Xian-Bin Li

List of Publications by Year
in descending order

355	19,442	10979	16164
papers	citations	71 h-index	124 g-index

362	362	362	19484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finer features for functional microdevices. Nature, 2001, 412, 697-698.	13.7	2,656
2	Direct imprinting of microcircuits on graphene oxides film by femtosecond laser reduction. Nano Today, 2010, 5, 15-20.	6.2	453
3	Designable 3D nanofabrication by femtosecond laser direct writing. Nano Today, 2010, 5, 435-448.	6.2	452
4	Recent developments in superhydrophobic surfaces with unique structural and functional properties. Soft Matter, 2012, 8, 11217.	1.2	342
5	Two-beam-laser interference mediated reduction, patterning and nanostructuring of graphene oxide for the production of a flexible humidity sensing device. Carbon, 2012, 50, 1667-1673.	5.4	290
6	Curvatureâ€Driven Reversible In Situ Switching Between Pinned and Rollâ€Down Superhydrophobic States for Water Droplet Transportation. Advanced Materials, 2011, 23, 545-549.	11.1	268
7	Two-Photon Photopolymerization and 3D Lithographic Microfabrication. Advances in Polymer Science, 2006, , 169-273.	0.4	261
8	Threeâ€Level Biomimetic Riceâ€Leaf Surfaces with Controllable Anisotropic Sliding. Advanced Functional Materials, 2011, 21, 2927-2932.	7.8	251
9	Photoreduction of Graphene Oxides: Methods, Properties, and Applications. Advanced Optical Materials, 2014, 2, 10-28.	3.6	235
10	Monolayer II-VI semiconductors: A first-principles prediction. Physical Review B, 2015, 92, .	1.1	226
11	Ferrofluids for Fabrication of Remotely Controllable Microâ€Nanomachines by Twoâ€Photon Polymerization. Advanced Materials, 2010, 22, 3204-3207.	11.1	222
12	Bioinspired Graphene Actuators Prepared by Unilateral UV Irradiation of Graphene Oxide Papers. Advanced Functional Materials, 2015, 25, 4548-4557.	7.8	219
13	Moistureâ€Responsive Graphene Paper Prepared by Selfâ€Controlled Photoreduction. Advanced Materials, 2015, 27, 332-338.	11.1	214
14	Rapid sub-diffraction-limit laser micro/nanoprocessing in a threshold material system. Applied Physics Letters, 2002, 80, 312-314.	1.5	206
15	Multifunctional superparamagnetic iron oxide nanoparticles: design, synthesis and biomedical photonic applications. Nanoscale, 2013, 5, 7664.	2.8	196
16	One order of magnitude faster phase change at reduced power in Ti-Sb-Te. Nature Communications, 2014, 5, 4086.	5.8	195
17	Lightâ€Mediated Manufacture and Manipulation of Actuators. Advanced Materials, 2016, 28, 8328-8343.	11.1	186
18	Efficient and mechanically robust stretchable organic light-emitting devices by a laser-programmable buckling process. Nature Communications, 2016, 7, 11573.	5.8	182

#	Article	IF	Citations
19	Bioinspired Underwater Superoleophobic Membrane Based on a Graphene Oxide Coated Wire Mesh for Efficient Oil/Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 20930-20936.	4.0	177
20	Plasmonic nano-printing: large-area nanoscale energy deposition for efficient surface texturing. Light: Science and Applications, 2017, 6, e17112-e17112.	7.7	177
21	Three-dimensional focal spots related to two-photon excitation. Applied Physics Letters, 2002, 80, 3673-3675.	1.5	163
22	Functional organic single crystals for solid-state laser applications. Laser and Photonics Reviews, 2014, 8, 687-715.	4.4	160
23	Unraveling Bright Moleculeâ€Like State and Dark Intrinsic State in Greenâ€Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. Advanced Optical Materials, 2013, 1, 264-271.	3.6	144
24	Recent developments in superhydrophobic graphene and graphene-related materials: from preparation to potential applications. Nanoscale, 2015, 7, 7101-7114.	2.8	144
