Lan Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225 papers	7,379 citations	44 h-index	78 g-index
245 ext. papers	9,027 ext. citations	7.4 avg, IF	6.19 L-index

#	Paper	IF	Citations
225	Energy Flow in Hybrid Organic/Inorganic Systems for Triplet–Triplet Annihilation Upconversion. *ACS Energy Letters*, **2022**, 7, 847-861	20.1	6
224	Interval-Valued Intuitionistic Fuzzy Decision With Graph Pattern in Big Graph. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2022**, 1-11	4.1	1
223	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors.. *Advanced Materials*, **2022**, e2110013	24	10
222	A Flexible Aqueous Zinc-Iodine Micro-battery with Unprecedented Energy Density.. *Advanced Materials*, **2022**, e2109450	24	3
221	Superhydrophilic-Superhydrophobic Multifunctional Janus Foam Fabrication Using a Spatially Shaped Femtosecond Laser for Fog Collection and Detection.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
220	Sapphire optical fiber high-temperature vibration sensor.. *Optics Express*, **2022**, 30, 1056-1065	3.3	1
219	Shaped femtosecond laser-regulated deposition sites of galvanic replacement for simple preparation of large-area controllable noble metal nanoparticles. *Applied Surface Science*, **2022**, 579, 152123	6.7	3
218	Transformation from nano-ripples to nano-triangle arrays and their orientation control on titanium surfaces by using orthogonally polarized femtosecond laser double-pulse sequences. *Applied Surface Science*, **2022**, 588, 152918	6.7	0
217	Direction Controllable Nano-Patterning of Titanium by Ultrafast Laser for Surface Coloring and Optical Encryption. *Advanced Optical Materials*, **2022**, 10, 2101673	8.1	4
216	One-step ultrafast laser induced synthesis of strongly coupled 1T-2H MoS2/N-rGO quantum-dot heterostructures for enhanced hydrogen evolution. *Chemical Engineering Journal*, **2022**, 445, 136618	14.7	1
215	Thermally Reconfigurable Hologram Fabricated by Spatially Modulated Femtosecond Pulses on a Heat-Shrinkable Shape Memory Polymer for Holographic Multiplexing. *ACS Applied Materials & Interfaces*, **2021**, 13, 51736-51745	9.5	5
214	Measurement of Sapphire Wafer Thermo-optic Coefficient using High-Temperature Optical Fiber Sensors. *IEEE Sensors Journal*, **2021**, 1-1	4	1
213	Crystallization of Polymorphic Sulfathiazole Controlled by Femtosecond Laser-Induced Cavitation Bubbles. *Crystal Growth and Design*, **2021**, 21, 3202-3210	3.5	4
212	Phase-Reversed MoS2 Nanosheets Prepared through Femtosecond Laser Exfoliation and Chemical Doping. *Journal of Physical Chemistry C*, **2021**, 125, 8304-8313	3.8	1
211	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. *Nature Communications*, **2021**, 12, 2647	17.4	30
210	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3 V Output Voltage. *Advanced Energy Materials*, **2021**, 11, 2101523	21.8	10
209	Fabrication of nanogap structures through spatially shaped femtosecond laser modification with the assistance of wet chemical etching. *Optics Letters*, **2021**, 46, 3560-3563	3	

208	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. *Nanophotonics*, **2021**, 10, 1273-1283	6.3	2
207	Functionalization of freeform curved surfaces by shaped femtosecond laser pulses in the propagation axis. *Optics Express*, **2021**, 29, 5487-5496	3.3	1
206	One-Step Fabrication Method of GaN Films for Internal Quantum Efficiency Enhancement and Their Ultrafast Mechanism Investigation. *ACS Applied Materials & Interfaces*, **2021**, 13, 7688-7697	9.5	2
205	Controllable Photonic Structures on Silicon-on-Insulator Devices Fabricated Using Femtosecond Laser Lithography. *ACS Applied Materials & Interfaces*, **2021**, 13, 43622-43631	9.5	2
204	Preparation of dextran-casein phosphopeptide conjugates, evaluation of its calcium binding capacity and digestion in vitro. *Food Chemistry*, **2021**, 352, 129332	8.5	7
203	Engineering a multiscale multifunctional theragenerative system for enhancing osteosarcoma therapy, bone regeneration and bacterial eradication. *Chemical Engineering Journal*, **2021**, 132622	14.7	3
202	Martensitic transformation in temporally shaped femtosecond laser shock peening 304 steel. *Applied Surface Science*, **2021**, 567, 150855	6.7	2
201	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, 2170102	8.1	
200	Micro/nano processing of natural silk fibers with near-field enhanced ultrafast laser. *Science China Materials*, **2020**, 63, 1300-1309	7.1	8
199	A Dual-Cavity Fabry-Perot Interferometric Fiber-Optic Sensor for the Simultaneous Measurement of High-Temperature and High-Gas-Pressure. *IEEE Access*, **2020**, 8, 80582-80587	3.5	15
