

Wenguang Yang

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,133
citations

471371

17
h-index

414303

32
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61
all docs

61
docs citations

61
times ranked

1355
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advance in surface modification for regulating cell adhesion and behaviors. <i>Nanotechnology Reviews</i> , 2020, 9, 971-989.	2.6	274
2	4D Printing: A Review on Recent Progresses. <i>Micromachines</i> , 2020, 11, 796.	1.4	115
3	High-Throughput Fabrication and Modular Assembly of 3D Heterogeneous Microscale Tissues. <i>Small</i> , 2017, 13, 1602769.	5.2	63
4	Rapid Fabrication of Hydrogel Microstructures Using UV-Induced Projection Printing. <i>Micromachines</i> , 2015, 6, 1903-1913.	1.4	48
5	Recent advances of light-driven micro/nanomotors: toward powerful thrust and precise control. <i>Nanotechnology Reviews</i> , 2018, 7, 555-581.	2.6	36
6	Microfluidic-based cancer cell separation using active and passive mechanisms. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	35
7	Recent advances in AFM-based biological characterization and applications at multiple levels. <i>Soft Matter</i> , 2020, 16, 8962-8984.	1.2	32
8	Recent Advances in Three-Dimensional Multicellular Spheroid Culture and Future Development. <i>Micromachines</i> , 2021, 12, 96.	1.4	32
9	Mask-free fabrication of a versatile microwell chip for multidimensional cellular analysis and drug screening. <i>Lab on A Chip</i> , 2017, 17, 4243-4252.	3.1	30
10	Mask-free generation of multicellular 3D heterospheroids array for high-throughput combinatorial anti-cancer drug screening. <i>Materials and Design</i> , 2019, 183, 108182.	3.3	29
11	Microsphere-Based Super-Resolution Imaging for Visualized Nanomanipulation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48093-48100.	4.0	28
12	Fabrication of flexible microlens arrays for parallel super-resolution imaging. <i>Applied Surface Science</i> , 2020, 504, 144375.	3.1	26
13	Mechanisms, influencing factors, and applications of electrohydrodynamic jet printing. <i>Nanotechnology Reviews</i> , 2021, 10, 1046-1078.	2.6	24
14	Selective pattern of cancer cell accumulation and growth using UV modulating printing of hydrogels. <i>Biomedical Microdevices</i> , 2015, 17, 104.	1.4	23
15	Determination of Dielectric Properties of Cells using AC Electrokinetic-based Microfluidic Platform: A Review of Recent Advances. <i>Micromachines</i> , 2020, 11, 513.	1.4	23
16	Single-pixel camera with one graphene photodetector. <i>Optics Express</i> , 2016, 24, 400.	1.7	22
17	Regulation of breast cancer cell behaviours by the physical microenvironment constructed via projection microstereolithography. <i>Biomaterials Science</i> , 2016, 4, 863-870.	2.6	20
18	Spatial Manipulation and Assembly of Nanoparticles by Atomic Force Microscopy Tip-Induced Dielectrophoresis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16715-16724.	4.0	18

#	ARTICLE	IF	CITATIONS
19	Microlenses arrays: Fabrication, materials, and applications. <i>Microscopy Research and Technique</i> , 2021, 84, 2784-2806.	1.2	18
20	Modular and Customized Fabrication of 3D Functional Microgels for Bottom-Up Tissue Engineering and Drug Screening. <i>Advanced Materials Technologies</i> , 2020, 5, 1900847.	3.0	17
21	Untethered microgripper-the dexterous hand at microscale. <i>Biomedical Microdevices</i> , 2019, 21, 82.	1.4	14
22	Recent advance in cell patterning techniques: Approaches, applications and future prospects. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113229.	2.0	14
23	Facile modulation of cell adhesion to a poly(ethylene glycol) diacrylate film with incorporation of polystyrene nano-spheres. <i>Biomedical Microdevices</i> , 2016, 18, 107.	1.4	13
24	Recent advances in microfluidic technologies for separation of biological cells. <i>Biomedical Microdevices</i> , 2020, 22, 55.	1.4	12
25	Dynamically directing cell organization via micro-hump structure patterned cell-adhered interfaces. <i>Lab on A Chip</i> , 2020, 20, 2447-2452.	3.1	12
26	Bubble-based microrobots enable digital assembly of heterogeneous microtissue modules. <i>Biofabrication</i> , 2022, 14, 025023.	3.7	12
27	Nano-Manipulation Based on Real-Time Compressive Tracking. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 837-846.	1.1	11
28	Label-free multidimensional information acquisition from optogenetically engineered cells using a graphene transistor. <i>Nanoscale</i> , 2018, 10, 2285-2290.	2.8	11
29	Digital micro-mirror device -based light curing technology and its biological applications. <i>Optics and Laser Technology</i> , 2021, 143, 107344.	2.2	11
30	Visible light driven recyclable micromotors for on-the-fly water remediation. <i>Materials Letters</i> , 2020, 258, 126825.	1.3	10
31	A Review on Optoelectrokinetics-Based Manipulation and Fabrication of Micro/Nanomaterials. <i>Micromachines</i> , 2020, 11, 78.	1.4	10
32	Label-free characterization of different kinds of cells using optoelectrokinetic-based microfluidics. <i>Optics Letters</i> , 2020, 45, 2454.	1.7	8
33	Recent advances in acoustic microfluidics and its exemplary applications. <i>Biomicrofluidics</i> , 2022, 16, .	1.2	8
34	Dynamic fabrication of microfluidic systems for particles separation based on optical projection lithography. <i>Biomedical Microdevices</i> , 2020, 22, 80.	1.4	7
35	Influence of MoS ₂ -metal interface on charge injection: a comparison between various metal contacts. <i>Nanotechnology</i> , 2020, 31, 395713.	1.3	7
36	Development of Multi-Dimensional Cell Co-Culture via a Novel Microfluidic Chip Fabricated by DMD-Based Optical Projection Lithography. <i>IEEE Transactions on Nanobioscience</i> , 2019, 18, 679-686.	2.2	6

