

Xian Jun Loh

List of Publications by Year in descending order

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Version: 2024-02-01

368
papers

28,690
citations

2970

93
h-index

7511

151
g-index

393
all docs

393
docs citations

393
times ranked

29687
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular polymeric hydrogels. <i>Chemical Society Reviews</i> , 2012, 41, 6195.	18.7	988
2	Towards lignin-based functional materials in a sustainable world. <i>Green Chemistry</i> , 2016, 18, 1175-1200.	4.6	931
3	Structures, mechanical properties and applications of silk fibroin materials. <i>Progress in Polymer Science</i> , 2015, 46, 86-110.	11.8	811
4	Cyclodextrin-based supramolecular architectures: Syntheses, structures, and applications for drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1000-1017.	6.6	725
5	Nanoparticle-“Hydrogel Composites: Concept, Design, and Applications of These Promising, Multi-Functional Materials. <i>Advanced Science</i> , 2015, 2, 1400010.	5.6	653
6	Methods and strategies for the synthesis of diverse nanoparticles and their applications: a comprehensive overview. <i>RSC Advances</i> , 2015, 5, 105003-105037.	1.7	519
7	Silk Fibroin for Flexible Electronic Devices. <i>Advanced Materials</i> , 2016, 28, 4250-4265.	11.1	466
8	Polyhydroxyalkanoates: opening doors for a sustainable future. <i>NPG Asia Materials</i> , 2016, 8, e265-e265.	3.8	441
9	Ultrahigh-Water-Content Supramolecular Hydrogels Exhibiting Multistimuli Responsiveness. <i>Journal of the American Chemical Society</i> , 2012, 134, 11767-11773.	6.6	409
10	Pectin as a rheology modifier: Origin, structure, commercial production and rheology. <i>Carbohydrate Polymers</i> , 2017, 161, 118-139.	5.1	356
11	Biodegradable polymers for electrospinning: Towards biomedical applications. <i>Materials Science and Engineering C</i> , 2014, 45, 659-670.	3.8	318
12	Recent Advances in Shape Memory Soft Materials for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10070-10087.	4.0	313
13	Face Masks in the New COVID-19 Normal: Materials, Testing, and Perspectives. <i>Research</i> , 2020, 2020, 7286735.	2.8	306
14	Utilising inorganic nanocarriers for gene delivery. <i>Biomaterials Science</i> , 2016, 4, 70-86.	2.6	297
15	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO ₂ Nanowire Composite. <i>Advanced Materials</i> , 2018, 30, 1704531.	11.1	270
16	Water soluble polyhydroxyalkanoates: future materials for therapeutic applications. <i>Chemical Society Reviews</i> , 2015, 44, 2865-2879.	18.7	257
17	New Biodegradable Thermogelling Copolymers Having Very Low Gelation Concentrations. <i>Biomacromolecules</i> , 2007, 8, 585-593.	2.6	254
18	Multi-functional fluorescent carbon dots with antibacterial and gene delivery properties. <i>RSC Advances</i> , 2015, 5, 46817-46822.	1.7	242

