

Hongxu Lu

List of Publications by Year in descending order

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86
papers

4,462
citations

81839

39
h-index

110317

64
g-index

89
all docs

89
docs citations

89
times ranked

6710
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore size effect of collagen scaffolds on cartilage regeneration. <i>Acta Biomaterialia</i> , 2014, 10, 2005-2013.	4.1	263
2	Decellularized matrices for tissue engineering. <i>Expert Opinion on Biological Therapy</i> , 2010, 10, 1717-1728.	1.4	257
3	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 341-349.	4.1	240
4	Cultured cell-derived extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011, 32, 9658-9666.	5.7	198
5	Stimulatory effects of the ionic products from Ca-Mg-Si bioceramics on both osteogenesis and angiogenesis in vitro. <i>Acta Biomaterialia</i> , 2013, 9, 8004-8014.	4.1	192
6	Autologous extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011, 32, 2489-2499.	5.7	174
7	Multicellular Tumor Spheroids (MCTS) as a 3D In Vitro Evaluation Tool of Nanoparticles. <i>Small</i> , 2018, 14, e1702858.	5.2	158
8	Adipogenic Differentiation of Individual Mesenchymal Stem Cell on Different Geometric Micropatterns. <i>Langmuir</i> , 2011, 27, 6155-6162.	1.6	103
9	Folate Conjugation to Polymeric Micelles via Boronic Acid Ester to Deliver Platinum Drugs to Ovarian Cancer Cell Lines. <i>Biomacromolecules</i> , 2013, 14, 962-975.	2.6	101
10	A new role of curcumin: as a multicolor photoinitiator for polymer fabrication under household UV to red LED bulbs. <i>Polymer Chemistry</i> , 2015, 6, 5053-5061.	1.9	95
11	Spatial immobilization of bone morphogenetic protein-4 in a collagen-PLGA hybrid scaffold for enhanced osteoinductivity. <i>Biomaterials</i> , 2012, 33, 6140-6146.	5.7	93
12	Comparison of decellularization techniques for preparation of extracellular matrix scaffolds derived from three-dimensional cell culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2507-2516.	2.1	92
13	Enhanced transcellular penetration and drug delivery by crosslinked polymeric micelles into pancreatic multicellular tumor spheroids. <i>Biomaterials Science</i> , 2015, 3, 1085-1095.	2.6	88
14	Cartilage tissue engineering using funnel-like collagen sponges prepared with embossing ice particulate templates. <i>Biomaterials</i> , 2010, 31, 5825-5835.	5.7	83
15	Cellular Uptake and Movement in 2D and 3D Multicellular Breast Cancer Models of Fructose-Based Cylindrical Micelles That Is Dependent on the Rod Length. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16622-16630.	4.0	72
16	Influence of nanoparticle shapes on cellular uptake of paclitaxel loaded nanoparticles in 2D and 3D cancer models. <i>Polymer Chemistry</i> , 2017, 8, 3317-3326.	1.9	68
17	Fructose-coated nanoparticles: a promising drug nanocarrier for triple-negative breast cancer therapy. <i>Chemical Communications</i> , 2014, 50, 15928-15931.	2.2	66
18	PLLA-collagen and PLLA-gelatin hybrid scaffolds with funnel-like porous structure for skin tissue engineering. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 064210.	2.8	62

