Yong Luo

List of Publications by Year in descending order

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50 papers	1,718 citations	304743 22 h-index	289244 40 g-index
50 all docs	50 docs citations	50 times ranked	2745 citing authors

#	Article	IF	Citations
1	Resolving Rotational Motions of Nano-objects in Engineered Environments and Live Cells with Gold Nanorods and Differential Interference Contrast Microscopy. Journal of the American Chemical Society, 2010, 132, 16417-16422.	13.7	156
2	Clinical application of a microfluidic chip for immunocapture and quantification of circulating exosomes to assist breast cancer diagnosis and molecular classification. PLoS ONE, 2017, 12, e0175050.	2.5	155
3	Engineered Liver-on-a-Chip Platform to Mimic Liver Functions and Its Biomedical Applications: A Review. Micromachines, 2019, 10, 676.	2.9	144
4	Extracellular vesicles of carcinoma-associated fibroblasts creates a pre-metastatic niche in the lung through activating fibroblasts. Molecular Cancer, 2019, 18, 175.	19.2	132
5	Multilayer poly(vinyl alcohol)-adsorbed coating on poly(dimethylsiloxane) microfluidic chips for biopolymer separation. Electrophoresis, 2005, 26, 211-218.	2.4	124
6	Multiplexed profiling of single-cell extracellular vesicles secretion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5979-5984.	7.1	95
7	Drug Toxicity Evaluation Based on Organ-on-a-chip Technology: A Review. Micromachines, 2020, 11, 381.	2.9	71
8	A nephron model for study of drug-induced acute kidney injury and assessment of drug-induced nephrotoxicity. Biomaterials, 2018, 155, 41-53.	11.4	60
9	A cell lines derived microfluidic liver model for investigation of hepatotoxicity induced by drug-drug interaction. Biomicrofluidics, 2019, 13, 024101.	2.4	52
10	Organ-on-a-Chip: New Platform for Biological Analysis. Analytical Chemistry Insights, 2015, 10, ACI.S28905.	2.7	45
11	Paper Microfluidics for Cell Analysis. Advanced Healthcare Materials, 2019, 8, e1801084.	7.6	44
12	A liver-chip-based alcoholic liver disease model featuring multi-non-parenchymal cells. Biomedical Microdevices, 2019, 21, 57.	2.8	42
13	A Laminated Microfluidic Device for Comprehensive Preclinical Testing in the Drug ADME Process. Scientific Reports, 2016, 6, 25022.	3.3	37
14	Establishment and Application of Peristaltic Human Gut-Vessel Microsystem for Studying Hostâ€“Microbial Interaction. Frontiers in Bioengineering and Biotechnology, 2020, 8, 272.	4.1	37
15	Design and fabrication of an integrated heart-on-a-chip platform for construction of cardiac tissue from human iPSC-derived cardiomyocytes and in situ evaluation of physiological function. Biosensors and Bioelectronics, 2021, 179, 113080.	10.1	36
16	Paper-Based 3D Scaffold for Multiplexed Single Cell Secretomic Analysis. Analytical Chemistry, 2018, 90, 5825-5832.	6.5	32
17	Small extracellular vesicle-bound vascular endothelial growth factor secreted by carcinoma-associated fibroblasts promotes angiogenesis in a bevacizumab-resistant manner. Cancer Letters, 2020, 492, 71-83.	7.2	32
18	Recent advances in singleâ€molecule detection on microâ€and nanoâ€fluidic devices. Electrophoresis, 2011, 32, 3308-3318.	2.4	29