25	High numerical aperture microlens arrays of close packing. Applied Physics Letters, 2010, 97, .	1.5	143
26	Protein-based soft micro-optics fabricated by femtosecond laser direct writing. Light: Science and Applications, 2014, 3, e129-e129.	7.7	133
27	Ultrathin Metal Films as the Transparent Electrode in ITOâ€Free Organic Optoelectronic Devices. Advanced Optical Materials, 2019, 7, 1800778.	3.6	133
28	Slow cooling and efficient extraction of C-exciton hot carriers in MoS2 monolayer. Nature Communications, 2017, 8, 13906.	5.8	132
29	Perovskite Singleâ€Crystal Microwireâ€Array Photodetectors with Performance Stability beyond 1 Year. Advanced Materials, 2020, 32, e2001998.	11.1	130
30	Elastic force analysis of functional polymer submicron oscillators. Applied Physics Letters, 2001, 79, 3173-3175.	1.5	122
31	Phaseâ€Change Superlattice Materials toward Low Power Consumption and High Density Data Storage: Microscopic Picture, Working Principles, and Optimization. Advanced Functional Materials, 2018, 28, 1803380.	7.8	119
32	Bioinspired Fabrication of Superhydrophobic Graphene Films by Twoâ€Beam Laser Interference. Advanced Functional Materials, 2014, 24, 4595-4602.	7.8	118
33	Femtosecond laser programmed artificial musculoskeletal systems. Nature Communications, 2020, 11, 4536.	5.8	117
34	Two-photon laser precision microfabrication and its applications to micro-nano devices and systems. Journal of Lightwave Technology, 2003, 21, 624-633.	2.7	115
35	Magnetic-mesoporous Janus nanoparticles. Chemical Communications, 2011, 47, 1225-1227.	2.2	115
36	Understanding Phase-Change Behaviors of Carbon-Doped Ge₂Sb₂Te₅ for Phase-Change Memory Application. ACS Applied Materials & Interfaces, 2014, 6, 14207-14214.	4.0	115

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37	Wearable Superhydrophobic Elastomer Skin with Switchable Wettability. Advanced Functional Materials, 2018, 28, 1800625.	7.8	115
38	O-FIB: far-field-induced near-field breakdown for direct nanowriting in an atmospheric environment. Light: Science and Applications, 2020, 9, 41.	7.7	113
39	Bandgap Tailoring and Synchronous Microdevices Patterning of Graphene Oxides. Journal of Physical Chemistry C, 2012, 116, 3594-3599.	1.5	111
40	Aqueous multiphoton lithography with multifunctional silk-centred bio-resists. Nature Communications, 2015, 6, 8612.	5.8	111
41	Deep electron traps and origin of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-type conductivity in the earth-abundant solar-cell material Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>ZnSnS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	110
42	Direct Laser Writing of Superhydrophobic PDMS Elastomers for Controllable Manipulation via Marangoni Effect. Advanced Functional Materials, 2017, 27, 1702946.	7.8	109
43	Role of Electronic Excitation in the Amorphization of Ge-Sb-Te Alloys. Physical Review Letters, 2011, 107, 015501.	2.9	107
44	Optical Tamm states enhanced broad-band absorption of organic solar cells. Applied Physics Letters, 2012, 101, .	1.5	106
45	Two-photon photopolymerization and diagnosis of three-dimensional microstructures containing fluorescent dyes. Applied Physics Letters, 2001, 79, 1411-1413.	1.5	105
46	Recent Developments in Flexible Organic Lightâ€Emitting Devices. Advanced Materials Technologies, 2019, 4, 1800371.	3.0	104
47	Two-Dimensional Transition Metal Honeycomb Realized: Hf on Ir(111). Nano Letters, 2013, 13, 4671-4674.	4.5	102
48	Silverâ€Coated Rose Petal: Green, Facile, Lowâ€Cost and Sustainable Fabrication of a SERS Substrate with Unique Superhydrophobicity and High Efficiency. Advanced Optical Materials, 2013, 1, 56-60.	3.6	102
49	Sensitively Humidityâ€Driven Actuator Based on Photopolymerizable PEGâ€DA Films. Advanced Materials Interfaces, 2017, 4, 1601002.	1.9	101
