Jiale Yong

List of Publications by Year
in descending order

92 papers	5,097 citations	101543 36 h-index	88630 70 g-index
100 all docs	100 docs citations	100 times ranked	3513 citing authors

#	Article	IF	Citations
1	Femtosecond laser direct weaving bioinspired superhydrophobic/hydrophilic micro-pattern for fog harvesting. Optics and Laser Technology, 2022, 146, 107593.	4.6	18
2	Emerging Separation Applications of Surface Superwettability. Nanomaterials, 2022, 12, 688.	4.1	12
3	Filtration and removal of liquid polymers from water (polymer/water separation) by use of the underwater superpolymphobic mesh produced with a femtosecond laser. Journal of Colloid and Interface Science, 2021, 582, 1203-1212.	9.4	15
4	Underwater superpolymphobicity: Concept, achievement, and applications. Nano Select, 2021, 2, 1011-1022.	3.7	3
5	Liquidâ€Infused Slippery Stainless Steel Surface Prepared by Alcoholâ€Assisted Femtosecond Laser Ablation. Advanced Materials Interfaces, 2021, 8, 2001334.	3.7	18
6	Superwettabilityâ€based separation: From oil/water separation to polymer/water separation and bubble/water separation. Nano Select, 2021, 2, 1580-1588.	3.7	10
7	Remote, selective, and in situ manipulation of liquid droplets on a femtosecond laser-structured superhydrophobic shape-memory polymer by near-infrared light. Science China Chemistry, 2021, 64, 861-872.	8.2	24
8	Editorial: Bioinspired Functional Surfaces with Superwettability: From Fabrication to Applications. Frontiers in Chemistry, 2021, 9, 658572.	3.6	0
9	Bioinspired Artificial Compound Eyes: Characteristic, Fabrication, and Application. Advanced Materials Technologies, 2021, 6, 2100091.	5.8	14
10	Water/gas separation based on the selective bubble-passage effect of underwater superaerophobic and superaerophilic meshes processed by a femtosecond laser. Nanoscale, 2021, 13, 10414-10424.	5.6	16
11	Superhydrophobicity-memory surfaces prepared by a femtosecond laser. Chemical Engineering Journal, 2020, 383, 123143.	12.7	92
12	A femtosecond Bessel laser for preparing a nontoxic slippery liquid-infused porous surface (SLIPS) for improving the hemocompatibility of NiTi alloys. Biomaterials Science, 2020, 8, 6505-6514.	5.4	20
13	Femtosecond Laser Microfabrication of Porous Superwetting Materials for Oil/Water Separation: A Mini-Review. Frontiers in Chemistry, 2020, 8, 585723.	3.6	8
14	Bubble Passage: Underwater Superaerophobicity/Superaerophilicity and Unidirectional Bubble Passage Based on the Femtosecond Laserâ€Structured Stainless Steel Mesh (Adv. Mater. Interfaces 14/2020). Advanced Materials Interfaces, 2020, 7, 2070077.	3.7	1
15	Liquid Metal-Based Reconfigurable and Repairable Electronics Designed by a Femtosecond Laser. ACS Applied Electronic Materials, 2020, 2, 2685-2691.	4.3	15
16	Femtosecond laser-patterned slippery surfaces on PET for liquid patterning and blood resistance. Optics and Laser Technology, 2020, 132, 106469.	4.6	8
17	Mini-Review on Bioinspired Superwetting Microlens Array and Compound Eye. Frontiers in Chemistry, 2020, 8, 575786.	3.6	10
18	Relationship and Interconversion Between Superhydrophilicity, Underwater Superoleophilicity, Underwater Superaerophilicity, Superhydrophobicity, Underwater Superoleophobicity, and Underwater Superaerophobicity: A Mini-Review. Frontiers in Chemistry, 2020, 8, 828.	3.6	5

