Hongxu Lu

List of Publications by Year
in descending order

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	Enabling peristalsis of human colon tumor organoids on microfluidic chips. Biofabrication, 2022, 14, 015006.	3.7	27
2	Cellâ€Derived Biomimetic 2D Nanoparticles to Improve Cellâ€Specific Targeting and Tissue Penetration for Enhanced Magnetic Resonance Imaging. Advanced Materials Interfaces, 2022, 9, .	1.9	10
3	Unidirectional intercellular communication on a microfluidic chip. Biosensors and Bioelectronics, 2021, 175, 112833.	5.3	17
4	Regulating the uptake of poly(N-(2-hydroxypropyl) methacrylamide)-based micelles in cells cultured on micropatterned surfaces. Biointerphases, 2021, 16, 041002.	0.6	2
5	Mammary Tumor Organoid Culture in Nonâ€Adhesive Alginate for Luminal Mechanics and Highâ€Throughput Drug Screening. Advanced Science, 2021, 8, e2102418.	5.6	35
6	Cellular Uptake of Gold Nanoparticles and Their Movement in 3D Multicellular Tumor Spheroids: Effect of Molecular Weight and Grafting Density of Poly(2â€hydroxyl ethyl acrylate). Macromolecular Bioscience, 2020, 20, e1900221.	2.1	19
7	Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers. Frontiers in Bioengineering and Biotechnology, 2020, 8, 488.	2.0	54
8	Cancer Spheroids: Superâ€Resolution Mapping of Single Nanoparticles inside Tumor Spheroids (Small) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.2	0
9	Superâ€Resolution Mapping of Single Nanoparticles inside Tumor Spheroids. Small, 2020, 16, e1905572.	5.2	32
10	Gradient-sized control of tumor spheroids on a single chip. Lab on A Chip, 2019, 19, 4093-4103.	3.1	42
11	Importance of Polymer Length in Fructose-Based Polymeric Micelles for an Enhanced Biological Activity. Macromolecules, 2019, 52, 477-486.	2.2	23
12	Sugar Concentration and Arrangement on the Surface of Glycopolymer Micelles Affect the Interaction with Cancer Cells. Biomacromolecules, 2019, 20, 273-284.	2.6	27
13	Multicellular Tumor Spheroids (MCTS) as a 3D In Vitro Evaluation Tool of Nanoparticles. Small, 2018, 14, e1702858.	5.2	158
14	Spatially resolved coding of Î»-orthogonal hydrogels by laser lithography. Chemical Communications, 2018, 54, 2436-2439.	2.2	24
15	Direct Polymerization of the Arsenic Drug PENAO to Obtain Nanoparticles with High Thiol-Reactivity and Anti-Cancer Efficiency. Bioconjugate Chemistry, 2018, 29, 546-558.	1.8	16
16	Delivery of Amonafide from Fructose-Coated Nanodiamonds by Oxime Ligation for the Treatment of Human Breast Cancer. Biomacromolecules, 2018, 19, 481-489.	2.6	42
17	Light-sheet microscopy as a tool to understanding the behaviour of Polyion complex micelles for drug delivery. Chemical Communications, 2018, 54, 12618-12621.	2.2	21
18	Safety of nanoparticles based on albuminâ€"polymer conjugates as a carrier of nucleotides for pancreatic cancer therapy. Journal of Materials Chemistry B, 2018, 6, 6278-6287.	2.9	20

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19	Length <i>vs.</i> 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?. Journal of Materials Chemistry B, 2018, 6, 4223-4231.	2.9	40
20	Enhanced Antimetastatic Activity of the Ruthenium Anticancer Drug RAPTAâ€€ Delivered in Fructoseâ€€oated Micelles. Macromolecular Bioscience, 2017, 17, 1600513.	2.1	27
21	Influencing Selectivity to Cancer Cells with Mixed Nanoparticles Prepared from Albuminâ€“Polymer Conjugates and Block Copolymers. Bioconjugate Chemistry, 2017, 28, 979-985.	1.8	41
22	Cationic glycopolymers through controlled polymerisation of a glucosamine-based monomer mimicking the behaviour of chitosan. Polymer Chemistry, 2017, 8, 1750-1753.	1.9	4