50	Perovskite quantum dots for light-emitting devices. Nanoscale, 2019, 11, 19119-19139.	2.8	97
51	Solving Efficiencyâ€“Stability Tradeoff in Topâ€Emitting Organic Lightâ€Emitting Devices by Employing Periodically Corrugated Metallic Cathode. Advanced Materials, 2012, 24, 1187-1191.	11.1	96
52	SERSâ€Enabled Labâ€onâ€aâ€Chip Systems. Advanced Optical Materials, 2015, 3, 618-633.	3.6	94
53	Femtosecond laser ionization and fragmentation of molecules for environmental sensing. Laser and Photonics Reviews, 2015, 9, 275-293.	4.4	94
54	Ultrafast optical spectroscopy of surface-modified silicon quantum dots: unraveling the underlying mechanism of the ultrabright and color-tunable photoluminescence. Light: Science and Applications, 2015, 4, e245-e245.	7.7	93

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55	Dual-3D Femtosecond Laser Nanofabrication Enables Dynamic Actuation. ACS Nano, 2019, 13, 4041-4048.	7.3	90
56	Determination of Formation and Ionization Energies of Charged Defects in Two-Dimensional Materials. Physical Review Letters, 2015, 114, 196801.	2.9	89
57	Laser-structured Janus wire mesh for efficient oilâ€“water separation. Nanoscale, 2017, 9, 17933-17938.	2.8	89
58	High performance magnetically controllable microturbines. Lab on A Chip, 2010, 10, 2902.	3.1	87
59	S-Tapered Fiber Sensors for Highly Sensitive Measurement of Refractive Index and Axial Strain. Journal of Lightwave Technology, 2012, 30, 3126-3132.	2.7	86
60	Whisperingâ€gallery mode lasing from patterned molecular singleâ€crystalline microcavity array. Laser and Photonics Reviews, 2013, 7, 281-288.	4.4	85
61	The Role of Trap-assisted Recombination in Luminescent Properties of Organometal Halide CH3NH3PbBr3 Perovskite Films and Quantum Dots. Scientific Reports, 2016, 6, 27286.	1.6	85
62	Biomimetic graphene films and their properties. Nanoscale, 2012, 4, 4858.	2.8	84
63	Remote manipulation of micronanomachines containing magnetic nanoparticles. Optics Letters, 2009, 34, 581.	1.7	82
64	Flat Boron: A New Cousin of Graphene. Advanced Materials, 2019, 31, e1900392.	11.1	82
65	Distributed Feedback Lasers Based on Thiophene/Phenylene Coâ€Oligomer Single Crystals. Advanced Functional Materials, 2012, 22, 33-38.	7.8	81
66	Stretchable Organometalâ€Halideâ€Perovskite Quantumâ€Dot Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1807516.	11.1	79
67	Quantumâ€Confinedâ€Superfluidicsâ€Enabled Moisture Actuation Based on Unilaterally Structured Graphene Oxide Papers. Advanced Materials, 2019, 31, e1901585.	11.1	78
68	Mechanically robust stretchable organic optoelectronic devices built using a simple and universal stencil-pattern transferring technology. Light: Science and Applications, 2018, 7, 35.	7.7	77
69	Direct Observation of Quantumâ€Confined Grapheneâ€Like States and Novel Hybrid States in Graphene Oxide by Transient Spectroscopy. Advanced Materials, 2013, 25, 6539-6545.	11.1	74
70	Dryâ€etchingâ€assisted femtosecond laser machining. Laser and Photonics Reviews, 2017, 11, 1600115.	4.4	73
71	A facile approach for artificial biomimetic surfaces with both superhydrophobicity and iridescence. Soft Matter, 2010, 6, 263-267.	1.2	72
72	New Structural Picture of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Te</mml:mi><mml:mn>3</mml:mn></mml:math> Alloy. Physical Review Letters, 2011, 106, 025501.	7.9	72

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73	Experimental Observation of Toroidal Dipole Modes in Allâ€Dielectric Metasurfaces. Advanced Optical Materials, 2019, 7, 1801166.	3.6	71
74	First-principles calculations of a robust two-dimensional boron honeycomb sandwiching a triangular molybdenum layer. Physical Review B, 2014, 90, .	1.1	70