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19	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
20	Magnetically Controllable Isotropic/Anisotropic Slippery Surface for Flexible Droplet Manipulation. Langmuir, 2020, 36, 15403-15409.	3.5	22
21	Underwater Superaerophobicity/Superaerophilicity and Unidirectional Bubble Passage Based on the Femtosecond Laserâ€Structured Stainless Steel Mesh. Advanced Materials Interfaces, 2020, 7, 1902128.	3.7	22
22	3D integrated coreless microtransformer processed by femtosecond laser micro/nano fabrication. Journal of Micromechanics and Microengineering, 2020, 30, 105002.	2.6	3
23	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
24	Tuning a surface super-repellent to liquid metal by a femtosecond laser. RSC Advances, 2020, 10, 3301-3306.	3.6	10
25	Designing â€œSupermetalphobicâ€•Surfaces that Greatly Repel Liquid Metal by Femtosecond Laser Processing: Does the Surface Chemistry or Microstructure Play a Crucial Role?. Advanced Materials Interfaces, 2020, 7, 1901931.	3.7	48
26	Femtosecond laser preparing patternable liquid-metal-repellent surface for flexible electronics. Journal of Colloid and Interface Science, 2020, 578, 146-154.	9.4	38
27	Femtosecond laser hybrid fabrication of a 3D microfluidic chip for PCR application. Optics Express, 2020, 28, 25716.	3.4	8
28	Femtosecond-Laser-Produced Underwater â€œSuperpolymphobicâ€•Nanorippled Surfaces: Repelling Liquid Polymers in Water for Applications of Controlling Polymer Shape and Adhesion. ACS Applied Nano Materials, 2019, 2, 7362-7371.	5.0	22
29	Microfluidic Channels Fabrication Based on Underwater Superpolymphobic Microgrooves Produced by Femtosecond Laser Direct Writing. ACS Applied Polymer Materials, 2019, 1, 2819-2825.	4.4	21
30	Substrate-Independent, Fast, and Reversible Switching between Underwater Superaerophobicity and Aerophilicity on the Femtosecond Laser-Induced Superhydrophobic Surfaces for Selectively Repelling or Capturing Bubbles in Water. ACS Applied Materials & Interfaces, 2019, 11, 8667-8675.	8.0	64
31	Underwater Superoleophobic Tracks: Underwater Anisotropic 3D Superoleophobic Tracks Applied for the Directional Movement of Oil Droplets and the Microdroplets Reaction (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /Overlock	3.7	2
32	Femtosecond Laser-Structured Underwater â€œSuperpolymphobicâ€•Surfaces. Langmuir, 2019, 35, 9318-9322.	3.5	21
33	Superamphiphobic Surfaces with Controllable Adhesion Fabricated by Femtosecond Laser Bessel Beam on PTFE. Advanced Materials Interfaces, 2019, 6, 1900550.	3.7	38
34	Trapped Airâ€Induced Reversible Transition between Underwater Superaerophilicity and Superaerophobicity on the Femtosecond Laserâ€Ablated Superhydrophobic PTFE Surfaces. Advanced Materials Interfaces, 2019, 6, 1900262.	3.7	16
35	A review of femtosecond laser-structured superhydrophobic or underwater superoleophobic porous surfaces/materials for efficient oil/water separation. RSC Advances, 2019, 9, 12470-12495.	3.6	89
36	A femtosecond laser-induced superhygrophobic surface: beyond superhydrophobicity and repelling various complex liquids. RSC Advances, 2019, 9, 6650-6657.	3.6	18

