

Qiang Lu

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

6,141
citations

66234

42
h-index

71532

76
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105
all docs

105
docs citations

105
times ranked

5931
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploration of sea anemone-inspired high-performance biomaterials with enhanced antioxidant activity. <i>Bioactive Materials</i> , 2022, 10, 504-514.	8.6	9
2	Nerve Growth Factor-Laden Anisotropic Silk Nanofiber Hydrogels to Regulate Neuronal/Astroglial Differentiation for Scarless Spinal Cord Repair. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3701-3715.	4.0	33
3	MSCâ€Laden Composite Hydrogels for Inflammation and Angiogenic Regulation for Skin Flap Repair. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	3
4	Silk Nanocarrier Size Optimization for Enhanced Tumor Cell Penetration and Cytotoxicity In Vitro. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 140-150.	2.6	8
5	Macroporous Silk Nanofiber Cryogels with Tunable Properties. <i>Biomacromolecules</i> , 2022, 23, 2160-2169.	2.6	9
6	Anisotropic silk nanofiber layers as regulators of angiogenesis for optimized bone regeneration. <i>Materials Today Bio</i> , 2022, 15, 100283.	2.6	7
7	Engineered Tough Silk Hydrogels through Assembling β -Sheet Rich Nanofibers Based on a Solvent Replacement Strategy. <i>ACS Nano</i> , 2022, 16, 10209-10218.	7.3	23
8	Injectable silk/hydroxyapatite nanocomposite hydrogels with vascularization capacity for bone regeneration. <i>Journal of Materials Science and Technology</i> , 2021, 63, 172-181.	5.6	44
9	Injectable silk nanofiber hydrogels as stem cell carriers to accelerate wound healing. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7771-7781.	2.9	16
10	Injectable Desferrioxamine-Laden Silk Nanofiber Hydrogels for Accelerating Diabetic Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1147-1158.	2.6	39
11	Fragile-Tough Mechanical Reversion of Silk Materials via Tuning Supramolecular Assembly. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2337-2345.	2.6	8
12	Nerve Guidance Conduits with Hierarchical Anisotropic Architecture for Peripheral Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100427.	3.9	38
13	Silk Biomaterials for Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , 2021, 21, e2100153.	2.1	28
14	Short Silk Nanoribbons Decorated by Au Nanoparticles as Substrates for Sensitive and Uniform Surface-Enhanced Raman Spectroscopy Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 6376-6385.	2.4	4
15	Blastocyst-Inspired Hydrogels to Maintain Undifferentiation of Mouse Embryonic Stem Cells. <i>ACS Nano</i> , 2021, 15, 14162-14173.	7.3	8
16	Pressure-driven spreadable deferoxamine-laden hydrogels for vascularized skin flaps. <i>Biomaterials Science</i> , 2021, 9, 3162-3170.	2.6	12
17	Asiaticoside-laden silk nanofiber hydrogels to regulate inflammation and angiogenesis for scarless skin regeneration. <i>Biomaterials Science</i> , 2021, 9, 5227-5236.	2.6	39
18	Waterâ€Insoluble amorphous silk fibroin scaffolds from aqueous solutions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 798-808.	1.6	8

