

Song Li

List of Publications by Year in descending order

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104
papers

8,428
citations

57758

44
h-index

46799

89
g-index

108
all docs

108
docs citations

108
times ranked

11655
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of matrix stiffness on the differentiation of mesenchymal stem cells in response to TGF- β ² . <i>Biomaterials</i> , 2011, 32, 3921-3930.	11.4	641
2	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , 2017, 1, 889-901.	22.5	566
3	Biophysical regulation of epigenetic state and cell reprogramming. <i>Nature Materials</i> , 2013, 12, 1154-1162.	27.5	437
4	Fluid Shear Stress Activation of Focal Adhesion Kinase. <i>Journal of Biological Chemistry</i> , 1997, 272, 30455-30462.	3.4	379
5	Antithrombogenic property of bone marrow mesenchymal stem cells in nanofibrous vascular grafts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11915-11920.	7.1	360
6	Bioactive Nanofibers: Synergistic Effects of Nanotopography and Chemical Signaling on Cell Guidance. <i>Nano Letters</i> , 2007, 7, 2122-2128.	9.1	339
7	Myotube Assembly on Nanofibrous and Micropatterned Polymers. <i>Nano Letters</i> , 2006, 6, 537-542.	9.1	293
8	Differentiation of multipotent vascular stem cells contributes to vascular diseases. <i>Nature Communications</i> , 2012, 3, 875.	12.8	249
9	Proteomic Profiling of Bone Marrow Mesenchymal Stem Cells upon Transforming Growth Factor β ² 1 Stimulation. <i>Journal of Biological Chemistry</i> , 2004, 279, 43725-43734.	3.4	215
10	Induced pluripotent stem cells for neural tissue engineering. <i>Biomaterials</i> , 2011, 32, 5023-5032.	11.4	214
11	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	199
12	Injectable Biopolymers Enhance Angiogenesis after Myocardial Infarction. <i>Tissue Engineering</i> , 2005, 11, 1860-1866.	4.6	181
13	Biodegradable Gelatin Methacryloyl Microneedles for Transdermal Drug Delivery. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801054.	7.6	177
14	Cell-Shape Regulation of Smooth Muscle Cell Proliferation. <i>Biophysical Journal</i> , 2009, 96, 3423-3432.	0.5	175
15	Giant magnetoelastic effect in soft systems for bioelectronics. <i>Nature Materials</i> , 2021, 20, 1670-1676.	27.5	175
16	The effect of fiber alignment and heparin coating on cell infiltration into nanofibrous PLLA scaffolds. <i>Biomaterials</i> , 2010, 31, 3536-3542.	11.4	152
17	Soft fibers with magnetoelasticity for wearable electronics. <i>Nature Communications</i> , 2021, 12, 6755.	12.8	150
18	Biophysical Regulation of Histone Acetylation in Mesenchymal Stem Cells. <i>Biophysical Journal</i> , 2011, 100, 1902-1909.	0.5	148