198	Femtosecond laser mediated fabrication of micro/nanostructured TiO2- photoelectrodes: Hierarchical nanotubes array with oxygen vacancies and their photocatalysis properties. *Applied Catalysis B: Environmental*, **2020**, 277, 119231	21.8	12
197	Asymmetric Response Optoelectronic Device Based on Femtosecond-Laser-Irradiated Perovskite. *ACS Applied Materials & Interfaces*, **2020**, 12, 17070-17076	9.5	7
196	Shaped femtosecond laser induced photoreduction for highly controllable Au nanoparticles based on localized field enhancement and their SERS applications. *Nanophotonics*, **2020**, 9, 691-702	6.3	14
195	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	9.5	13
194	Symmetrical demodulation method for the phase recovery of extrinsic Fabry-Perot interferometric sensors. *Optics Express*, **2020**, 28, 9149-9157	3.3	3
193	Controllable formation of laser-induced periodic surface structures on ZnO film by temporally shaped femtosecond laser scanning. *Optics Letters*, **2020**, 45, 2411-2414	3	6
192	Creating a three-dimensional surface with antireflective properties by using femtosecond-laser Bessel-beam-assisted thermal oxidation. *Optics Letters*, **2020**, 45, 2989-2992	3	5
191	High-quality micropattern printing by interlacing-pattern holographic femtosecond pulses. *Nanophotonics*, **2020**, 9, 2895-2904	6.3	5

190	Laser-induced breakdown spectroscopy of ammonia gas with resonant vibrational excitation. *Optics Express*, **2020**, 28, 1197-1205	3.3	3
189	Selective deposition of gold particles onto silicon at the nanoscale controlled by a femtosecond laser through galvanic displacement.. *RSC Advances*, **2020**, 10, 43432-43437	3.7	
188	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. *Light: Science and Applications*, **2020**, 9, 80	16.7	31
187	Controllable fabrication of unidirectional liquid spreading surface through confining plasma eruption and femtosecond laser double pulses. *Applied Surface Science*, **2020**, 504, 144110	6.7	0
186	Miniaturized high-performance metallic 1T-Phase MoS2 micro-supercapacitors fabricated by temporally shaped femtosecond pulses. *Nano Energy*, **2020**, 67, 104260	17.1	18
185	Compact Assembly and Programmable Integration of Supercapacitors. *Advanced Materials*, **2020**, 32, e1907005	24	21
184	Microprocessing on Single Protein Crystals Using Femtosecond Pulse Laser. *ACS Biomaterials Science and Engineering*, **2020**, 6, 6445-6452	5.5	6
183	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. *Nature Communications*, **2020**, 11, 6185	17.4	34
182	Femtosecond Laser Induced Phase Transformation of TiO with Exposed Reactive Facets for Improved Photoelectrochemistry Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 41250-41258	9.5	7
181	Dual-functional CuxO/Cu electrodes for supercapacitors and non-enzymatic glucose sensors fabricated by femtosecond laser enhanced thermal oxidation. *Journal of Alloys and Compounds*, **2020**, 815, 152105	5.7	11
180	Morphology control of nanostructure using microsphere-assisted femtosecond laser double-pulse ablation and chemical etching. *Applied Surface Science*, **2020**, 502, 144272	6.7	3
179	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser-Shaping Fabrication. *Advanced Optical Materials*, **2020**, 8, 2000136	8.1	10
178	Maskless Micro/Nanopatterning and Bipolar Electrical Rectification of MoS Flakes Through Femtosecond Laser Direct Writing. *ACS Applied Materials & Interfaces*, **2019**, 11, 39334-39341	9.5	9
177	Hybrid superhydrophilic-superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. *Microsystems and Nanoengineering*, **2019**, 5, 48	7.7	15
176	Integrative Analysis of the Core Fruit Lignification Toolbox in Pear Reveals Targets for Fruit Quality Bioengineering. *Biomolecules*, **2019**, 9,	5.9	8
175	Enhancing charge transfer with foreign molecules through femtosecond laser induced MoS defect sites for photoluminescence control and SERS enhancement. *Nanoscale*, **2019**, 11, 485-494	7.7	25
174	Flowing cells stability test and evaluation for fast flow cytometry. *Journal of Optics (India)*, **2019**, 48, 54-59	1.3	
173	Anisotropic Enhancement of Second-Harmonic Generation in Monolayer and Bilayer MoS by Integrating with TiO Nanowires. *Nano Letters*, **2019**, 19, 4195-4204	11.5	29

172	Laser-Assisted Multiscale Fabrication of Configuration-Editable Supercapacitors with High Energy Density. *ACS Nano*, **2019**, 13, 7463-7470	16.7	39
171	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. *Nanophotonics*, **2019**, 8, 869-878	6.3	22
170	Beam Manipulation Mechanisms of Dielectric Metasurfaces. *ACS Omega*, **2019**, 4, 7467-7473	3.9	1
