

Lan Jiang

List of Publications by Year in descending order

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243
papers

10,619
citations

34016

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93
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all docs

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docs citations

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times ranked

11145
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Compression-tolerant Supercapacitor Based on Polypyrrole-mediated Graphene Foam Electrodes. <i>Advanced Materials</i> , 2013, 25, 591-595.	11.1	745
2	Facile Fabrication of Light, Flexible and Multifunctional Graphene Fibers. <i>Advanced Materials</i> , 2012, 24, 1856-1861.	11.1	524
3	Direct Power Generation from a Graphene Oxide Film under Moisture. <i>Advanced Materials</i> , 2015, 27, 4351-4357.	11.1	418
4	Graphene Fibers with Predetermined Deformation as Moisture-triggered Actuators and Robots. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10482-10486.	7.2	294
5	Electrons dynamics control by shaping femtosecond laser pulses in micro/nanofabrication: modeling, method, measurement and application. <i>Light: Science and Applications</i> , 2018, 7, 17134-17134.	7.7	292
6	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. <i>Energy and Environmental Science</i> , 2016, 9, 912-916.	15.6	289
7	A capacity recoverable zinc-ion micro-supercapacitor. <i>Energy and Environmental Science</i> , 2018, 11, 3367-3374.	15.6	263
8	Improved Two-Temperature Model and Its Application in Ultrashort Laser Heating of Metal Films. <i>Journal of Heat Transfer</i> , 2005, 127, 1167-1173.	1.2	246
9	All-in-one graphene fiber supercapacitor. <i>Nanoscale</i> , 2014, 6, 6448.	2.8	204
10	Preparation of Monolayer MoS ₂ Quantum Dots using Temporally Shaped Femtosecond Laser Ablation of Bulk MoS ₂ Targets in Water. <i>Scientific Reports</i> , 2017, 7, 11182.	1.6	167
11	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. <i>Light: Science and Applications</i> , 2012, 1, e6-e6.	7.7	158
12	Spontaneous Reduction and Assembly of Graphene oxide into Three-Dimensional Graphene Network on Arbitrary Conductive Substrates. <i>Scientific Reports</i> , 2013, 3, 2065.	1.6	157
13	One Single Graphene Oxide Film for Responsive Actuation. <i>ACS Nano</i> , 2016, 10, 9529-9535.	7.3	151
14	Self-powered wearable graphene fiber for information expression. <i>Nano Energy</i> , 2017, 32, 329-335.	8.2	148
15	Three-dimensional water evaporation on a macroporous vertically aligned graphene pillar array under one sun. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15303-15309.	5.2	146
16	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. <i>Energy and Environmental Science</i> , 2018, 11, 2839-2845.	15.6	144
17	Multimodal Nonlinear Optical Imaging of MoS ₂ and MoS ₂ -Based van der Waals Heterostructures. <i>ACS Nano</i> , 2016, 10, 3766-3775.	7.3	127
18	Laser-directed Assembly of Aligned Carbon Nanotubes in Three Dimensions for Multifunctional Device Fabrication. <i>Advanced Materials</i> , 2016, 28, 2002-2009.	11.1	119

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19	Rollable, Stretchable, and Reconfigurable Graphene Hydroelectric Generators. <i>Advanced Materials</i> , 2019, 31, e1805705.	11.1	117
20	Graphene Microtubings: Controlled Fabrication and Site-Specific Functionalization. <i>Nano Letters</i> , 2012, 12, 5879-5884.	4.5	111
21	Formation of graphene sheets through laser exfoliation of highly ordered pyrolytic graphite. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	109
22	Series of in-fiber graphene supercapacitors for flexible wearable devices. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2547-2551.	5.2	101
23	Femtosecond laser fabricated all-optical fiber sensors with ultrahigh refractive index sensitivity: modeling and experiment. <i>Optics Express</i> , 2011, 19, 17591.	1.7	98
24	Large-Scale Production of Flexible, High-Voltage Hydroelectric Films Based on Solid Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30927-30935.	4.0	98
25	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. <i>Nature Communications</i> , 2021, 12, 2647.	5.8	97
26	Flexible in-plane graphene oxide moisture-electric converter for touchless interactive panel. <i>Nano Energy</i> , 2018, 45, 37-43.	8.2	96
27	Functionalized Graphitic Carbon Nitride for Metal-free, Flexible and Rewritable Nonvolatile Memory Device via Direct Laser-Writing. <i>Scientific Reports</i> , 2014, 4, 5882.	1.6	94
28	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. <i>Nature Communications</i> , 2020, 11, 6185.	5.8	93
29	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. <i>Accounts of Chemical Research</i> , 2017, 50, 1663-1671.	7.6	92
30	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. <i>Nanoscale</i> , 2012, 4, 7563.	2.8	86
31	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. <i>Advanced Materials</i> , 2016, 28, 3305-3312.	11.1	79
32	Direct writing of graphene patterns on insulating substrates under ambient conditions. <i>Scientific Reports</i> , 2014, 4, 4892.	1.6	78
33	Integrated graphene systems by laser irradiation for advanced devices. <i>Nano Today</i> , 2017, 12, 14-30.	6.2	78
34	Repeatable nanostructures in dielectrics by femtosecond laser pulse trains. <i>Applied Physics Letters</i> , 2005, 87, 151104.	1.5	75
35	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors. <i>Advanced Materials</i> , 2022, 34, e2110013.	11.1	75
36	A powerful approach to functional graphene hybrids for high performance energy-related applications. <i>Energy and Environmental Science</i> , 2014, 7, 3699-3708.	15.6	74

