

# Minlin Zhong

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

4,032  
citations

116194

36  
h-index

134545

62  
g-index

88  
all docs

88  
docs citations

88  
times ranked

5393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous dewetting transitions of droplets during icing & melting cycle. <i>Nature Communications</i> , 2022, 13, 378.	5.8	113
2	Ultrathin aluminum wick with dual-scale microgrooves for enhanced capillary performance. <i>International Journal of Heat and Mass Transfer</i> , 2022, 190, 122762.	2.5	18
3	Micro-“Nano-Nanowire Triple Structure-Held PDMS Superhydrophobic Surfaces for Robust Ultra-Long-Term Icephobic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23973-23982.	4.0	39
4	Anisotropic Hemiwicking Behavior on Laser Structured Prismatic Microgrooves. <i>Langmuir</i> , 2022, 38, 6665-6675.	1.6	8
5	Wetting behavior of gallium-based room temperature liquid metal (LM) on nanosecond-laser-structured metal surfaces. <i>Surfaces and Interfaces</i> , 2022, 32, 102180.	1.5	6
6	Cauliflower-like micro-nano structured superhydrophobic surfaces for durable anti-icing and photothermal de-icing. <i>Chemical Engineering Journal</i> , 2022, 450, 137936.	6.6	24
7	Femtosecond laser micro-nano structured Ag SERS substrates with unique sensitivity, uniformity and stability for food safety evaluation. <i>Optics and Laser Technology</i> , 2021, 139, 106969.	2.2	40
8	Nanosecond Laser Cleaning Method to Reduce the Surface Inert Layer and Activate the Garnet Electrolyte for a Solid-State Li Metal Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37082-37090.	4.0	35
9	Directional anchoring patterned liquid-infused superamphiphobic surfaces for high-throughput droplet manipulation. <i>Lab on A Chip</i> , 2021, 21, 1373-1384.	3.1	17
10	Triple-Scale Superhydrophobic Surface with Excellent Anti-Icing and Icephobic Performance via Ultrafast Laser Hybrid Fabrication. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1743-1753.	4.0	147
11	Laser Surface Structuring of Metals and Functionalization. , 2021, , 979-1016.		0
12	Laser Surface Micro-Nano Structuring via Hybrid Process. , 2021, , 937-978.		0
13	Pulsed laser-assisted synthesis of defect-rich NiFe-based oxides for efficient oxygen evolution reaction. <i>Journal of Laser Applications</i> , 2020, 32, 022032.	0.8	7
14	Ultrafast laser hybrid fabrication of hierarchical 3D structures of nanorods on microcones for superhydrophobic surfaces with excellent Cassie state stability and mechanical durability. <i>Journal of Laser Applications</i> , 2020, 32, .	0.8	14
15	Formability of Medium Mn Steel Welded Joints. <i>Metals</i> , 2020, 10, 706.	1.0	3
16	Microstructure and Mechanical Properties of Simulated Heat Affected Zone of Laser Welded Medium-Mn Steel. <i>ISIJ International</i> , 2020, 60, 2266-2275.	0.6	1
17	Oil-triggered switchable wettability on patterned alternating air/lubricant-infused superamphiphobic surfaces. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6647-6660.	5.2	19
18	Three-Dimensional and In Situ-Activated Spinel Oxide Nanoporous Clusters Derived from Stainless Steel for Efficient and Durable Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13971-13981.	4.0	21

