Minlin Zhong

List of Publications by Year
in descending order

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		101543	118850
87	4,032	36	62
papers	citations	h-index	g-index

88	88	88	4716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superhydrophilicity to superhydrophobicity transition of picosecond laser microstructured aluminum in ambient air. Journal of Colloid and Interface Science, 2015, 441, 1-9.	9.4	360
2	Superhydrophobic Surfaces Fabricated by Femtosecond Laser with Tunable Water Adhesion: From Lotus Leaf to Rose Petal. ACS Applied Materials & Interfaces, 2015, 7, 9858-9865.	8.0	287
3	Superhydrophobic and colorful copper surfaces fabricated by picosecond laser induced periodic nanostructures. Applied Surface Science, 2014, 311, 461-467.	6.1	149
4	Triple-Scale Superhydrophobic Surface with Excellent Anti-Icing and Icephobic Performance via Ultrafast Laser Hybrid Fabrication. ACS Applied Materials & Interfaces, 2021, 13, 1743-1753.	8.0	147
5	Durable and robust transparent superhydrophobic glass surfaces fabricated by a femtosecond laser with exceptional water repellency and thermostability. Journal of Materials Chemistry A, 2018, 6, 9049-9056.	10.3	146
6	Wettability conversion of ultrafast laser structured copper surface. Journal of Laser Applications, 2015, 27, .	1.7	139
7	General Strategy toward Dual-Scale-Controlled Metallic Microâ€“Nano Hybrid Structures with Ultralow Reflectance. ACS Nano, 2017, 11, 7401-7408.	14.6	117
8	Cassie-State Stability of Metallic Superhydrophobic Surfaces with Various Micro/Nanostructures Produced by a Femtosecond Laser. Langmuir, 2016, 32, 1065-1072.	3.5	115
9	Spontaneous dewetting transitions of droplets during icing & melting cycle. Nature Communications, 2022, 13, 378.	12.8	113
10	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	10.4	111
11	Large-scale cauliflower-shaped hierarchical copper nanostructures for efficient photothermal conversion. Nanoscale, 2016, 8, 14617-14624.	5.6	106
12	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	19.5	102
13	Robust and Stable Transparent Superhydrophobic Polydimethylsiloxane Films by Duplicating via a Femtosecond Laser-Ablated Template. ACS Applied Materials & Interfaces, 2016, 8, 17511-17518.	8.0	102
14	Large-scale hierarchical oxide nanostructures for high-performance electrocatalytic water splitting. Nano Energy, 2017, 35, 207-214.	16.0	101
15	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	7.9	94
16	Precise Control of the Number of Layers of Graphene by Picosecond Laser Thinning. Scientific Reports, 2015, 5, 11662.	3.3	91
17	Extremely high Cassieâ€“Baxter state stability of superhydrophobic surfaces via precisely tunable dual-scale and triple-scale microâ€“nano structures. Journal of Materials Chemistry A, 2019, 7, 18050-18062.	10.3	86
18	Defective molybdenum sulfide quantum dots as highly active hydrogen evolution electrocatalysts. Nano Research, 2018, 11, 751-761.	10.4	83

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19	Direct Synthesis of Graphene Quantum Dots by Chemical Vapor Deposition. Particle and Particle Systems Characterization, 2013, 30, 764-769.	2.3	69
20	Broadband High-Performance Infrared Antireflection Nanowires Facilely Grown on Ultrafast Laser Structured Cu Surface. Nano Letters, 2015, 15, 5988-5994.	9.1	68
21	Synthesis and Characterization of High-Entropy Alloy FeCoNiCuCr by Laser Cladding. Advances in Materials Science and Engineering, 2011, 2011, 1-7.	1.8	57
22	Large-Scale Tunable 3D Self-Supporting WO₃ Micro-Nano Architectures as Direct Photoanodes for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 17856-17864.	8.0	57
23	An integrative bioinspired venation network with ultra-contrasting wettability for large-scale strongly self-driven and efficient water collection. Nanoscale, 2019, 11, 8940-8949.	5.6	55
24	A current collector covering nanostructured villous oxygen-deficient NiO fabricated by rapid laser-scan for Li-O2 batteries. Nano Energy, 2018, 51, 83-90.	16.0	54
25	Anisotropic Sliding of Water Droplets on the Superhydrophobic Surfaces with Anisotropic Grooveâ€Like Micro/Nano Structures. Advanced Materials Interfaces, 2016, 3, 1600641.	3.7	52
26	Rapid fabrication of surface micro/nano structures with enhanced broadband absorption on Cu by picosecond laser. Optics Express, 2013, 21, 11628.	3.4	49
27	Ultrafast Laser Enabling Hierarchical Structures for Versatile Superhydrophobicity with Enhanced Cassieâ€“Baxter Stability and Durability. Langmuir, 2019, 35, 16693-16711.	3.5	48
28	Flexible graphene woven fabrics for touch sensing. Applied Physics Letters, 2013, 102, .	3.3	45
29	3D re-entrant nanograss on microcones for durable superamphiphobic surfaces via laser-chemical hybrid method. Applied Surface Science, 2018, 456, 726-736.	6.1	45
30	Hybrid Heterojunction and Solidâ€State Photoelectrochemical Solar Cells. Advanced Energy Materials, 2014, 4, 1400224.	19.5	43
31	Comprehensively durable superhydrophobic metallic hierarchical surfaces via tunable micro-cone design to protect functional nanostructures. RSC Advances, 2018, 8, 6733-6744.	3.6	43
32	Femtosecond laser micro-nano structured Ag SERS substrates with unique sensitivity, uniformity and stability for food safety evaluation. Optics and Laser Technology, 2021, 139, 106969.	4.6	40
33	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.	10.4	39
34	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. Journal of Materials Chemistry A, 2014, 2, 7734-7737.	10.3	39
35	Wettability transition modes of aluminum surfaces with various micro/nanostructures produced by a femtosecond laser. Journal of Laser Applications, 2019, 31, .	1.7	39
36	Microâ€“Nano-Nanowire Triple Structure-Held PDMS Superhydrophobic Surfaces for Robust Ultra-Long-Term Icephobic Performance. ACS Applied Materials & Interfaces, 2022, 14, 23973-23982.	8.0	39