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37	Engineered liver tissue <i>in vitro</i> to mimic liver functions and its biomedical applications. <i>Materials Advances</i> , 2022, 3, 4132-4154.	2.6	6
38	2D Normalized Iterative Hard Thresholding Algorithm for Fast Compressive Radar Imaging. <i>Remote Sensing</i> , 2017, 9, 619.	1.8	5
39	Imaging with Optogenetically Engineered Living Cells as a Photodetector. <i>Advanced Biology</i> , 2019, 3, 1800319.	3.0	5
40	Development of an image biosensor based on an optogenetically engineered cell for visual prostheses. <i>Nanoscale</i> , 2019, 11, 13213-13218.	2.8	5
41	Biomimetic construction of peritoneum to imitate peritoneal metastasis using digital micromirror device-based optical projection lithography. <i>Lab on A Chip</i> , 2020, 20, 3109-3119.	3.1	5
42	Atomic Force Microscopy for Tumor Research at Cell and Molecule Levels. <i>Microscopy and Microanalysis</i> , 2022, 28, 585-602.	0.2	5
43	Facile Method for Fabricating Microfluidic Chip Integrated with Microwell Arrays for Cell Trapping. <i>Micromachines</i> , 2019, 10, 719.	1.4	4
44	Micropatterned Cell-Repellent Interface Using Femtosecond Laser Direct Writing to Engineer Controlled Cell Organization. <i>Advanced Materials Technologies</i> , 2021, 6, 2100178.	3.0	3
45	Engineering Biological Tissues from the Bottom-Up: Recent Advances and Future Prospects. <i>Micromachines</i> , 2022, 13, 75.	1.4	3
46	Regulation of cell adhesion to poly(ethylene glycol) diacrylate film by modification with polystyrene nano-spheres. , 2016, , .		2
47	Non-invasive acquisition of mechanical properties of cells via passive microfluidic mechanisms: A review. <i>Biomicrofluidics</i> , 2021, 15, 031501.	1.2	2
48	Optogenetically engineered cell-based graphene transistor for pharmacodynamic evaluation of anticancer drugs. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131494.	4.0	2
49	Fabrication of microstructures using the DMD-based modulating projection printing method. , 2015, , .		1
50	Hydrogel Printing Based on UV-Induced Projection for Cell-Based Microarray Fabrication. <i>Methods in Molecular Biology</i> , 2018, 1771, 97-105.	0.4	1
51	Construction of Microenvironment Structures for the Study of Cell Behavior using DMD-based Optical Projection Lithography. , 2018, , .		1
52	Recent advances in optically induced dielectrophoresis and its biomedical applications. <i>Biomedical Microdevices</i> , 2022, 24, .	1.4	1
53	Tumor cellular behaviors regulated by controlled microenvironment. , 2015, , .		0
54	Controllable cancer cell growth using UV patterned hydrogels via DMD-based modulating projection printing. , 2015, , .		0

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55	Patterned microwell arrays for single-cell analysis and drug screening. , 2017, , .		0
56	Non-UV Patterning of Gelatin Methacryloyl Hydrogel by Optically Induced Electropolymerization. , 2018, , .		0
57	Cellâ€Repellent Interfaces: Micropatterned Cellâ€Repellent Interface Using Femtosecond Laser Direct Writing to Engineer Controlled Cell Organization (Adv. Mater. Technol. 7/2021). Advanced Materials Technologies, 2021, 6, 2170038.	3.0	0
58	Customized construction of microscale multi-component biostructures for cellular applications. Materials Science and Engineering C, 2022, 133, 112599.	3.8	0
59	Accurate and Automatic Extraction of Cell Self-Rotation Speed in an ODEP Field Using an Area Change Algorithm. Micromachines, 2022, 13, 818.	1.4	0