169	Polymorph-Controlled Crystallization of Acetaminophen through Femtosecond Laser Irradiation. *Crystal Growth and Design*, **2019**, 19, 3265-3271	3.5	10
168	Manipulation of LIPSS orientation on silicon surfaces using orthogonally polarized femtosecond laser double-pulse trains. *Optics Express*, **2019**, 27, 9782-9793	3.3	20
167	Fiber Optic Dual-Ring Michelson Interferometer-Based Detection Scheme for the Measurement of Dynamic Signals. *Journal of Lightwave Technology*, **2019**, 37, 3750-3755	4	7
166	Large-Scale Production of Flexible, High-Voltage Hydroelectric Films Based on Solid Oxides. *ACS Applied Materials & Interfaces*, **2019**, 11, 30927-30935	9.5	36
165	Cylindrically Focused Nonablative Femtosecond Laser Processing of Long-Range Uniform Periodic Surface Structures with Tunable Diffraction Efficiency. *Advanced Optical Materials*, **2019**, 7, 1900706	8.1	25
164	Flash Ablation of Tunable and Deep-Subwavelength Nanogap by Using a Spatially Modulated Femtosecond Laser Pulse for Plasmonic Application. *ACS Applied Nano Materials*, **2019**, 2, 4933-4941	5.6	4
163	Photoluminescence Oscillations in LEDs Arise from Cylinder-like Nanostructures Fabricated by a Femtosecond Laser. *Journal of Physical Chemistry C*, **2019**, 123, 18056-18060	3.8	1
162	Multiscale Visualization of Colloidal Particle Lens Array Mediated Plasma Dynamics for Dielectric Nanoparticle Enhanced Femtosecond Laser-Induced Breakdown Spectroscopy. *Analytical Chemistry*, **2019**, 91, 9952-9961	7.8	25
161	Ultrafast dynamics observation during femtosecond laser-material interaction. *International Journal of Extreme Manufacturing*, **2019**, 1, 032004	7.9	39
160	Evolutionary Rate Heterogeneity and Functional Divergence of Orthologous Genes in. *Biomolecules* , **2019**, 9,	5.9	3
159	Direct observation of structure-assisted filament splitting during ultrafast multiple-pulse laser ablation. *Optics Express*, **2019**, 27, 10050-10057	3.3	8
158	Antiresonant mechanism based self-temperature-calibrated fiber optic Fabry-Perot gas pressure sensors. *Optics Express*, **2019**, 27, 22181-22189	3.3	30
157	Femtosecond Photon-Mediated Plasma Enhances Photosynthesis of Plasmonic Nanostructures and Their SERS Applications. *Small*, **2019**, 15, e1804899	11	16
156	Miniature on-fiber extrinsic Fabry-Perot interferometric vibration sensors based on micro-cantilever beam. *Nanotechnology Reviews*, **2019**, 8, 293-298	6.3	10
155	Controllable Synthesis of Nanosized Amorphous MoSx Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. *Advanced Functional Materials*, **2019**, 29, 1806229	15.6	33

154	Rollable, Stretchable, and Reconfigurable Graphene Hygroelectric Generators. *Advanced Materials*, **2019**, 31, e1805705	24	57
153	Refractory Vertically Aligned Carbon Nanotube Boron Nitride Nanocomposites for Scalable Electrical Anisotropic Interconnects. *ACS Applied Nano Materials*, **2019**, 2, 100-108	5.6	1
152	Chemical etching mechanisms and crater morphologies pre-irradiated by temporally decreasing pulse trains of femtosecond laser. *Applied Surface Science*, **2019**, 469, 44-49	6.7	4
151	High performance 3D CuO/Cu flowers supercapacitor electrodes by femtosecond laser enhanced electrochemical anodization. *Electrochimica Acta*, **2019**, 293, 273-282	6.7	24
150	Metal (Ag, Pt) MoS2 Hybrids Greenly Prepared Through Photochemical Reduction of Femtosecond Laser Pulses for SERS and HER. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7704-7714	8.3	38
149	Electrons dynamics control by shaping femtosecond laser pulses in micro/nanofabrication: modeling, method, measurement and application. *Light: Science and Applications*, **2018**, 7, 17134	16.7	180
148	Pressure and Temperature Sensor Based on Graphene Diaphragm and Fiber Bragg Gratings. *IEEE Photonics Technology Letters*, **2018**, 30, 431-434	2.2	31
147	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. *Small*, **2018**, 14, e1703501	11	7
146	A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. *Nano Letters*, **2018**, 18, 2021-2032	11.5	28
145	Flexible in-plane graphene oxide moisture-electric converter for touchless interactive panel. *Nano Energy*, **2018**, 45, 37-43	17.1	53
144	Optical Field Enhancement in Au Nanoparticle-Decorated Nanorod Arrays Prepared by Femtosecond Laser and Their Tunable Surface-Enhanced Raman Scattering Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 1297-1305	9.5	35
143	Hierarchical laser-induced periodic surface structures induced by femtosecond laser on the surface of a ZnO film. *Applied Physics Express*, **2018**, 11, 052703	2.4	6