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19	Core-Cross-Linking Accelerates Antitumor Activities of Paclitaxel- α -Conjugate Micelles to Prostate Multicellular Tumor Spheroids: A Comparison of 2D and 3D Models. <i>Biomacromolecules</i> , 2015, 16, 1470-1479.	2.6	62
20	PEGylated Albumin-Based Polyion Complex Micelles for Protein Delivery. <i>Biomacromolecules</i> , 2016, 17, 808-817.	2.6	59
21	Effects of Poly(L-lysine), Poly(acrylic acid) and Poly(ethylene glycol) on the Adhesion, Proliferation and Chondrogenic Differentiation of Human Mesenchymal Stem Cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 577-589.	1.9	58
22	Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 488.	2.0	54
23	In vitro Proliferation and Osteogenic Differentiation of Human Bone Marrow-derived Mesenchymal Stem Cells Cultured with Hardystonite (Ca ₂ ZnSi ₂ O ₇) and β -TCP Ceramics. <i>Journal of Biomaterials Applications</i> , 2010, 25, 39-56.	1.2	51
24	Light-responsive azobenzene-based glycopolymer micelles for targeted drug delivery to melanoma cells. <i>European Polymer Journal</i> , 2015, 69, 616-627.	2.6	51
25	Preparation of Porous Collagen Scaffolds with Micropatterned Structures. <i>Advanced Materials</i> , 2012, 24, 4311-4316.	11.1	48
26	Preparation of collagen scaffolds with controlled pore structures and improved mechanical property for cartilage tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2013, 28, 426-438.	0.8	47
27	Fructose-Coated Nanodiamonds: Promising Platforms for Treatment of Human Breast Cancer. <i>Biomacromolecules</i> , 2016, 17, 2946-2955.	2.6	47
28	Effect of cell density on adipogenic differentiation of mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 322-327.	1.0	46
29	Nanodiamonds with Surface Grafted Polymer Chains as Vehicles for Cell Imaging and Cisplatin Delivery: Enhancement of Cell Toxicity by POEGMEMA Coating. <i>ACS Macro Letters</i> , 2013, 2, 246-250.	2.3	45
30	Albumin-micelles via a one-pot technology platform for the delivery of drugs. <i>Chemical Communications</i> , 2014, 50, 6394.	2.2	44
31	Drug Conjugation to Cyclic Peptide- α -Polymer Self-Assembling Nanotubes. <i>Chemistry - A European Journal</i> , 2014, 20, 12745-12749.	1.7	44
32	Effect of shell-crosslinking of micelles on endocytosis and exocytosis: acceleration of exocytosis by crosslinking. <i>Biomaterials Science</i> , 2013, 1, 265-275.	2.6	43
33	Polyion Complex Micelle Based on Albumin- α -Polymer Conjugates: Multifunctional Oligonucleotide Transfection Vectors for Anticancer Chemotherapeutics. <i>Biomacromolecules</i> , 2014, 15, 4195-4205.	2.6	43
34	A Novel Cylinder-Type Poly(L-Lactic Acid)- α -Collagen Hybrid Sponge for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 329-338.	1.1	42
35	Maintenance of cartilaginous gene expression on extracellular matrix derived from serially passaged chondrocytes during <i>in vitro</i> chondrocyte expansion. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 694-702.	2.1	42
36	Delivery of Amonafide from Fructose-Coated Nanodiamonds by Oxime Ligation for the Treatment of Human Breast Cancer. <i>Biomacromolecules</i> , 2018, 19, 481-489.	2.6	42