75	Highly Efficient Three Primary Color Organic Singleâ€Crystal Lightâ€Emitting Devices with Balanced Carrier Injection and Transport. Advanced Functional Materials, 2017, 27, 1604659.	7.8	69
76	Smart Compound Eyes Enable Tunable Imaging. Advanced Functional Materials, 2019, 29, 1903340.	7.8	66
77	Novel Zn-doped SnO₂hierarchical architectures: synthesis, characterization, and gas sensing properties. CrystEngComm, 2012, 14, 1701-1708.	1.3	65
78	Optical Nanofabrication of Concave Microlens Arrays. Laser and Photonics Reviews, 2019, 13, 1800272.	4.4	65
79	Laserâ€Mediated Programmable N Doping and Simultaneous Reduction of Graphene Oxides. Advanced Optical Materials, 2014, 2, 120-125.	3.6	64
80	Engineering two-dimensional electronics by semiconductor defects. Nano Today, 2017, 16, 30-45.	6.2	64
81	Miniature End-Capped Fiber Sensor for Refractive Index and Temperature Measurement. IEEE Photonics Technology Letters, 2014, 26, 7-10.	1.3	62
82	Solvent-tunable PDMS microlens fabricated by femtosecond laser direct writing. Journal of Materials Chemistry C, 2015, 3, 1751-1756.	2.7	62
83	Boron based two-dimensional crystals: theoretical design, realization proposal and applications. Nanoscale, 2015, 7, 18863-18871.	2.8	61
84	Two-Dimensional Stretchable Organic Light-Emitting Devices with High Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 31166-31171.	4.0	60
85	Rapid Engraving of Artificial Compound Eyes from Curved Sapphire Substrate. Advanced Functional Materials, 2019, 29, 1900037.	7.8	60
86	Photothermal Surface Plasmon Resonance and Interband Transitionâ€Enhanced Nanocomposite Hydrogel Actuators with Handâ€Like Dynamic Manipulation. Advanced Optical Materials, 2017, 5, 1700442.	3.6	59
87	100% Fill-Factor Aspheric Microlens Arrays (AMLA) With Sub-20-nm Precision. IEEE Photonics Technology Letters, 2009, 21, 1535-1537.	1.3	58
88	Non-Abelian braiding on photonic chips. Nature Photonics, 2022, 16, 390-395.	15.6	58
89	Flexible and efficient ITO-free semitransparent perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 660-665.	3.0	57
90	Onâ€chip laser processing for the development of multifunctional microfluidic chips. Laser and Photonics Reviews, 2017, 11, 1600116.	4.4	57

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91	Photoluminescence quenching of inorganic cesium lead halides perovskite quantum dots (CsPbX₃) by electron/hole acceptor. Physical Chemistry Chemical Physics, 2017, 19, 1920-1926.	1.3	57
92	Enhanced efficiency of organic light-emitting devices with metallic electrodes by integrating periodically corrugated structure. Applied Physics Letters, 2012, 100, .	1.5	54
93	Magnetic/upconversion luminescent mesoparticles of Fe3O4@LaF3:Yb3+, Er3+ for dual-modal bioimaging. Chemical Communications, 2012, 48, 11238.	2.2	54
94	Light manipulation in organic lightâ€emitting devices by integrating micro/nano patterns. Laser and Photonics Reviews, 2017, 11, 1600145.	4.4	54
95	Surface-plasmon enhanced absorption in organic solar cells by employing a periodically corrugated metallic electrode. Applied Physics Letters, 2012, 101, .	1.5	53
96	Clarification of the Molecular Doping Mechanism in Organic Singleâ€Crystalline Semiconductors and their Application in Colorâ€Tunable Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1801078.	11.1	53
97	Plasmon-enhanced organic and perovskite solar cells with metal nanoparticles. Nanophotonics, 2020, 9, 3111-3133.	2.9	52
98	Reflective Optical Fiber Sensors Based on Tilted Fiber Bragg Gratings Fabricated With Femtosecond Laser. Journal of Lightwave Technology, 2013, 31, 455-460.	2.7	50
