Wen-Di Li

List of Publications by Year
in descending order

56 papers	1,936 citations	331670 21 h-index	254184 43 g-index
57 all docs	57 docs citations	57 times ranked	3478 citing authors

#	Article	IF	Citations
1	Engineering nonlinearity into memristors for passive crossbar applications. Applied Physics Letters, 2012, 100, .	3.3	179
2	Highâ€Performance Flexible Transparent Electrode with an Embedded Metal Mesh Fabricated by Costâ€Effective Solution Process. Small, 2016, 12, 3021-3030.	10.0	178
3	Three-dimensional cavity nanoantenna coupled plasmonic nanodots for ultrahigh and uniform surface-enhanced Raman scattering over large area. Optics Express, 2011, 19, 3925.	3.4	166
4	Top-down fabrication of shape-controlled, monodisperse nanoparticles for biomedical applications. Advanced Drug Delivery Reviews, 2018, 132, 169-187.	13.7	135
5	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. Nano Letters, 2017, 17, 7974-7979.	9.1	112
6	Giant and uniform fluorescence enhancement over large areas using plasmonic nanodots in 3D resonant cavity nanoantenna by nanoimprinting. Nanotechnology, 2012, 23, 225301.	2.6	83
7	Combined helium ion beam and nanoimprint lithography attains 4â€‰nm half-pitch dense patterns. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 06F304.	1.2	77
8	Solar-blind deep-UV band-pass filter (250 - 350 nm) consisting of a metal nano-grid fabricated by nanoimprint lithography. Optics Express, 2010, 18, 931.	3.4	75
9	Light-stimulated actuators based on nickel hydroxide-oxyhydroxide. Science Robotics, 2018, 3, .	17.6	75
10	Minimizing Voltage Loss in Efficient All-Inorganic CsPbI₂Br Perovskite Solar Cells through Energy Level Alignment. ACS Energy Letters, 2019, 4, 2491-2499.	17.4	68
11	High density nitrogen-vacancy sensing surface created via He+ ion implantation of 12C diamond. Applied Physics Letters, 2016, 108, .	3.3	63
12	Extraordinary light transmission through opaque thin metal film with subwavelength holes blocked by metal disks. Optics Express, 2011, 19, 21098.	3.4	59
13	Bioinspired Nanostructured Surfaces for On-Demand Bubble Transportation. ACS Applied Materials & Interfaces, 2018, 10, 3029-3038.	8.0	53
14	Stretchable Transparent Electrodes with Solution-Processed Regular Metal Mesh for an Electroluminescent Light-Emitting Film. ACS Applied Materials & Interfaces, 2018, 10, 21009-21017.	8.0	53
15	Selective Electroless Metallization of Micro- and Nanopatterns via Poly(dopamine) Modification and Palladium Nanoparticle Catalysis for Flexible and Stretchable Electronic Applications. ACS Applied Materials & Interfaces, 2018, 10, 28754-28763.	8.0	48
16	Solution-Processed Transparent Nickel-Mesh Counter Electrode with in-Situ Electrodeposited Platinum Nanoparticles for Full-Plastic Bifacial Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 8083-8091.	8.0	45
17	Sub-diffraction imaging of nitrogen-vacancy centers in diamond by stimulated emission depletion and structured illumination. RSC Advances, 2014, 4, 11305.	3.6	39
18	Solutionâ€Processed Largeâ€Area Gold Nanocheckerboard Metasurfaces on Flexible Plastics for Plasmonic Biomolecular Sensing. Advanced Optical Materials, 2019, 7, 1900516.	7.3	34