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19	Bio-inspired anisotropic polymeric heart valves exhibiting valve-like mechanical and hemodynamic behavior. <i>Science China Materials</i> , 2020, 63, 629-643.	3.5	12
20	Sustained release of inhibitor from bionic scaffolds for wound healing and functional regeneration. <i>Biomaterials Science</i> , 2020, 8, 5647-5655.	2.6	9
21	Tough Anisotropic Silk Nanofiber Hydrogels with Osteoinductive Capacity. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2357-2367.	2.6	31
22	Injectable hydrogel systems with multiple biophysical and biochemical cues for bone regeneration. <i>Biomaterials Science</i> , 2020, 8, 2537-2548.	2.6	50
23	3D printing-directed auxetic Kevlar aerogel architectures with multiple functionalization options. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14243-14253.	5.2	48
24	Natural Nanofiber Shuttles for Transporting Hydrophobic Cargo into Aqueous Solutions. <i>Biomacromolecules</i> , 2020, 21, 1022-1030.	2.6	16
25	Microskin-Inspired Injectable MSC-Laden Hydrogels for Scarless Wound Healing with Hair Follicles. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000041.	3.9	48
26	Microfluidic Silk Fibers with Aligned Hierarchical Microstructures. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2847-2854.	2.6	18
27	Electric field-driven building blocks for introducing multiple gradients to hydrogels. <i>Protein and Cell</i> , 2020, 11, 267-285.	4.8	35
28	Injectable Silk Nanofiber Hydrogels for Sustained Release of Small-Molecule Drugs and Vascularization. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4077-4088.	2.6	64
29	Subtle Regulation of Scaffold Stiffness for the Optimized Control of Cell Behavior. <i>ACS Applied Bio Materials</i> , 2019, 2, 3108-3119.	2.3	25
30	Concentrated Conditioned Medium-Loaded Silk Nanofiber Hydrogels with Sustained Release of Bioactive Factors To Improve Skin Regeneration. <i>ACS Applied Bio Materials</i> , 2019, 2, 4397-4407.	2.3	6
31	SERS Substrate with Silk Nanoribbons as Interlayer Template. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42896-42903.	4.0	22
32	Injectable Silk-Chitosan Composite Hydrogels with Tunable Sustained Drug Release Capacity. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6602-6609.	2.6	12
33	Structure-Property Relationships with Silk Materials. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2762-2768.	2.6	17
34	Calcium sulfate bone cements with nanoscaled silk fibroin as inducer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2611-2619.	1.6	12
35	Amorphous Silk Fibroin Nanofiber Hydrogels with Enhanced Mechanical Properties. <i>Macromolecular Bioscience</i> , 2019, 19, e1900326.	2.1	18
36	Silk-Chitosan Graphene Hybrid Hydrogels with Multiple Cues to Induce Nerve Cell Behavior. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 613-622.	2.6	45

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37	Biomimetic Silk Scaffolds with an Amorphous Structure for Soft Tissue Engineering. ACS Applied Materials & Interfaces, 2018, 10, 9290-9300.	4.0	53
38	Controlling Cell Behavior on Silk Nanofiber Hydrogels with Tunable Anisotropic Structures. ACS Biomaterials Science and Engineering, 2018, 4, 933-941.	2.6	34
39	A study of the initial adhesive force of cells on silk fibroin-based materials using micropipette aspiration. International Journal of Energy Production and Management, 2018, 5, 151-157.	1.9	6
40	Bioactive silk hydrogels with tunable mechanical properties. Journal of Materials Chemistry B, 2018, 6, 2739-2746.	2.9	41
41	Anisotropic Biomimetic Silk Scaffolds for Improved Cell Migration and Healing of Skin Wounds. ACS Applied Materials & Interfaces, 2018, 10, 44314-44323.	4.0	67
42	Growth factor-free salt-leached silk scaffolds for differentiating endothelial cells. Journal of Materials Chemistry B, 2018, 6, 4308-4313.	2.9	9
43	Sonication Exfoliation of Defect-Free Graphene in Aqueous Silk Nanofiber Solutions. ACS Sustainable Chemistry and Engineering, 2018, 6, 12261-12267.	3.2	28
44	Mass Production of Biocompatible Graphene Using Silk Nanofibers. ACS Applied Materials & Interfaces, 2018, 10, 22924-22931.	4.0	40
45	Nanoscale Silk-Hydroxyapatite Hydrogels for Injectable Bone Biomaterials. ACS Applied Materials & Interfaces, 2017, 9, 16913-16921.	4.0	99
46	Simulation of ECM with silk and chitosan nanocomposite materials. Journal of Materials Chemistry B, 2017, 5, 4789-4796.	2.9	23
47	Fabrication of Silk Scaffolds with Nanomicroscaled Structures and Tunable Stiffness. Biomacromolecules, 2017, 18, 2073-2079.	2.6	31
48	Silk Nanofibers as Robust and Versatile Emulsifiers. ACS Applied Materials & Interfaces, 2017, 9, 35693-35700.	4.0	20
49	Silk Biomaterials with Vascularization Capacity. Advanced Functional Materials, 2016, 26, 421-432.	7.8	96
50	Amorphous Silk Nanofiber Solutions for Fabricating Silk-Based Functional Materials. Biomacromolecules, 2016, 17, 3000-3006.	2.6	64
51	Silk-Hydroxyapatite Nanoscale Scaffolds with Programmable Growth Factor Delivery for Bone Repair. ACS Applied Materials & Interfaces, 2016, 8, 24463-24470.	4.0	84
52	Direct Formation of Silk Nanoparticles for Drug Delivery. ACS Biomaterials Science and Engineering, 2016, 2, 2050-2057.	2.6	67
53	Hydrogel Assembly with Hierarchical Alignment by Balancing Electrostatic Forces. Advanced Materials Interfaces, 2016, 3, 1500687.	1.9	87
54	Injectable and pH-Responsive Silk Nanofiber Hydrogels for Sustained Anticancer Drug Delivery. ACS Applied Materials & Interfaces, 2016, 8, 17118-17126.	4.0	172