99	A simple strategy to realize biomimetic surfaces with controlled anisotropic wetting. Applied Physics Letters, 2010, 96, .	1.5	49
100	Onâ€Chip Catalytic Microreactors for Modern Catalysis Research. ChemCatChem, 2013, 5, 2091-2099.	1.8	48
101	Modulation Doping: A Strategy for 2D Materials Electronics. Nano Letters, 2021, 21, 6298-6303.	4.5	48
102	Arbitrary Shape Designable Microscale Organic Light-Emitting Devices by Using Femtosecond Laser Reduced Graphene Oxide as a Patterned Electrode. ACS Photonics, 2014, 1, 690-695.	3.2	47
103	Bioinspired fewâ€layer graphene prepared by chemical vapor deposition on femtosecond laserâ€structured Cu foil. Laser and Photonics Reviews, 2016, 10, 441-450.	4.4	46
104	Electric field analyses on monolayer semiconductors: the example of InSe. Physical Chemistry Chemical Physics, 2018, 20, 6945-6950.	1.3	46
105	Crystalline Liquid and Rubber-Like Behavior in Cu Nanowires. Nano Letters, 2013, 13, 3812-3816.	4.5	45
106	Hybrid Tamm plasmon-polariton/microcavity modes for white top-emitting organic light-emitting devices. Optica, 2015, 2, 579.	4.8	45
107	Sunlightâ€Reduced Graphene Oxides as Sensitive Moisture Sensors for Smart Device Design. Advanced Materials Technologies, 2017, 2, 1700045.	3.0	45
108	Direct identification of Mott Hubbard band pattern beyond charge density wave superlattice in monolayer 1T-NbSe2. Nature Communications, 2021, 12, 1978.	5.8	45

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109	Grating amplitude effect on electroluminescence enhancement of corrugated organic light-emitting devices. Optics Letters, 2011, 36, 3915.	1.7	44
110	Femtosecond Laser Inscribed Sapphire Fiber Bragg Grating for High Temperature and Strain Sensing. IEEE Nanotechnology Magazine, 2019, 18, 208-211.	1.1	43
111	Highâ€Throughput Screening for Phaseâ€Change Memory Materials. Advanced Functional Materials, 2021, 31, 2009803.	7.8	43
112	Twoâ€dimensional In₂Se₃: A rising advanced material for ferroelectric data storage. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	43
113	Electron Extraction Dynamics in CdSe and CdSe/CdS/ZnS Quantum Dots Adsorbed with Methyl Viologen. Journal of Physical Chemistry C, 2014, 118, 17240-17246.	1.5	42
114	Origin of high thermal stability of amorphous Ge1Cu2Te3 alloy: A significant Cu-bonding reconfiguration modulated by Te lone-pair electrons for crystallization. Acta Materialia, 2015, 90, 88-93.	3.8	42
115	Vacancy Structures and Melting Behavior in Rock-Salt GeSbTe. Scientific Reports, 2016, 6, 25453.	1.6	42
116	Highâ€Colorâ€Rendering and Highâ€Efficiency White Organic Lightâ€Emitting Devices Based on Doubleâ€Doped Organic Single Crystals. Advanced Functional Materials, 2019, 29, 1807606.	7.8	42
117	Angleâ€multiplexed optical printing of biomimetic hierarchical 3D textures. Laser and Photonics Reviews, 2017, 11, 1600187.	4.4	41
118	Flexible perovskite solar cells with ultrathin Au anode and vapour-deposited perovskite film. Solar Energy Materials and Solar Cells, 2017, 169, 8-12.	3.0	41
119	Organic Singleâ€Crystalline Semiconductors for Lightâ€Emitting Applications: Recent Advances and Developments. Laser and Photonics Reviews, 2019, 13, 1900009.	4.4	41
120	Directional Droplet Transport on Functional Surfaces with Superwettabilities. Advanced Materials Interfaces, 2021, 8, 2100043.	1.9	41
121	Matching Photocurrents of Subâ€cells in Doubleâ€Junction Organic Solar Cells via Coupling Between Surface Plasmon Polaritons and Microcavity Modes. Advanced Optical Materials, 2013, 1, 809-813.	3.6	40
122	PDMS-Coated S-Tapered Fiber for Highly Sensitive Measurements of Transverse Load and Temperature. IEEE Sensors Journal, 2015, 15, 3429-3435.	2.4	40