142	Ablation enhancement of metal in ultrashort double-pulse experiments. *Applied Physics Letters*, **2018**, 112, 261906	3.4	11
141	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO TiO2 photocatalysts under visible light. *Journal of Materials Chemistry A*, **2018**, 6, 16430-16438	13	20
140	High-throughput microchannel fabrication in fused silica by temporally shaped femtosecond laser Bessel-beam-assisted chemical etching. *Optics Letters*, **2018**, 43, 98-101	3	44
139	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. *Energy and Environmental Science*, **2018**, 11, 2839-2845	35.4	58
138	Sharp-featured Au@Ag core/shell nanocuboid synthesis and the label-free ultrasensitive SERS detection of protein single-point mutations. *Materials Chemistry Frontiers*, **2018**, 2, 1720-1724	7.8	5
137	Three-dimensional water evaporation on a macroporous vertically aligned graphene pillar array under one sun. *Journal of Materials Chemistry A*, **2018**, 6, 15303-15309	13	95

136	Femtosecond laser induced concentric semi-circular periodic surface structures on silicon based on the quasi-plasmonic annular nanostructure. *Nanotechnology*, **2018**, 29, 305301	3.4	8
135	Dual-Wavelength DC Compensation Technique for the Demodulation of EFPI Fiber Sensors. *IEEE Photonics Technology Letters*, **2018**, 30, 1380-1383	2.2	17
134	Non-diffraction-length, tunable, Bessel-like beams generation by spatially shaping a femtosecond laser beam for high-aspect-ratio micro-hole drilling. *Optics Express*, **2018**, 26, 21960-21968	3.3	16
133	Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array. *Small*, **2018**, 14, e1801809	11	46
132	Structure-Mediated Excitation of Air Plasma and Silicon Plasma Expansion in Femtosecond Laser Pulses Ablation. *Research*, **2018**, 2018, 5709748	7.8	11
131	Broadband plasmonic-enhanced forward and backward multiplex coherent anti-Stokes Raman scattering microscopy. *Optical Engineering*, **2018**, 57, 1	1.1	
130	Simple and robust generation of ultrafast laser pulse trains using polarization-independent parallel-aligned thin films. *Optics and Laser Technology*, **2018**, 101, 298-303	4.2	3
129	A capacity recoverable zinc-ion micro-supercapacitor. *Energy and Environmental Science*, **2018**, 11, 3367-3374	33.4	185
128	Simulation and experimental investigations of thermal degradation of polystyrene under femtosecond laser ablation. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	5
127	Investigation on the Thermo-Optic Coefficient of Silica Fiber Within a Wide Temperature Range. *Journal of Lightwave Technology*, **2018**, 36, 5881-5886	4	24
126	Flexible Gray-Scale Surface Patterning Through Spatiotemporal-Interference-Based Femtosecond Laser Shaping. *Advanced Optical Materials*, **2018**, 6, 1801021	8.1	5
125	Asymmetrical Micro-Supercapacitors: Laser-Assisted Large-Scale Fabrication of All-Solid-State Asymmetrical Micro-Supercapacitor Array (Small 37/2018). *Small*, **2018**, 14, 1870171	11	0
124	Temporal-spatial measurement of electron relaxation time in femtosecond laser induced plasma using two-color pump-probe imaging technique. *Applied Physics Letters*, **2018**, 112, 191101	3.4	14
123	Fiber-optic micro vibration sensors fabricated by a femtosecond laser. *Optics and Lasers in Engineering*, **2018**, 110, 207-210	4.6	24
122	Integrated graphene systems by laser irradiation for advanced devices. *Nano Today*, **2017**, 12, 14-30	17.9	63
121	Self-powered wearable graphene fiber for information expression. *Nano Energy*, **2017**, 32, 329-335	17.1	88
120	Shape-Controllable Gold Nanoparticle-MoS Hybrids Prepared by Tuning Edge-Active Sites and Surface Structures of MoS via Temporally Shaped Femtosecond Pulses. *ACS Applied Materials & Interfaces*, **2017**, 9, 7447-7455	9.5	40
119	Cylindrical shockwave-induced compression mechanism in femtosecond laser Bessel pulse micro-drilling of PMMA. *Applied Physics Letters*, **2017**, 110, 161907	3.4	20

118	Emission enhancement of femtosecond laser-induced breakdown spectroscopy by combining nanoparticle and dual-pulse on crystal SiO2. *Optics and Laser Technology*, **2017**, 93, 194-200	4.2	25
117	Fast and eco-friendly fabrication of uniform Ag substrates for highly sensitive surface-enhanced Raman scattering. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	3
116	Controllable Si (100) micro/nanostructures by chemical-etching-assisted femtosecond laser single-pulse irradiation. *Applied Physics Letters*, **2017**, 110, 181907	3.4	6
115	Ultrafast response of dielectric properties of monolayer phosphorene to femtosecond laser. *Journal of Applied Physics*, **2017**, 121, 173105	2.5	6