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37	A plasma model combined with an improved two-temperature equation for ultrafast laser ablation of dielectrics. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	73
38	Mask-Free Patterning of High-Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. <i>Advanced Materials</i> , 2015, 27, 6238-6243.	11.1	73
39	High-throughput microchannel fabrication in fused silica by temporally shaped femtosecond laser Bessel-beam-assisted chemical etching. <i>Optics Letters</i> , 2018, 43, 98.	1.7	72
40	Modeling of ultrashort laser pulse-train processing of metal thin films. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3461-3470.	2.5	71
41	Femtosecond laser fabrication of long period fiber gratings and applications in refractive index sensing. <i>Optics and Laser Technology</i> , 2011, 43, 1420-1423.	2.2	71
42	Versatile Graphene Oxide Putty-Like Material. <i>Advanced Materials</i> , 2016, 28, 10287-10292.	11.1	68
43	Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array. <i>Small</i> , 2018, 14, e1801809.	5.2	68
44	Ultra-Abrupt Tapered Fiber Mach-Zehnder Interferometer Sensors. <i>Sensors</i> , 2011, 11, 5729-5739.	2.1	66
45	Continuous modulations of femtosecond laser-induced periodic surface structures and scanned line-widths on silicon by polarization changes. <i>Optics Express</i> , 2013, 21, 15505.	1.7	64
46	One-step fabrication of nanostructures by femtosecond laser for surface-enhanced Raman scattering. <i>Optics Express</i> , 2009, 17, 21581.	1.7	63
47	Low-adhesive superhydrophobic surface-enhanced Raman spectroscopy substrate fabricated by femtosecond laser ablation for ultratrace molecular detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 777-784.	2.9	63
48	Ultrafast dynamics observation during femtosecond laser-material interaction. <i>International Journal of Extreme Manufacturing</i> , 2019, 1, 032004.	6.3	63
49	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. <i>Light: Science and Applications</i> , 2020, 9, 80.	7.7	63
50	High-throughput rear-surface drilling of microchannels in glass based on electron dynamics control using femtosecond pulse trains. <i>Optics Letters</i> , 2012, 37, 2781.	1.7	56
51	Anisotropic Enhancement of Second-Harmonic Generation in Monolayer and Bilayer MoS ₂ by Integrating with TiO ₂ Nanowires. <i>Nano Letters</i> , 2019, 19, 4195-4204.	4.5	56
52	Metal (Ag, Pt)-MoS ₂ Hybrids Greenly Prepared Through Photochemical Reduction of Femtosecond Laser Pulses for SERS and HER. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7704-7714.	3.2	55
53	Optical Field Enhancement in Au Nanoparticle-Decorated Nanorod Arrays Prepared by Femtosecond Laser and Their Tunable Surface-Enhanced Raman Scattering Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1297-1305.	4.0	55
54	Laser-Assisted Multiscale Fabrication of Configuration-Editable Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2019, 13, 7463-7470.	7.3	54

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55	Controllable Synthesis of Nanosized Amorphous MoS ₂ Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. <i>Advanced Functional Materials</i> , 2019, 29, 1806229.	7.8	54
56	A High-Quality Mach-Zehnder Interferometer Fiber Sensor by Femtosecond Laser One-Step Processing. <i>Sensors</i> , 2011, 11, 54-61.	2.1	52
57	High-temperature sensor based on an abrupt-taper Michelson interferometer in single-mode fiber. <i>Applied Optics</i> , 2013, 52, 2038.	0.9	51
58	Antiresonant mechanism based self-temperature-calibrated fiber optic Fabry-Pérot gas pressure sensors. <i>Optics Express</i> , 2019, 27, 22181.	1.7	51
59	Shape-Controllable Gold Nanoparticle-MoS ₂ Hybrids Prepared by Tuning Edge-Active Sites and Surface Structures of MoS ₂ via Temporally Shaped Femtosecond Pulses. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7447-7455.	4.0	50
60	A Flexible Aqueous Zinc-Iodine Microbattery with Unprecedented Energy Density. <i>Advanced Materials</i> , 2022, 34, e2109450.	11.1	49
61	Investigation on the Thermo-Optic Coefficient of Silica Fiber Within a Wide Temperature Range. <i>Journal of Lightwave Technology</i> , 2018, 36, 5881-5886.	2.7	48
62	Cylindrically Focused Nonablative Femtosecond Laser Processing of Long-Range Uniform Periodic Surface Structures with Tunable Diffraction Efficiency. <i>Advanced Optical Materials</i> , 2019, 7, 1900706.	3.6	47
63	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. <i>Nanophotonics</i> , 2019, 8, 869-878.	2.9	47
64	Enhancing charge transfer with foreign molecules through femtosecond laser induced MoS ₂ defect sites for photoluminescence control and SERS enhancement. <i>Nanoscale</i> , 2019, 11, 485-494.	2.8	45
65	Energy Transport and Nanostructuring of Dielectrics by Femtosecond Laser Pulse Trains. <i>Journal of Heat Transfer</i> , 2006, 128, 926-933.	1.2	44
66	Surface micro/nanostructure evolution of Au-Ag alloy nanoplates: Synthesis, simulation, plasmonic photothermal and surface-enhanced Raman scattering applications. <i>Nano Research</i> , 2016, 9, 876-885.	5.8	43
67	Pressure and Temperature Sensor Based on Graphene Diaphragm and Fiber Bragg Gratings. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 431-434.	1.3	43
68	A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. <i>Nano Letters</i> , 2018, 18, 2021-2032.	4.5	42
69	Compact Assembly and Programmable Integration of Supercapacitors. <i>Advanced Materials</i> , 2020, 32, e1907005.	11.1	42
70	High aspect ratio, high-quality microholes in PMMA: a comparison between femtosecond laser drilling in air and in vacuum. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 61-68.	1.1	41
71	Emission enhancement of femtosecond laser-induced breakdown spectroscopy by combining nanoparticle and dual-pulse on crystal SiO ₂ . <i>Optics and Laser Technology</i> , 2017, 93, 194-200.	2.2	39
72	Subwavelength ripples adjustment based on electron dynamics control by using shaped ultrafast laser pulse trains. <i>Optics Express</i> , 2012, 20, 21505.	1.7	38

