Li-Jing Cheng

List of Publications by Year
in descending order

56	1,944	304368 22	253896 43
papers	citations	h-index	g-index

56	56	56	2168
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanofluidic diodes. Chemical Society Reviews, 2010, 39, 923-938.	18.7	297
2	Nanoscale Protein Patterning by Imprint Lithography. Nano Letters, 2004, 4, 853-857.	4.5	276
3	Rectified Ion Transport through Concentration Gradient in Homogeneous Silica Nanochannels. Nano Letters, 2007, 7, 3165-3171.	4.5	205
4	Ionic Current Rectification, Breakdown, and Switching in Heterogeneous Oxide Nanofluidic Devices. ACS Nano, 2009, 3, 575-584.	7.3	178
5	Microscale pH regulation by splitting water. Biomicrofluidics, 2011, 5, 46502-465028.	1.2	69
6	Highly Efficient Guiding of Microtubule Transport with Imprinted CYTOP Nanotracks. Small, 2005, 1, 409-414.	5.2	64
7	Photo-induced spatial modulation of THz waves: opportunities and limitations. Optics Express, 2015, 23, 32098.	1.7	62
8	Optical modulation of continuous terahertz waves towards cost-effective reconfigurable quasi-optical terahertz components. Optics Express, 2013, 21, 28657.	1.7	52
9	Sensitive and selective electrochemical sensor for serotonin detection based on ferrocene-gold nanoparticles decorated multiwall carbon nanotubes. Sensors and Actuators B: Chemical, 2022, 354, 131216.	4.0	51
10	Switchable pH actuators and 3D integrated salt bridges as new strategies for reconfigurable microfluidic free-flow electrophoretic separation. Lab on A Chip, 2014, 14, 979.	3.1	50
11	Coded-Aperture Imaging Using Photo-Induced Reconfigurable Aperture Arrays for Mapping Terahertz Beams. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 321-327.	2.0	47
12	Nano gold-doped molecularly imprinted electrochemical sensor for rapid and ultrasensitive cortisol detection. Biosensors and Bioelectronics, 2022, 206, 114142.	5.3	45
13	Optofluidic sensing from inkjet-printed droplets: the enormous enhancement by evaporation-induced spontaneous flow on photonic crystal biosilica. Nanoscale, 2016, 8, 17285-17294.	2.8	44
14	Label-Free Sensitive Detection of Steroid Hormone Cortisol Based on Target-Induced Fluorescence Quenching of Quantum Dots. Langmuir, 2020, 36, 7781-7788.	1.6	34
15	Real-time frequency-domain terahertz sensing and imaging of isopropyl alcoholâ€“water mixtures on a microfluidic chip. Sensors and Actuators B: Chemical, 2013, 184, 228-234.	4.0	33
16	Approaching realâ€time terahertz imaging with photoâ€induced coded apertures and compressed sensing. Electronics Letters, 2014, 50, 801-803.	0.5	33
17	A 740-GHz Dynamic Two-Dimensional Beam-Steering and Forming Antenna Based on Photo-Induced Reconfigurable Fresnel Zone Plates. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 310-319.	2.0	33
18	High-performance low-temperature poly-Si TFTs crystallized by excimer laser irradiation with recessed-channel structure. IEEE Electron Device Letters, 2001, 22, 269-271.	2.2	31

