Hao Bian

List of Publications by Year
in descending order

48 papers	1,658 citations	331670 21 h-index	289244 40 g-index
53 all docs	53 docs citations	53 times ranked	1428 citing authors

#	Article	IF	Citations
1	Bioinspired Design of Underwater Superaerophobic and Superaerophilic Surfaces by Femtosecond Laser Ablation for Anti- or Capturing Bubbles. ACS Applied Materials & Interfaces, 2017, 9, 39863-39871.	8.0	162
2	Maskless fabrication of concave microlens arrays on silica glasses by a femtosecond-laser-enhanced local wet etching method. Optics Express, 2010, 18, 20334.	3.4	138
3	Rapid Fabrication of Large-Area Concave Microlens Arrays on PDMS by a Femtosecond Laser. ACS Applied Materials & Interfaces, 2013, 5, 9382-9385.	8.0	122
4	Oilâ€Water Separation: A Gift from the Desert. Advanced Materials Interfaces, 2016, 3, 1500650.	3.7	121
5	Dragonflyâ€Eyeâ€Inspired Artificial Compound Eyes with Sophisticated Imaging. Advanced Functional Materials, 2016, 26, 1995-2001.	14.9	102
6	Bioinspired transparent underwater superoleophobic and anti-oil surfaces. Journal of Materials Chemistry A, 2015, 3, 9379-9384.	10.3	99
7	Fabrication of large-area concave microlens array on silicon by femtosecond laser micromachining. Optics Letters, 2015, 40, 1928.	3.3	87
8	Direct fabrication of compound-eye microlens array on curved surfaces by a facile femtosecond laser enhanced wet etching process. Applied Physics Letters, 2016, 109, .	3.3	85
9	Green, Biodegradable, Underwater Superoleophobic Wood Sheet for Efficient Oil/Water Separation. ACS Omega, 2018, 3, 1395-1402.	3.5	61
10	Stable superhydrophobic surface with hierarchical mesh-porous structure fabricated by a femtosecond laser. Applied Physics A: Materials Science and Processing, 2013, 111, 243-249.	2.3	60
11	Reversible Underwater Lossless Oil Droplet Transportation. Advanced Materials Interfaces, 2015, 2, 1400388.	3.7	60
12	Rapid fabrication of a large-area close-packed quasi-periodic microlens array on BK7 glass. Optics Letters, 2014, 39, 606.	3.3	45
13	Bioinspired superhydrophobic surfaces with directional Adhesion. RSC Advances, 2014, 4, 8138.	3.6	44
14	IR Artificial Compound Eye. Advanced Optical Materials, 2020, 8, 1901767.	7.3	30
15	Integration of Great Water Repellence and Imaging Performance on a Superhydrophobic PDMS Microlens Array by Femtosecond Laser Microfabrication. Advanced Engineering Materials, 2019, 21, 1800994.	3.5	28
16	Fabrication of high integrated microlens arrays on a glass substrate for 3D micro-optical systems. Applied Surface Science, 2018, 457, 1202-1207.	6.1	27
17	Simple fabrication of closed-packed IR microlens arrays on silicon by femtosecond laser wet etching. Applied Physics A: Materials Science and Processing, 2015, 121, 157-162.	2.3	25
18	Durability of the tunable adhesive superhydrophobic PTFE surfaces for harsh environment applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	25