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73	High-performance 3D CuO/Cu flowers supercapacitor electrodes by femtosecond laser enhanced electrochemical anodization. <i>Electrochimica Acta</i> , 2019, 293, 273-282.	2.6	37
74	Miniaturized high-performance metallic 1T-Phase MoS ₂ micro-supercapacitors fabricated by temporally shaped femtosecond pulses. <i>Nano Energy</i> , 2020, 67, 104260.	8.2	37
75	High-performance flexible solid-state supercapacitors based on MnO ₂ -decorated nanocarbon electrodes. <i>RSC Advances</i> , 2013, 3, 20613.	1.7	36
76	Formation mechanisms of sub-wavelength ripples during femtosecond laser pulse train processing of dielectrics. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 175301.	1.3	35
77	A new Mach-Zehnder interferometer in a thinned-cladding fiber fabricated by electric arc for high sensitivity refractive index sensing. <i>Optics and Lasers in Engineering</i> , 2012, 50, 829-832.	2.0	34
78	High sensitivity Mach-Zehnder interferometer sensors based on concatenated ultra-abrupt tapers on thinned fibers. <i>Optics and Laser Technology</i> , 2012, 44, 640-645.	2.2	34
79	Femtosecond laser mediated fabrication of micro/nanostructured TiO ₂ - photoelectrodes: Hierarchical nanotubes array with oxygen vacancies and their photocatalysis properties. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119231.	10.8	33
80	Fast Growth of GaN Epilayers via Laser-Assisted Metal-Organic Chemical Vapor Deposition for Ultraviolet Photodetector Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21539-21547.	4.0	32
81	Hybrid superhydrophilic-superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. <i>Microsystems and Nanoengineering</i> , 2019, 5, 48.	3.4	32
82	Mechanism and elimination of bending effect in femtosecond laser deep-hole drilling. <i>Optics Express</i> , 2015, 23, 27853.	1.7	31
83	High-aspect-ratio, high-quality microdrilling by electron density control using a femtosecond laser Bessel beam. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	31
84	Fiber-optic micro vibration sensors fabricated by a femtosecond laser. <i>Optics and Lasers in Engineering</i> , 2018, 110, 207-210.	2.0	31
85	Manipulation of LIPSS orientation on silicon surfaces using orthogonally polarized femtosecond laser double-pulse trains. <i>Optics Express</i> , 2019, 27, 9782.	1.7	31
86	Femtosecond laser-induced periodic structure adjustments based on electron dynamics control: from subwavelength ripples to double-grating structures. <i>Optics Letters</i> , 2013, 38, 3743.	1.7	30
87	Femtosecond laser rapid fabrication of large-area rose-like micropatterns on freestanding flexible graphene films. <i>Scientific Reports</i> , 2015, 5, 17557.	1.6	30
88	Multiscale Visualization of Colloidal Particle Lens Array Mediated Plasma Dynamics for Dielectric Nanoparticle Enhanced Femtosecond Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 9952-9961.	3.2	30
89	A Dual-Cavity Fabry-Perot Interferometric Fiber-Optic Sensor for the Simultaneous Measurement of High-Temperature and High-Gas-Pressure. <i>IEEE Access</i> , 2020, 8, 80582-80587.	2.6	30
90	Non-diffraction-length, tunable, Bessel-like beams generation by spatially shaping a femtosecond laser beam for high-aspect-ratio micro-hole drilling. <i>Optics Express</i> , 2018, 26, 21960.	1.7	29

