

Dongshi Zhang

List of Publications by Year in descending order

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49
papers

3,539
citations

159585

30
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

3239
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Synthesis and Processing of Colloids: Fundamentals and Applications. <i>Chemical Reviews</i> , 2017, 117, 3990-4103.	47.7	965
2	Bioinspired Wetting Surface via Laser Microfabrication. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6777-6792.	8.0	194
3	A simple way to achieve superhydrophobicity, controllable water adhesion, anisotropic sliding, and anisotropic wetting based on femtosecond-laser-induced line-patterned surfaces. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5499-5507.	10.3	172
4	Bioinspired underwater superoleophobic surface with ultralow oil-adhesion achieved by femtosecond laser microfabrication. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8790-8795.	10.3	160
5	Femtosecond Laser Weaving Superhydrophobic Patterned PDMS Surfaces with Tunable Adhesion. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24907-24912.	3.1	143
6	A Simple Way To Achieve Pattern-Dependent Tunable Adhesion in Superhydrophobic Surfaces by a Femtosecond Laser. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4905-4912.	8.0	141
7	Rapid Fabrication of Large-Area Concave Microlens Arrays on PDMS by a Femtosecond Laser. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9382-9385.	8.0	122
8	Controllable Adhesive Superhydrophobic Surfaces Based on PDMS Microwell Arrays. <i>Langmuir</i> , 2013, 29, 3274-3279.	3.5	117
9	Recent Advances in Surfactant-Free, Surface-Charged, and Defect-Rich Catalysts Developed by Laser Ablation and Processing in Liquids. <i>ChemNanoMat</i> , 2017, 3, 512-533.	2.8	103
10	Anisotropic Wetting on Microstrips Surface Fabricated by Femtosecond Laser. <i>Langmuir</i> , 2011, 27, 359-365.	3.5	101
11	Carbon-Encapsulated Metal/Metal Carbide/Metal Oxide Core-Shell Nanostructures Generated by Laser Ablation of Metals in Organic Solvents. <i>ACS Applied Nano Materials</i> , 2019, 2, 28-39.	5.0	86
12	Hierarchical microstructures with high spatial frequency laser induced periodic surface structures possessing different orientations created by femtosecond laser ablation of silicon in liquids. <i>Opto-Electronic Advances</i> , 2019, 2, 19000201-19000218.	13.3	82
13	Superhydrophobic PDMS surfaces with three-dimensional (3D) pattern-dependent controllable adhesion. <i>Applied Surface Science</i> , 2014, 288, 579-583.	6.1	76
14	Debris-free rear-side picosecond laser ablation of thin germanium wafers in water with ethanol. <i>Applied Surface Science</i> , 2016, 367, 222-230.	6.1	69
15	Hierarchical anti-reflective laser-induced periodic surface structures (LIPSSs) on amorphous Si films for sensing applications. <i>Nanoscale</i> , 2020, 12, 13431-13441.	5.6	67
16	Perspective of laser-prototyping nanoparticle-polymer composites. <i>Applied Surface Science</i> , 2017, 392, 991-1003.	6.1	66
17	Stable superhydrophobic surface with hierarchical mesh-porous structure fabricated by a femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 243-249.	2.3	60
18	Perspective on how laser-ablated particles grow in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	57

