

Ying Luo

List of Publications by Year in descending order

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41
papers

2,247
citations

393982

19
h-index

360668

35
g-index

41
all docs

41
docs citations

41
times ranked

3930
citing authors

#	ARTICLE	IF	CITATIONS
1	A photolabile hydrogel for guided three-dimensional cell growth and migration. <i>Nature Materials</i> , 2004, 3, 249-253.	13.3	756
2	Fibrous scaffolds potentiate the paracrine function of mesenchymal stem cells: A new dimension in cell-material interaction. <i>Biomaterials</i> , 2017, 141, 74-85.	5.7	189
3	Incorporation of a matrix metalloproteinase-sensitive substrate into self-assembling peptides – A model for biofunctional scaffolds. <i>Biomaterials</i> , 2008, 29, 1713-1719.	5.7	152
4	Engineering the heart: Evaluation of conductive nanomaterials for improving implant integration and cardiac function. <i>Scientific Reports</i> , 2014, 4, 3733.	1.6	149
5	Light-Activated Immobilization of Biomolecules to Agarose Hydrogels for Controlled Cellular Response. <i>Biomacromolecules</i> , 2004, 5, 2315-2323.	2.6	112
6	Peptide- and saccharide-conjugated dendrimers for targeted drug delivery: a concise review. <i>Interface Focus</i> , 2012, 2, 307-324.	1.5	70
7	Chromatin-remodelling factor Brg1 regulates myocardial proliferation and regeneration in zebrafish. <i>Nature Communications</i> , 2016, 7, 13787.	5.8	67
8	Mesenchymal stromal exosome-functionalized scaffolds induce innate and adaptive immunomodulatory responses toward tissue repair. <i>Science Advances</i> , 2021, 7, .	4.7	66
9	Functionalized dendrimer-based delivery of angiotensin type 1 receptor siRNA for preserving cardiac function following infarction. <i>Biomaterials</i> , 2013, 34, 3729-3736.	5.7	64
10	Overcoming foreign-body reaction through nanotopography: Biocompatibility and immunoisolation properties of a nanofibrous membrane. <i>Biomaterials</i> , 2016, 102, 249-258.	5.7	57
11	Effects of Growth Factors on Extracellular Matrix Production by Vocal Fold Fibroblasts in 3-Dimensional Culture. <i>Tissue Engineering</i> , 2006, 12, 3365-3374.	4.9	50
12	A bilaminated decellularized scaffold for islet transplantation: Structure, properties and functions in diabetic mice. <i>Biomaterials</i> , 2017, 138, 80-90.	5.7	46
13	The effects of an RGD-PAMAM dendrimer conjugate in 3D spheroid culture on cell proliferation, expression and aggregation. <i>Biomaterials</i> , 2013, 34, 2665-2673.	5.7	41
14	From Micro to Macro: The Hierarchical Design in a Micropatterned Scaffold for Cell Assembling and Transplantation. <i>Advanced Materials</i> , 2017, 29, 1604600.	11.1	41
15	Injectable hyaluronic acid-dextran hydrogels and effects of implantation in ferret vocal fold. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 386-393.	1.6	40
16	Investigating the Properties of Novel Poly(2-hydroxyethyl methacrylate-co-methyl methacrylate) Hydrogel Hollow Fiber Membranes. <i>Chemistry of Materials</i> , 2001, 13, 4087-4093.	3.2	39
17	The paracrine effects of adipose-derived stem cells on neovascularization and biocompatibility of a macroencapsulation device. <i>Acta Biomaterialia</i> , 2015, 15, 65-76.	4.1	39
18	SiRNA Delivery Systems Based on Neutral Cross-Linked Dendrimers. <i>Bioconjugate Chemistry</i> , 2012, 23, 174-183.	1.8	24

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19	Defined Surface Immobilization of Glycosaminoglycan Molecules for Probing and Modulation of Cell–Material Interactions. <i>Biomacromolecules</i> , 2013, 14, 2373-2382.	2.6	23
20	A Neutralized Noncharged Polyethylenimine-Based System for Efficient Delivery of siRNA into Heart without Toxicity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33529-33538.	4.0	22
21	Guided assembly of endothelial cells on hydrogel matrices patterned with microgrooves: a basic model for microvessel engineering. <i>Soft Matter</i> , 2013, 9, 1113-1121.	1.2	19
22	Structure and stability of the complex formed by oligonucleotides. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7352.	1.3	18
23	Polymerization of Hydrogel Network on Microfiber Surface: Synthesis of Hybrid Water-Absorbing Matrices for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 887-892.	2.6	18
24	Three-Dimensional Scaffolds. , 2007, , 359-373.		16
25	Membrane-Binding Adhesive Particulates Enhance the Viability and Paracrine Function of Mesenchymal Cells for Cell-Based Therapy. <i>Biomacromolecules</i> , 2019, 20, 1007-1017.	2.6	16
26	Facile glycosylation of dendrimers for eliciting specific cell–material interactions. <i>Polymer Chemistry</i> , 2012, 3, 310-313.	1.9	15
27	Dendrimeric Bowties Featuring Hemispheric-Selective Decoration of Ligands for microRNA-Based Therapy. <i>Biomacromolecules</i> , 2013, 14, 101-109.	2.6	14
28	Nanoparticle-mediated delivery of siRNA into zebrafish heart: a cell-level investigation on the biodistribution and gene silencing effects. <i>Nanoscale</i> , 2019, 11, 18052-18064.	2.8	13
29	Phase separation of siRNA–polycation complex and its effect on transfection efficiency. <i>Soft Matter</i> , 2013, 9, 2262.	1.2	12
30	Three-dimensional scaffolds. , 2020, , 343-360.		12
31	Scaffold-supported Transplantation of Islets in the Epididymal Fat Pad of Diabetic Mice. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	10
32	Intracerebroventricular streptozotocin–induced Alzheimer's disease–like sleep disorders in rats: Role of the GABAergic system in the parabrachial complex. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 1241-1252.	1.9	9
33	Nanoparticle-mediated siRNA Gene-silencing in Adult Zebrafish Heart. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	8
34	3D Scaffolds. , 2014, , 475-494.		7
35	Non-Viral Gene Delivery Systems for Treatment of Myocardial Infarction: Targeting Strategies and Cardiac Cell Modulation. <i>Pharmaceutics</i> , 2021, 13, 1520.	2.0	4
36	Endothelial cell membrane-based biosurface for targeted delivery to acute injury: analysis of leukocyte-mediated nanoparticle transportation. <i>Nanoscale</i> , 2021, 13, 14636-14643.	2.8	4

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37	Investigating design principles of micropatterned encapsulation systems containing high-density microtissue arrays. <i>Science China Life Sciences</i> , 2014, 57, 221-231.	2.3	3
38	Evaluation of Extracellular Matrix-Based Nerve Conduits for Long-Gap Peripheral Nerve Repair in a Goat Model. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 1063-1072.	0.0	2
39	Transplantation of mesenchymal stem cell spheroids with microwell-patterned scaffolds for treating hindlimb ischemia. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
40	Nanoparticle-based nonviral delivery of siRNA in zebrafish heart: gene silencing efficiency and siRNA biodistribution. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
41	A nanofibrous macroencapsulation device for cell-based therapy: evaluation of biocompatibility and the immunoisolation function. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0