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19	Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 98B, 379-386.	1.6	241
20	Recent Advances of Using Hybrid Nanocarriers in Remotely Controlled Therapeutic Delivery. <i>Small</i> , 2016, 12, 4782-4806.	5.2	226
21	Tissue engineered plant extracts as nanofibrous wound dressing. <i>Biomaterials</i> , 2013, 34, 724-734.	5.7	216
22	Engineering Poly(lactide)-Lignin Nanofibers with Antioxidant Activity for Biomedical Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5268-5276.	3.2	209
23	Polypyrrole-contained electrospun conductive nanofibrous membranes for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 376-385.	2.1	208
24	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, 1704229.	11.1	208
25	Controlled drug release from biodegradable thermoresponsive physical hydrogel nanofibers. <i>Journal of Controlled Release</i> , 2010, 143, 175-182.	4.8	206
26	Supramolecular hydrogels for antimicrobial therapy. <i>Chemical Society Reviews</i> , 2018, 47, 6917-6929.	18.7	196
27	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, 4113-4123.	5.7	193
28	Supramolecular Peptide Amphiphile Vesicles through Host-Guest Complexation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9633-9637.	7.2	191
29	Biodegradable electronics: cornerstone for sustainable electronics and transient applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5531-5558.	2.7	184
30	Thermogels: In Situ Gelling Biomaterial. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 295-316.	2.6	176
31	Triply Triggered Doxorubicin Release From Supramolecular Nanocontainers. <i>Biomacromolecules</i> , 2012, 13, 84-91.	2.6	174
32	Electrospinning of poly(glycerol sebacate)-based nanofibers for nerve tissue engineering. <i>Materials Science and Engineering C</i> , 2017, 70, 1089-1094.	3.8	171
33	Polyester elastomers for soft tissue engineering. <i>Chemical Society Reviews</i> , 2018, 47, 4545-4580.	18.7	168
34	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020, 11, 4602.	5.8	166
35	Recent progress of atomic layer deposition on polymeric materials. <i>Materials Science and Engineering C</i> , 2017, 70, 1182-1191.	3.8	165
36	Bio-inspired crosslinking and matrix-drug interactions for advanced wound dressings with long-term antimicrobial activity. <i>Biomaterials</i> , 2017, 138, 153-168.	5.7	165

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37	Mechanical properties and <i>in vitro</i> behavior of nanofiber-hydrogel composites for tissue engineering applications. <i>Nanotechnology</i> , 2012, 23, 095705.	1.3	163
38	Development of Lignin Supramolecular Hydrogels with Mechanically Responsive and Self-Healing Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2160-2169.	3.2	162
39	Anisotropically branched metal nanostructures. <i>Chemical Society Reviews</i> , 2015, 44, 6001-6017.	18.7	161
40	Sanitizing agents for virus inactivation and disinfection. <i>View</i> , 2020, 1, e16.	2.7	158
41	Synthesis and water-swelling of thermo-responsive poly(ester urethane)s containing poly(μ -caprolactone), poly(ethylene glycol) and poly(propylene glycol). <i>Biomaterials</i> , 2008, 29, 3185-3194.	5.7	157
42	Advances in hydrogel delivery systems for tissue regeneration. <i>Materials Science and Engineering C</i> , 2014, 45, 690-697.	3.8	157
43	Engineering highly stretchable lignin-based electrospun nanofibers for potential biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6194-6204.	2.9	156
44	Biodegradable thermogelling poly(ester urethane)s consisting of poly(lactic acid) – Thermodynamics of micellization and hydrolytic degradation. <i>Biomaterials</i> , 2008, 29, 2164-2172.	5.7	153
45	Sustainable and Antioxidant Lignin-Polyester Copolymers and Nanofibers for Potential Healthcare Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6016-6025.	3.2	152
46	Honeycomb-Lantern-Inspired 3D Stretchable Supercapacitors with Enhanced Specific Areal Capacitance. <i>Advanced Materials</i> , 2018, 30, e1805468.	11.1	152
47	Layer-by-layer assemblies for antibacterial applications. <i>Biomaterials Science</i> , 2015, 3, 1505-1518.	2.6	149
48	Polymeric Hydrogels and Nanoparticles: A Merging and Emerging Field. <i>Australian Journal of Chemistry</i> , 2013, 66, 997.	0.5	148
49	Pseudo-Block Copolymer Based on Star-Shaped Poly(<i>N</i> -isopropylacrylamide) with a β -Cyclodextrin Core and Guest-Bearing PEG: Controlling Thermoresponsivity through Supramolecular Self-Assembly. <i>Macromolecules</i> , 2008, 41, 5967-5970.	2.2	145
50	Long-Term Real-Time In Vivo Drug Release Monitoring with AIE Thermogelling Polymer. <i>Small</i> , 2017, 13, 1603404.	5.2	140
51	Sustained release of proteins from high water content supramolecular polymer hydrogels. <i>Biomaterials</i> , 2012, 33, 4646-4652.	5.7	139
52	Supramolecular host-guest polymeric materials for biomedical applications. <i>Materials Horizons</i> , 2014, 1, 185-195.	6.4	139
53	Recent development of unimolecular micelles as functional materials and applications. <i>Polymer Chemistry</i> , 2016, 7, 5898-5919.	1.9	131
54	Synthesis of Novel Biodegradable Thermoresponsive Triblock Copolymers Based on Poly[(<i>R</i>)-3-hydroxybutyrate] and Poly(<i>N</i> -isopropylacrylamide) and Their Formation of Thermoresponsive Micelles. <i>Macromolecules</i> , 2009, 42, 194-202.	2.2	130