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91	Phase change mechanisms during femtosecond laser pulse train ablation of nickel thin films. Journal of Applied Physics, 2009, 106, .	1.1	28
92	Magnetic Fluid-Infiltrated Anti-Resonant Reflecting Optical Waveguide for Magnetic Field Sensing Based on Leaky Modes. Journal of Lightwave Technology, 2016, 34, 3490-3495.	2.7	28
93	Integrative Analysis of the Core Fruit Lignification Toolbox in Pear Reveals Targets for Fruit Quality Bioengineering. Biomolecules, 2019, 9, 504.	1.8	28
94	Femtosecond Photon-Mediated Plasma Enhances Photosynthesis of Plasmonic Nanostructures and Their SERS Applications. Small, 2019, 15, e1804899.	5.2	28
95	Multifunctional 3D Micro-Nanostructures Fabricated through Temporally Shaped Femtosecond Laser Processing for Preventing Thrombosis and Bacterial Infection. ACS Applied Materials & Interfaces, 2020, 12, 17155-17166.	4.0	28
96	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3 V Output Voltage. Advanced Energy Materials, 2021, 11, 2101523.	10.2	28
97	Fabry-Perot interferometer embedded in a glass chip fabricated by femtosecond laser. Optics Letters, 2009, 34, 2408.	1.7	27
98	Highly Sensitive Refractive Index Optical Fiber Sensors Fabricated by a Femtosecond Laser. IEEE Photonics Journal, 2011, 3, 1189-1197.	1.0	27
99	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO-TiO ₂ photocatalysts under visible light. Journal of Materials Chemistry A, 2018, 6, 16430-16438.	5.2	27
100	Investigations of femtosecond-nanosecond dual-beam laser ablation of dielectrics. Optics Letters, 2010, 35, 2490.	1.7	26
101	Shaped femtosecond laser induced photoreduction for highly controllable Au nanoparticles based on localized field enhancement and their SERS applications. Nanophotonics, 2020, 9, 691-702.	2.9	26
102	Etching rate enhancement by shaped femtosecond pulse train electron dynamics control for microchannels fabrication in fused silica glass. Optics Letters, 2013, 38, 4613.	1.7	25
103	Cylindrical shockwave-induced compression mechanism in femtosecond laser Bessel pulse micro-drilling of PMMA. Applied Physics Letters, 2017, 110, .	1.5	25
104	Large-Area 2D/3D MoS ₂ -MoO ₂ Heterostructures with Thermally Stable Exciton and Intriguing Electrical Transport Behaviors. Advanced Electronic Materials, 2017, 3, 1600335.	2.6	25
105	Comparison of Silica and Sapphire Fiber SERS Probes Fabricated by a Femtosecond Laser. IEEE Photonics Technology Letters, 2014, 26, 1299-1302.	1.3	24
106	Femtosecond laser pulse-train induced breakdown in fused silica: the role of seed electrons. Journal Physics D: Applied Physics, 2014, 47, 435105.	1.3	24
107	Crystal orientation dependence of femtosecond laser-induced periodic surface structure on (100) silicon. Optics Letters, 2014, 39, 3114.	1.7	24
108	Pump-probe imaging of the fs-ps-ns dynamics during femtosecond laser Bessel beam drilling in PMMA. Optics Express, 2015, 23, 32728.	1.7	24

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109	Nanopillar arrays with nanoparticles fabricated by a femtosecond laser pulse train for highly sensitive SERRS. <i>Optics Letters</i> , 2015, 40, 2045.	1.7	24
110	Dual-Wavelength DC Compensation Technique for the Demodulation of EFPI Fiber Sensors. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1380-1383.	1.3	24
111	Manipulation of the dielectric properties of diamond by an ultrashort laser pulse. <i>Physical Review B</i> , 2017, 95, .	1.1	23
112	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser Shaping Fabrication. <i>Advanced Optical Materials</i> , 2020, 8, 2000136.	3.6	23
113	Recent advances of non-lithium metal anode materials for solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16761-16778.	5.2	23
114	Femtosecond laser processing of fused silica and aluminum based on electron dynamics control by shaping pulse trains. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 679-684.	1.1	22
115	First-principles electron dynamics control simulation of diamond under femtosecond laser pulse train irradiation. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 275801.	0.7	22
116	Controllable high-throughput high-quality femtosecond laser-enhanced chemical etching by temporal pulse shaping based on electron density control. <i>Scientific Reports</i> , 2015, 5, 13202.	1.6	22
117	Temporal-spatial measurement of electron relaxation time in femtosecond laser induced plasma using two-color pump-probe imaging technique. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	22
118	Two-step femtosecond laser pulse train fabrication of nanostructured substrates for highly surface-enhanced Raman scattering. <i>Optics Letters</i> , 2012, 37, 3648.	1.7	21
119	Maskless Micro/Nanopatterning and Bipolar Electrical Rectification of MoS ₂ Flakes Through Femtosecond Laser Direct Writing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39334-39341.	4.0	21
120	Dual-functional Cu _x O/Cu electrodes for supercapacitors and non-enzymatic glucose sensors fabricated by femtosecond laser enhanced thermal oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152105.	2.8	21
121	Preparation of dextran-casein phosphopeptide conjugates, evaluation of its calcium binding capacity and digestion in vitro. <i>Food Chemistry</i> , 2021, 352, 129332.	4.2	21
122	Self-organizing microstructures orientation control in femtosecond laser patterning on silicon surface. <i>Optics Express</i> , 2014, 22, 16669.	1.7	20
123	Adjustable annular rings of periodic surface structures induced by spatially shaped femtosecond laser. <i>Laser Physics Letters</i> , 2015, 12, 056001.	0.6	20
124	Femtosecond laser-induced cross-periodic structures on a crystalline silicon surface under low pulse number irradiation. <i>Applied Surface Science</i> , 2015, 326, 216-221.	3.1	20
125	Energy Flow in Hybrid Organic/Inorganic Systems for Triplet-Triplet Annihilation Upconversion. <i>ACS Energy Letters</i> , 2022, 7, 847-861.	8.8	20
126	Femtosecond double-pulse fabrication of hierarchical nanostructures based on electron dynamics control for high surface-enhanced Raman scattering. <i>Optics Letters</i> , 2013, 38, 3558.	1.7	19