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37	Realizing Synchronous Energy Harvesting and Ion Separation with Graphene Oxide Membranes. Scientific Reports, 2014, 4, 5528.	3.3	37
38	Cellulose-Templated Graphene Monoliths with Anisotropic Mechanical, Thermal, and Electrical Properties. ACS Applied Materials & Interfaces, 2015, 7, 19145-19152.	8.0	37
39	Electro- and Magneto-Modulated Ion Transport through Graphene Oxide Membranes. Scientific Reports, 2014, 4, 6798.	3.3	37
40	Nanosecond Laser Cleaning Method to Reduce the Surface Inert Layer and Activate the Garnet Electrolyte for a Solid-State Li Metal Battery. ACS Applied Materials & Interfaces, 2021, 13, 37082-37090.	8.0	35
41	SiOx Nanodandelion by Laser Ablation for Anode of Lithiumâ€ion Battery. Small, 2015, 11, 6009-6012.	10.0	33
42	Thermal stability of microâ€“nano structures and superhydrophobicity of polytetrafluoroethylene films formed by hot embossing via a picosecond laser ablated template. Applied Surface Science, 2015, 331, 437-443.	6.1	33
43	Angle-independent colorization of copper surfaces by simultaneous generation of picosecond-laser-induced nanostructures and redeposited nanoparticles. Journal of Applied Physics, 2014, 115, .	2.5	31
44	In situ preparation of a binder-free nano-cotton-like CuOâ€“Cu integrated anode on a current collector by laser ablation oxidation for long cycle life Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 19781-19789.	10.3	30
45	Patternable fabrication of hyper-hierarchical metal surface structures for ultrabroadband antireflection and self-cleaning. Applied Surface Science, 2018, 457, 991-999.	6.1	30
46	Tuning the optical reflection property of metal surfaces via microâ€“nano particle structures fabricated by ultrafast laser. Applied Surface Science, 2015, 359, 7-13.	6.1	29
47	High-temperature imprinting and superhydrophobicity of micro/nano surface structures on metals using molds fabricated by ultrafast laser ablation. Journal of Materials Processing Technology, 2016, 236, 56-63.	6.3	27
48	Sequential color change on copper surfaces via micro/nano structure modification induced by a picosecond laser. Journal of Applied Physics, 2013, 114, .	2.5	26
49	Polydopamine-Modified Substrates for High-Sensitivity Laser Desorption Ionization Mass Spectrometry Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46140-46148.	8.0	25
50	Cauliflower-like micro-nano structured superhydrophobic surfaces for durable anti-icing and photothermal de-icing. Chemical Engineering Journal, 2022, 450, 137936.	12.7	24
51	CoS2-incorporated WS2 nanosheets for efficient hydrogen production. Electrochimica Acta, 2018, 287, 1-9.	5.2	23
52	Ultrafast laser-induced morphological transformations. MRS Bulletin, 2016, 41, 969-974.	3.5	21
53	Three-Dimensional and In Situ-Activated Spinel Oxide Nanoporous Clusters Derived from Stainless Steel for Efficient and Durable Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 13971-13981.	8.0	21
54	Laserâ€Assisted Doping and Architecture Engineering of Fe₃O₄ Nanoparticles for Highly Enhanced Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 3562-3570.	6.8	19