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55	Effective Targeted Photothermal Ablation of Multidrug Resistant Bacteria and Their Biofilms with NIR-Absorbing Gold Nanocrosses. <i>Advanced Healthcare Materials</i> , 2016, 5, 2122-2130.	3.9	126
56	Nanomaterial mediated optogenetics: opportunities and challenges. <i>RSC Advances</i> , 2016, 6, 60896-60906.	1.7	125
57	Poly(glycerol sebacate) biomaterial: synthesis and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7641-7652.	2.9	124
58	Custom-Made Electrochemical Energy Storage Devices. <i>ACS Energy Letters</i> , 2019, 4, 606-614.	8.8	123
59	Biodegradable thermosensitive copolymer hydrogels for drug delivery. <i>Expert Opinion on Therapeutic Patents</i> , 2007, 17, 965-977.	2.4	121
60	Biodegradable Thermogelling Polymers: Working Towards Clinical Applications. <i>Advanced Healthcare Materials</i> , 2014, 3, 977-988.	3.9	121
61	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.	2.5	121
62	Polyhydroxyalkanoates: Chemical Modifications Toward Biomedical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 106-119.	3.2	120
63	Mechanically Interlocked Hydrogel-Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909540.	7.8	120
64	The in vitro hydrolysis of poly(ester urethane)s consisting of poly[(R)-3-hydroxybutyrate] and poly(ethylene glycol). <i>Biomaterials</i> , 2006, 27, 1841-1850.	5.7	117
65	A Perspective on the Trends and Challenges Facing Porphyrin-Based Anti-Microbial Materials. <i>Small</i> , 2016, 12, 3609-3644.	5.2	117
66	Elastic poly(ϵ -caprolactone)-polydimethylsiloxane copolymer fibers with shape memory effect for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015007.	1.7	117
67	How far is Lignin from being a biomedical material?. <i>Bioactive Materials</i> , 2022, 8, 71-94.	8.6	117
68	Fluorescent gels: a review of synthesis, properties, applications and challenges. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1489-1502.	3.2	115
69	Review of Adaptive Programmable Materials and Their Bioapplications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33351-33370.	4.0	112
70	Purification and Characterization of a Vaterite-Inducing Peptide, Pelovaterin, from the Eggshells of <i>Pelodiscus sinensis</i> (Chinese Soft-Shell Turtle). <i>Biomacromolecules</i> , 2005, 6, 1429-1437.	2.6	109
71	Nano-Star-Shaped Polymers for Drug Delivery Applications. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700410.	2.0	109
72	Emulsion electrospun vascular endothelial growth factor encapsulated poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (acid-co Materials Science, 2012, 47, 3272-3281.	1.7	108