114	Large-Area 2D/3D MoS2/MoO2 Heterostructures with Thermally Stable Exciton and Intriguing Electrical Transport Behaviors. *Advanced Electronic Materials*, **2017**, 3, 1600335	6.4	20
113	Fast Growth of GaN Epilayers via Laser-Assisted Metal-Organic Chemical Vapor Deposition for Ultraviolet Photodetector Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 21539-21547	9.5	20
112	Dual-scale nanoripple/nanoparticle-covered microspikes on silicon by femtosecond double pulse train irradiation in water. *Applied Surface Science*, **2017**, 410, 22-28	6.7	7
111	Low-adhesive superhydrophobic surface-enhanced Raman spectroscopy substrate fabricated by femtosecond laser ablation for ultratrace molecular detection. *Journal of Materials Chemistry B*, **2017**, 5, 777-784	7.3	44
110	Thermally Stable and Electrically Conductive, Vertically Aligned Carbon Nanotube/Silicon Infiltrated Composite Structures for High-Temperature Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 37340-37349	9.5	10
109	Preparation of Monolayer MoS Quantum Dots using Temporally Shaped Femtosecond Laser Ablation of Bulk MoS Targets in Water. *Scientific Reports*, **2017**, 7, 11182	4.9	99
108	Isotope signature characterization of Pb and U in open air by laser-ablation mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 1932-1937	3.7	1
107	A dual-functional surface with hierarchical micro/nanostructure arrays for self-cleaning and antireflection. *RSC Advances*, **2017**, 7, 49649-49654	3.7	6
106	Electron dynamics and optical properties modulation of monolayer MoS2 by femtosecond laser pulse: a simulation using time-dependent density functional theory. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	1
105	Manipulation of the dielectric properties of diamond by an ultrashort laser pulse. *Physical Review B*, **2017**, 95,	3.3	15
104	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. *Accounts of Chemical Research*, **2017**, 50, 1663-1671	24.3	79
103	Controllable Plasmonic Nanostructures induced by Dual-wavelength Femtosecond Laser Irradiation. *Scientific Reports*, **2017**, 7, 17333	4.9	15
102	Nanoscale material redistribution induced by spatially modulated femtosecond laser pulses for flexible high-efficiency surface patterning. *Optics Express*, **2017**, 25, 31431-31442	3.3	10
101	One Single Graphene Oxide Film for Responsive Actuation. *ACS Nano*, **2016**, 10, 9529-9535	16.7	115

100	Surface micro/nanostructure evolution of Au□Ag alloy nanoplates: Synthesis, simulation, plasmonic photothermal and surface-enhanced Raman scattering applications. *Nano Research*, **2016**, 9, 876-885	10	26
99	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. *Energy and Environmental Science*, **2016**, 9, 912-916	35.4	181
98	Multimodal Nonlinear Optical Imaging of MoS_2 and $MoSe_2$-Based van der Waals Heterostructures. *ACS Nano*, **2016**, 10, 3766-75	16.7	97
97	High-aspect-ratio, high-quality microdrilling by electron density control using a femtosecond laser Bessel beam. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	23
96	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. *Advanced Materials*, **2016**, 28, 3305-12	24	67
95	Laser-Directed Assembly of Aligned Carbon Nanotubes in Three Dimensions for Multifunctional Device Fabrication. *Advanced Materials*, **2016**, 28, 2002-9	24	94
94	Magnetic Fluid-Infiltrated Anti-Resonant Reflecting Optical Waveguide for Magnetic Field Sensing Based on Leaky Modes. *Journal of Lightwave Technology*, **2016**, 34, 3490-3495	4	20
93	Resonant and nonresonant vibrational excitation of ammonia molecules in the growth of gallium nitride using laser-assisted metal organic chemical vapour deposition. *Journal of Applied Physics*, **2016**, 120, 105303	2.5	6
92	First-principles simulations for excitation of currents in linear carbon chains under femtosecond laser pulse irradiation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 2453-2457	2.2	2
91	First-principles calculation of multiphoton absorption cross section of □-quartz under femtosecond laser irradiation. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	5
90	Ultrafast imaging the light-speed propagation of a focused femtosecond laser pulse in air and its ionized electron dynamics and plasma-induced pulse reshaping. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	5
89	Versatile Graphene Oxide Putty-Like Material. *Advanced Materials*, **2016**, 28, 10287-10292	24	49
88	High aspect ratio, high-quality microholes in PMMA: a comparison between femtosecond laser drilling in air and in vacuum. *Applied Physics A: Materials Science and Processing*, **2015**, 119, 61-68	2.6	35
