Lu Huang

List of Publications by Year
in descending order

26 papers	1,479 citations	516710 16 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	2393 citing authors

#	Article	IF	Citations
1	Efficient Inverted Perovskite Solar Cells Enabled by Dopant-Free Hole-Transporting Materials Based on Dibenzofulvene-Bridged Indacenodithiophene Core Attaching Varying Alkyl Chains. ACS Applied Materials & Interfaces, 2021, 13, 13254-13263.	8.0	19
2	Tuning an Electrode Work Function Using Organometallic Complexes in Inverted Perovskite Solar Cells. Journal of the American Chemical Society, 2021, 143, 7759-7768.	13.7	85
3	A high-throughput, open-space and reusable microfluidic chip for combinational drug screening on tumor spheroids. Lab on A Chip, 2021, 21, 3924-3932.	6.0	11
4	Quantum Dot Interface-Mediated CsPbIBr₂ Film Growth and Passivation for Efficient Carbon-Based Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 55349-55357.	8.0	17
5	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. Nature Communications, 2021, 12, 7079.	12.8	54
6	Optimization of Factor Combinations for Stem Cell Differentiations on a Design-of-Experiment Microfluidic Chip. Analytical Chemistry, 2020, 92, 14228-14235.	6.5	7
7	Engineering Microcapsules for Simultaneous Delivery of Combinational Therapeutics. Advanced Materials Technologies, 2020, 5, 2000623.	5.8	16
8	Microfluidic High-Throughput Platforms for Discovery of Novel Materials. Nanomaterials, 2020, 10, 2514.	4.1	12
9	Boosting Efficiency and Stability of Planar Inverted (FAPbI 3) x (MAPbBr 3) 1â^' x Solar Cells via FAPbI 3 and MAPbBr 3 Crystal Powders. Solar Rrl, 2020, 4, 2000091.	5.8	19
10	Front-Contact Passivation of PIN MAPbI₃ Solar Cells with Superior Device Performances. ACS Applied Energy Materials, 2020, 3, 6344-6351.	5.1	15
11	Combinatorial Treatment of Human Cardiac Engineered Tissues With Biomimetic Cues Induces Functional Maturation as Revealed by Optical Mapping of Action Potentials and Calcium Transients. Frontiers in Physiology, 2020, 11, 165.	2.8	10
12	Human Skeletal Muscle Cells on Engineered 3D Platform Express Key Growth and Developmental Proteins. ACS Biomaterials Science and Engineering, 2019, 5, 970-976.	5.2	3
13	A Controllable, Centrifugal-Based Hydrodynamic Microfluidic Chip for Cell-Pairing and Studying Long-Term Communications between Single Cells. Analytical Chemistry, 2019, 91, 15908-15914.	6.5	9
14	Cell pairing and polyethylene glycol (PEG)-mediated cell fusion using two-step centrifugation-assisted single-cell trapping (CAScT). Lab on A Chip, 2018, 18, 1113-1120.	6.0	18
15	Assembly of Metalâ€“Phenolic/Catecholamine Networks for Synergistically Anti-Inflammatory, Antimicrobial, and Anticoagulant Coatings. ACS Applied Materials & Interfaces, 2018, 10, 40844-40853.	8.0	104
16	A microfluidic circulatory system integrated with capillary-assisted pressure sensors. Lab on A Chip, 2017, 17, 653-662.	6.0	69
17	Current Advances in Highly Multiplexed Antibodyâ€Based Singleâ€Cell Proteomic Measurements. Chemistry - an Asian Journal, 2017, 12, 1680-1691.	3.3	12
18	Fast Single-Cell Patterning for Study of Drug-Induced Phenotypic Alterations of HeLa Cells Using Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 2016, 88, 12196-12203.	6.5	44

#	Article	IF	Citations
19	A Universal and Facile Approach for the Formation of a Protein Hydrogel for 3D Cell Encapsulation. Advanced Functional Materials, 2015, 25, 6189-6198.	14.9	21
20	Centrifugation-Assisted Single-Cell Trapping in a Truncated Cone-Shaped Microwell Array Chip for the Real-Time Observation of Cellular Apoptosis. Analytical Chemistry, 2015, 87, 12169-12176.	6.5	51
21	Poly(<scp>l</scp>-lysine)-graft-folic acid-coupled poly(2-methyl-2-oxazoline) (PLL-g-PMOXA-c-FA): A Bioactive Copolymer for Specific Targeting to Folate Receptor-Positive Cancer Cells. ACS Applied Materials & Interfaces, 2015, 7, 2919-2930.	8.0	46
22	Stretchable and Micropatterned Membrane for Osteogenic Differentation of Stem Cells. ACS Applied Materials & Interfaces, 2014, 6, 11915-11923.	8.0	48
23	What makes efficient circularly polarised luminescence in the condensed phase: aggregation-induced circular dichroism and light emission. Chemical Science, 2012, 3, 2737.	7.4	338
24	Fabrication of freestanding, microperforated membranes and their applications in microfluidics. Biomicrofluidics, 2010, 4, 036504.	2.4	27
25	Construction of microfluidic chips using polydimethylsiloxane for adhesive bonding. Lab on A Chip, 2005, 5, 1393.	6.0	183
26	Chemical cytometry on a picoliter-scale integrated microfluidic chip. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12809-12813.	7.1	232