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19	A Microfluidic Device for Culturing an Encapsulated Ovarian Follicle. Micromachines, 2017, 8, 335.	2.9	29
20	Overproduction of efflux pumps caused reduced susceptibility to carbapenem under consecutive imipenem-selected stress in Acinetobacter baumannii. Infection and Drug Resistance, 2018, Volume 11, 457-467.	2.7	29
21	Application of Microfluidic Chips in Separation and Analysis of Extracellular Vesicles in Liquid Biopsy for Cancer. Micromachines, 2019, 10, 390.	2.9	25
22	A liver-on-a-chip for hepatoprotective activity assessment. Biomicrofluidics, 2020, 14, 064107.	2.4	23
23	A Novel Tissueâ€Based Liverâ€“Kidneyâ€onâ€aâ€Chip Can Mimic Liver Tropism of Extracellular Vesicles Derived from Breast Cancer Cells. Biotechnology Journal, 2020, 15, 1900107.	3.5	22
24	Wavelength-Dependent Differential Interference Contrast Microscopy: Multiplexing Detection Using Nonfluorescent Nanoparticles. Analytical Chemistry, 2010, 82, 6675-6679.	6.5	21
25	Manualâ€slideâ€engaged paper chip for parallel SERSâ€immunoassay measurement of clenbuterol from swine hair. Electrophoresis, 2016, 37, 418-424.	2.4	17
26	Application of a microfluidic-based perivascular tumor model for testing drug sensitivity in head and neck cancers and toxicity in endothelium. RSC Advances, 2016, 6, 29598-29607.	3.6	16
27	Chemiluminescence diminishment on a paper-based analytical device: high throughput determination of Î²-agonists in swine hair. Analytical Methods, 2014, 6, 9684-9690.	2.7	15
28	3D bioprinted breast tumor model for structureâ€“activity relationship study. Bio-Design and Manufacturing, 2020, 3, 361-372.	7.7	15
29	Comparative analysis of carbapenemases, RND family efflux pumps and biofilm formation potential among Acinetobacter baumannii strains with different carbapenem susceptibility. BMC Infectious Diseases, 2021, 21, 841.	2.9	15
30	Establishment and application of a dynamic tumor-vessel microsystem for studying different stages of tumor metastasis and evaluating anti-tumor drugs. RSC Advances, 2019, 9, 17137-17147.	3.6	14
31	Superlocalization of Single Molecules and Nanoparticles in High-Fidelity Optical Imaging Microfluidic Devices. Analytical Chemistry, 2011, 83, 5073-5077.	6.5	13
32	Direct measurement of betaâ€agonists in swine hair extract in multiplexed mode by surfaceâ€enhanced Raman spectroscopy and microfluidic paper. Electrophoresis, 2015, 36, 485-487.	2.4	13
33	<scp>P</scp>icomolar detection of carcinoembryonic antigen in whole blood using microfluidics and surfaceâ€enhanced Raman spectroscopy. Electrophoresis, 2016, 37, 786-789.	2.4	13
34	Measurement of Carcinoembryonic Antigen in Clinical Serum Samples Using a Centrifugal Microfluidic Device. Micromachines, 2018, 9, 470.	2.9	12
35	High-glucose 3D INS-1 cell model combined with a microfluidic circular concentration gradient generator for high throughput screening of drugs against type 2 diabetes. RSC Advances, 2018, 8, 25409-25416.	3.6	12
36	A GelMA/DECM/nanoclay composite biomaterial ink for printing 3D scaffolds for primary hepatocytes cultivation. Materials Letters, 2020, 274, 128034.	2.6	12

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37	A novel microfluidic paper-based analytical device based on chemiluminescence for the determination of Î²-agonists in swine hair. Analytical Methods, 2020, 12, 2317-2322.	2.7	11
38	Easyâ€toâ€fabricate thinâ€film coating on PDMS substrate with super hydrophilicity and stability. Electrophoresis, 2015, 36, 889-892.	2.4	8
39	Physiological and Disease Models of Respiratory System Based on Organ-on-a-Chip Technology. Micromachines, 2021, 12, 1106.	2.9	8
40	High-Throughput Single-Cell Extracellular Vesicle Secretion Analysis on a Desktop Scanner without Cell Counting. Analytical Chemistry, 2021, 93, 13152-13160.	6.5	8
41	Determination of betaâ€agonists in swine hair by Î¼FIA and chemiluminescence. Electrophoresis, 2015, 36, 986-993.	2.4	7
42	Single-Cell Secretion Analysis in the Engineered Tumor Microenvironment Reveals Differential Modulation of Macrophage Immune Responses. Analytical Chemistry, 2021, 93, 4198-4207.	6.5	7
43	A novel micro-injection droplet microfluidic system for studying locomotive behavior responses to Cu2+ induced neurotoxin in individual C.elegans. Analytica Chimica Acta, 2020, 1106, 61-70.	5.4	6
44	Hydroxyethyl Cellulose As a Rheological Additive for Tuning the Extrusion Printability and Scaffold Properties. 3D Printing and Additive Manufacturing, 2021, 8, 87-98.	2.9	6
45	Core fucosylation involvement in the paracrine regulation of proteinuria-induced renal interstitial fibrosis evaluated with the use of a microfluidic chip. Acta Biomaterialia, 2022, 142, 99-112.	8.3	6
46	Distribution pattern of carbapenemases and solitary contribution to resistance in clinical strains of Acinetobacter baumannii. Annals of Palliative Medicine, 2021, 10, 9184-9191.	1.2	5
47	PDMS Microwell Stencil Based Multiplexed Singleâ€Cell Secretion Analysis. Proteomics, 2020, 20, e1900231.	2.2	4
48	Live cell refractometry based on nonâ€<scp>SPR</scp> microparticle sensor. Electrophoresis, 2013, 34, 1526-1529.	2.4	1
49	Printing perfusable and permeable vascular structure by controlled crossâ€linking. Polymer Engineering and Science, 2021, 61, 167-172.	3.1	1
50	Rapid prototyping of PDMS microdevices via ÂµPLAT on nonplanar surfaces with flexible hollow-out mask. Biofabrication, 2021, 13, 035003.	7.1	1