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73	Recent Advances in the Development of Antimicrobial Nanoparticles for Combating Resistant Pathogens. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701400.	3.9	106
74	Formation of Transient Amorphous Calcium Carbonate Precursor in Quail Eggshell Mineralization: A In Vitro Study. <i>Biomacromolecules</i> , 2006, 7, 3202-3209.	2.6	105
75	Supramolecular soft biomaterials for biomedical applications. <i>Materials Today</i> , 2014, 17, 194-202.	8.3	105
76	Biocompatible electrically conductive nanofibers from inorganic-organic shape memory polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 557-565.	2.5	105
77	Structure mapping of dengue and Zika viruses reveals functional long-range interactions. <i>Nature Communications</i> , 2019, 10, 1408.	5.8	104
78	PHB-Based Gels as Delivery Agents of Chemotherapeutics for the Effective Shrinkage of Tumors. <i>Advanced Healthcare Materials</i> , 2016, 5, 2679-2685.	3.9	103
79	Metal carbonyl-gold nanoparticle conjugates for highly sensitive SERS detection of organophosphorus pesticides. <i>Biosensors and Bioelectronics</i> , 2017, 96, 167-172.	5.3	103
80	Poly(ester urethane)s Consisting of Poly[(R)-3-hydroxybutyrate] and Poly(ethylene glycol) as Candidate Biomaterials: A Characterization and Mechanical Property Study. <i>Biomacromolecules</i> , 2005, 6, 2740-2747.	2.6	102
81	Molecular gel sorbent materials for environmental remediation and wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18759-18791.	5.2	102
82	New biocompatible thermogelling copolymers containing ethylene-butylene segments exhibiting very low gelation concentrations. <i>Soft Matter</i> , 2011, 7, 2150.	1.2	101
83	Highly Efficient Supramolecular Aggregation-Induced Emission-Active Pseudorotaxane Luminogen for Functional Bioimaging. <i>Biomacromolecules</i> , 2017, 18, 886-897.	2.6	101
84	Biodegradable Thermogelling Poly[(R)-3-hydroxybutyrate]-Based Block Copolymers: Micellization, Gelation, and Cytotoxicity and Cell Culture Studies. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11822-11830.	1.2	100
85	Implantable and degradable antioxidant poly(μ -caprolactone)-lignin nanofiber membrane for effective osteoarthritis treatment. <i>Biomaterials</i> , 2020, 230, 119601.	5.7	100
86	"Living" Controlled <i>in Situ</i> Gelling Systems: Thiol-Disulfide Exchange Method toward Tailor-Made Biodegradable Hydrogels. <i>Journal of the American Chemical Society</i> , 2010, 132, 15140-15143.	6.6	99
87	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, 4545-4550.	3.8	99
88	Recent Progress in Using Biomaterials as Vitreous Substitutes. <i>Biomacromolecules</i> , 2015, 16, 3093-3102.	2.6	98
89	Emerging Supramolecular Therapeutic Carriers Based on Host-Guest Interactions. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1300-1321.	1.7	98
90	Magnetic Anisotropic Particles: Toward Remotely Actuated Applications. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 709-728.	1.2	98

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91	Sustained delivery of doxorubicin from thermogelling poly(PEG/PPG/PTMC urethane)s for effective eradication of cancer cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 21249.	6.7	97
92	Biodegradable Polysaccharides for Controlled Drug Delivery. <i>ChemPlusChem</i> , 2016, 81, 504-514.	1.3	97
93	Poly(DMAEMA- <i>co</i> -PPGMA): Dual-responsive reversible micelles. <i>Journal of Applied Polymer Science</i> , 2013, 127, 992-1000.	1.3	96
94	Recent development of synthetic nonviral systems for sustained gene delivery. <i>Drug Discovery Today</i> , 2017, 22, 1318-1335.	3.2	96
95	Control of PLA Stereoisomers-Based Polyurethane Elastomers as Highly Efficient Shape Memory Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1217-1227.	3.2	96
96	Highly Stable and Stretchable Conductive Films through Thermal Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	11.1	96
97	Encapsulation of basic fibroblast growth factor in thermogelling copolymers preserves its bioactivity. <i>Journal of Materials Chemistry</i> , 2011, 21, 2246.	6.7	94
98	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.	3.9	93
99	Biomechanically Interactive Materials and Interfaces. <i>Advanced Materials</i> , 2018, 30, e1800572.	11.1	93
100	Recent advances in supramolecular hydrogels for biomedical applications. <i>Materials Today Advances</i> , 2019, 3, 100021.	2.5	93
101	Safe and efficient membrane permeabilizing polymers based on PLLA for antibacterial applications. <i>RSC Advances</i> , 2016, 6, 28947-28955.	1.7	92
102	Thermo-Responsive Hydrogels: From Recent Progress to Biomedical Applications. <i>Gels</i> , 2021, 7, 77.	2.1	92
103	Electrospun synthetic and natural nanofibers for regenerative medicine and stem cells. <i>Biotechnology Journal</i> , 2013, 8, 59-72.	1.8	91
104	An experimental and theoretical investigation of the anisotropic branching in gold nanocrosses. <i>Nanoscale</i> , 2016, 8, 543-552.	2.8	90
105	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.	3.9	90
106	Micellization and phase transition behavior of thermosensitive poly(N-isopropylacrylamide)- <i>co</i> -poly(ϵ -caprolactone)- <i>co</i> -poly(N-isopropylacrylamide) triblock copolymers. <i>Polymer</i> , 2008, 49, 5084-5094.	1.8	89
107	Polyolefins and Polystyrene as Chemical Resources for a Sustainable Future: Challenges, Advances, and Prospects. , 2021, 3, 1660-1676.		89
108	Efficient gene delivery with paclitaxel-loaded DNA-hybrid polyplexes based on cationic polyhedral oligomeric silsesquioxanes. <i>Journal of Materials Chemistry</i> , 2010, 20, 10634.	6.7	85