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19	Ultrafast laser micro-nano structured superhydrophobic teflon surfaces for enhanced SERS detection via evaporation concentration. <i>Advanced Optical Technologies</i> , 2020, 9, 89-100.	0.9	4
20	Laser Surface Structuring of Metals and Functionalization. , 2020, , 1-38.		1
21	Laser Surface Micro-Nano Structuring via Hybrid Process. , 2020, , 1-42.		0
22	Binder-free carbon-coated nanocotton transition metal oxides integrated anodes by laser surface ablation for lithium-ion batteries. <i>Surface and Interface Analysis</i> , 2019, 51, 874-881.	0.8	5
23	Extremely high Cassie-Baxter state stability of superhydrophobic surfaces <i>via</i> precisely tunable dual-scale and triple-scale micro-nano structures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18050-18062.	5.2	86
24	Laser-Assisted Doping and Architecture Engineering of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for Highly Enhanced Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2019, 12, 3562-3570.	3.6	19
25	Flexible control over optical reflection property of metallic surfaces via pulse laser. <i>Journal of Laser Applications</i> , 2019, 31, 022502.	0.8	3
26	An integrative bioinspired venation network with ultra-contrasting wettability for large-scale strongly self-driven and efficient water collection. <i>Nanoscale</i> , 2019, 11, 8940-8949.	2.8	55
27	Wettability transition modes of aluminum surfaces with various micro/nanostructures produced by a femtosecond laser. <i>Journal of Laser Applications</i> , 2019, 31, .	0.8	39
28	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 46140-46148.	4.0	25
29	Ultrafast Laser Enabling Hierarchical Structures for Versatile Superhydrophobicity with Enhanced Cassie-Baxter Stability and Durability. <i>Langmuir</i> , 2019, 35, 16693-16711.	1.6	48
30	Fabrication of superwetting surfaces by ultrafast lasers and mechanical durability of superhydrophobic surfaces. <i>Chinese Science Bulletin</i> , 2019, 64, 1268-1289.	0.4	6
31	Comprehensively durable superhydrophobic metallic hierarchical surfaces <i>via</i> tunable micro-cone design to protect functional nanostructures. <i>RSC Advances</i> , 2018, 8, 6733-6744.	1.7	43
32	Durable and robust transparent superhydrophobic glass surfaces fabricated by a femtosecond laser with exceptional water repellency and thermostability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9049-9056.	5.2	146
33	Defective molybdenum sulfide quantum dots as highly active hydrogen evolution electrocatalysts. <i>Nano Research</i> , 2018, 11, 751-761.	5.8	83
34	3D re-entrant nanograss on microcones for durable superamphiphobic surfaces via laser-chemical hybrid method. <i>Applied Surface Science</i> , 2018, 456, 726-736.	3.1	45
35	A current collector covering nanostructured villous oxygen-deficient NiO fabricated by rapid laser-scan for Li-O <sub>2</sub> batteries. <i>Nano Energy</i> , 2018, 51, 83-90.	8.2	54
36	Patternable fabrication of hyper-hierarchical metal surface structures for ultrabroadband antireflection and self-cleaning. <i>Applied Surface Science</i> , 2018, 457, 991-999.	3.1	30

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37	CoS <sub>2</sub> -incorporated WS <sub>2</sub> nanosheets for efficient hydrogen production. <i>Electrochimica Acta</i> , 2018, 287, 1-9.	2.6	23
38	Antireflection Surfaces for Biological Analysis Using Laser Desorption Ionization Mass Spectrometry. <i>Research</i> , 2018, 2018, 5439729.	2.8	14
39	Large-Scale Tunable 3D Self-Supporting WO <sub>3</sub> Micro-Nano Architectures as Direct Photoanodes for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17856-17864.	4.0	57
40	Large-scale hierarchical oxide nanostructures for high-performance electrocatalytic water splitting. <i>Nano Energy</i> , 2017, 35, 207-214.	8.2	101
41	In situ preparation of a binder-free nano-cotton-like CuO@Cu integrated anode on a current collector by laser ablation oxidation for long cycle life Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19781-19789.	5.2	30
42	General Strategy toward Dual-Scale-Controlled Metallic Micro@Nano Hybrid Structures with Ultralow Reflectance. <i>ACS Nano</i> , 2017, 11, 7401-7408.	7.3	117
43	Large-scale cauliflower-shaped hierarchical copper nanostructures for efficient photothermal conversion. <i>Nanoscale</i> , 2016, 8, 14617-14624.	2.8	106
44	Ultrafast laser-induced morphological transformations. <i>MRS Bulletin</i> , 2016, 41, 969-974.	1.7	21
45	High-temperature imprinting and superhydrophobicity of micro/nano surface structures on metals using molds fabricated by ultrafast laser ablation. <i>Journal of Materials Processing Technology</i> , 2016, 236, 56-63.	3.1	27
46	Large scale and cost effective generation of 3D self-supporting oxide nanowire architectures by a top-down and bottom-up combined approach. <i>RSC Advances</i> , 2016, 6, 45923-45930.	1.7	15
47	Anisotropic Sliding of Water Droplets on the Superhydrophobic Surfaces with Anisotropic Groove-Like Micro/Nano Structures. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600641.	1.9	52
48	Robust and Stable Transparent Superhydrophobic Polydimethylsiloxane Films by Duplicating via a Femtosecond Laser-Ablated Template. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17511-17518.	4.0	102
49	Cassie-State Stability of Metallic Superhydrophobic Surfaces with Various Micro/Nanostructures Produced by a Femtosecond Laser. <i>Langmuir</i> , 2016, 32, 1065-1072.	1.6	115
50	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. <i>Scientific Reports</i> , 2015, 5, 11662.	1.6	91
51	SiO <sub>2</sub> Nanodandelion by Laser Ablation for Anode of Lithium-Ion Battery. <i>Small</i> , 2015, 11, 6009-6012.	5.2	33
52	Thermal stability of micro@nano structures and superhydrophobicity of polytetrafluoroethylene films formed by hot embossing via a picosecond laser ablated template. <i>Applied Surface Science</i> , 2015, 331, 437-443.	3.1	33
53	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. <i>NPG Asia Materials</i> , 2015, 7, e162-e162.	3.8	94
54	Superhydrophobic Surfaces Fabricated by Femtosecond Laser with Tunable Water Adhesion: From Lotus Leaf to Rose Petal. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9858-9865.	4.0	287