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19	The effect of stromal cell-derived factor-1 \pm /heparin coating of biodegradable vascular grafts on the recruitment of both endothelial and smooth muscle progenitor cells for accelerated regeneration. <i>Biomaterials</i> , 2012, 33, 8062-8074.	11.4	147
20	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	12.8	144
21	Vascular tissue engineering: from <i>in vitro</i> to <i>in situ</i> . <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2014, 6, 61-76.	6.6	135
22	Bioorthogonal catalytic patch. <i>Nature Nanotechnology</i> , 2021, 16, 933-941.	31.5	130
23	Induced Pluripotent Stem Cells for Regenerative Medicine. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 277-294.	12.3	123
24	Femtosecond laser ablation enhances cell infiltration into three-dimensional electrospun scaffolds. <i>Acta Biomaterialia</i> , 2012, 8, 2648-2658.	8.3	118
25	Nonthrombogenic Approaches to Cardiovascular Bioengineering. <i>Annual Review of Biomedical Engineering</i> , 2011, 13, 451-475.	12.3	105
26	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. <i>ACS Nano</i> , 2019, 13, 3830-3838.	14.6	105
27	Antithrombogenic Modification of Small-Diameter Microfibrous Vascular Grafts. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1621-1627.	2.4	104
28	Biomimetic gradient scaffold from ice-templating for self-seeding of cells with capillary effect. <i>Acta Biomaterialia</i> , 2015, 20, 113-119.	8.3	101
29	Measurement of Orientation and Distribution of Cellular Alignment and Cytoskeletal Organization. <i>Annals of Biomedical Engineering</i> , 1999, 27, 712-720.	2.5	93
30	Human iPSC-Derived Neural Crest Stem Cells Promote Tendon Repair in a Rat Patellar Tendon Window Defect Model. <i>Tissue Engineering - Part A</i> , 2013, 19, 2439-2451.	3.1	85
31	Engineering Bi-Layer Nanofibrous Conduits for Peripheral Nerve Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 705-715.	2.1	81
32	End-point immobilization of heparin on plasma-treated surface of electrospun polycarbonate-urethane vascular graft. <i>Acta Biomaterialia</i> , 2017, 51, 138-147.	8.3	79
33	Human induced pluripotent stem cell-derived neural crest stem cells integrate into the injured spinal cord in the fetal lamb model of myelomeningocele. <i>Journal of Pediatric Surgery</i> , 2013, 48, 158-163.	1.6	76
34	Unidirectional mechanical cellular stimuli via micropost array gradients. <i>Soft Matter</i> , 2011, 7, 4606.	2.7	68
35	Effect of biophysical cues on reprogramming to cardiomyocytes. <i>Biomaterials</i> , 2016, 103, 1-11.	11.4	62
36	T-cell activation is modulated by the 3D mechanical microenvironment. <i>Biomaterials</i> , 2020, 252, 120058.	11.4	60

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37	Electrospun bilayer fibrous scaffolds for enhanced cell infiltration and vascularization in vivo. <i>Acta Biomaterialia</i> , 2015, 13, 131-141.	8.3	59
38	Giant Magnetoelastic Effect Enabled Stretchable Sensor for Self-Powered Biomonitoring. <i>ACS Nano</i> , 2022, 16, 6013-6022.	14.6	59
39	Injectable Drug-Releasing Microporous Annealed Particle Scaffolds for Treating Myocardial Infarction. <i>Advanced Functional Materials</i> , 2020, 30, 2004307.	14.9	57
40	Unraveling the mechanobiology of immune cells. <i>Current Opinion in Biotechnology</i> , 2020, 66, 236-245.	6.6	55
41	Derivation of Smooth Muscle Cells with Neural Crest Origin from Human Induced Pluripotent Stem Cells. <i>Cells Tissues Organs</i> , 2012, 195, 5-14.	2.3	50
42	The Differentiation Stage of Transplanted Stem Cells Modulates Nerve Regeneration. <i>Scientific Reports</i> , 2017, 7, 17401.	3.3	50
43	Immunomodulatory microneedle patch for periodontal tissue regeneration. <i>Matter</i> , 2022, 5, 666-682.	10.0	49
44	Signal Transduction in Matrix Contraction and the Migration of Vascular Smooth Muscle Cells in Three-Dimensional Matrix. <i>Journal of Vascular Research</i> , 2003, 40, 378-388.	1.4	47
45	Growth inhibitory in vitro effects of glycyrrhizic acid in U251 glioblastoma cell line. <i>Neurological Sciences</i> , 2014, 35, 1115-1120.	1.9	44
46	Delivery of stromal cell-derived factor 1 α for in situ tissue regeneration. <i>Journal of Biological Engineering</i> , 2017, 11, 22.	4.7	42
47	Cell engineering: Biophysical regulation of the nucleus. <i>Biomaterials</i> , 2020, 234, 119743.	11.4	39
48	Engineering Biomaterials with Micro/Nanotechnologies for Cell Reprogramming. <i>ACS Nano</i> , 2020, 14, 1296-1318.	14.6	39
49	Heparin-Modified Small-Diameter Nanofibrous Vascular Grafts. <i>IEEE Transactions on Nanobioscience</i> , 2012, 11, 22-27.	3.3	38
50	Contribution of Vascular Cells to Neointimal Formation. <i>PLoS ONE</i> , 2017, 12, e0168914.	2.5	38
51	Matrix stiffness regulates the interactions between endothelial cells and monocytes. <i>Biomaterials</i> , 2019, 221, 119362.	11.4	38
52	Glucose transporter inhibitor-conjugated insulin mitigates hypoglycemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10744-10748.	7.1	38
53	Matrix stiffness modulates the differentiation of neural crest stem cells in vivo. <i>Journal of Cellular Physiology</i> , 2019, 234, 7569-7578.	4.1	38
54	Engineering of aligned skeletal muscle by micropatterning. <i>American Journal of Translational Research (discontinued)</i> , 2010, 2, 43-55.	0.0	38

