Liping Tang

List of Publications by Year
in descending order

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116 papers	6,551 citations	94433 37 h-index	69250 77 g-index
120 all docs	120 docs citations	120 times ranked	9891 citing authors

#	Article	IF	Citations
1	Biomoleculesâ€releasing click chemistryâ€based bioadhesives for repairing acetabular labrum tears. Journal of Orthopaedic Research, 2022, 40, 2646-2655.	2.3	3
2	Regional-specific meniscal extracellular matrix hydrogels and their effects on cellâ€“matrix interactions of fibrochondrocytes. Biomedical Materials (Bristol), 2022, 17, 014105.	3.3	13
3	Role of fibronectin and IOL surface modification in IOL: Lens capsule interactions. Experimental Eye Research, 2022, , 109135.	2.6	2
4	Diagnostics for Wound Infections. Advances in Wound Care, 2021, 10, 317-327.	5.1	47
5	Imaging of Actively Proliferating Bacterial Infections by Targeting the Bacterial Metabolic Footprint with <scp>d</scp>-[5-¹¹C]-Glutamine. ACS Infectious Diseases, 2021, 7, 347-361.	3.8	20
6	An in vitro system to investigate IOL: Lens capsule interaction. Experimental Eye Research, 2021, 203, 108430.	2.6	5
7	Click chemistry-based pre-targeting cell delivery for cartilage regeneration. International Journal of Energy Production and Management, 2021, 8, rbab018.	3.7	7
8	A nonâ€contact device for fast screening of wound infections. Experimental Dermatology, 2021, 30, 1332-1339.	2.9	1
9	Effect of time and temperature-dependent changes of IOL material properties on IOL: Lens capsule interactions. Experimental Eye Research, 2021, 211, 108726.	2.6	2
10	Imaging in Chronic Wound Diagnostics. Advances in Wound Care, 2020, 9, 245-263.	5.1	40
11	A nearâ€infrared fluorescent pH sensing film for wound milieu pH monitoring. Experimental Dermatology, 2020, 29, 107-111.	2.9	12
12	A pretargeting nanoplatform for imaging and enhancing anti-inflammatory drug delivery. Bioactive Materials, 2020, 5, 1102-1112.	15.6	16
13	Enhanced Endothelial Cell Delivery for Repairing Injured Endothelium via Pretargeting Approach and Bioorthogonal Chemistry. ACS Biomaterials Science and Engineering, 2020, 6, 6831-6841.	5.2	5
14	Combined Tumor Environment Triggered Selfâ€Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. Small, 2020, 16, e2002780.	10.0	13
15	Injectable Click Chemistry-based Bioadhesives for Accelerated Wound Closure. Acta Biomaterialia, 2020, 110, 95-104.	8.3	25
16	Chemokine releasing particle implants for trapping circulating prostate cancer cells. Scientific Reports, 2020, 10, 4433.	3.3	4
17	The antilymphatic metastatic effect of hyaluronic acid in a mouse model of oral squamous cell carcinoma. Cancer Biology and Therapy, 2020, 21, 541-548.	3.4	2
18	Recruitment of endogenous progenitor cells by erythropoietin loaded particles for in situ cartilage regeneration. Bioactive Materials, 2020, 5, 142-152.	15.6	16

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19	Optimizing Anisotropic Polyurethane Scaffolds to Mechanically Match with Native Myocardium. ACS Biomaterials Science and Engineering, 2020, 6, 2757-2769.	5.2	14
20	A Device to Predict Short-Term Healing Outcome of Chronic Wounds. Advances in Wound Care, 2020, 9, 312-324.	5.1	19
21	Device-Related Infections. , 2020, , 171-188.		2
22	Development of 3D Lymph Node Mimetic for Studying Prostate Cancer Metastasis. Advanced Biology, 2019, 3, 1900019.	3.0	4
23	An innovative peptide with high affinity to GPC3 for hepatocellular carcinoma diagnosis. Biomaterials Science, 2019, 7, 159-167.	5.4	22
24	Mechanical Strength, Biodegradation, and in Vitro and in Vivo Biocompatibility of Zn Biomaterials. ACS Applied Materials & Interfaces, 2019, 11, 6809-6819.	8.0	111
25	Biofunctionalization of metallic implants by calcium phosphate coatings. Bioactive Materials, 2019, 4, 196-206.	15.6	173
26	Development of a dual-wavelength fluorescent nanoprobe for in vivo and in vitro cell tracking consecutively. Bioorganic and Medicinal Chemistry, 2019, 27, 1855-1862.	3.0	3
27	Bacterial acidity-triggered antimicrobial activity of self-assembling peptide nanofibers. Journal of Materials Chemistry B, 2019, 7, 2915-2919.	5.8	22
28	Tracking and Imaging of Transplanted Stem Cells in Animals. Methods in Molecular Biology, 2019, 2150, 45-56.	0.9	5
29	Nanoparticle eluting-angioplasty balloons to treat cardiovascular diseases. International Journal of Pharmaceutics, 2019, 554, 212-223.	5.2	25
30	Design and evaluation of an imager for assessing wound inflammatory responses and bioburden in a pig model. Journal of Biomedical Optics, 2019, 25, 1.	2.6	2
31	A novel nearâ€infrared fluorescent probe for monitoring cyclooxygenaseâ€2 in inflammation and tumor. Journal of Biophotonics, 2018, 11, e201700339.	2.3	13
32	Biodegradable Nanoparticles Enhanced Adhesiveness of Musselâ€Like Hydrogels at Tissue Interface. Advanced Healthcare Materials, 2018, 7, e1701069.	7.6	47
33	Preparation of a novel injectable in situ-gelling nanoparticle with applications in controlled protein release and cancer cell entrapment. RSC Advances, 2018, 8, 34625-34633.	3.6	9
34	Hyaluronic Acid-Based Optical Probe for the Diagnosis of Human Osteoarthritic Cartilage. Nanotheranostics, 2018, 2, 347-359.	5.2	6
35	Zinc regulates vascular endothelial cell activity through zinc-sensing receptor ZnR/GPR39. American Journal of Physiology - Cell Physiology, 2018, 314, C404-C414.	4.6	64
36	Dual target gene therapy to EML4-ALK NSCLC by a gold nanoshell-based system. Theranostics, 2018, 8, 2621-2633.	10.0	19