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55	Metal Oxide Nanomaterials with Nitrogen-Doped Graphene-Silk Nanofiber Complexes as Templates. Particle and Particle Systems Characterization, 2016, 33, 286-292.	1.2	4
56	Bioactive natural protein-hydroxyapatite nanocarriers for optimizing osteogenic differentiation of mesenchymal stem cells. Journal of Materials Chemistry B, 2016, 4, 3555-3561.	2.9	35
57	Buccal Mucosa Repair with Electrospun Silk Fibroin Matrix in a Rat Model. International Journal of Artificial Organs, 2015, 38, 105-112.	0.7	20
58	Hierarchical charge distribution controls self-assembly process of silk in vitro. Frontiers of Materials Science, 2015, 9, 382-391.	1.1	14
59	Biom mineralization of Stable and Monodisperse Vaterite Microspheres Using Silk Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 1735-1745.	4.0	57
60	Silk-regulated hierarchical hollow magnetite/carbon nanocomposite spheroids for lithium-ion battery anodes. Nanotechnology, 2015, 26, 115603.	1.3	14
61	Silk scaffolds with tunable mechanical capability for cell differentiation. Acta Biomaterialia, 2015, 20, 22-31.	4.1	80
62	Design of silk-vaterite microsphere systems as drug carriers with pH-responsive release behavior. Journal of Materials Chemistry B, 2015, 3, 8314-8320.	2.9	11
63	Regeneration of high-quality silk fibroin fiber by wet spinning from CaCl ₂ formic acid solvent. Acta Biomaterialia, 2015, 12, 139-145.	4.1	100
64	Osteoinductive-nanoscaled silk/HA composite scaffolds for bone tissue engineering application. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1402-1414.	1.6	38
65	A mild process to design silk scaffolds with reduced β -sheet structure and various topographies at the nanometer scale. Acta Biomaterialia, 2015, 13, 168-176.	4.1	57
66	Chemomechanics of ionically conductive ceramics for electrical energy conversion and storage. Journal of Electroceramics, 2014, 32, 3-27.	0.8	38
67	Biom mineralization regulation by nano-sized features in silk fibroin proteins: Synthesis of water-dispersible nano-hydroxyapatite. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1720-1729.	1.6	30
68	Woven silk fabric-reinforced silk nanofibrous scaffolds for regenerating load-bearing soft tissues. Acta Biomaterialia, 2014, 10, 921-930.	4.1	73
69	One-step synthesis of biocompatible magnetite/silk fibroin core-shell nanoparticles. Journal of Materials Chemistry B, 2014, 2, 7394-7402.	2.9	26
70	Silk nanofiber hydrogels with tunable modulus to regulate nerve stem cell fate. Journal of Materials Chemistry B, 2014, 2, 6590-6600.	2.9	58
71	Nanoscale control of silks for nanofibrous scaffold formation with an improved porous structure. Journal of Materials Chemistry B, 2014, 2, 2622-2633.	2.9	41
72	Silk dissolution and regeneration at the nanofibril scale. Journal of Materials Chemistry B, 2014, 2, 3879.	2.9	98