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127	Ablation enhancement of metal in ultrashort double-pulse experiments. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	19
128	Fast constructing polarity-switchable zinc-bromine microbatteries with high areal energy density. <i>Science Advances</i> , 2022, 8, .	4.7	19
129	Direct writing anisotropy on crystalline silicon surface by linearly polarized femtosecond laser. <i>Optics Letters</i> , 2013, 38, 1969.	1.7	18
130	Anisotropy modulations of femtosecond laser pulse induced periodic surface structures on silicon by adjusting double pulse delay. <i>Optics Express</i> , 2014, 22, 15820.	1.7	18
131	Martensitic transformation in temporally shaped femtosecond laser shock peening 304 steel. <i>Applied Surface Science</i> , 2021, 567, 150855.	3.1	18
132	Generation and elimination of polarization-dependent ablation of cubic crystals by femtosecond laser radiation. <i>Optics Express</i> , 2014, 22, 30170.	1.7	17
133	Low-Temperature Growth of Crystalline Gallium Nitride Films Using Vibrational Excitation of Ammonia Molecules in Laser-Assisted Metalorganic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2014, 14, 6248-6253.	1.4	17
134	Controllable Plasmonic Nanostructures induced by Dual-wavelength Femtosecond Laser Irradiation. <i>Scientific Reports</i> , 2017, 7, 17333.	1.6	17
135	Size distribution control of metal nanoparticles using femtosecond laser pulse train: a molecular dynamics simulation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 367-376.	1.1	16
136	Temporal femtosecond pulse shaping dependence of laser-induced periodic surface structures in fused silica. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	16
137	Structure-Mediated Excitation of Air Plasma and Silicon Plasma Expansion in Femtosecond Laser Pulses Ablation. <i>Research</i> , 2018, 2018, 5709748.	2.8	16
138	Thermally Reconfigurable Hologram Fabricated by Spatially Modulated Femtosecond Pulses on a Heat-Shrinkable Shape Memory Polymer for Holographic Multiplexing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51736-51745.	4.0	16
139	Laser-Based Growth and Treatment of Graphene for Advanced Photo- and Electro-Related Device Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
140	Polymorph-Controlled Crystallization of Acetaminophen through Femtosecond Laser Irradiation. <i>Crystal Growth and Design</i> , 2019, 19, 3265-3271.	1.4	15
141	Miniature on-fiber extrinsic Fabry-Perot interferometric vibration sensors based on micro-cantilever beam. <i>Nanotechnology Reviews</i> , 2019, 8, 293-298.	2.6	15
142	Adjustment of ablation shapes and subwavelength ripples based on electron dynamics control by designing femtosecond laser pulse trains. <i>Journal of Applied Physics</i> , 2012, 112, 103103.	1.1	14
143	Thermally Stable and Electrically Conductive, Vertically Aligned Carbon Nanotube/Silicon Infiltrated Composite Structures for High-Temperature Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37340-37349.	4.0	14
144	A dual-functional surface with hierarchical micro/nanostructure arrays for self-cleaning and antireflection. <i>RSC Advances</i> , 2017, 7, 49649-49654.	1.7	14