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37	Design of a portable imager for near-infrared visualization of cutaneous wounds. Journal of Biomedical Optics, 2017, 22, 016010.	2.6	12
38	Influence of scaffold design on host immune and stem cell responses. Seminars in Immunology, 2017, 29, 62-71.	5.6	34
39	Rapid repeatable inÂvivo detection of retinal reactive oxygen species. Experimental Eye Research, 2017, 161, 71-81.	2.6	16
40	Low-Initial-Modulus Biodegradable Polyurethane Elastomers for Soft Tissue Regeneration. ACS Applied Materials & Interfaces, 2017, 9, 2169-2180.	8.0	69
41	An optical probe for detecting chondrocyte apoptosis in response to mechanical injury. Scientific Reports, 2017, 7, 10906.	3.3	8
42	Biological Responses and Mechanisms of Human Bone Marrow Mesenchymal Stem Cells to Zn and Mg Biomaterials. ACS Applied Materials & Interfaces, 2017, 9, 27453-27461.	8.0	162
43	The Mechanisms and Biomedical Applications of an NIR BODIPY-Based Switchable Fluorescent Probe. International Journal of Molecular Sciences, 2017, 18, 384.	4.1	22
44	Thermosensitive hydrogels deliver bioactive protein to the vaginal wall. PLoS ONE, 2017, 12, e0186268.	2.5	13
45	In vivo monitoring of activated macrophages and neutrophils in response to ischemic osteonecrosis in a mouse model. Journal of Orthopaedic Research, 2016, 34, 307-313.	2.3	12
46	Ratiometric Reactive Oxygen Species Nanoprobe for Noninvasive <I>In Vivo</I> Imaging of Subcutaneous Inflammation/Infection. Journal of Biomedical Nanotechnology, 2016, 12, 1679-1687.	1.1	2
47	Development of dopant-free conductive bioelastomers. Scientific Reports, 2016, 6, 34451.	3.3	35
48	Computational modeling of phagocyte transmigration for foreign body responses to subcutaneous biomaterial implants in mice. BMC Bioinformatics, 2016, 17, 111.	2.6	5
49	InÂvivo and inÂvitro evaluation of hydroxyapatite nanoparticle morphology on the acute inflammatory response. Biomaterials, 2016, 90, 1-11.	11.4	63
50	Non-invasive Characterization of Immune Responses to Biomedical Implants. Annals of Biomedical Engineering, 2016, 44, 693-704.	2.5	7
51	Multifunctional near-infrared light-triggered biodegradable micelles for chemo- and photo-thermal combination therapy. Oncotarget, 2016, 7, 82170-82184.	1.8	26
52	Novel harmine derivatives for tumor targeted therapy. Oncotarget, 2015, 6, 8988-9001.	1.8	31
53	An injectable extracellular matrix derived hydrogel for meniscus repair and regeneration. Acta Biomaterialia, 2015, 16, 49-59.	8.3	168
54	Novel source of human hematopoietic stem cells from peritoneal dialysis effluents. Stem Cell Research, 2015, 15, 299-304.	0.7	5