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37	Underwater Anisotropic 3D Superoleophobic Tracks Applied for the Directional Movement of Oil Droplets and the Microdroplets Reaction. Advanced Materials Interfaces, 2019, 6, 1900067.	3.7	15
38	Femtosecond Laser-Induced Underwater Superoleophobic Surfaces with Reversible pH-Responsive Wettability. Langmuir, 2019, 35, 3295-3301.	3.5	22
39	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
40	How To Obtain Six Different Superwettabilities on a Same Microstructured Pattern: Relationship between Various Superwettabilities in Different Solid/Liquid/Gas Systems. Langmuir, 2019, 35, 921-927.	3.5	48
41	Reducing Adhesion for Dispensing Tiny Water/Oil Droplets and Gas Bubbles by Femtosecond Laserâ€Treated Needle Nozzles: Superhydrophobicity, Superoleophobicity, and Superaerophobicity. ChemNanoMat, 2019, 5, 241-249.	2.8	18
42	Underwater superoleophobic and anti-oil microlens array prepared by combing femtosecond laser wet etching and direct writing techniques. Optics Express, 2019, 27, 35903.	3.4	14
43	Reversible switch between underwater superaerophilicity and superaerophobicity on the superhydrophobic nanowire-haired mesh for controlling underwater bubble wettability. AIP Advances, 2018, 8, .	1.3	15
44	Green, Biodegradable, Underwater Superoleophobic Wood Sheet for Efficient Oil/Water Separation. ACS Omega, 2018, 3, 1395-1402.	3.5	61
45	Femtosecond Laser Direct Writing of Porous Network Microstructures for Fabricating Superâ€Slippery Surfaces with Excellent Liquid Repellence and Antiâ€Cell Proliferation. Advanced Materials Interfaces, 2018, 5, 1701479.	3.7	86
46	Femtosecond laser induced underwater superaerophilic and superaerophobic PDMS sheets with through microholes for selective passage of air bubbles and further collection of underwater gas. Nanoscale, 2018, 10, 3688-3696.	5.6	87
47	Bioinspired Fabrication of Bi/Tridirectionally Anisotropic Sliding Superhydrophobic PDMS Surfaces by Femtosecond Laser. Advanced Materials Interfaces, 2018, 5, 1701245.	3.7	48
48	Hall of Fame Article: A Review of Femtosecondâ€Laserâ€Induced Underwater Superoleophobic Surfaces (Adv. Mater. Interfaces 7/2018). Advanced Materials Interfaces, 2018, 5, 1870033.	3.7	3
49	A Review of Femtosecondâ€Laserâ€Induced Underwater Superoleophobic Surfaces. Advanced Materials Interfaces, 2018, 5, 1701370.	3.7	95
50	Oil/water separation based on natural materials with super-wettability: recent advances. Physical Chemistry Chemical Physics, 2018, 20, 25140-25163.	2.8	119
51	Underwater Superaerophobic and Superaerophilic Nanoneedlesâ€Structured Meshes for Water/Bubbles Separation: Removing or Collecting Gas Bubbles in Water. Global Challenges, 2018, 2, 1700133.	3.6	31
52	Fano Resonance-Assisted Plasmonic Trapping of Nanoparticles. Plasmonics, 2017, 12, 627-630.	3.4	3
53	Superoleophobic surfaces. Chemical Society Reviews, 2017, 46, 4168-4217.	38.1	613
54	Underwater Transparent Miniature â€œMechanical Handâ€• Based on Femtosecond Laser-Induced Controllable Oil-Adhesive Patterned Glass for Oil Droplet Manipulation. Langmuir, 2017, 33, 3659-3665.	3.5	23

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55	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
56	A widely applicable method to fabricate underwater superoleophobic surfaces with low oil-adhesion on different metals by a femtosecond laser. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	13
57	<i>Nepenthes</i> Inspired Design of Selfâ€Repairing Omniphobic Slippery Liquid Infused Porous Surface (SLIPS) by Femtosecond Laser Direct Writing. Advanced Materials Interfaces, 2017, 4, 1700552.	3.7	120
58	Remarkably simple achievement of superhydrophobicity, superhydrophilicity, underwater superoleophobicity, underwater superoleophilicity, underwater superaerophobicity, and underwater superaerophilicity on femtosecond laser ablated PDMS surfaces. Journal of Materials Chemistry A, 2017, 5, 25249-25257.	10.3	147
59	Manufacturing of functional polymer micro- and nano-structures by femtosecond laser pulse. , 2017, , .		0
60	Dragonflyâ€Eyeâ€Inspired Artificial Compound Eyes with Sophisticated Imaging. Advanced Functional Materials, 2016, 26, 1995-2001.	14.9	102
61	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
62	Oilâ€Water Separation: A Gift from the Desert. Advanced Materials Interfaces, 2016, 3, 1500650.	3.7	121
63	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
64	Femtosecond laser ablated durable superhydrophobic PTFE films with micro-through-holes for oil/water separation: Separating oil from water and corrosive solutions. Applied Surface Science, 2016, 389, 1148-1155.	6.1	160
65	A miniaturized Rogowski current transducer with wide bandwidth and fast response. Journal of Micromechanics and Microengineering, 2016, 26, 115015.	2.6	8
66	Tunable potential well for plasmonic trapping of metallic particles by bowtie nano-apertures. Scientific Reports, 2016, 6, 32675.	3.3	14
67	Dynamic near-field nanofocusing by V-shaped metal groove via a femtosecond laser excitation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	0
68	Using an â€œunderwater superoleophobic patternâ€• to make a liquid lens array. RSC Advances, 2015, 5, 40907-40911.	3.6	18
69	Lens-on-lens microstructures. Optics Letters, 2015, 40, 5359.	3.3	20
70	Femtosecond laser controlling underwater oil-adhesion of glass surface. Applied Physics A: Materials Science and Processing, 2015, 119, 837-844.	2.3	21
71	Femtosecond laser induced hierarchical ZnO superhydrophobic surfaces with switchable wettability. Chemical Communications, 2015, 51, 9813-9816.	4.1	78
72	Photoinduced switchable underwater superoleophobicityâ€“superoleophilicity on laser modified titanium surfaces. Journal of Materials Chemistry A, 2015, 3, 10703-10709.	10.3	122