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55	A rodent model of myocardial infarction for testing the efficacy of cells and polymers for myocardial reconstruction. <i>Nature Protocols</i> , 2006, 1, 1596-1609.	12.0	37
56	Adult Stem Cells in Vascular Remodeling. <i>Theranostics</i> , 2018, 8, 815-829.	10.0	37
57	Uniaxial Mechanical Strain Modulates the Differentiation of Neural Crest Stem Cells into Smooth Muscle Lineage on Micropatterned Surfaces. <i>PLoS ONE</i> , 2011, 6, e26029.	2.5	34
58	In vitro cardiomyocyte-driven biogenerator based on aligned piezoelectric nanofibers. <i>Nanoscale</i> , 2016, 8, 7278-7286.	5.6	32
59	Matrix stiffness regulates SMC functions via TGF- β^2 signaling pathway. <i>Biomaterials</i> , 2019, 221, 119407.	11.4	32
60	Augmentation of T-Cell Activation by Oscillatory Forces and Engineered Antigen-Presenting Cells. <i>Nano Letters</i> , 2019, 19, 6945-6954.	9.1	32
61	Application of lung microphysiological systems to COVID-19 modeling and drug discovery: a review. <i>Bio-Design and Manufacturing</i> , 2021, 4, 757-775.	7.7	29
62	Biophysical regulation of cell reprogramming. <i>Current Opinion in Chemical Engineering</i> , 2017, 15, 95-101.	7.8	26
63	Development of Injectable Amniotic Membrane Matrix for Postmyocardial Infarction Tissue Repair. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900544.	7.6	25
64	Photodegradable Polyacrylamide Gels for Dynamic Control of Cell Functions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5929-5944.	8.0	24
65	Synovial stem cells and their responses to the porosity of microfibrinous scaffold. <i>Acta Biomaterialia</i> , 2013, 9, 7264-7275.	8.3	23
66	Skeletal muscle regeneration via the chemical induction and expansion of myogenic stem cells in situ or in vitro. <i>Nature Biomedical Engineering</i> , 2021, 5, 864-879.	22.5	23
67	Biomaterial-based immunoengineering to fight COVID-19 and infectious diseases. <i>Matter</i> , 2021, 4, 1528-1554.	10.0	21
68	Neural crest-like stem cells for tissue regeneration. <i>Stem Cells Translational Medicine</i> , 2021, 10, 681-693.	3.3	20
69	Role of vicinal cysteine pairs in metalloid sensing by the ArsD As(III)-responsive repressor. <i>Molecular Microbiology</i> , 2001, 41, 687-696.	2.5	19
70	Sox10 ⁺ Cells Contribute to Vascular Development in Multiple Organsâ€”Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1727-1731.	2.4	19
71	Dynamic culture improves cell reprogramming efficiency. <i>Biomaterials</i> , 2016, 92, 36-45.	11.4	18
72	Mechanical regulation of histone modifications and cell plasticity. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100872.	11.5	18