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73	Reversible Hydrogel Solution System of Silk with High Beta-Sheet Content. <i>Biomacromolecules</i> , 2014, 15, 3044-3051.	2.6	110
74	Conductive Au nanowires regulated by silk fibroin nanofibers. <i>Frontiers of Materials Science</i> , 2014, 8, 102-105.	1.1	10
75	Silk porous scaffolds with nanofibrous microstructures and tunable properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 28-37.	2.5	39
76	Bilayered vascular grafts based on silk proteins. <i>Acta Biomaterialia</i> , 2013, 9, 8991-9003.	4.1	91
77	Hierarchical biomineralization of calcium carbonate regulated by silk microspheres. <i>Acta Biomaterialia</i> , 2013, 9, 6974-6980.	4.1	51
78	Controllable transition of silk fibroin nanostructures: An insight into in vitro silk self-assembly process. <i>Acta Biomaterialia</i> , 2013, 9, 7806-7813.	4.1	99
79	Control of Olfactory Ensheathing Cell Behaviors by Electrospun Silk Fibroin Fibers. <i>Cell Transplantation</i> , 2013, 22, 39-50.	1.2	19
80	Flexibility Regeneration of Silk Fibroin in Vitro. <i>Biomacromolecules</i> , 2012, 13, 2148-2153.	2.6	63
81	Mechanisms and Control of Silk-Based Electrospinning. <i>Biomacromolecules</i> , 2012, 13, 798-804.	2.6	119
82	Silk Self-Assembly Mechanisms and Control From Thermodynamics to Kinetics. <i>Biomacromolecules</i> , 2012, 13, 826-832.	2.6	180
83	Salt-Leached Silk Scaffolds with Tunable Mechanical Properties. <i>Biomacromolecules</i> , 2012, 13, 3723-3729.	2.6	88
84	Gold nanoclusters as contrast agents for fluorescent and X-ray dual-modality imaging. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 239-244.	5.0	66
85	Nanoscale control of silks for regular hydroxyapatite formation. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 115-119.	1.8	9
86	Degradation Mechanism and Control of Silk Fibroin. <i>Biomacromolecules</i> , 2011, 12, 1080-1086.	2.6	260
87	Surface immobilization of antibody on silk fibroin through conformational transition. <i>Acta Biomaterialia</i> , 2011, 7, 2782-2786.	4.1	20
88	Silk fibroin electrogelation mechanisms. <i>Acta Biomaterialia</i> , 2011, 7, 2394-2400.	4.1	128
89	Nanofibrous architecture of silk fibroin scaffolds prepared with a mild self-assembly process. <i>Biomaterials</i> , 2011, 32, 1059-1067.	5.7	108
90	Electrogelation for Protein Adhesives. <i>Advanced Materials</i> , 2010, 22, 711-715.	11.1	168

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91	Green Process to Prepare Silk Fibroin/Gelatin Biomaterial Scaffolds. <i>Macromolecular Bioscience</i> , 2010, 10, 289-298.	2.1	77
92	Stabilization and Release of Enzymes from Silk Films. <i>Macromolecular Bioscience</i> , 2010, 10, 359-368.	2.1	127
93	Silk nanospheres and microspheres from silk/pva blend films for drug delivery. <i>Biomaterials</i> , 2010, 31, 1025-1035.	5.7	372
94	Water-insoluble silk films with silk I structure. <i>Acta Biomaterialia</i> , 2010, 6, 1380-1387.	4.1	530
95	Insoluble and Flexible Silk Films Containing Glycerol. <i>Biomacromolecules</i> , 2010, 11, 143-150.	2.6	187
96	Biomaterials from Ultrasonication-Induced Silk Fibroin-Hyaluronic Acid Hydrogels. <i>Biomacromolecules</i> , 2010, 11, 3178-3188.	2.6	168
97	Growth of fibroblast and vascular smooth muscle cells in fibroin/collagen scaffold. <i>Materials Science and Engineering C</i> , 2009, 29, 2239-2245.	3.8	23
98	Microphase Separation Controlled β -Sheet Crystallization Kinetics in Fibrous Proteins. <i>Macromolecules</i> , 2009, 42, 2079-2087.	2.2	64
99	Stabilization of Enzymes in Silk Films. <i>Biomacromolecules</i> , 2009, 10, 1032-1042.	2.6	174
100	Preparation of three-dimensional fibroin/collagen scaffolds in various pH conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 629-634.	1.7	36
101	Cytocompatibility and blood compatibility of multifunctional fibroin/collagen/heparin scaffolds. <i>Biomaterials</i> , 2007, 28, 2306-2313.	5.7	92
102	Solvothermal synthesis of crystalline carbon nitrides. <i>Science Bulletin</i> , 2003, 48, 519.	1.7	4
103	Release of water and hydrogen during outgassing of some materials. <i>Journal of Materials Engineering and Performance</i> , 1996, 5, 516-520.	1.2	20