87	Nanopillar arrays with nanoparticles fabricated by a femtosecond laser pulse train for highly sensitive SERRS. *Optics Letters*, **2015**, 40, 2045-8	3	22
86	Effects of key pulse train parameters on electron dynamics during femtosecond laser nonlinear ionization of silica. *Laser Physics*, **2015**, 25, 066101	1.2	0
85	Adjustable annular rings of periodic surface structures induced by spatially shaped femtosecond laser. *Laser Physics Letters*, **2015**, 12, 056001	1.5	16
84	Periodic surface structures induced by femtosecond laser single pulse and pulse trains on metals. *Laser Physics*, **2015**, 25, 056103	1.2	3
83	Hydrodynamic simulation of ultrashort pulse laser ablation of gold film. *Applied Physics A: Materials Science and Processing*, **2015**, 119, 1047-1052	2.6	1

82	Production rate enhancement of size-tunable silicon nanoparticles by temporally shaping femtosecond laser pulses in ethanol. *Optics Express*, **2015**, 23, 4226-32	3.3	6
81	Femtosecond laser-induced cross-periodic structures on a crystalline silicon surface under low pulse number irradiation. *Applied Surface Science*, **2015**, 326, 216-221	6.7	18
80	Mechanism and elimination of bending effect in femtosecond laser deep-hole drilling. *Optics Express*, **2015**, 23, 27853-64	3.3	23
79	Femtosecond laser rapid fabrication of large-area rose-like micropatterns on freestanding flexible graphene films. *Scientific Reports*, **2015**, 5, 17557	4.9	24
78	Controllable high-throughput high-quality femtosecond laser-enhanced chemical etching by temporal pulse shaping based on electron density control. *Scientific Reports*, **2015**, 5, 13202	4.9	16
77	Direct Power Generation from a Graphene Oxide Film under Moisture. *Advanced Materials*, **2015**, 27, 4351-7	24	256
76	Mask-Free Patterning of High-Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. *Advanced Materials*, **2015**, 27, 6238-43	24	55
75	Electron ionization and spin polarization control of Fe atom adsorbed graphene irradiated by a femtosecond laser. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 2615-2618	2.3	5
74	Pump-probe imaging of the fs-ps-ns dynamics during femtosecond laser Bessel beam drilling in PMMA. *Optics Express*, **2015**, 23, 32728-35	3.3	19
73	Series of in-fiber graphene supercapacitors for flexible wearable devices. *Journal of Materials Chemistry A*, **2015**, 3, 2547-2551	13	86
72	Detection of trace-level uranium and samarium in glasses by combined laser-induced breakdown spectroscopy and plasma-induced fluorescence spectroscopy. *Journal of Analytical Atomic Spectrometry*, **2015**, 30, 1128-1132	3.7	10
71	Controlling the excitation process of free electrons by a femtosecond elliptically polarized laser. *International Journal of Modern Physics B*, **2015**, 29, 1550033	1.1	3
70	Control of crystallographic orientation in diamond synthesis through laser resonant vibrational excitation of precursor molecules. *Scientific Reports*, **2014**, 4, 4581	4.9	11
69	Direct writing of graphene patterns on insulating substrates under ambient conditions. *Scientific Reports*, **2014**, 4, 4892	4.9	59
68	Trench-embedding fiber taper sensor fabricated by a femtosecond laser for gas refractive index sensing. *Applied Optics*, **2014**, 53, 1028-32	1.7	13
67	A robust fiber inline interferometer sensor based on a core-offset attenuator and a microsphere-shaped splicing junction. *Optics and Laser Technology*, **2014**, 63, 76-82	4.2	9
66	All-in-one graphene fiber supercapacitor. *Nanoscale*, **2014**, 6, 6448-51	7.7	174
65	Comparison of Silica and Sapphire Fiber SERS Probes Fabricated by a Femtosecond Laser. *IEEE Photonics Technology Letters*, **2014**, 26, 1299-1302	2.2	19

64	A powerful approach to functional graphene hybrids for high performance energy-related applications. *Energy and Environmental Science*, **2014**, 7, 3699-3708	35.4	68
63	Anisotropy modulations of femtosecond laser pulse induced periodic surface structures on silicon by adjusting double pulse delay. *Optics Express*, **2014**, 22, 15820-8	3.3	14
62	Femtosecond laser pulse-train induced breakdown in fused silica: the role of seed electrons. *Journal Physics D: Applied Physics*, **2014**, 47, 435105	3	15
61	Temporal femtosecond pulse shaping dependence of laser-induced periodic surface structures in fused silica. *Journal of Applied Physics*, **2014**, 116, 033104	2.5	14
60	Crystal orientation dependence of femtosecond laser-induced periodic surface structure on (100) silicon. *Optics Letters*, **2014**, 39, 3114-7	3	17