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73	Bioinspired transparent underwater superoleophobic and anti-oil surfaces. Journal of Materials Chemistry A, 2015, 3, 9379-9384.	10.3	99
74	Localized surface plasmon resonances in core-embedded heterogeneous nano-bowtie antenna. Applied Physics B: Lasers and Optics, 2015, 120, 47-51.	2.2	5
75	Femtosecond laser controlled wettability of solid surfaces. Soft Matter, 2015, 11, 8897-8906.	2.7	125
76	Direct Fabrication of Microlens Arrays on PMMA With Laser-Induced Structural Modification. IEEE Photonics Technology Letters, 2015, 27, 2253-2256.	2.5	18
77	High-level integration of three-dimensional microcoils array in fused silica. Optics Letters, 2015, 40, 4050.	3.3	13
78	Fabrication of large-area concave microlens array on silicon by femtosecond laser micromachining. Optics Letters, 2015, 40, 1928.	3.3	87
79	Reversible Underwater Lossless Oil Droplet Transportation. Advanced Materials Interfaces, 2015, 2, 1400388.	3.7	60
80	Controllable underwater anisotropic oil-wetting. Applied Physics Letters, 2014, 105, .	3.3	21
81	High-Performance Laser Beam Homogenizer Based on Double-Sided Concave Microlens. IEEE Photonics Technology Letters, 2014, 26, 2086-2089.	2.5	21
82	Superhydrophobic PDMS surfaces with three-dimensional (3D) pattern-dependent controllable adhesion. Applied Surface Science, 2014, 288, 579-583.	6.1	76
83	Bioinspired underwater superoleophobic surface with ultralow oil-adhesion achieved by femtosecond laser microfabrication. Journal of Materials Chemistry A, 2014, 2, 8790-8795.	10.3	160
84	Bioinspired superhydrophobic surfaces with directional Adhesion. RSC Advances, 2014, 4, 8138.	3.6	44
85	A simple way to achieve superhydrophobicity, controllable water adhesion, anisotropic sliding, and anisotropic wetting based on femtosecond-laser-induced line-patterned surfaces. Journal of Materials Chemistry A, 2014, 2, 5499-5507.	10.3	172
86	Bioinspired Wetting Surface via Laser Microfabrication. ACS Applied Materials & Interfaces, 2013, 5, 6777-6792.	8.0	194
87	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
88	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
89	Femtosecond Laser Weaving Superhydrophobic Patterned PDMS Surfaces with Tunable Adhesion. Journal of Physical Chemistry C, 2013, 117, 24907-24912.	3.1	143
90	Controllable Adhesive Superhydrophobic Surfaces Based on PDMS Microwell Arrays. Langmuir, 2013, 29, 3274-3279.	3.5	117

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91	A Simple Way To Achieve Pattern-Dependent Tunable Adhesion in Superhydrophobic Surfaces by a Femtosecond Laser. ACS Applied Materials & Interfaces, 2012, 4, 4905-4912.	8.0	141
92	Anisotropic Wetting on Microstrips Surface Fabricated by Femtosecond Laser. Langmuir, 2011, 27, 359-365.	3.5	101