#	ARTICLE	IF	CITATIONS
19	Underwater persistent bubble-assisted femtosecond laser ablation for hierarchical micro/nanostructuring. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 015001.	12.7	54
20	Photoetching of spherical microlenses on glasses using a femtosecond laser. <i>Optics Communications</i> , 2009, 282, 4119-4123.	2.1	53
21	Laser ablation in liquids for nanomaterial synthesis: diversities of targets and liquids. <i>JPhys Photonics</i> , 2021, 3, 042002.	4.6	50
22	Irregular LIPSS produced on metals by single linearly polarized femtosecond laser. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 015102.	12.7	50
23	Mutual wetting transition between isotropic and anisotropic on directional structures fabricated by femtosecond laser. <i>Soft Matter</i> , 2011, 7, 8337.	2.7	49
24	Bioinspired superhydrophobic surfaces with directional Adhesion. <i>RSC Advances</i> , 2014, 4, 8138.	3.6	44
25	Carbonized Hybrid Micro/Nanostructured Metasurfaces Produced by Femtosecond Laser Ablation in Organic Solvents for Biomimetic Antireflective Surfaces. <i>ACS Applied Nano Materials</i> , 2020, 3, 1855-1871.	5.0	43
26	Wetting characteristics on hierarchical structures patterned by a femtosecond laser. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075029.	2.6	42
27	Layered Seed-Growth of AgGe Football-like Microspheres via Precursor-Free Picosecond Laser Synthesis in Water. <i>Scientific Reports</i> , 2015, 5, 13661.	3.3	41
28	Germanium Sub-Microspheres Synthesized by Picosecond Pulsed Laser Melting in Liquids: Educt Size Effects. <i>Scientific Reports</i> , 2017, 7, 40355.	3.3	39
29	Formation Mechanism of Laser-Synthesized Iron-Manganese Alloy Nanoparticles, Manganese Oxide Nanosheets and Nanofibers. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600225.	2.3	36
30	Magnetic Fe@FeOx, Fe@C and Fe_3O_4 Single-Crystal Nanoblends Synthesized by Femtosecond Laser Ablation of Fe in Acetone. <i>Nanomaterials</i> , 2018, 8, 631.	4.1	33
31	Femtosecond laser shockwave peening ablation in liquids for hierarchical micro/nanostructuring of brittle silicon and its biological application. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 045001.	12.7	31
32	Spontaneous Shape Alteration and Size Separation of Surfactant-Free Silver Particles Synthesized by Laser Ablation in Acetone during Long-Period Storage. <i>Nanomaterials</i> , 2018, 8, 529.	4.1	28
33	Femtosecond laser induced simultaneous functional nanomaterial synthesis, in situ deposition and hierarchical LIPSS nanostructuring for tunable antireflectance and iridescence applications. <i>Journal of Materials Science and Technology</i> , 2021, 89, 179-185.	10.7	27
34	A bioinspired planar superhydrophobic microboat. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 035006.	2.6	26
35	Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. <i>Opto-Electronic Advances</i> , 2022, 5, 210066-210066.	13.3	23
36	Multiscale Hierarchical Micro/Nanostructures Created by Femtosecond Laser Ablation in Liquids for Polarization-Dependent Broadband Antireflection. <i>Nanomaterials</i> , 2020, 10, 1573.	4.1	19

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37	Femtosecond Laser Generated Hierarchical Macropore/LIPSS Metasurfaces and Their Ultrabroadband Absorbance, Photothermal Properties, and Thermal-Induced Reflectance Oscillation. ACS Applied Electronic Materials, 2022, 4, 990-1001.	4.3	12
38	Laser-synthesized graphite carbon encased gold nanoparticles with specific reaction channels for efficient oxygen reduction. Journal of Colloid and Interface Science, 2020, 563, 74-80.	9.4	10
39	Two Birds with One Stone: Spontaneous Size Separation and Growth Inhibition of Femtosecond Laser-Generated Surfactant-Free Metallic Nanoparticles via ex Situ SU-8 Functionalization. ACS Omega, 2018, 3, 10953-10966.	3.5	8
40	Rapid Nanoparticle-Polymer Composites Prototyping by Laser Ablation in Liquids. , 2015, , 2131-2141.		8
41	Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	5.1	8
42	Femtosecond laser directly writing microholes in Bi(Nb _{0.998} V _{0.002})O ₄ ceramic and multi-photon induced large scale nanometer wires array. Journal of Materials Science: Materials in Electronics, 2011, 22, 1-5.	2.2	7
43	Hierarchical WO ₃ Ultrabroadband Absorbers and Photothermal Converters Grown from Femtosecond Laser-Induced Periodic Surface Structures. ACS Applied Materials & Interfaces, 2022, 14, 24046-24058.	8.0	5
44	Research on the technology of femtosecond laser micromachining based on image edge tracing. Science Bulletin, 2010, 55, 877-881.	1.7	3
45	Laser Ablation in Liquids for Nanomaterial Synthesis and Applications. , 2021, , 1481-1515.		3
46	Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. Opto-Electronic Advances, 2022, 5, 210066-210066.	13.3	3
47	Fabrication of Periodic Microholes in BiNbO ₄ by Femtosecond Laser Pulses for the Applications of 2D Photonic Crystal Waveguide. Ferroelectrics, 2009, 387, 130-136.	0.6	1
48	Laser Ablation in Liquids for Nanomaterial Synthesis and Applications. , 2021, , 1-35.		1
49	Multiscale Hierarchical Micro/Nanostructures Created by Femtosecond Laser Ablation in Liquids for Polarization-Dependent Broadband Antireflection. Nanomaterials, 2020, 10, 1573.	4.1	1