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55	Methods Used to Evaluate the Host Responses to Medical Implants In Vivo. , 2015, , 425-440.		1
56	Triggerable Degradation of Polyurethanes for Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2015, 7, 20377-20388.	8.0	55
57	Tissue Engineering Bone Using Autologous Progenitor Cells in the Peritoneum. PLoS ONE, 2014, 9, e93514.	2.5	13
58	Realâ€Time Noninvasive Monitoring of In Vivo Inflammatory Responses using a pH Ratiometric Fluorescence Imaging Probe. Advanced Healthcare Materials, 2014, 3, 221-229.	7.6	38
59	Optical imaging of fibrin deposition to elucidate participation of mast cells in foreign body responses. Biomaterials, 2014, 35, 2089-2096.	11.4	18
60	Effects of nanoporous alumina on inflammatory cell response. Journal of Biomedical Materials Research - Part A, 2014, 102, 3773-3780.	4.0	13
61	In Situ Re-endothelialization via Multifunctional Nanoscaffolds. ACS Nano, 2014, 8, 10826-10836.	14.6	29
62	Development of optical probes for in vivo imaging of polarized macrophages during foreign body reactions. Acta Biomaterialia, 2014, 10, 2945-2955.	8.3	30
63	Alternative strategies to manipulate fibrocyte involvement in the fibrotic tissue response: Pharmacokinetic inhibition and the feasibility of directed-adipogenic differentiation. Acta Biomaterialia, 2014, 10, 3108-3116.	8.3	19
64	Multi-Ligand Poly(l-Lactic-co-Glycolic Acid) Nanoparticles Inhibit Activation of Endothelial Cells. Journal of Cardiovascular Translational Research, 2013, 6, 570-578.	2.4	16
65	In vivo evaluation of medical device-associated inflammation using a macrophage-specific positron emission tomography (PET) imaging probe. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2044-2047.	2.2	16
66	The effect of erythropoietin on autologous stem cell-mediated bone regeneration. Biomaterials, 2013, 34, 7364-7371.	11.4	50
67	A computational model of fibroblast and macrophage spatial/temporal dynamics in foreign body reactions. Journal of Immunological Methods, 2013, 397, 37-46.	1.4	5
68	Fluorescence imaging enabled urethane-doped citrate-based biodegradable elastomers. Biomaterials, 2013, 34, 4048-4056.	11.4	53
69	Novel thermogelling dispersions of polymer nanoparticles for controlled protein release. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1301-1308.	3.3	14
70	Injectable citrate-based mussel-inspired tissue bioadhesives with high wet strength for sutureless wound closure. Biomaterials, 2012, 33, 7972-7983.	11.4	359
71	Real-time detection of implant-associated neutrophil responses using a formyl peptide receptor-targeting NIR nanoprobe. International Journal of Nanomedicine, 2012, 7, 2057.	6.7	21
72	Noninvasive assessment of localized inflammatory responses. Free Radical Biology and Medicine, 2012, 52, 218-226.	2.9	35

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73	The use of chemokine-releasing tissue engineering scaffolds in a model of inflammatory response-mediated melanoma cancer metastasis. Biomaterials, 2012, 33, 876-885.	11.4	30
74	Fibroblast/Fibrocyte: Surface Interaction Dictates Tissue Reactions to Micropillar Implants. Biomacromolecules, 2011, 12, 997-1005.	5.4	46
75	A mathematical model for foreign body reactions in 2D. International Journal of Computer Mathematics, 2011, 88, 610-633.	1.8	9
76	A predictive tool for foreign body fibrotic reactions using a two-dimensional computational model. Open Access Bioinformatics, 2011, 2011, 19.	0.9	7
77	The pivotal role of fibrocytes and mast cells in mediating fibrotic reactions to biomaterials. Biomaterials, 2011, 32, 8394-8403.	11.4	77
78	Real time monitoring of biomaterial-mediated inflammatory responses via macrophage-targeting NIR nanoprobes. Biomaterials, 2011, 32, 9383-9390.	11.4	47
79	Nonlinear RANSAC Optimization for Parameter Estimation with Applications to Phagocyte Transmigration. , 2011, , .		2
80	A DUAL-MODALITY OPTICAL BIOPSY APPROACH FOR IN VIVO DETECTION OF PROSTATE CANCER IN RAT MODEL. Journal of Innovative Optical Health Sciences, 2011, 04, 269-277.	1.0	8
81	Intraocular Pressure Changes: An Important Determinant of the Biocompatibility of Intravitreous Implants. PLoS ONE, 2011, 6, e28720.	2.5	13
82	Nonlinear RANSAC Optimization for Parameter Estimation with Applications to Phagocyte Transmigration. , 2011, 1, 501-504.		1
83	The effect of incorporation of SDF-1Î± into PLGA scaffolds on stem cell recruitment and the inflammatory response. Biomaterials, 2010, 31, 3997-4008.	11.4	251
84	Nanomaterial cytotoxicity is composition, size, and cell type dependent. Particle and Fibre Toxicology, 2010, 7, 22.	6.2	549
85	Novel Polymeric Scaffolds Using Protein Microbubbles as Porogen and Growth Factor Carriers. Tissue Engineering - Part C: Methods, 2010, 16, 23-32.	2.1	44
86	Computational modeling of phagocyte transmigration during biomaterial-mediated foreign body responses. , 2010, 2010, 609-612.		4
87	Studies of the cellular uptake of hydrogel nanospheres and microspheres by phagocytes, vascular endothelial cells, and smooth muscle cells. Journal of Biomedical Materials Research - Part A, 2009, 88A, 1020-1030.	4.0	26
88	Surface chemistry influences implantâ€mediated host tissue responses. Journal of Biomedical Materials Research - Part A, 2008, 86A, 617-626.	4.0	105
89	Surface chemistry influences cancer killing effect of TiO2 nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 226-236.	3.3	203
90	Method to Analyze Three-Dimensional Cell Distribution and Infiltration in Degradable Scaffolds. Tissue Engineering - Part C: Methods, 2008, 14, 319-331.	2.1	149