#	Article	IF	Citations
19	Controllable underwater anisotropic oil-wetting. Applied Physics Letters, 2014, 105, .	3.3	21
20	High-Performance Laser Beam Homogenizer Based on Double-Sided Concave Microlens. IEEE Photonics Technology Letters, 2014, 26, 2086-2089.	2.5	21
21	Femtosecond laser controlling underwater oil-adhesion of glass surface. Applied Physics A: Materials Science and Processing, 2015, 119, 837-844.	2.3	21
22	Lens-on-lens microstructures. Optics Letters, 2015, 40, 5359.	3.3	20
23	Facile fabrication of true three-dimensional microcoils inside fused silica by a femtosecond laser. Journal of Micromechanics and Microengineering, 2012, 22, 105017.	2.6	19
24	A high-efficiency three-dimensional helical micromixer in fused silica. Microsystem Technologies, 2013, 19, 1033-1040.	2.0	18
25	Low-cost high integration IR polymer microlens array. Optics Letters, 2019, 44, 1600.	3.3	18
26	Simple and Low-Cost Oil/Water Separation Based on the Underwater Superoleophobicity of the Existing Materials in Our Life or Nature. Frontiers in Chemistry, 2020, 8, 507.	3.6	17
27	A Simple Way to Fabricate Close-Packed High Numerical Aperture Microlens Arrays. IEEE Photonics Technology Letters, 2013, 25, 1336-1339.	2.5	14
28	Tunable potential well for plasmonic trapping of metallic particles by bowtie nano-apertures. Scientific Reports, 2016, 6, 32675.	3.3	14
29	Fabrication of Chalcogenide Glass Based Hexagonal Gapless Microlens Arrays via Combining Femtosecond Laser Assist Chemical Etching and Precision Glass Molding Processes. Materials, 2020, 13, 3490.	2.9	14
30	Bioinspired Artificial Compound Eyes: Characteristic, Fabrication, and Application. Advanced Materials Technologies, 2021, 6, 2100091.	5.8	14
31	Bioinspired Antiâ€Fogging and Antiâ€Fouling Artificial Compound Eyes. Advanced Optical Materials, 2022, 10, .	7.3	13
32	Bioinspired Underwater Superoleophobic Microlens Array With Remarkable Oil-Repellent and Self-Cleaning Ability. Frontiers in Chemistry, 2020, 8, 687.	3.6	11
33	Fabrication of quasi-periodic micro-voids in fused silica byÂsingleÂfemtosecond laser pulse. Applied Physics A: Materials Science and Processing, 2011, 102, 39-44.	2.3	10
34	Scalable shape-controlled fabrication of curved microstructures using a femtosecond laser wet-etching process. Materials Science and Engineering C, 2013, 33, 2795-2799.	7.3	10
35	Mini-Review on Bioinspired Superwetting Microlens Array and Compound Eye. Frontiers in Chemistry, 2020, 8, 575786.	3.6	10
36	Fabrication of ZnSe Microlens Array for a Wide Infrared Spectral Region. IEEE Photonics Technology Letters, 2020, 32, 1327-1330.	2.5	10

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37	A facile preparation route for netlike microstructures on a stainless steel using an ethanol-mediated femtosecond laser irradiation. Materials Science and Engineering C, 2013, 33, 663-667.	7.3	8
38	Ultrafast dynamics of thermionic emission on Au film under femtosecond laser excitation. Applied Physics A: Materials Science and Processing, 2013, 112, 479-483.	2.3	7
39	Artificial compound eye-tipped optical fiber for wide field illumination. Optics Letters, 2019, 44, 5961.	3.3	7
40	Fabrication of a Chalcogenide Glass Microlens Array for Infrared Laser Beam Homogenization. Materials, 2021, 14, 5952.	2.9	7
41	Rapid Fabrication of Large-Area Concave Microlens Array on ZnSe. Micromachines, 2021, 12, 458.	2.9	6
42	Miniaturized 3-D Solenoid-Type Micro-Heaters in Coordination With 3-D Microfluidics. Journal of Microelectromechanical Systems, 2017, 26, 588-592.	2.5	6
43	Localized surface plasmon resonances in core-embedded heterogeneous nano-bowtie antenna. Applied Physics B: Lasers and Optics, 2015, 120, 47-51.	2.2	5
44	Fabrication of Three-Dimensional Microvalves of Internal Nested Structures Inside Fused Silica. Micromachines, 2021, 12, 43.	2.9	5
45	Fano Resonance-Assisted Plasmonic Trapping of Nanoparticles. Plasmonics, 2017, 12, 627-630.	3.4	3
46	Fabrication and analytical evaluation of threeâ€dimensional microsolenoids achieved in fused silica by femtosecondâ€laserâ€based microsolidifying process. Micro and Nano Letters, 2013, 8, 623-628.	1.3	1
47	Fabrication of three-dimensional metallic microcomponents in fused silica by a femtosecond laser & micromoulding (FLM) method. , 2013, , .		0
48	Manufacturing of functional polymer micro- and nano-structures by femtosecond laser pulse. , 2017, , .		0