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145	Fiber Optic Dual-Ring Michelson Interferometer-Based Detection Scheme for the Measurement of Dynamic Signals. <i>Journal of Lightwave Technology</i> , 2019, 37, 3750-3755.	2.7	14
146	Femtosecond Laser Induced Phase Transformation of TiO ₂ with Exposed Reactive Facets for Improved Photoelectrochemistry Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41250-41258.	4.0	14
147	Direct observation of structure-assisted filament splitting during ultrafast multiple-pulse laser ablation. <i>Optics Express</i> , 2019, 27, 10050.	1.7	14
148	Trench-embedding fiber taper sensor fabricated by a femtosecond laser for gas refractive index sensing. <i>Applied Optics</i> , 2014, 53, 1028.	0.9	13
149	A robust fiber inline interferometer sensor based on a core-offset attenuator and a microsphere-shaped splicing junction. <i>Optics and Laser Technology</i> , 2014, 63, 76-82.	2.2	13
150	Controllable Si (100) micro/nanostructures by chemical-etching-assisted femtosecond laser single-pulse irradiation. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	13
151	Dual-scale nanoripple/nanoparticle-covered microspikes on silicon by femtosecond double pulse train irradiation in water. <i>Applied Surface Science</i> , 2017, 410, 22-28.	3.1	13
152	Micro/nano processing of natural silk fibers with near-field enhanced ultrafast laser. <i>Science China Materials</i> , 2020, 63, 1300-1309.	3.5	13
153	Controllable Photonic Structures on Silicon-on-Insulator Devices Fabricated Using Femtosecond Laser Lithography. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43622-43631.	4.0	13
154	Sapphire optical fiber high-temperature vibration sensor. <i>Optics Express</i> , 2022, 30, 1056.	1.7	13
155	High-Uniformity Submicron Gratings with Tunable Periods Fabricated through Femtosecond Laser-Assisted Molding Technology for Deformation Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16911-16919.	4.0	13
156	Direction Controllable Nano-Patterning of Titanium by Ultrafast Laser for Surface Coloring and Optical Encryption. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	13
157	Femtosecond laser high-efficiency drilling of high-aspect-ratio microholes based on free-electron-density adjustments. <i>Applied Optics</i> , 2014, 53, 7290.	2.1	12
158	Control of crystallographic orientation in diamond synthesis through laser resonant vibrational excitation of precursor molecules. <i>Scientific Reports</i> , 2014, 4, 4581.	1.6	12
159	Production rate enhancement of size-tunable silicon nanoparticles by temporally shaping femtosecond laser pulses in ethanol. <i>Optics Express</i> , 2015, 23, 4226.	1.7	12
160	Nanoscale material redistribution induced by spatially modulated femtosecond laser pulses for flexible high-efficiency surface patterning. <i>Optics Express</i> , 2017, 25, 31431.	1.7	12
161	Crystallization of Polymorphic Sulfathiazole Controlled by Femtosecond Laser-Induced Cavitation Bubbles. <i>Crystal Growth and Design</i> , 2021, 21, 3202-3210.	1.4	12
162	Creating a three-dimensional surface with antireflective properties by using femtosecond-laser Bessel-beam-assisted thermal oxidation. <i>Optics Letters</i> , 2020, 45, 2989.	1.7	12

#	ARTICLE	IF	CITATIONS
163	Shaped femtosecond laser-regulated deposition sites of galvanic replacement for simple preparation of large-area controllable noble metal nanoparticles. <i>Applied Surface Science</i> , 2022, 579, 152123.	3.1	12
164	Resonant and nonresonant vibrational excitation of ammonia molecules in the growth of gallium nitride using laser-assisted metal organic chemical vapour deposition. <i>Journal of Applied Physics</i> , 2016, 120, 105303.	1.1	11
165	Ultrafast imaging the light-speed propagation of a focused femtosecond laser pulse in air and its ionized electron dynamics and plasma-induced pulse reshaping. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	11
166	One-Step Fabrication Method of GaN Films for Internal Quantum Efficiency Enhancement and Their Ultrafast Mechanism Investigation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7688-7697.	4.0	11
167	Symmetrical demodulation method for the phase recovery of extrinsic Fabry-Pérot interferometric sensors. <i>Optics Express</i> , 2020, 28, 9149.	1.7	11
168	Controllable formation of laser-induced periodic surface structures on ZnO film by temporally shaped femtosecond laser scanning. <i>Optics Letters</i> , 2020, 45, 2411.	1.7	11
169	Superhydrophilic/Superhydrophobic Multifunctional Janus Foam Fabrication Using a Spatially Shaped Femtosecond Laser for Fog Collection and Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9873-9881.	4.0	11
170	Bottom-up scalable temporally-shaped femtosecond laser deposition of hierarchical porous carbon for ultrahigh-rate micro-supercapacitor. <i>Science China Materials</i> , 2022, 65, 2412-2420.	3.5	11
171	Simulation of rippled structure adjustments based on localized transient electron dynamics control by femtosecond laser pulse trains. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 813-819.	1.1	10
172	Detection of trace-level uranium and samarium in glasses by combined laser-induced breakdown spectroscopy and plasma-induced fluorescence spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1128-1132.	1.6	10
173	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. <i>Small</i> , 2018, 14, e1703501.	5.2	10
174	Evolutionary Rate Heterogeneity and Functional Divergence of Orthologous Genes in <i>Pyrus</i> . <i>Biomolecules</i> , 2019, 9, 490.	1.8	10
175	Microprocessing on Single Protein Crystals Using Femtosecond Pulse Laser. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6445-6452.	2.6	10
176	Asymmetric Response Optoelectronic Device Based on Femtosecond-Laser-Irradiated Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17070-17076.	4.0	10
177	Formation of laser-induced periodic surface nanometric concentric ring structures on silicon surfaces through single-spot irradiation with orthogonally polarized femtosecond laser double-pulse sequences. <i>Nanophotonics</i> , 2021, 10, 1273-1283.	2.9	10
178	Phase-Reversed MoS ₂ Nanosheets Prepared through Femtosecond Laser Exfoliation and Chemical Doping. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8304-8313.	1.5	10
179	High-quality micropattern printing by interlacing-pattern holographic femtosecond pulses. <i>Nanophotonics</i> , 2020, 9, 2895-2904.	2.9	10
180	One-step ultrafast laser induced synthesis of strongly coupled 1T-2H MoS ₂ /N-rGO quantum-dot heterostructures for enhanced hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 445, 136618.	6.6	10