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55	Oil-triggered switchable wettability on patterned alternating air/lubricant-infused superamphiphobic surfaces. Journal of Materials Chemistry A, 2020, 8, 6647-6660.	10.3	19
56	Ultrathin aluminum wick with dual-scale microgrooves for enhanced capillary performance. International Journal of Heat and Mass Transfer, 2022, 190, 122762.	4.8	18
57	Directional anchoring patterned liquid-infused superamphiphobic surfaces for high-throughput droplet manipulation. Lab on A Chip, 2021, 21, 1373-1384.	6.0	17
58	Correlation between nanoparticle location and graphene nucleation in chemical vapour deposition of graphene. Journal of Materials Chemistry A, 2014, 2, 13123-13128.	10.3	16
59	Large scale and cost effective generation of 3D self-supporting oxide nanowire architectures by a top-down and bottom-up combined approach. RSC Advances, 2016, 6, 45923-45930.	3.6	15
60	Ultrafast laser hybrid fabrication of hierarchical 3D structures of nanorods on microcones for superhydrophobic surfaces with excellent Cassie state stability and mechanical durability. Journal of Laser Applications, 2020, 32, .	1.7	14
61	Antireflection Surfaces for Biological Analysis Using Laser Desorption Ionization Mass Spectrometry. Research, 2018, 2018, 5439729.	5.7	14
62	Amorphous Nitrogen Doped Carbon Films: A Novel Corrosion Resistant Coating Material. Advanced Engineering Materials, 2014, 16, 532-538.	3.5	13
63	Anisotropic Hemiwicking Behavior on Laser Structured Prismatic Microgrooves. Langmuir, 2022, 38, 6665-6675.	3.5	8
64	Pulsed laser-assisted synthesis of defect-rich NiFe-based oxides for efficient oxygen evolution reaction. Journal of Laser Applications, 2020, 32, 022032.	1.7	7
65	Fabrication of superwetting surfaces by ultrafast lasers and mechanical durability of superhydrophobic surfaces. Chinese Science Bulletin, 2019, 64, 1268-1289.	0.7	6
66	Wetting behavior of gallium-based room temperature liquid metal (LM) on nanosecond-laser-structured metal surfaces. Surfaces and Interfaces, 2022, 32, 102180.	3.0	6
67	Binderâ€free carbonâ€coated nanocotton transition metal oxides integrated anodes by laser surface ablation for lithiumâ€ion batteries. Surface and Interface Analysis, 2019, 51, 874-881.	1.8	5
68	Laser Controllable Growth of Graphene via Ni-Cu Alloy Composition Modulation. Lasers in Manufacturing and Materials Processing, 2015, 2, 219-230.	2.2	4
69	Ultrafast laser micro-nano structured superhydrophobic teflon surfaces for enhanced SERS detection via evaporation concentration. Advanced Optical Technologies, 2020, 9, 89-100.	1.7	4
70	Precipitating behavior of in situ synthesized multiple carbide particles in laser cladded MMC coating. , 2007, , .		3
71	Nano WC powder cold enhancing of light metal surface by laser shock peening process. , 2009, , .		3
72	Flexible control over optical reflection property of metallic surfaces via pulse laser. Journal of Laser Applications, 2019, 31, 022502.	1.7	3

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73	Formability of Medium Mn Steel Welded Joints. Metals, 2020, 10, 706.	2.3	3
74	Connection of macro-sized double-walled carbon nanotube strands by current-assisted laser irradiation. Journal of Laser Applications, 2008, 20, 122-126.	1.7	2
75	Mechanical performance of laser deposition repairing of in 738 on directionally solidified superalloy blade. , 2006, , .		1
76	Sequential colorization of steel surface by ps laser texturing. , 2013, , .		1
77	Microstructure and Mechanical Properties of Simulated Heat Affected Zone of Laser Welded Medium-Mn Steel. ISIJ International, 2020, 60, 2266-2275.	1.4	1
78	Laser Surface Structuring of Metals and Functionalization. , 2020, , 1-38.		1
79	Light emission characterization from multiwalled carbon nanotubes under CO2 laser irradiation. , 2006, , .		0
80	Laser deposition of Ti6Al4V-316L composition gradient structure: Challenge on intermetallics. , 2009, , .		0
81	High temperature performance of laser deposition GH105 layers on nickel base super alloy blade. , 2010, , .		0
82	Fabrication and characterization of nanoporous manganese structure by laser deposition hybrid selective electrochemical dealloying. , 2011, , .		0
83	Direct laser fabrication of large-area graphene: An engineering approach to nano-materials. , 2014, , .		0
84	Microstructures and mechanical properties of laminated structural Nb-Ti-Al composites fabricated by laser deposition. , 2006, , .		0
85	Laser Surface Structuring of Metals and Functionalization. , 2021, , 979-1016.		0
86	Laser Surface Micro-Nano Structuring via Hybrid Process. , 2021, , 937-978.		0
87	Laser Surface Micro-Nano Structuring via Hybrid Process. , 2020, , 1-42.		0