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109	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, 100A, 2686-2694.	2.1	85
110	Controlling cell adhesion using layer-by-layer approaches for biomedical applications. <i>Materials Science and Engineering C</i> , 2017, 70, 1163-1175.	3.8	84
111	Retinal-detachment repair and vitreous-like-body reformation via a thermogelling polymer endotamponade. <i>Nature Biomedical Engineering</i> , 2019, 3, 598-610.	11.6	84
112	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. <i>Journal of Power Sources</i> , 2018, 400, 566-571.	4.0	83
113	Dual responsive micelles based on poly[(R)-3-hydroxybutyrate] and poly(2-(di-methylamino)ethyl) Tj ETQq1 1 0.784314 rgBT JOverlod	1.9	81
114	Surface Coating with a Thermoresponsive Copolymer for the Culture and Non-Enzymatic Recovery of Mouse Embryonic Stem Cells. <i>Macromolecular Bioscience</i> , 2009, 9, 1069-1079.	2.1	80
115	Enhanced stability and activity of temozolomide in primary glioblastoma multiforme cells with cucurbit[n]uril. <i>Chemical Communications</i> , 2012, 48, 9843.	2.2	80
116	Triggered insulin release studies of triply responsive supramolecular micelles. <i>Polymer Chemistry</i> , 2012, 3, 3180.	1.9	80
117	New stimuli-responsive copolymers of N -acryloyl- N -alkyl piperazine and methyl methacrylate and their hydrogels. <i>Polymer</i> , 2001, 42, 65-69.	1.8	79
118	New Linear and Star-Shaped Thermogelling Poly([R]-3-hydroxybutyrate) Copolymers. <i>Chemistry - A European Journal</i> , 2016, 22, 10501-10512.	1.7	79
119	Novel poly(N-isopropylacrylamide)-poly[(R)-3-hydroxybutyrate]-poly(N-isopropylacrylamide) triblock copolymer surface as a culture substrate for human mesenchymal stem cells. <i>Soft Matter</i> , 2009, 5, 2937.	1.2	78
120	On-demand control of thermoresponsive properties of poly(N-isopropylacrylamide) with cucurbit[8]uril host-guest complexes. <i>Chemical Communications</i> , 2011, 47, 6000.	2.2	78
121	Rational Design of Biomolecular Templates for Synthesizing Multifunctional Noble Metal Nanoclusters toward Personalized Theranostic Applications. <i>Advanced Healthcare Materials</i> , 2016, 5, 1844-1859.	3.9	78
122	Biocompatibility evaluation of electrically conductive nanofibrous scaffolds for cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2305.	2.9	77
123	Stem cell-loaded nanofibrous patch promotes the regeneration of infarcted myocardium with functional improvement in rat model. <i>Acta Biomaterialia</i> , 2014, 10, 2727-2738.	4.1	77
124	Recent advances of using polyhydroxyalkanoate-based nanovehicles as therapeutic delivery carriers. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1429.	3.3	77
125	Thermoelectric materials and transport physics. <i>Materials Today Physics</i> , 2021, 21, 100519.	2.9	77
126	Cationic star copolymers based on β -cyclodextrins for efficient gene delivery to mouse embryonic stem cell colonies. <i>Chemical Communications</i> , 2015, 51, 10815-10818.	2.2	76