#	ARTICLE	IF	CITATIONS
181	Nonlinear ionization mechanism dependence of energy absorption in diamond under femtosecond laser irradiation. <i>Journal of Applied Physics</i> , 2013, 113, 143106.	1.1	9
182	Simulation and experimental investigations of thermal degradation of polystyrene under femtosecond laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	9
183	Flexible Gray-Scale Surface Patterning Through Spatiotemporal Interference-Based Femtosecond Laser Shaping. <i>Advanced Optical Materials</i> , 2018, 6, 1801021.	3.6	9
184	Femtosecond laser induced concentric semi-circular periodic surface structures on silicon based on the quasi-plasmonic annular nanostructure. <i>Nanotechnology</i> , 2018, 29, 305301.	1.3	9
185	Functionalization of freeform curved surfaces by shaped femtosecond laser pulses in the propagation axis. <i>Optics Express</i> , 2021, 29, 5487.	1.7	9
186	Conductive Writing with High Precision by Laser-Induced Point-to-Line Carbonization Strategy for Flexible Supercapacitors. <i>Advanced Optical Materials</i> , 2021, 9, 2100793.	3.6	9
187	Flash Ablation of Tunable and Deep-Subwavelength Nanogap by Using a Spatially Modulated Femtosecond Laser Pulse for Plasmonic Application. <i>ACS Applied Nano Materials</i> , 2019, 2, 4933-4941.	2.4	8
188	Chemical etching mechanisms and crater morphologies pre-irradiated by temporally decreasing pulse trains of femtosecond laser. <i>Applied Surface Science</i> , 2019, 469, 44-49.	3.1	8
189	Engineering a multiscale multifunctional theragenerative system for enhancing osteosarcoma therapy, bone regeneration and bacterial eradication. <i>Chemical Engineering Journal</i> , 2022, 430, 132622.	6.6	8
190	One-Step Fabrication Method of MoS ₂ for High-Performance Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24550-24556.	1.5	8
191	Adjustments of dielectrics craters and their surfaces by ultrafast laser pulse train based on localized electron dynamics control. <i>Applied Optics</i> , 2013, 52, 4035.	0.9	7
192	First-principles calculation of multiphoton absorption cross section of $\hat{\pm}$ -quartz under femtosecond laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	7
193	Ultrafast response of dielectric properties of monolayer phosphorene to femtosecond laser. <i>Journal of Applied Physics</i> , 2017, 121, 173105.	1.1	7
194	Seed-Free Growth of Diamond Patterns on Silicon Predefined by Femtosecond Laser Direct Writing. <i>Crystal Growth and Design</i> , 2013, 13, 716-722.	1.4	6
195	Single-pulse femtosecond laser Bessel beams drilling of high-aspect-ratio microholes based on electron dynamics control. <i>Proceedings of SPIE</i> , 2014, , .	0.8	6
196	Hierarchical laser-induced periodic surface structures induced by femtosecond laser on the surface of a ZnO film. <i>Applied Physics Express</i> , 2018, 11, 052703.	1.1	6
197	Simple and robust generation of ultrafast laser pulse trains using polarization-independent parallel-aligned thin films. <i>Optics and Laser Technology</i> , 2018, 101, 298-303.	2.2	6
198	Sharp-featured Au@Ag core/shell nanocuboid synthesis and the label-free ultrasensitive SERS detection of protein single-point mutations. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1720-1724.	3.2	6

#	ARTICLE	IF	CITATIONS
199	Morphology control of nanostructure using microsphere-assisted femtosecond laser double-pulse ablation and chemical etching. <i>Applied Surface Science</i> , 2020, 502, 144272.	3.1	6
200	Drying kinetics and quality characteristics of daylily dried by mid-infrared. <i>International Journal of Food Engineering</i> , 2021, 17, 969-979.	0.7	6
201	Femtosecond Laser One-Step Direct Writing Electrodes with Ag NPs@Graphite Carbon Composites for Electrochemical Sensing. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	6
202	Polarization-dependent elliptical crater morphologies formed on a silicon surface by single-shot femtosecond laser ablation. <i>Applied Optics</i> , 2014, 53, 6742.	0.9	5
203	Electron ionization and spin polarization control of Fe atom adsorbed graphene irradiated by a femtosecond laser. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2615-2618.	0.9	5
204	Laser-induced breakdown spectroscopy of ammonia gas with resonant vibrational excitation. <i>Optics Express</i> , 2020, 28, 1197.	1.7	5
205	Controlling the excitation process of free electrons by a femtosecond elliptically polarized laser. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550033.	1.0	4
206	Periodic surface structures induced by femtosecond laser single pulse and pulse trains on metals. <i>Laser Physics</i> , 2015, 25, 056103.	0.6	4
207	Beam Manipulation Mechanisms of Dielectric Metasurfaces. <i>ACS Omega</i> , 2019, 4, 7467-7473.	1.6	4
208	Throughput Improvement in Femtosecond Laser Ablation of Nickel by Double Pulses. <i>Materials</i> , 2021, 14, 6355.	1.3	4
209	Transformation from nano-ripples to nano-triangle arrays and their orientation control on titanium surfaces by using orthogonally polarized femtosecond laser double-pulse sequences. <i>Applied Surface Science</i> , 2022, 588, 152918.	3.1	4
210	Spatiotemporal insights into the femtosecond laser homogeneous and heterogeneous melting aluminum by atomistic-continuum modeling. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	4
211	Selective triggering of phase change in dielectrics by femtosecond pulse trains based on electron dynamics control. <i>Chinese Physics B</i> , 2013, 22, 045203.	0.7	3
212	First-principles simulations for excitation of currents in linear carbon chains under femtosecond laser pulse irradiation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2453-2457.	0.9	3
213	Fast and eco-friendly fabrication of uniform Ag substrates for highly sensitive surface-enhanced Raman scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	3
214	Refractory Vertically Aligned Carbon Nanotube@Boron Nitride Nanocomposites for Scalable Electrical Anisotropic Interconnects. <i>ACS Applied Nano Materials</i> , 2019, 2, 100-108.	2.4	3
215	Measurement of Sapphire Wafer Thermo-Optic Coefficient Using High-Temperature Optical Fiber Sensors. <i>IEEE Sensors Journal</i> , 2022, 22, 2244-2249.	2.4	3
216	An all-sapphire fiber temperature sensor for high-temperature measurement. <i>Measurement Science and Technology</i> , 2022, 33, 105115.	1.4	3