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91	A hybrid computational model for phagocyte transmigration. , 2008, 2008, .		2
92	Viscoelastic Behavior and In Vivo Release Study of Microgel Dispersions with Inverse Thermoreversible Gelation. Biomacromolecules, 2008, 9, 142-148.	5.4	65
93	Species and Density of Implant Surface Chemistry Affect the Extent of Foreign Body Reactions. Langmuir, 2008, 24, 2015-2024.	3.5	46
94	Surface Chemistry Influences Implant Biocompatibility. Current Topics in Medicinal Chemistry, 2008, 8, 270-280.	2.1	671
95	Nano-featured highly interconnective macroporous elastic scaffolds for cardiovascular tissue engineering. , 2007, , .		2
96	Phagocyte Transmigration Modeling Using System Dynamic Controls. , 2007, , .		2
97	Mathematical Modeling of Phagocyte Chemotaxis toward and Adherence to Biomaterial Implants. , 2007, , .		6
98	Histamine release and fibrinogen adsorption mediate acute inflammatory responses to biomaterial implants in humans. Journal of Translational Medicine, 2007, 5, 31.	4.4	126
99	Phagocyte responses to degradable polymers. Journal of Biomedical Materials Research - Part A, 2007, 82A, 492-497.	4.0	53
100	Development of a Temperature-Sensitive Composite Hydrogel for Drug Delivery Applications. Biotechnology Progress, 2006, 22, 118-125.	2.6	135
101	A Rabbit Model for Capsular Contracture: Development and Clinical Implications. Plastic and Reconstructive Surgery, 2006, 117, 1214-1219.	1.4	131
102	Curcumin impregnation improves the mechanical properties and reduces the inflammatory response associated with poly(L-lactic acid) fiber. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 353-370.	3.5	40
103	Molecular determinants of biocompatibility. Expert Review of Medical Devices, 2005, 2, 493-500.	2.8	82
104	Controlled Release from and Tissue Response to Physically Bonded Hydrogel Nanoparticle Assembly. Macromolecular Symposia, 2005, 227, 275-284.	0.7	14
105	Tissue responses to thermally-responsive hydrogel nanoparticles. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 1167-1180.	3.5	55
106	Molecular responses of vascular smooth muscle cells to paclitaxel-eluting bioresorbable stent materials. Journal of Biomedical Materials Research Part B, 2004, 69A, 513-524.	3.1	16
107	Molecular responses of vascular smooth muscle cells and phagocytes to curcumin-eluting bioresorbable stent materials. Biomaterials, 2004, 25, 5333-5346.	11.4	45
108	The participation of P- and E-selectins on biomaterial-mediated tissue responses. Journal of Biomedical Materials Research Part B, 2002, 62, 471-477.	3.1	22

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109	Molecular basis of biomaterial-mediated foreign body reactions. Blood, 2001, 98, 1231-1238.	1.4	385
110	Natural Responses to Unnatural Materials: A Molecular Mechanism for Foreign Body Reactions. Molecular Medicine, 1999, 5, 351-358.	4.4	117
111	Complement activation and inflammation triggered by model biomaterial surfaces. , 1998, 41, 333-340.		94
112	Fibrinogen adsorption and host tissue responses to plasma functionalized surfaces. , 1998, 42, 156-163.		111
113	Mechanisms of fibrinogen domains : biomaterial interactions. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 1257-1266.	3.5	52
114	Minimal Removal of Iron-Dextran by Conventional Haemodialysis. Clinical Drug Investigation, 1997, 14, 12-15.	2.2	4
115	Inflammatory Responses to Biomaterials. American Journal of Clinical Pathology, 1995, 103, 466-471.	0.7	427
116	Molecular Mechanism of Biomaterial-Mediated Phagocyte Responses. , 0, , 3-14.		4