23	Influence of nanoparticle shapes on cellular uptake of paclitaxel loaded nanoparticles in 2D and 3D cancer models. Polymer Chemistry, 2017, 8, 3317-3326.	1.9	68
24	Swollen Micelles for the Preparation of Gated, Squeezable, pH-Responsive Drug Carriers. ACS Applied Materials & Interfaces, 2017, 9, 13865-13874.	4.0	35
25	Fluorescent Glyco Single-Chain Nanoparticle-Decorated Nanodiamonds. ACS Macro Letters, 2017, 6, 1168-1174.	2.3	30
26	Drug induced self-assembly of triblock copolymers into polymersomes for the synergistic dual-drug delivery of platinum drugs and paclitaxel. Polymer Chemistry, 2017, 8, 6289-6299.	1.9	18
27	Penetration and drug delivery of albumin nanoparticles into pancreatic multicellular tumor spheroids. Journal of Materials Chemistry B, 2017, 5, 9591-9599.	2.9	24
28	Direct Correlation Between Zeta Potential and Cellular Uptake of Poly(methacrylic acid) Postâ€Modified with Guanidinium Functionalities. Macromolecular Chemistry and Physics, 2016, 217, 2302-2309.	1.1	27
29	Stabilization of Paclitaxel-Conjugated Micelles by Cross-Linking with Cystamine Compromises the Antitumor Effects against Two- and Three-Dimensional Tumor Cellular Models. Molecular Pharmaceutics, 2016, 13, 3648-3656.	2.3	19
30	pH-Triggered release of gemcitabine from polymer coated nanodiamonds fabricated by RAFT polymerization and copper free click chemistry. Polymer Chemistry, 2016, 7, 6220-6230.	1.9	23
31	Fructose-Coated Nanodiamonds: Promising Platforms for Treatment of Human Breast Cancer. Biomacromolecules, 2016, 17, 2946-2955.	2.6	47
32	Profluorescent PPV-Based Micellar System as a Versatile Probe for Bioimaging and Drug Delivery. Biomacromolecules, 2016, 17, 4086-4094.	2.6	28
33	Synthesis of microcapsules using inverse emulsion periphery RAFT polymerization via SPG membrane emulsification. Polymer Chemistry, 2016, 7, 7047-7051.	1.9	7
34	PEG Graftedâ€Nanodiamonds for the Delivery of Gemcitabine. Macromolecular Rapid Communications, 2016, 37, 2023-2029.	2.0	26
35	Cellular Uptake and Movement in 2D and 3D Multicellular Breast Cancer Models of Fructose-Based Cylindrical Micelles That Is Dependent on the Rod Length. ACS Applied Materials & Interfaces, 2016, 8, 16622-16630.	4.0	72
36	Modulating the cellular uptake of platinum drugs with glycopolymers. Polymer Chemistry, 2016, 7, 1031-1036.	1.9	31

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37	PEGylated Albumin-Based Polyion Complex Micelles for Protein Delivery. Biomacromolecules, 2016, 17, 808-817.	2.6	59
38	Albuminâ€"polymer conjugate nanoparticles and their interactions with prostate cancer cells in 2D and 3D culture: comparison between PMMA and PCL. Journal of Materials Chemistry B, 2016, 4, 2017-2027.	2.9	36
39	Anti-metastatic effects of RAPTA-C conjugated polymeric micelles on two-dimensional (2D) breast tumor cells and three-dimensional (3D) multicellular tumor spheroids. Acta Biomaterialia, 2016, 32, 68-76.	4.1	18
40	Dual-Responsive pH and Temperature Sensitive Nanoparticles Based on Methacrylic Acid and Di(ethylene glycol) Methyl Ether Methacrylate for the Triggered Release of Drugs. Macromolecular Bioscience, 2015, 15, 1091-1104.	2.1	20
41	A new role of curcumin: as a multicolor photoinitiator for polymer fabrication under household UV to red LED bulbs. Polymer Chemistry, 2015, 6, 5053-5061.	1.9	95
42	Light-responsive azobenzene-based glycopolymer micelles for targeted drug delivery to melanoma cells. European Polymer Journal, 2015, 69, 616-627.	2.6	51
43	Glycopolymer Self-Assemblies with Gold(I) Complexed to the Core as a Delivery System for Auranofin. Macromolecules, 2015, 48, 1065-1076.	2.2	17