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73	Immunoengineering strategies to enhance vascularization and tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , 2022, 184, 114233.	13.7	18
74	Cellular remodeling of fibrotic conduit as vascular graft. <i>Biomaterials</i> , 2021, 268, 120565.	11.4	16
75	Sox10+ adult stem cells contribute to biomaterial encapsulation and microvascularization. <i>Scientific Reports</i> , 2017, 7, 40295.	3.3	15
76	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissue-on-a-Chip for Drug Screening. <i>Small Methods</i> , 2020, 4, 2000438.	8.6	15
77	Engineered Delivery of Dental Stem-Cell-Derived Extracellular Vesicles for Periodontal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102593.	7.6	15
78	Roles of TGF β ² and FGF signals during growth and differentiation of mouse lens epithelial cell in vitro. <i>Scientific Reports</i> , 2017, 7, 7274.	3.3	13
79	Multipotent vascular stem cells contribute to neurovascular regeneration of peripheral nerve. <i>Stem Cell Research and Therapy</i> , 2019, 10, 234.	5.5	12
80	Endothelial Cell Morphology Regulates Inflammatory Cells Through MicroRNA Transferred by Extracellular Vesicles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 369.	4.1	12
81	Engineering stem cell therapeutics for cardiac repair. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 171, 56-68.	1.9	12
82	Comparison of plasma and chemical modifications of poly-L-lactide-co-caprolactone scaffolds for heparin conjugation. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 065004.	3.3	11
83	Neural crest-derived cells migrate from nerve to participate in Achilles tendon remodeling. <i>Wound Repair and Regeneration</i> , 2018, 26, 54-63.	3.0	10
84	Contribution of bone marrow-derived cells to in situ engineered tissue capsules in a rat model of chronic kidney disease. <i>Biomaterials</i> , 2019, 194, 47-56.	11.4	10
85	Nano-in-Micro Dual Delivery Platform for Chronic Wound Healing Applications. <i>Micromachines</i> , 2020, 11, 158.	2.9	10
86	Engineering organ-on-a-chip systems to model viral infections. <i>Biofabrication</i> , 2023, 15, 022001.	7.1	10
87	Loosely-packed dynamical structures with partially-melted surface being the key for thermophilic argonaute proteins achieving high DNA-cleavage activity. <i>Nucleic Acids Research</i> , 2022, 50, 7529-7544.	14.5	9
88	Multi-scale cellular engineering: From molecules to organ-on-a-chip. <i>APL Bioengineering</i> , 2020, 4, 010906.	6.2	8
89	Micro/nano materials regulate cell morphology and intercellular communication by extracellular vesicles. <i>Acta Biomaterialia</i> , 2021, 124, 130-138.	8.3	8
90	Intramuscular delivery of neural crest stem cell spheroids enhances neuromuscular regeneration after denervation injury. <i>Stem Cell Research and Therapy</i> , 2022, 13, 205.	5.5	8

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91	Expression and Cell Distribution of SENP3 in the Cerebral Cortex After Experimental Subarachnoid Hemorrhage in Rats: A Pilot Study. <i>Cellular and Molecular Neurobiology</i> , 2015, 35, 407-416.	3.3	7
92	Regeneration of a neoartery through a completely autologous acellular conduit in a minipig model: a pilot study. <i>Journal of Translational Medicine</i> , 2019, 17, 24.	4.4	7
93	Differentiation of Neural Crest Stem Cells in Response to Matrix Stiffness and TGF- β 1 in Vascular Regeneration. <i>Stem Cells and Development</i> , 2020, 29, 249-256.	2.1	7
94	Asymmetric Cell Division of Fibroblasts is An Early Deterministic Step to Generate Elite Cells during Cell Reprogramming. <i>Advanced Science</i> , 2021, 8, 2003516.	11.2	7
95	Microtopography Attenuates Endothelial Cell Proliferation by Regulating MicroRNAs. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2017, 08, 189-201.	0.5	7
96	The HIV-1 matrix protein p17 activates the transcription factors c-Myc and CREB in human B cells. <i>New Microbiologica</i> , 2010, 33, 13-24.	0.1	7
97	Three-dimensional Imaging Coupled with Topological Quantification Uncovers Retinal Vascular Plexuses Undergoing Obliteration. <i>Theranostics</i> , 2021, 11, 1162-1175.	10.0	6
98	Engineering the Composition of Microfibers to Enhance the Remodeling of a Cell-Free Vascular Graft. <i>Nanomaterials</i> , 2021, 11, 1613.	4.1	5
99	Augmenting T-cell responses to tumors by <i>in situ</i> nanomanufacturing. <i>Materials Horizons</i> , 2020, 7, 3028-3033.	12.2	3
100	Drug Delivery: Injectable Drug-Releasing Microporous Annealed Particle Scaffolds for Treating Myocardial Infarction (<i>Adv. Funct. Mater.</i> 43/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070289.	14.9	2
101	Substrate Stiffness Regulates Cholesterol Efflux in Smooth Muscle Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 648715.	3.7	2
102	End-Point Immobilization of Heparin on Electrospun Polycarbonate-Urethane Vascular Graft. <i>Methods in Molecular Biology</i> , 2022, 2375, 47-59.	0.9	2
103	Engineering Microenvironments to Control Stem Cell Functions. , 0, , 311-326.		0
104	The molecular dynamics of focal adhesion kinase in the mechanotaxis of endothelial cell migration. , 0, , .		0