59	Functionalized graphitic carbon nitride for metal-free, flexible and rewritable nonvolatile memory device via direct laser-writing. *Scientific Reports*, **2014**, 4, 5882	4.9	80
58	Generation and elimination of polarization-dependent ablation of cubic crystals by femtosecond laser radiation. *Optics Express*, **2014**, 22, 30170-6	3.3	10
57	Self-organizing microstructures orientation control in femtosecond laser patterning on silicon surface. *Optics Express*, **2014**, 22, 16669-75	3.3	17
56	Polarization-dependent elliptical crater morphologies formed on a silicon surface by single-shot femtosecond laser ablation. *Applied Optics*, **2014**, 53, 6742-8	1.7	4
55	Femtosecond laser high-efficiency drilling of high-aspect-ratio microholes based on free-electron-density adjustments. *Applied Optics*, **2014**, 53, 7290-5	0.2	7
54	Low-Temperature Growth of Crystalline Gallium Nitride Films Using Vibrational Excitation of Ammonia Molecules in Laser-Assisted Metalorganic Chemical Vapor Deposition. *Crystal Growth and Design*, **2014**, 14, 6248-6253	3.5	13
53	Single-pulse femtosecond laser Bessel beams drilling of high-aspect-ratio microholes based on electron dynamics control **2014**,		3
52	Graphene fibers with predetermined deformation as moisture-triggered actuators and robots. *Angewandte Chemie - International Edition*, **2013**, 52, 10482-6	16.4	238
51	Simulation of rippled structure adjustments based on localized transient electron dynamics control by femtosecond laser pulse trains. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 813-819	2.6	8
50	Selective triggering of phase change in dielectrics by femtosecond pulse trains based on electron dynamics control. *Chinese Physics B*, **2013**, 22, 045203	1.2	3
49	High-performance flexible solid-state supercapacitors based on MnO2-decorated nanocarbon electrodes. *RSC Advances*, **2013**, 3, 20613	3.7	32
48	Seed-Free Growth of Diamond Patterns on Silicon Predefined by Femtosecond Laser Direct Writing. *Crystal Growth and Design*, **2013**, 13, 716-722	3.5	5
47	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. *Advanced Materials*, **2013**, 25, 591-5	24	676

46	Frequency dependence of electron dynamics during femtosecond laser resonant photoionization of Li4 cluster. *Journal of Applied Physics*, **2013**, 114, 143105	2.5	2
45	Nonlinear ionization mechanism dependence of energy absorption in diamond under femtosecond laser irradiation. *Journal of Applied Physics*, **2013**, 113, 143106	2.5	7
44	Spontaneous reduction and assembly of graphene oxide into three-dimensional graphene network on arbitrary conductive substrates. *Scientific Reports*, **2013**, 3, 2065	4.9	140
43	High-temperature sensor based on an abrupt-taper Michelson interferometer in single-mode fiber. *Applied Optics*, **2013**, 52, 2038-41	1.7	43
42	Adjustments of dielectrics craters and their surfaces by ultrafast laser pulse train based on localized electron dynamics control. *Applied Optics*, **2013**, 52, 4035-41	1.7	4
41	Femtosecond laser-induced periodic structure adjustments based on electron dynamics control: from subwavelength ripples to double-grating structures. *Optics Letters*, **2013**, 38, 3743-6	3	25
40	Direct writing anisotropy on crystalline silicon surface by linearly polarized femtosecond laser. *Optics Letters*, **2013**, 38, 1969-71	3	18
39	Femtosecond double-pulse fabrication of hierarchical nanostructures based on electron dynamics control for high surface-enhanced Raman scattering. *Optics Letters*, **2013**, 38, 3558-61	3	16
38	Etching rate enhancement by shaped femtosecond pulse train electron dynamics control for microchannels fabrication in fused silica glass. *Optics Letters*, **2013**, 38, 4613-6	3	17
37	Seed-Free Growth of Diamond Patterns on Femtosecond Laser Processed Silicon Substrates. *Materials Research Society Symposia Proceedings*, **2013**, 1511, 1		
36	Continuous modulations of femtosecond laser-induced periodic surface structures and scanned line-widths on silicon by polarization changes. *Optics Express*, **2013**, 21, 15505-13	3.3	53
35	A new Mach-Zehnder interferometer in a thinned-cladding fiber fabricated by electric arc for high sensitivity refractive index sensing. *Optics and Lasers in Engineering*, **2012**, 50, 829-832	4.6	24
34	High sensitivity Mach□Zehnder interferometer sensors based on concatenated ultra-abrupt tapers on thinned fibers. *Optics and Laser Technology*, **2012**, 44, 640-645	4.2	26
33	Facile fabrication of light, flexible and multifunctional graphene fibers. *Advanced Materials*, **2012**, 24, 1856-61	24	464
32	Femtosecond laser processing of fused silica and aluminum based on electron dynamics control by shaping pulse trains. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 679-684	2.6	20