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37	Gradient-sized control of tumor spheroids on a single chip. <i>Lab on A Chip</i> , 2019, 19, 4093-4103.	3.1	42
38	Enhanced Delivery of the RAPTA-C Macromolecular Chemotherapeutic by Conjugation to Degradable Polymeric Micelles. <i>Biomacromolecules</i> , 2013, 14, 4177-4188.	2.6	41
39	Influencing Selectivity to Cancer Cells with Mixed Nanoparticles Prepared from Albumin-Polymer Conjugates and Block Copolymers. <i>Bioconjugate Chemistry</i> , 2017, 28, 979-985.	1.8	41
40	Preparation of collagen porous scaffolds with a gradient pore size structure using ice particulates. <i>Materials Letters</i> , 2013, 107, 280-283.	1.3	40
41	Superior Chemotherapeutic Benefits from the Ruthenium-Based Anti-Metastatic Drug NAMI-A through Conjugation to Polymeric Micelles. <i>Macromolecules</i> , 2014, 47, 1646-1655.	2.2	40
42	Length vs. stiffness: which plays a dominant role in the cellular uptake of fructose-based rod-like micelles by breast cancer cells in 2D and 3D cell culture models?. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4223-4231.	2.9	40
43	Inhibitory effects of <i>Bacillus</i> probionts on growth and toxin production of <i>Vibrio harveyi</i> pathogens of shrimp. <i>Letters in Applied Microbiology</i> , 2009, 49, 679-684.	1.0	37
44	Albumin-polymer conjugate nanoparticles and their interactions with prostate cancer cells in 2D and 3D culture: comparison between PMMA and PCL. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2017-2027.	2.9	36
45	Swollen Micelles for the Preparation of Gated, Squeezable, pH-Responsive Drug Carriers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13865-13874.	4.0	35
46	Mammary Tumor Organoid Culture in Non-Adhesive Alginate for Luminal Mechanics and High-Throughput Drug Screening. <i>Advanced Science</i> , 2021, 8, e2102418.	5.6	35
47	Super-Resolution Mapping of Single Nanoparticles inside Tumor Spheroids. <i>Small</i> , 2020, 16, e1905572.	5.2	32
48	Effects of extracellular matrices derived from different cell sources on chondrocyte functions. <i>Biotechnology Progress</i> , 2011, 27, 788-795.	1.3	31
49	Carbohydrate-Specific Uptake of Fucosylated Polymeric Micelles by Different Cancer Cell Lines. <i>Biomacromolecules</i> , 2015, 16, 1948-1957.	2.6	31
50	Modulating the cellular uptake of platinum drugs with glycopolymers. <i>Polymer Chemistry</i> , 2016, 7, 1031-1036.	1.9	31
51	Fluorescent Glyco Single-Chain Nanoparticle-Decorated Nanodiamonds. <i>ACS Macro Letters</i> , 2017, 6, 1168-1174.	2.3	30
52	Profluorescent PPV-Based Micellar System as a Versatile Probe for Bioimaging and Drug Delivery. <i>Biomacromolecules</i> , 2016, 17, 4086-4094.	2.6	28
53	Direct Correlation Between Zeta Potential and Cellular Uptake of Poly(methacrylic acid) Post-Modified with Guanidinium Functionalities. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2302-2309.	1.1	27
54	Enhanced Antimetastatic Activity of the Ruthenium Anticancer Drug RAPTA-C Delivered in Fructose-Coated Micelles. <i>Macromolecular Bioscience</i> , 2017, 17, 1600513.	2.1	27

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55	Sugar Concentration and Arrangement on the Surface of Glycopolymer Micelles Affect the Interaction with Cancer Cells. <i>Biomacromolecules</i> , 2019, 20, 273-284.	2.6	27
56	Enabling peristalsis of human colon tumor organoids on microfluidic chips. <i>Biofabrication</i> , 2022, 14, 015006.	3.7	27
57	Boronic acid ester with dopamine as a tool for bioconjugation and for visualization of cell apoptosis. <i>Chemical Communications</i> , 2014, 50, 6390-6393.	2.2	26
58	PEG Grafted Nanodiamonds for the Delivery of Gemcitabine. <i>Macromolecular Rapid Communications</i> , 2016, 37, 2023-2029.	2.0	26
59	Penetration and drug delivery of albumin nanoparticles into pancreatic multicellular tumor spheroids. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9591-9599.	2.9	24
60	Spatially resolved coding of β -orthogonal hydrogels by laser lithography. <i>Chemical Communications</i> , 2018, 54, 2436-2439.	2.2	24
61	pH-Triggered release of gemcitabine from polymer coated nanodiamonds fabricated by RAFT polymerization and copper free click chemistry. <i>Polymer Chemistry</i> , 2016, 7, 6220-6230.	1.9	23
62	Importance of Polymer Length in Fructose-Based Polymeric Micelles for an Enhanced Biological Activity. <i>Macromolecules</i> , 2019, 52, 477-486.	2.2	23
63	Exploring adipogenic differentiation of a single stem cell on poly(acrylic acid) and polystyrene micropatterns. <i>Soft Matter</i> , 2012, 8, 8429.	1.2	22
64	Light-sheet microscopy as a tool to understanding the behaviour of Polyion complex micelles for drug delivery. <i>Chemical Communications</i> , 2018, 54, 12618-12621.	2.2	21
65	Dual-Responsive pH and Temperature Sensitive Nanoparticles Based on Methacrylic Acid and Di(ethylene glycol) Methyl Ether Methacrylate for the Triggered Release of Drugs. <i>Macromolecular Bioscience</i> , 2015, 15, 1091-1104.	2.1	20
66	Safety of nanoparticles based on albumin-polymer conjugates as a carrier of nucleotides for pancreatic cancer therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6278-6287.	2.9	20
67	Stabilization of Paclitaxel-Conjugated Micelles by Cross-Linking with Cystamine Compromises the Antitumor Effects against Two- and Three-Dimensional Tumor Cellular Models. <i>Molecular Pharmaceutics</i> , 2016, 13, 3648-3656.	2.3	19
68	Cellular Uptake of Gold Nanoparticles and Their Movement in 3D Multicellular Tumor Spheroids: Effect of Molecular Weight and Grafting Density of Poly(2-hydroxyethyl acrylate). <i>Macromolecular Bioscience</i> , 2020, 20, e1900221.	2.1	19
69	Anti-metastatic effects of RAPTAC conjugated polymeric micelles on two-dimensional (2D) breast tumor cells and three-dimensional (3D) multicellular tumor spheroids. <i>Acta Biomaterialia</i> , 2016, 32, 68-76.	4.1	18
70	Drug induced self-assembly of triblock copolymers into polymersomes for the synergistic dual-drug delivery of platinum drugs and paclitaxel. <i>Polymer Chemistry</i> , 2017, 8, 6289-6299.	1.9	18
71	Glycopolymer Self-Assemblies with Gold(I) Complexed to the Core as a Delivery System for Auranofin. <i>Macromolecules</i> , 2015, 48, 1065-1076.	2.2	17
72	Controlling the morphology of glyco-nanoparticles in water using block copolymer mixtures: the effect on cellular uptake. <i>Polymer Chemistry</i> , 2015, 6, 7812-7820.	1.9	17