#	ARTICLE	IF	CITATIONS
217	An improved two-temperature model for metal thin film heating by femtosecond laser pulses. , 2004, , .		2
218	Frequency dependence of electron dynamics during femtosecond laser resonant photoionization of Li ₄ cluster. Journal of Applied Physics, 2013, 114, 143105.	1.1	2
219	Effects of key pulse train parameters on electron dynamics during femtosecond laser nonlinear ionization of silica. Laser Physics, 2015, 25, 066101.	0.6	2
220	Electron dynamics and optical properties modulation of monolayer MoS ₂ by femtosecond laser pulse: a simulation using time-dependent density functional theory. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
221	Photoluminescence Oscillations in LEDs Arise from Cylinder-like Nanostructures Fabricated by a Femtosecond Laser. Journal of Physical Chemistry C, 2019, 123, 18056-18060.	1.5	2
222	Controllable fabrication of unidirectional liquid spreading surface through confining plasma eruption and femtosecond laser double pulses. Applied Surface Science, 2020, 504, 144110.	3.1	2
223	Ultrafast response of cubic silicon carbide to intense attosecond pulse light. Physical Review B, 2021, 104, .	1.1	2
224	Interval-Valued Intuitionistic Fuzzy Decision With Graph Pattern in Big Graph. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 1057-1067.	3.4	2
225	High efficiency and scalable fabrication of fresnel zone plates using holographic femtosecond pulses. Nanophotonics, 2022, 11, 3081-3091.	2.9	2
226	Transient Localized Material Properties Changes by Ultrafast Laser-Pulse Manipulation of Electron Dynamics in Micro/Nano Manufacturing. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	1
227	Chemical Vapor Sensors Based on Whispering Gallery Modes in an Optical Fiber Micro-Resonator Coated with a Polymer Layer. Fiber and Integrated Optics, 2012, 31, 263-276.	1.7	1
228	Femtosecond laser microchannels fabrication based on electrons dynamics control using temporally or spatially shaped pulses. , 2014, , .		1
229	Hydrodynamic simulation of ultrashort pulse laser ablation of gold film. Applied Physics A: Materials Science and Processing, 2015, 119, 1047-1052.	1.1	1
230	Isotope signature characterization of Pb and U in open air by laser-ablation mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 1932-1937.	1.6	1
231	Asymmetrical Micro-Supercapacitors: Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array (Small 37/2018). Small, 2018, 14, 1870171.	5.2	1
232	Fabrication of nanogap structures through spatially shaped femtosecond laser modification with the assistance of wet chemical etching. Optics Letters, 2021, 46, 3560.	1.7	1
233	Conductive Writing with High Precision by Laser-Induced Point-to-Line Carbonization Strategy for Flexible Supercapacitors (Advanced Optical Materials 24/2021). Advanced Optical Materials, 2021, 9, .	3.6	1
234	Predication of ablation depth and crater shape in femtosecond laser micromachining of wide bandgap materials. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
235	Seed-Free Growth of Diamond Patterns on Femtosecond Laser Processed Silicon Substrates. Materials Research Society Symposia Proceedings, 2013, 1511, 1.	0.1	0
236	Sensitivity improvement of ambient mass spectrometry using a continuous wave infrared laser. , 2015, , .		0
237	Quantum multiscale modeling of electron dynamics and material properties during femtosecond laser-material interactions. , 2015, , .		0
238	Laser direct writing of multifunctional micro/nano devices using carbon nanotubeâ€“polymer composites. , 2016, , .		0
239	Flowing cells stability test and evaluation for fast flow cytometry. Journal of Optics (India), 2019, 48, 54-59.	0.8	0
240	Femtosecond laser fabrication of fiber microresonator sensors: Experiments and modeling. , 2010, , .		0
241	Broadband plasmonic-enhanced forward and backward multiplex coherent anti-Stokes Raman scattering microscopy. Optical Engineering, 2018, 57, 1.	0.5	0
242	Selective deposition of gold particles onto silicon at the nanoscale controlled by a femtosecond laser through galvanic displacement. RSC Advances, 2020, 10, 43432-43437.	1.7	0
243	One-Step In Situ Patternable Reduction of a Agâ€“rGO Hybrid Using Temporally Shaped Femtosecond Pulses. Materials, 2022, 15, 563.	1.3	0