44	Carbohydrate-Specific Uptake of Fucosylated Polymeric Micelles by Different Cancer Cell Lines. Biomacromolecules, 2015, 16, 1948-1957.	2.6	31
45	Core-Cross-Linking Accelerates Antitumor Activities of Paclitaxelâ€"Conjugate Micelles to Prostate Multicellular Tumor Spheroids: A Comparison of 2D and 3D Models. Biomacromolecules, 2015, 16, 1470-1479.	2.6	62
46	Controlling the morphology of glyco-nanoparticles in water using block copolymer mixtures: the effect on cellular uptake. Polymer Chemistry, 2015, 6, 7812-7820.	1.9	17
47	Enhanced transcellular penetration and drug delivery by crosslinked polymeric micelles into pancreatic multicellular tumor spheroids. Biomaterials Science, 2015, 3, 1085-1095.	2.6	88
48	Pore size effect of collagen scaffolds on cartilage regeneration. Acta Biomaterialia, 2014, 10, 2005-2013.	4.1	263
49	Albumin-micelles via a one-pot technology platform for the delivery of drugs. Chemical Communications, 2014, 50, 6394.	2.2	44
50	Fructose-coated nanoparticles: a promising drug nanocarrier for triple-negative breast cancer therapy. Chemical Communications, 2014, 50, 15928-15931.	2.2	66
51	Enhanced drug toxicity by conjugation of platinum drugs to polymers with guanidine containing zwitterionic functional groups that mimic cell-penetrating peptides. Polymer Chemistry, 2014, 5, 6600-6610.	1.9	15
52	Boronic acid ester with dopamine as a tool for bioconjugation and for visualization of cell apoptosis. Chemical Communications, 2014, 50, 6390-6393.	2.2	26
53	Drug Conjugation to Cyclic Peptideâ€"Polymer Selfâ€Assembling Nanotubes. Chemistry - A European Journal, 2014, 20, 12745-12749.	1.7	44
54	Polyion Complex Micelle Based on Albuminâ€"Polymer Conjugates: Multifunctional Oligonucleotide Transfection Vectors for Anticancer Chemotherapeutics. Biomacromolecules, 2014, 15, 4195-4205.	2.6	43

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55	Superior Chemotherapeutic Benefits from the Ruthenium-Based Anti-Metastatic Drug NAMI-A through Conjugation to Polymeric Micelles. Macromolecules, 2014, 47, 1646-1655.	2.2	40
56	Stimulatory effects of the ionic products from Caâ€"Mgâ€"Si bioceramics on both osteogenesis and angiogenesis in vitro. Acta Biomaterialia, 2013, 9, 8004-8014.	4.1	192
57	Effect of shell-crosslinking of micelles on endocytosis and exocytosis: acceleration of exocytosis by crosslinking. Biomaterials Science, 2013, 1, 265-275.	2.6	43
58	Preparation of collagen porous scaffolds with a gradient pore size structure using ice particulates. Materials Letters, 2013, 107, 280-283.	1.3	40
59	Folate Conjugation to Polymeric Micelles via Boronic Acid Ester to Deliver Platinum Drugs to Ovarian Cancer Cell Lines. Biomacromolecules, 2013, 14, 962-975.	2.6	101
60	Nanodiamonds with Surface Grafted Polymer Chains as Vehicles for Cell Imaging and Cisplatin Delivery: Enhancement of Cell Toxicity by POEGMEMA Coating. ACS Macro Letters, 2013, 2, 246-250.	2.3	45
61	Preparation of collagen scaffolds with controlled pore structures and improved mechanical property for cartilage tissue engineering. Journal of Bioactive and Compatible Polymers, 2013, 28, 426-438.	0.8	47
62	Enhanced Delivery of the RAPTA-C Macromolecular Chemotherapeutic by Conjugation to Degradable Polymeric Micelles. Biomacromolecules, 2013, 14, 4177-4188.	2.6	41
63	Effects of extracellular matrix proteins in chondrocyteâ€derived matrices on chondrocyte functions. Biotechnology Progress, 2013, 29, 1331-1336.	1.3	10
64	Micropatterned angiogenesis induced by poly(<scp>d</scp>,<scp>l</scp>-lactic-<i>co</i>-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	8