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73	Unidirectional intercellular communication on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112833.	5.3	17
74	Spatially Guided Angiogenesis by Three-Dimensional Collagen Scaffolds Micropatterned with Vascular Endothelial Growth Factor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2185-2195.	1.9	16
75	Direct Polymerization of the Arsenic Drug PENAO to Obtain Nanoparticles with High Thiol-Reactivity and Anti-Cancer Efficiency. <i>Bioconjugate Chemistry</i> , 2018, 29, 546-558.	1.8	16
76	Enhanced drug toxicity by conjugation of platinum drugs to polymers with guanidine containing zwitterionic functional groups that mimic cell-penetrating peptides. <i>Polymer Chemistry</i> , 2014, 5, 6600-6610.	1.9	15
77	Nuclear deformation and expression change of cartilaginous genes during in vitro expansion of chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 374, 688-692.	1.0	12
78	Culture of bovine articular chondrocytes in funnel-like collagen-PLGA hybrid sponges. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 045011.	1.7	12
79	Effects of extracellular matrix proteins in chondrocyte-derived matrices on chondrocyte functions. <i>Biotechnology Progress</i> , 2013, 29, 1331-1336.	1.3	10
80	Cell-Derived Biomimetic 2D Nanoparticles to Improve Cell-Specific Targeting and Tissue Penetration for Enhanced Magnetic Resonance Imaging. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	10
81	Differentiation of PC12 cells in three-dimensional collagen sponges with micropatterned nerve growth factor. <i>Biotechnology Progress</i> , 2012, 28, 773-779.	1.3	9
82	Micropatterned angiogenesis induced by poly(<i>d,l</i> -lactic-co-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	8
83	Synthesis of microcapsules using inverse emulsion periphery RAFT polymerization via SPG membrane emulsification. <i>Polymer Chemistry</i> , 2016, 7, 7047-7051.	1.9	7
84	Cationic glycopolymers through controlled polymerisation of a glucosamine-based monomer mimicking the behaviour of chitosan. <i>Polymer Chemistry</i> , 2017, 8, 1750-1753.	1.9	4
85	Regulating the uptake of poly(N-(2-hydroxypropyl) methacrylamide)-based micelles in cells cultured on micropatterned surfaces. <i>Biointerphases</i> , 2021, 16, 041002.	0.6	2
86	Cancer Spheroids: Super-Resolution Mapping of Single Nanoparticles inside Tumor Spheroids (Small) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.2	0