31	Size distribution control of metal nanoparticles using femtosecond laser pulse train: a molecular dynamics simulation. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 367-376	2.6	11
30	Graphene microtubings: controlled fabrication and site-specific functionalization. *Nano Letters*, **2012**, 12, 5879-84	11.5	104
29	First-principles electron dynamics control simulation of diamond under femtosecond laser pulse train irradiation. *Journal of Physics Condensed Matter*, **2012**, 24, 275801	1.8	18

28	High-throughput rear-surface drilling of microchannels in glass based on electron dynamics control using femtosecond pulse trains. *Optics Letters*, **2012**, 37, 2781-3	3	46
27	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. *Nanoscale*, **2012**, 4, 7563-8	7.7	79
26	Formation mechanisms of sub-wavelength ripples during femtosecond laser pulse train processing of dielectrics. *Journal Physics D: Applied Physics*, **2012**, 45, 175301	3	31
25	Two-step femtosecond laser pulse train fabrication of nanostructured substrates for highly surface-enhanced Raman scattering. *Optics Letters*, **2012**, 37, 3648-50	3	17
24	Adjustment of ablation shapes and subwavelength ripples based on electron dynamics control by designing femtosecond laser pulse trains. *Journal of Applied Physics*, **2012**, 112, 103103	2.5	11
23	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. *Light: Science and Applications*, **2012**, 1, e6-e6	16.7	136
22	Subwavelength ripples adjustment based on electron dynamics control by using shaped ultrafast laser pulse trains. *Optics Express*, **2012**, 20, 21505-11	3.3	33
21	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	0.8	1
20	Formation of graphene sheets through laser exfoliation of highly ordered pyrolytic graphite. *Applied Physics Letters*, **2011**, 98, 173108	3.4	90
19	Femtosecond laser fabricated all-optical fiber sensors with ultrahigh refractive index sensitivity: modeling and experiment. *Optics Express*, **2011**, 19, 17591-8	3.3	81
18	A high-quality Mach-Zehnder interferometer fiber sensor by femtosecond laser one-step processing. *Sensors*, **2011**, 11, 54-61	3.8	39
17	Highly Sensitive Refractive Index Optical Fiber Sensors Fabricated by a Femtosecond Laser. *IEEE Photonics Journal*, **2011**, 3, 1189-1197	1.8	22
16	Femtosecond laser fabrication of long period fiber gratings and applications in refractive index sensing. *Optics and Laser Technology*, **2011**, 43, 1420-1423	4.2	60
15	Ultra-abrupt tapered fiber Mach-Zehnder interferometer sensors. *Sensors*, **2011**, 11, 5729-39	3.8	44
14	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		1
13	Investigations of femtosecond-nanosecond dual-beam laser ablation of dielectrics. *Optics Letters*, **2010**, 35, 2490-2	3	22
12	Phase change mechanisms during femtosecond laser pulse train ablation of nickel thin films. *Journal of Applied Physics*, **2009**, 106, 064906	2.5	20
11	Fabry-Perot interferometer embedded in a glass chip fabricated by femtosecond laser. *Optics Letters*, **2009**, 34, 2408-10	3	22

10	One-step fabrication of nanostructures by femtosecond laser for surface-enhanced Raman scattering. *Optics Express*, **2009**, 17, 21581-9	3.3	52
9	A plasma model combined with an improved two-temperature equation for ultrafast laser ablation of dielectrics. *Journal of Applied Physics*, **2008**, 104, 093101	2.5	46
8	Modeling of ultrashort laser pulse-train processing of metal thin films. *International Journal of Heat and Mass Transfer*, **2007**, 50, 3461-3470	4.9	54
7	Energy Transport and Nanostructuring of Dielectrics by Femtosecond Laser Pulse Trains. *Journal of Heat Transfer*, **2006**, 128, 926-933	1.8	37
6	Improved Two-Temperature Model and Its Application in Ultrashort Laser Heating of Metal Films. *Journal of Heat Transfer*, **2005**, 127, 1167-1173	1.8	189
5	Repeatable nanostructures in dielectrics by femtosecond laser pulse trains. *Applied Physics Letters*, **2005**, 87, 151104	3.4	61
4	An improved two-temperature model for metal thin film heating by femtosecond laser pulses **2004** ,		2
3	One-Step Fabrication Method of MoS2 for High-Performance Surface-Enhanced Raman Scattering. *Journal of Physical Chemistry C*,	3.8	4
2	Conductive Writing with High Precision by Laser-Induced Point-to-Line Carbonization Strategy for Flexible Supercapacitors. *Advanced Optical Materials*,2100793	8.1	2
1	Laser-Based Growth and Treatment of Graphene for Advanced Photo- and Electro-Related Device Applications. *Advanced Functional Materials*,2203164	15.6	1