#	Article	IF	Citations
19	Biomolecular motor-driven molecular sorter. Lab on A Chip, 2009, 9, 1282.	3.1	31
20	Quantum Dot Fullerene-Based Molecular Beacon Nanosensors for Rapid, Highly Sensitive Nucleic Acid Detection. ACS Applied Materials & Interfaces, 2018, 10, 18524-18531.	4.0	31
21	Subwavelength focusing of terahertz waves in silicon hyperbolic metamaterials. Optics Letters, 2016, 41, 3539.	1.7	28
22	Plasmonic Open-Ring Nanoarrays for Broadband Fluorescence Enhancement and Ultrasensitive DNA Detection. Journal of Physical Chemistry C, 2018, 122, 770-776.	1.5	26
23	Metal assisted focused-ion beam nanopatterning. Nanotechnology, 2016, 27, 36LT01.	1.3	25
24	Nonequilibrium hysteresis and Wien effect water dissociation at a bipolar membrane. Physical Review E, 2012, 86, 056104.	0.8	22
25	Plasmonic nanoparticlesâ€decorated diatomite biosilica: extending the horizon of onâ€chip chromatography and labelâ€free biosensing. Journal of Biophotonics, 2017, 10, 1473-1484.	1.1	22
26	Entrance effect on ion transport in nanochannels. Microfluidics and Nanofluidics, 2010, 9, 1033-1039.	1.0	21
27	A Nanomembrane-Based Nucleic Acid Sensing Platform for Portable Diagnostics. Topics in Current Chemistry, 2011, 304, 153-169.	4.0	20
28	Investigation and Demonstration of a WR-4.3 Optically Controlled Waveguide Attenuator. IEEE Transactions on Terahertz Science and Technology, 2017, , 1-7.	2.0	17
29	Electrokinetic ion transport in nanofluidics and membranes with applications in bioanalysis and beyond. Biomicrofluidics, 2018, 12, 021502.	1.2	14
30	Aluminum ultravioletâ€“visible plasmonic arrays for broadband and wavelength-selective enhancements of quantum dot emission. Applied Physics Letters, 2017, 111, 081106.	1.5	10
31	High aspect ratio nanoimprinted grooves of poly(lactic-co-glycolic acid) control the length and direction of retraction fibers during fibroblast cell division. Biointerphases, 2015, 10, 041008.	0.6	9
32	Quasi-Optical Terahertz Microfluidic Devices for Chemical Sensing and Imaging. Micromachines, 2016, 7, 75.	1.4	8
33	Degradation of passivated and non-passivated N-channel low-temperature polycrystalline silicon TFTs prepared by excimer laser processing. Solid-State Electronics, 2002, 46, 1079-1083.	0.8	7
34	Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals. MRS Advances, 2018, 3, 3465-3470.	0.5	7
35	Ferrocene-grafted carbon nanotubes for sensitive non-enzymatic electrochemical detection of hydrogen peroxide. Journal of Electroanalytical Chemistry, 2022, 908, 116101.	1.9	7
36	Fabrication of Low-Temperature Poly-Si Thin Film Transistors with Self-Aligned Graded Lightly Doped Drain Structure. Electrochemical and Solid-State Letters, 2002, 5, G1.	2.2	6

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37	Strong excitonâ€"photon coupling in anthradithiophene microcavities: from isolated molecules to aggregates. MRS Communications, 2019, 9, 956-963.	0.8	5
38	Optically controlled reconfigurable terahertz waveguide filters based on photo-induced electromagnetic band gap structures using mesa arrays. OSA Continuum, 2018, 1, 1429.	1.8	5
39	Approaching real-time terahertz imaging using photo-induced reconfigurable aperture arrays. Proceedings of SPIE, 2014, , .	0.8	4
40	Advanced photo-induced substrate-integrated waveguides using pillar-array structures for tunable and reconfigurable THz circuits. Optics Express, 2020, 28, 7259.	1.7	4
41	Strong excitonâ€"plasmon coupling in dye-doped film on a planar hyperbolic metamaterial. Optics Letters, 2020, 45, 6736.	1.7	4
42	Reconfigurable photoinduced terahertz wave modulation using hybrid metalâ€"silicon metasurface. Optics Letters, 2022, 47, 2750.	1.7	3
43	Surface-plasmon-enhanced photoluminescence of quantum dots based on open-ring nanostructure array. , 2016, , .		1
44	Ferrocene Functionalized Gold Nanoparticles on Carbon Nanotube Electrodes for Portable Dopamine Sensor. ECS Meeting Abstracts, 2021, MA2021-01, 1345-1345.	0.0	1
45	Large-area outcoupling of quantum dot emission on multilayer hyperbolic metamaterials. , 2018, , .		1
46	Enhanced molecular beacon based DNA detection using plasmonic open-ring nanoarrays. , 2018, , .		1
47	Characterization of Low Temperature Polysilicon TFTs with Self-Aligned Graded LDD Structure. Materials Research Society Symposia Proceedings, 2001, 685, 1.	0.1	0
48	Mapping and sensing microfluidic chemical reactions using a frequency domain terahertz system. , 2012, , .		0
49	Tunable and reconfigurable THz devices for advanced imaging and adaptive wireless communication. , 2016, , .		0
50	Magnetoplasmonic Nanoparticles for Enhanced Nucleic Acid Detection. , 2021, , .		0
51	Broadband Fluorescence Enhancement and Ultrasensitive DNA Detection Using Plasmonic Open-Ring Nanoarrays. , 2018, , .		0
52	Broadband enhancement of quantum dot emission for microLED using Ag plasmonic nanoparticles. , 2018, , .		0
53	Red emission carbon dots for microLED application. , 2019, , .		0
54	Silver coated magnetic nanoparticles for enhanced nucleic acid detection. , 2019, , .		0

#	Article	IF	Citations
55	Large-Area Silver Nanodimple Arrays for Ultrasensitive Molecular Beacon-Based DNA Sensing. , 2020, , .		0
56	Controlling the Level of Coupling Between Quantum Emitters and Planar Hyperbolic Metamaterials. , 2020, , .		0