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55	Wettability conversion of ultrafast laser structured copper surface. <i>Journal of Laser Applications</i> , 2015, 27, .	0.8	139
56	Tuning the optical reflection property of metal surfaces via micro/nano particle structures fabricated by ultrafast laser. <i>Applied Surface Science</i> , 2015, 359, 7-13.	3.1	29
57	Laser Controllable Growth of Graphene via Ni-Cu Alloy Composition Modulation. <i>Lasers in Manufacturing and Materials Processing</i> , 2015, 2, 219-230.	1.2	4
58	Cellulose-Templated Graphene Monoliths with Anisotropic Mechanical, Thermal, and Electrical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19145-19152.	4.0	37
59	Broadband High-Performance Infrared Antireflection Nanowires Facilely Grown on Ultrafast Laser Structured Cu Surface. <i>Nano Letters</i> , 2015, 15, 5988-5994.	4.5	68
60	Superhydrophilicity to superhydrophobicity transition of picosecond laser microstructured aluminum in ambient air. <i>Journal of Colloid and Interface Science</i> , 2015, 441, 1-9.	5.0	360
61	Direct laser fabrication of large-area graphene: An engineering approach to nano-materials. , 2014, , .		0
62	Angle-independent colorization of copper surfaces by simultaneous generation of picosecond-laser-induced nanostructures and redeposited nanoparticles. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	31
63	Hybrid Heterojunction and Solid-State Photoelectrochemical Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400224.	10.2	43
64	Amorphous Nitrogen Doped Carbon Films: A Novel Corrosion Resistant Coating Material. <i>Advanced Engineering Materials</i> , 2014, 16, 532-538.	1.6	13
65	Magnetic transitions in graphene derivatives. <i>Nano Research</i> , 2014, 7, 1507-1518.	5.8	39
66	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7734-7737.	5.2	39
67	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. <i>Nano Research</i> , 2014, 7, 1477-1487.	5.8	111
68	Correlation between nanoparticle location and graphene nucleation in chemical vapour deposition of graphene. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13123-13128.	5.2	16
69	Superhydrophobic and colorful copper surfaces fabricated by picosecond laser induced periodic nanostructures. <i>Applied Surface Science</i> , 2014, 311, 461-467.	3.1	149
70	Realizing Synchronous Energy Harvesting and Ion Separation with Graphene Oxide Membranes. <i>Scientific Reports</i> , 2014, 4, 5528.	1.6	37
71	Electro- and Magneto-Modulated Ion Transport through Graphene Oxide Membranes. <i>Scientific Reports</i> , 2014, 4, 6798.	1.6	37
72	Sequential color change on copper surfaces via micro/nano structure modification induced by a picosecond laser. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	26

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73	Anomalous Behaviors of Graphene Transparent Conductors in Graphene/Silicon Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1029-1034.	10.2	102
74	Flexible graphene woven fabrics for touch sensing. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	45
75	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 764-769.	1.2	69
76	Rapid fabrication of surface micro/nano structures with enhanced broadband absorption on Cu by picosecond laser. <i>Optics Express</i> , 2013, 21, 11628.	1.7	49
77	Sequential colorization of steel surface by ps laser texturing. , 2013, , .		1
78	Fabrication and characterization of nanoporous manganese structure by laser deposition hybrid selective electrochemical dealloying. , 2011, , .		0
79	Synthesis and Characterization of High-Entropy Alloy FeCoNiCuCr by Laser Cladding. <i>Advances in Materials Science and Engineering</i> , 2011, 2011, 1-7.	1.0	57
80	High temperature performance of laser deposition GH105 layers on nickel base super alloy blade. , 2010, , .		0
81	Nano WC powder cold enhancing of light metal surface by laser shock peening process. , 2009, , .		3
82	Laser deposition of Ti6Al4V-316L composition gradient structure: Challenge on intermetallics. , 2009, , .		0
83	Connection of macro-sized double-walled carbon nanotube strands by current-assisted laser irradiation. <i>Journal of Laser Applications</i> , 2008, 20, 122-126.	0.8	2
84	Precipitating behavior of in situ synthesized multiple carbide particles in laser cladde MMC coating. , 2007, , .		3
85	Mechanical performance of laser deposition repairing of in 738 on directionally solidified superalloy blade. , 2006, , .		1
86	Light emission characterization from multiwalled carbon nanotubes under CO2 laser irradiation. , 2006, , .		0
87	Microstructures and mechanical properties of laminated structural Nb-Ti-Al composites fabricated by laser deposition. , 2006, , .		0