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127	Current research progress and perspectives on liquid hydrogen rich molecules in sustainable hydrogen storage. <i>Energy Storage Materials</i> , 2021, 35, 695-722.	9.5	76
128	â€œYâ€•shape armed amphiphilic star-like copolymers: design, synthesis and dual-responsive unimolecular micelle formation for controlled drug delivery. <i>Polymer Chemistry</i> , 2017, 8, 5611-5620.	1.9	75
129	Multi-arm carriers composed of an antioxidant lignin core and poly(glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (me Journal of Materials Chemistry B, 2015, 3, 6897-6904.	2.9	74
130	Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NFâ€•kappa B signaling pathway. <i>Biomaterials</i> , 2018, 178, 281-292.	5.7	72
131	Hydrogels as Emerging Materials for Translational Biomedicine. <i>Advanced Therapeutics</i> , 2019, 2, 1800088.	1.6	72
132	Supramolecular cyclodextrin nanocarriers for chemo- and gene therapy towards the effective treatment of drug resistant cancers. <i>Nanoscale</i> , 2016, 8, 18876-18881.	2.8	70
133	Strong and biocompatible lignin /poly (3-hydroxybutyrate) composite nanofibers. <i>Composites Science and Technology</i> , 2018, 158, 26-33.	3.8	70
134	An adherent tissue-inspired hydrogel delivery vehicle utilised in primary human glioma models. <i>Biomaterials</i> , 2018, 179, 199-208.	5.7	69
135	Multifunctional Antimicrobial Nanofiber Dressings Containing Îµ-Polylysine 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.	4.0	69
136	Interaction of gelatin with polyenes modulates antifungal activity and biocompatibility of electrospun fiber mats. <i>International Journal of Nanomedicine</i> , 2014, 9, 2439.	3.3	68
137	Supramolecular polymeric peptide amphiphile vesicles for the encapsulation of basic fibroblast growth factor. <i>Chemical Communications</i> , 2014, 50, 3033-3035.	2.2	68
138	Multifunctional Polyphenols- and Catecholamines-Based Self-Defensive Films for Health Care Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1220-1232.	4.0	68
139	Machine Learningâ€•Driven Biomaterials Evolution. <i>Advanced Materials</i> , 2022, 34, e2102703.	11.1	68
140	Design of a micellized Î±-cyclodextrin based supramolecular hydrogel system. <i>Soft Matter</i> , 2015, 11, 5425-5434.	1.2	67
141	PLA-based thermogel for the sustained delivery of chemotherapeutics in a mouse model of hepatocellular carcinoma. <i>RSC Advances</i> , 2016, 6, 44506-44513.	1.7	66
142	Small molecule therapeutic-loaded liposomes as therapeutic carriers: from development to clinical applications. <i>RSC Advances</i> , 2016, 6, 70592-70615.	1.7	65
143	Formulation, characterization and evaluation of mRNA-loaded dissolvable polymeric microneedles (RNApatch). <i>Scientific Reports</i> , 2018, 8, 11842.	1.6	65
144	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.	6.6	65

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145	Structural Reconstruction of Cu ₂ O Superparticles toward Electrocatalytic CO ₂ Reduction with High C ₂₊ Products Selectivity. <i>Advanced Science</i> , 2022, 9, e2105292.	5.6	65
146	Engineering Bioresponsive Hydrogels toward Healthcare Applications. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 175-188.	1.1	64
147	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.	2.9	64
148	Unexpected formation of gold nanoflowers by a green synthesis method as agents for a safe and effective photothermal therapy. <i>Nanoscale</i> , 2017, 9, 15753-15759.	2.8	64
149	Stimuli-Responsive Cationic Hydrogels in Drug Delivery Applications. <i>Gels</i> , 2018, 4, 13.	2.1	64
150	Cyber-Physiochemical Interfaces. <i>Advanced Materials</i> , 2020, 32, e1905522.	11.1	64
151	Artificial Sense Technology: Emulating and Extending Biological Senses. <i>ACS Nano</i> , 2021, 15, 18671-18678.	7.3	64
152	Current treatment options and drug delivery systems as potential therapeutic agents for ovarian cancer: A review. <i>Materials Science and Engineering C</i> , 2014, 45, 609-619.	3.8	62
153	Machine Learning-Reinforced Noninvasive Biosensors for Healthcare. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100734.	3.9	62
154	Use of biomaterials for sustained delivery of anti-VEGF to treat retinal diseases. <i>Eye</i> , 2020, 34, 1341-1356.	1.1	62
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