradation Behaviour of Biodegradable Thermogels. <i>Biomaterials Science Series</i> , 2018 , 113-138		3
209	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, 1704229	24	159
208	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO Nanowire Composite. <i>Advanced Materials</i> , 2018 , 30, 1704531	24	202
207	Enhanced transfection of a macromolecular lignin-based DNA complex with low cellular toxicity. <i>Bioscience Reports</i> , 2018 , 38,	4.1	6
206	Surfactant Free Delivery of Docetaxel by Poly[(R)-3-hydroxybutyrate-(R)-3-hydroxyhexanoate]-Based Polymeric Micelles for Effective Melanoma Treatments. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1801221	10.1	27
205	Biodegradable Thermogelling Polymers. <i>Small Methods</i> , 2018 , 3, 1800313	12.8	10
204	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018 , 30, e1805468	24	114
203	Injectable Hydrogels for Cartilage Regeneration. <i>Gels Horizons: From Science To Smart Materials</i> , 2018 , 315-337		3
202	A Recent Perspective on Noncovalently Formed Polymeric Hydrogels. <i>Chemical Record</i> , 2018 , 18, 1517-1529		17
201	Glycogen-nucleic acid constructs for gene silencing in multicellular tumor spheroids. <i>Biomaterials</i> , 2018 , 176, 34-49	15.6	21
200	An adherent tissue-inspired hydrogel delivery vehicle utilised in primary human glioma models. <i>Biomaterials</i> , 2018 , 179, 199-208	15.6	45
199	Incorporation of Polycaprolactone to Cyclodextrin-Based Nanocarrier for Potent Gene Delivery. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800255	3.9	10
198	Unprecedented Acid-Promoted Polymerization and Gelation of Acrylamide: A Serendipitous Discovery. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1797	4.5	5
197	Potential of VEGF-encapsulated electrospun nanofibers for in vitro cardiomyogenic differentiation of human mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1002-1010	4.4	27
196	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
195	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

194	Recent progress of atomic layer deposition on polymeric materials. <i>Materials Science and Engineering C</i> , 2017 , 70, 1182-1191	8.3	142
193	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
192	Highly Efficient Supramolecular Aggregation-Induced Emission-Active Pseudorotaxane Luminogen for Functional Bioimaging. <i>Biomacromolecules</i> , 2017 , 18, 886-897	6.9	88
191	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
190	Drug Delivery: Long-Term Real-Time In Vivo Drug Release Monitoring with AIE Thermogelling Polymer (Small 7/2017). <i>Small</i> , 2017 , 13,	11	1
189	Bioimaging and biodetection assisted with TTA-UC materials. <i>Drug Discovery Today</i> , 2017 , 22, 1400-1411	8.8	33
188	Recent development of synthetic nonviral systems for sustained gene delivery. <i>Drug Discovery Today</i> , 2017 , 22, 1318-1335	8.8	87
187	Biocompatible pH-responsive nanoparticles with a core-anchored multilayer shell of triblock copolymers for enhanced cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4421-4425	7.3	61
186	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
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