#	Article	IF	Citations
19	Highly transparent and flexible polyaniline mesh sensor for chemiresistive sensing of ammonia gas. RSC Advances, 2018, 8, 5312-5320.	3.6	31
20	Templateâ€Electrodeposited and Imprintâ€Transferred Microscale Metalâ€Mesh Transparent Electrodes for Flexible and Stretchable Electronics. Advanced Engineering Materials, 2019, 21, 1900723.	3.5	31
21	Nanostructured texturing of CH3NH3PbI3 perovskite thin film on flexible substrate for photodetector application. Organic Electronics, 2019, 71, 284-289.	2.6	26
22	3D Volumetric Energy Deposition of Focused Helium Ion Beam Lithography: Visualization, Modeling, and Applications in Nanofabrication. Advanced Materials Interfaces, 2018, 5, 1800203.	3.7	22
23	Printing of sub-20 nm wide graphene ribbon arrays using nanoimprinted graphite stamps and electrostatic force assisted bonding. Nanotechnology, 2011, 22, 445301.	2.6	21
24	A Bilayer 2D-WS2/Organic-Based Heterojunction for High-Performance Photodetectors. Nanomaterials, 2019, 9, 1312.	4.1	21
25	Scalable Fabrication of Metallic Nanofiber Network via Templated Electrodeposition for Flexible Electronics. Advanced Functional Materials, 2019, 29, 1903123.	14.9	21
26	Edge-Epitaxial Growth of Graphene on Cu with a Hydrogen-Free Approach. Chemistry of Materials, 2019, 31, 2555-2562.	6.7	19
27	Nanoimprint lithography with â‰60 nm overlay precision. Applied Physics A: Materials Science and Processing, 2012, 106, 767-772.	2.3	18
28	Wafer-scale nanopatterning using fast-reconfigurable and actively-stabilized two-beam fiber-optic interference lithography. Optics Express, 2018, 26, 8194.	3.4	16
29	Fabrication of a 60â€nmâ€Diameter Perfectly Round Metalâ€Dot Array over a Large Area on a Plastic Substrate Using Nanoimprint Lithography and Selfâ€Perfection by Liquefaction. Small, 2010, 6, 1242-1247.	10.0	15
30	Ultrasensitive Molecular Detection by Imaging of Centimeterâ€Scale Metasurfaces with a Deterministic Gradient Geometry. Advanced Materials, 2021, 33, e2100270.	21.0	15
31	Highly-facile template-based selective electroless metallization of micro- and nanopatterns for plastic electronics and plasmonics. Journal of Materials Chemistry C, 2019, 7, 4363-4373.	5.5	14
32	Nanostructure transfer using cyclic olefin copolymer templates fabricated by thermal nanoimprint lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	1.2	13
33	Dynamic nuclear polarization enhanced magnetic field sensitivity and decoherence spectroscopy of an ensemble of near-surface nitrogen-vacancy centers in diamond. Applied Physics Letters, 2017, 110, .	3.3	13
34	Stretching-tunable metal gratings fabricated on an elastomeric substrate using a water-soluble sacrificial layer. Applied Physics A: Materials Science and Processing, 2015, 121, 335-341.	2.3	12
35	Patterning of high-aspect-ratio nanogratings using phase-locked two-beam fiber-optic interference lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	1.2	12
36	Dualâ€Color Flexible Metasurfaces with Polarizationâ€Tunable Plasmons in Gold Nanorod Arrays. Advanced Optical Materials, 2021, 9, 2001401.	7.3	12

#	Article	IF	Citations
37	On-Demand 3D Printing of Nanowire Probes for High-Aspect-Ratio Atomic Force Microscopy Imaging. ACS Applied Materials & Interfaces, 2020, 12, 46571-46577.	8.0	9
38	Gradient wettability induced by deterministically patterned nanostructures. Microsystems and Nanoengineering, 2020, 6, 106.	7.0	9
39	Transparent CsPbBr‹sub›3‹/sub› Quantum Dot Photodetector with a Vertical Transistor Structure. ACS Applied Electronic Materials, 2021, 3, 337-343.	4.3	9
40	Induction-heated nanoimprint on soda-lime glass using sapphire molds. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	7
41	Spatial modulation of nanopattern dimensions by combining interference lithography and grayscale-patterned secondary exposure. Light: Science and Applications, 2022, 11, 89.	16.6	7
42	Ultrathin metal-mesh Janus membranes with nanostructure-enhanced hydrophobicity for high-efficiency fog harvesting. Journal of Cleaner Production, 2022, 363, 132444.	9.3	6
43	Flexible Electronics: Scalable Fabrication of Metallic Nanofiber Network via Templated Electrodeposition for Flexible Electronics (Adv. Funct. Mater. 35/2019). Advanced Functional Materials, 2019, 29, 1970242.	14.9	5
44	Quantized patterning using nanoimprinted blanks. Nanotechnology, 2009, 20, 155303.	2.6	3
45	Scalable Solution-processed Fabrication Strategy for High-performance, Flexible, Transparent Electrodes with Embedded Metal Mesh. Journal of Visualized Experiments, 2017, , .	0.3	3
46	Observing wetting behaviors of UV-curable liquid on nanostructured surfaces with sub-20 nm resolution. RSC Advances, 2014, 4, 22155-22161.	3.6	2
47	Drive-Current Tuning of Self-Oscillation Frequency of External Cavity VCSEL. , 2011, , .		1
48	Nanoscale negative-tone quantized patterning by novel selective electrochemical etching of a nanoimprinted sub-200 nm bimetallic tile array. Nanotechnology, 2012, 23, 355303.	2.6	1
49	Large-area Metal Grid Ultraviolet Filter Fabricated by Nanoimprint Lithography. , 2007, , .		0
50	Creation and transfer of gratings with designed spatially varying periodicity. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	0
51	Solution-processed metallic micro- and nanostructures for transparent electrodes and plasmonic sensors. , 2017, , .		0
52	Plasmonic Metasurfaces: Solutionâ€Processed Largeâ€Area Gold Nanocheckerboard Metasurfaces on Flexible Plastics for Plasmonic Biomolecular Sensing (Advanced Optical Materials 19/2019). Advanced Optical Materials, 2019, 7, 1970072.	7.3	0
53	49.2: Invited Paper: Solutionâ€processed Metallic Microâ€and Nanostructures for Transparent Electrodes in Flexible Display and Sensing Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 554-555.	0.3	0
54	InGaAs/InP Subwavelength Grating Filters for the Mid-Infrared. , 2010, , .		0

#	Article	IF	Citations
55	100 nm Metallic Checkerboard by Wafer-scale Nanoimprint and Its Application in Surface Enhanced Raman Spectroscopy. , 2010, , .		0
56	Blocker size effects on extraordinary light transmission through subwavelength holes in opaque thin metal film. , 2012, , .		0