

Wen-Di Li

List of Publications by Year in descending order

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56
papers

1,936
citations

331670

21
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254184

43
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57
all docs

57
docs citations

57
times ranked

3478
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial modulation of nanopattern dimensions by combining interference lithography and grayscale-patterned secondary exposure. <i>Light: Science and Applications</i> , 2022, 11, 89.	16.6	7
2	Ultrathin metal-mesh Janus membranes with nanostructure-enhanced hydrophobicity for high-efficiency fog harvesting. <i>Journal of Cleaner Production</i> , 2022, 363, 132444.	9.3	6
3	Dual-Color Flexible Metasurfaces with Polarization-Tunable Plasmons in Gold Nanorod Arrays. <i>Advanced Optical Materials</i> , 2021, 9, 2001401.	7.3	12
4	Ultrasensitive Molecular Detection by Imaging of Centimeter-Scale Metasurfaces with a Deterministic Gradient Geometry. <i>Advanced Materials</i> , 2021, 33, e2100270.	21.0	15
5	Transparent CsPbBr ₃ Quantum Dot Photodetector with a Vertical Transistor Structure. <i>ACS Applied Electronic Materials</i> , 2021, 3, 337-343.	4.3	9
6	On-Demand 3D Printing of Nanowire Probes for High-Aspect-Ratio Atomic Force Microscopy Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46571-46577.	8.0	9
7	Gradient wettability induced by deterministically patterned nanostructures. <i>Microsystems and Nanoengineering</i> , 2020, 6, 106.	7.0	9
8	Solution-Processed Large-Area Gold Nanocheckerboard Metasurfaces on Flexible Plastics for Plasmonic Biomolecular Sensing. <i>Advanced Optical Materials</i> , 2019, 7, 1900516.	7.3	34
9	Plasmonic Metasurfaces: Solution-Processed Large-Area Gold Nanocheckerboard Metasurfaces on Flexible Plastics for Plasmonic Biomolecular Sensing (<i>Advanced Optical Materials</i> 19/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970072.	7.3	0
10	Template-Electrodeposited and Imprint-Transferred Microscale Metal-Mesh Transparent Electrodes for Flexible and Stretchable Electronics. <i>Advanced Engineering Materials</i> , 2019, 21, 1900723.	3.5	31
11	Patterning of high-aspect-ratio nanogratings using phase-locked two-beam fiber-optic interference lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, .	1.2	12
12	Flexible Electronics: Scalable Fabrication of Metallic Nanofiber Network via Templated Electrodeposition for Flexible Electronics (<i>Adv. Funct. Mater.</i> 35/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970242.	14.9	5
13	Minimizing Voltage Loss in Efficient All-Inorganic CsPb ₂ Br Perovskite Solar Cells through Energy Level Alignment. <i>ACS Energy Letters</i> , 2019, 4, 2491-2499.	17.4	68
14	A Bilayer 2D-WS ₂ /Organic-Based Heterojunction for High-Performance Photodetectors. <i>Nanomaterials</i> , 2019, 9, 1312.	4.1	21
15	Nanostructured texturing of CH ₃ NH ₃ PbI ₃ perovskite thin film on flexible substrate for photodetector application. <i>Organic Electronics</i> , 2019, 71, 284-289.	2.6	26
16	Scalable Fabrication of Metallic Nanofiber Network via Templated Electrodeposition for Flexible Electronics. <i>Advanced Functional Materials</i> , 2019, 29, 1903123.	14.9	21
17	Highly-facile template-based selective electroless metallization of micro- and nanopatterns for plastic electronics and plasmonics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4363-4373.	5.5	14
18	Edge-Epitaxial Growth of Graphene on Cu with a Hydrogen-Free Approach. <i>Chemistry of Materials</i> , 2019, 31, 2555-2562.	6.7	19

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19	49.2: Invited Paper: Solution-processed Metallic Micro- 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
20	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
21	Highly transparent and flexible polyaniline mesh sensor for chemiresistive sensing of ammonia gas. RSC Advances, 2018, 8, 5312-5320.	3.6	31
22	Bioinspired Nanostructured Surfaces for On-Demand Bubble Transportation. ACS Applied Materials & Interfaces, 2018, 10, 3029-3038.	8.0	53
23	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
24	Light-stimulated actuators based on nickel hydroxide-oxyhydroxide. Science Robotics, 2018, 3, .	17.6	75
25	Wafer-scale nanopatterning using fast-reconfigurable and actively-stabilized two-beam fiber-optic interference lithography. Optics Express, 2018, 26, 8194.	3.4	16
26	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
27	Top-down fabrication of shape-controlled, monodisperse nanoparticles for biomedical applications. Advanced Drug Delivery Reviews, 2018, 132, 169-187.	13.7	135
28	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
29	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
30	Scalable Solution-processed Fabrication Strategy for High-performance, Flexible, Transparent Electrodes with Embedded Metal Mesh. Journal of Visualized Experiments, 2017, , .	0.3	3
31	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. Nano Letters, 2017, 17, 7974-7979.	9.1	112
32	Solution-processed metallic micro- and nanostructures for transparent electrodes and plasmonic sensors. , 2017, , .		0
33	High-performance Flexible Transparent Electrode with an Embedded Metal Mesh Fabricated by Cost-effective Solution Process. Small, 2016, 12, 3021-3030.	10.0	178
34	High density nitrogen-vacancy sensing surface created via He+ ion implantation of 12C diamond. Applied Physics Letters, 2016, 108, .	3.3	63
35	Creation and transfer of gratings with designed spatially varying periodicity. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	0
36	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

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37	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
38	Sub-diffraction imaging of nitrogen-vacancy centers in diamond by stimulated emission depletion and structured illumination. RSC Advances, 2014, 4, 11305.	3.6	39
39	Observing wetting behaviors of UV-curable liquid on nanostructured surfaces with sub-20 nm resolution. RSC Advances, 2014, 4, 22155-22161.	3.6	2
40	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
41	Combined helium ion beam and nanoimprint lithography attains 4 μ m half-pitch dense patterns. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 06F304.	1.2	77
42	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
43	Engineering nonlinearity into memristors for passive crossbar applications. Applied Physics Letters, 2012, 100, .	3.3	179
44	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
45	Nanoimprint lithography with ± 60 nm overlay precision. Applied Physics A: Materials Science and Processing, 2012, 106, 767-772.	2.3	18
46	Blocker size effects on extraordinary light transmission through subwavelength holes in opaque thin metal film. , 2012, , .		0
47	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
48	Extraordinary light transmission through opaque thin metal film with subwavelength holes blocked by metal disks. Optics Express, 2011, 19, 21098.	3.4	59
49	Drive-Current Tuning of Self-Oscillation Frequency of External Cavity VCSEL. , 2011, , .		1
50	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
51	Fabrication of a 60 μ m Diameter Perfectly Round Metal Dot Array over a Large Area on a Plastic Substrate Using Nanoimprint Lithography and Self-Perfection by Liquefaction. Small, 2010, 6, 1242-1247.	10.0	15
52	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
53	InGaAs/InP Subwavelength Grating Filters for the Mid-Infrared. , 2010, , .		0
54	100 nm Metallic Checkerboard by Wafer-scale Nanoimprint and Its Application in Surface Enhanced Raman Spectroscopy. , 2010, , .		0

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55	Quantized patterning using nanoimprinted blanks. <i>Nanotechnology</i> , 2009, 20, 155303.	2.6	3
56	Large-area Metal Grid Ultraviolet Filter Fabricated by Nanoimprint Lithography. , 2007, , .		0