123	Dynamics of Strong Coupling between Jâ€Aggregates and Surface Plasmon Polaritons in Subwavelength Hole Arrays. Advanced Functional Materials, 2016, 26, 6198-6205.	7.8	40
124	Biomimetic Graphene Actuators Enabled by Multiresponse Graphene Oxide Paper with Pretailored Reduction Gradient. Advanced Materials Technologies, 2018, 3, 1800258.	3.0	40
125	Graphene as a Transparent and Conductive Electrode for Organic Optoelectronic Devices. Advanced Electronic Materials, 2019, 5, 1900247.	2.6	40
126	Two-photon induced amplified spontaneous emission from needlelike triphenylamine-containing derivative crystals with low threshold. Applied Physics Letters, 2009, 94, 201113.	1.5	39

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127	Impurity doping in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Formation energies and defect levels from first-principles calculations. Physical Review B, 2010, 82, .	3.7	39
128	Magnetic colloidosomes fabricated by Fe3O4â€“SiO2 hetero-nanorods. Soft Matter, 2011, 7, 7375.	1.2	39
129	Compact Long-Period Fiber Gratings With Resonance at Second-Order Diffraction. IEEE Photonics Technology Letters, 2012, 24, 1393-1395.	1.3	39
130	High-performance magnetic antimicrobial Janus nanorods decorated with Ag nanoparticles. Journal of Materials Chemistry, 2012, 22, 23741.	6.7	39
131	Sapphire-Based Fresnel Zone Plate Fabricated by Femtosecond Laser Direct Writing and Wet Etching. IEEE Photonics Technology Letters, 2016, 28, 1290-1293.	1.3	39
132	Giant elasticity of photopolymer nanowires. Applied Physics Letters, 2007, 91, .	1.5	38
133	Superhydrophobic SERS Substrates Based on Silver-Coated Reduced Graphene Oxide Gratings Prepared by Two-Beam Laser Interference. ACS Applied Materials & Interfaces, 2015, 7, 27059-27065.	4.0	38
134	A novel two-dimensional MgB₆ crystal: metal-layer stabilized boron kagome lattice. Physical Chemistry Chemical Physics, 2015, 17, 1093-1098.	1.3	38
135	Femtosecond Laser Inscribed Small-Period Long-Period Fiber Gratings With Dual-Parameter Sensing. IEEE Sensors Journal, 2018, 18, 1100-1103.	2.4	38
136	Directional Forces by Momentumless Excitation and Order-to-Order Transition in Peierls-Distorted Solids: The Case of GeTe. Physical Review Letters, 2018, 120, 185701.	2.9	38
137	Liquid-Assisted Femtosecond Laser Precision-Machining of Silica. Nanomaterials, 2018, 8, 287.	1.9	38
138	A light-driven turbine-like micro-rotor and study on its light-to-mechanical power conversion efficiency. Applied Physics Letters, 2012, 101, .	1.5	37
139	Optical force on toroidal nanostructures: Toroidal dipole versus renormalized electric dipole. Physical Review A, 2015, 92, .	1.0	37
140	Protein-Based Three-Dimensional Whispering-Gallery-Mode Micro-Lasers with Stimulus-Responsiveness. Scientific Reports, 2015, 5, 12852.	1.6	37
141	Pneumatic smart surfaces with rapidly switchable dominant and latent superhydrophobicity. NPG Asia Materials, 2018, 10, e470-e470.	3.8	37
142	Mechanical stretch for tunable wetting from topological PDMS film. Soft Matter, 2013, 9, 4236.	1.2	36
143	Template-confined growth of Ruddlesdenâ€“Popper perovskite micro-wire arrays for stable polarized photodetectors. Nanoscale, 2019, 11, 18272-18281.	2.8	36
144	Laser-Structured Graphene/Reduced Graphene Oxide Films towards Bio-Inspired Superhydrophobic Surfaces. Bulletin of the Chemical Society of Japan, 2019, 92, 283-289.	2.0	36

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145	Linked Weyl surfaces and Weyl arcs in photonic metamaterials. Science, 2021, 373, 572-576.	6.0	36
146	Hydrogen in ZnO revisited: Bond center versus antibonding site. Physical Review B, 2008, 78, .	1.1	35
147	Self-organization of polymer nanoneedles into large-area ordered flowerlike arrays. Applied Physics Letters, 2009, 95, 091902.	1.5	35