65	PLLAâ€"collagen and PLLAâ€"gelatin hybrid scaffolds with funnel-like porous structure for skin tissue engineering. Science and Technology of Advanced Materials, 2012, 13, 064210.	2.8	62
66	Exploring adipogenic differentiation of a single stem cell on poly(acrylic acid) and polystyrene micropatterns. Soft Matter, 2012, 8, 8429.	1.2	22
67	Spatially Guided Angiogenesis by Three-Dimensional Collagen Scaffolds Micropatterned with Vascular Endothelial Growth Factor. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 2185-2195.	1.9	16
68	Comparison of decellularization techniques for preparation of extracellular matrix scaffolds derived from threeâ€dimensional cell culture. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2507-2516.	2.1	92
69	Preparation of Porous Collagen Scaffolds with Micropatterned Structures. Advanced Materials, 2012, 24, 4311-4316.	11.1	48
70	Differentiation of PC12 cells in threeâ€dimensional collagen sponges with micropatterned nerve growth factor. Biotechnology Progress, 2012, 28, 773-779.	1.3	9
71	Silicate bioceramics induce angiogenesis during bone regeneration. Acta Biomaterialia, 2012, 8, 341-349.	4.1	240
72	Spatial immobilization of bone morphogenetic protein-4 in a collagen-PLGA hybrid scaffold for enhanced osteoinductivity. Biomaterials, 2012, 33, 6140-6146.	5.7	93

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73	Maintenance of cartilaginous gene expression on extracellular matrix derived from serially passaged chondrocytes during <i>in vitro</i> chondrocyte expansion. Journal of Biomedical Materials Research - Part A, 2012, 100A, 694-702.	2.1	42
74	Adipogenic Differentiation of Individual Mesenchymal Stem Cell on Different Geometric Micropatterns. Langmuir, 2011, 27, 6155-6162.	1.6	103
75	Culture of bovine articular chondrocytes in funnel-like collagen-PLGA hybrid sponges. Biomedical Materials (Bristol), 2011, 6, 045011.	1.7	12
76	Cultured cell-derived extracellular matrix scaffolds for tissue engineering. Biomaterials, 2011, 32, 9658-9666.	5.7	198
77	Effects of extracellular matrices derived from different cell sources on chondrocyte functions. Biotechnology Progress, 2011, 27, 788-795.	1.3	31
78	Autologous extracellular matrix scaffolds for tissue engineering. Biomaterials, 2011, 32, 2489-2499.	5.7	174
79	Cartilage tissue engineering using funnel-like collagen sponges prepared with embossing ice particulate templates. Biomaterials, 2010, 31, 5825-5835.	5.7	83
80	Decellularized matrices for tissue engineering. Expert Opinion on Biological Therapy, 2010, 10, 1717-1728.	1.4	257
81	A Novel Cylinder-Type Poly(L-Lactic Acid)â€“Collagen Hybrid Sponge for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2010, 16, 329-338.	1.1	42
82	In vitro Proliferation and Osteogenic Differentiation of Human Bone Marrow-derived Mesenchymal Stem Cells Cultured with Hardystonite (Ca2ZnSi 2O7) and Î²-TCP Ceramics. Journal of Biomaterials Applications, 2010, 25, 39-56.	1.2	51
83	Inhibitory effects of<i>Bacillus</i>probionts on growth and toxin production of<i>Vibrio harveyi</i>pathogens of shrimp. Letters in Applied Microbiology, 2009, 49, 679-684.	1.0	37
84	Effect of cell density on adipogenic differentiation of mesenchymal stem cells. Biochemical and Biophysical Research Communications, 2009, 381, 322-327.	1.0	46
85	Effects of Poly(L-lysine), Poly(acrylic acid) and Poly(ethylene glycol) on the Adhesion, Proliferation and Chondrogenic Differentiation of Human Mesenchymal Stem Cells. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 577-589.	1.9	58
86	Nuclear deformation and expression change of cartilaginous genes during in vitro expansion of chondrocytes. Biochemical and Biophysical Research Communications, 2008, 374, 688-692.	1.0	12