148	Study of Electronâ"Phonon Coupling Dynamics in Au Nanorods by Transient Depolarization Measurements. Journal of Physical Chemistry C, 2010, 114, 2913-2917.	1.5	35
149	Surface Plasmon-Polariton Mediated Red Emission from Organic Light-Emitting Devices Based on Metallic Electrodes Integrated with Dual-Periodic Corrugation. Scientific Reports, 2014, 4, 7108.	1.6	35
150	Laser fabrication of graphene-based supercapacitors. Photonics Research, 2020, 8, 577.	3.4	35
151	Monitoring Thermal Effect in Femtosecond Laser Interaction With Glass by Fiber Bragg Grating. Journal of Lightwave Technology, 2011, 29, 2126-2130.	2.7	34
152	Dynamics of Strong Coupling between CdSe Quantum Dots and Surface Plasmon Polaritons in Subwavelength Hole Array. Journal of Physical Chemistry Letters, 2016, 7, 4648-4654.	2.1	34
153	Role of electronic excitation in phaseâ€change memory materials: A brief review. Physica Status Solidi (B): Basic Research, 2012, 249, 1861-1866.	0.7	33
154	Anti-reflection resonance in distributed Bragg reflectors-based ultrathin highly absorbing dielectric and its application in solar cells. Applied Physics Letters, 2013, 102, .	1.5	33
155	Unraveling Charge Separation and Transport Mechanisms in Aqueousâ€Processed Polymer/CdTe Nanocrystal Hybrid Solar Cells. Advanced Energy Materials, 2014, 4, 1301882.	10.2	33
156	Intrinsic Polarization and Tunable Color of Electroluminescence from Organic Single Crystal-based Light-Emitting Devices. Scientific Reports, 2015, 5, 12445.	1.6	33
157	Femtosecond Laser Direct Writing of Plasmonic Ag/Pd Alloy Nanostructures Enables Flexible Integration of Robust SERS Substrates. Advanced Materials Technologies, 2017, 2, 1600270.	3.0	33
158	Native defects and substitutional impurities in two-dimensional monolayer InSe. Nanoscale, 2017, 9, 11619-11624.	2.8	32
159	Nanostructures induced light harvesting enhancement in organic photovoltaics. Nanophotonics, 2017, 7, 371-391.	2.9	32
160	Gradient Assembly of Polymer Nanospheres and Graphene Oxide Sheets for Dual-Responsive Soft Actuators. ACS Applied Materials & Interfaces, 2019, 11, 37130-37138.	4.0	32
161	Time-dependent density-functional theory molecular-dynamics study on amorphization of Sc-Sb-Te alloy under optical excitation. Npj Computational Materials, 2020, 6, .	3.5	32
162	A Highly Sensitive Temperature Sensor Based on a Liquid-Sealed S-Tapered Fiber. IEEE Photonics Technology Letters, 2013, 25, 829-832.	1.3	31

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163	Fabrication and Characterization of Organic Single Crystalâ€Based Lightâ€Emitting Devices with Improved Contact Between the Metallic Electrodes and Crystal. Advanced Functional Materials, 2014, 24, 7085-7092.	7.8	31
164	Infrared Absorption of Femtosecond Laser Textured Silicon Under Vacuum. IEEE Photonics Technology Letters, 2015, 27, 1481-1484.	1.3	31
165	Photonic-Molecule Single-Mode Laser. IEEE Photonics Technology Letters, 2015, 27, 1157-1160.	1.3	31
166	Size-dependent one-photon- and two-photon-pumped amplified spontaneous emission from organometal halide CH₃NH₃PbBr₃ perovskite cubic microcrystals. Physical Chemistry Chemical Physics, 2017, 19, 2217-2224.	1.3	31
167	Metalâ€“Insulator Transition of Geâ€“Sbâ€“Te Superlattice: An Electron Counting Model Study. IEEE Nanotechnology Magazine, 2018, 17, 140-146.	1.1	31
168	Band-Gap-Controllable Photonic Crystals Consisting of Magnetic Nanocrystal Clusters in a Solidified Polymer Matrix. Journal of Physical Chemistry C, 2009, 113, 18542-18545.	1.5	30
169	Theoretical characterization of reduction dynamics for graphene oxide by alkaline-earth metals. Carbon, 2013, 52, 122-127.	5.4	30
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