

Yong Feng Lu

List of Publications by Year in descending order

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325
papers

9,955
citations

36271

51
h-index

62565

80
g-index

354
all docs

354
docs citations

354
times ranked

9605
citing authors

#	ARTICLE	IF	CITATIONS
1	(Hf _{0.2} Zr _{0.2} Ta _{0.2} Nb _{0.2} Ti _{0.2})C high-entropy ceramics with low thermal conductivity. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4486-4491.	1.9	395
2	A Self-Powered, Sub-nanosecond-Response Solution-Processed Hybrid Perovskite Photodetector for Time-Resolved Photoluminescence Lifetime Detection. <i>Advanced Materials</i> , 2016, 28, 10794-10800.	11.1	295
3	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
4	Laser ablation of solid substrates in water and ambient air. <i>Journal of Applied Physics</i> , 2001, 89, 2400-2403.	1.1	177
5	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
6	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
7	The effects of thermal annealing on ZnO thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2000, 88, 498-502.	1.1	151
8	Laser Direct Writing of Ultrahigh Sensitive SiC-Based Strain Sensor Arrays on Elastomer toward Electronic Skins. <i>Advanced Functional Materials</i> , 2019, 29, 1806786.	7.8	147
9	Irradiation damage in (Zr _{0.25} Ta _{0.25} Nb _{0.25} Ti _{0.25})C high-entropy carbide ceramics. <i>Acta Materialia</i> , 2020, 195, 739-749.	3.8	135
10	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
11	Integration of perovskite and polymer photoactive layers to produce ultrafast response, ultraviolet-to-near-infrared, sensitive photodetectors. <i>Materials Horizons</i> , 2017, 4, 242-248.	6.4	127
12	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
13	Laser ablation of solid substrates in a water-confined environment. <i>Applied Physics Letters</i> , 2001, 79, 1396-1398.	1.5	117
14	Label-free characterization of exosome via surface enhanced Raman spectroscopy for the early detection of pancreatic cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 16, 88-96.	1.7	116
15	Two-photon polymerization: investigation of chemical and mechanical properties of resins using Raman microspectroscopy. <i>Optics Letters</i> , 2014, 39, 3034.	1.7	112
16	Enhancement of optical emission from laser-induced plasmas by combined spatial and magnetic confinement. <i>Optics Express</i> , 2011, 19, 14067.	1.7	111
17	Fast growth of graphene patterns by laser direct writing. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	107
18	All-fiber ultrafast thulium-doped fiber ring laser with dissipative soliton and noise-like output in normal dispersion by single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	102

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19	Laser writing of a subwavelength structure on silicon (100) surfaces with particle-enhanced optical irradiation. JETP Letters, 2000, 72, 457-459.	0.4	101
20	All-fiber passively mode-locked thulium-doped fiber ring laser using optically deposited graphene saturable absorbers. Applied Physics Letters, 2013, 102, .	1.5	95
21	Dry laser cleaning of particles from solid substrates: Experiments and theory. Journal of Applied Physics, 2001, 90, 2135-2142.	1.1	92
22	Transparent, flexible, and solid-state supercapacitors based on graphene electrodes. APL Materials, 2013, 1, .	2.2	89
23	High-sensitivity determination of cadmium and lead in rice using laser-induced breakdown spectroscopy. Food Chemistry, 2019, 272, 323-328.	4.2	88
24	The effect of submicron grain size on thermal stability and mechanical properties of high-entropy carbide ceramics. Journal of the American Ceramic Society, 2020, 103, 4463-4472.	1.9	86
25	Direct writing of graphene patterns on insulating substrates under ambient conditions. Scientific Reports, 2014, 4, 4892.	1.6	78
26	Sensitive determinations of Cu, Pb, Cd, and Cr elements in aqueous solutions using chemical replacement combined with surface-enhanced laser-induced breakdown spectroscopy. Optics Express, 2016, 24, 13410.	1.7	77
27	High-performance wearable strain sensors based on fragmented carbonized melamine sponges for human motion detection. Nanoscale, 2017, 9, 17948-17956.	2.8	75
28	Accuracy improvement of quantitative analysis by spatial confinement in laser-induced breakdown spectroscopy. Optics Express, 2013, 21, 18188.	1.7	74
29	Mask-free Patterning of High-Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. Advanced Materials, 2015, 27, 6238-6243.	11.1	73
30	Sensitivity improvement in the detection of V and Mn elements in steel using laser-induced breakdown spectroscopy with ring-magnet confinement. Journal of Analytical Atomic Spectrometry, 2014, 29, 2309-2314.	1.6	70
31	Simultaneous determination of La, Ce, Pr, and Nd elements in aqueous solution using surface-enhanced laser-induced breakdown spectroscopy. Talanta, 2017, 163, 127-131.	2.9	70
32	Rainbow peacock spiders inspire miniature super-iridescent optics. Nature Communications, 2017, 8, 2278.	5.8	67
33	Laser-induced nano-oxidation on hydrogen-passivated Ge (100) surfaces under a scanning tunneling microscope tip. Applied Physics Letters, 1999, 75, 2359-2361.	1.5	66
34	Background removal in soil analysis using laser-induced breakdown spectroscopy combined with standard addition method. Optics Express, 2016, 24, 2607.	1.7	66
35	Multielemental self-absorption reduction in laser-induced breakdown spectroscopy by using microwave-assisted excitation. Optics Express, 2018, 26, 12121.	1.7	66
36	Continuous modulations of femtosecond laser-induced periodic surface structures and scanned line-widths on silicon by polarization changes. Optics Express, 2013, 21, 15505.	1.7	64

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37	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
38	Ultrafast dynamics observation during femtosecond laser-material interaction. <i>International Journal of Extreme Manufacturing</i> , 2019, 1, 032004.	6.3	63
39	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
40	Interfacial microstructure of graphite flake reinforced aluminum matrix composites fabricated via hot pressing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 125-131.	3.8	62
41	Spectral Interference Elimination in Soil Analysis Using Laser-Induced Breakdown Spectroscopy Assisted by Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2017, 89, 2334-2337.	3.2	62
42	Determination of Trace Available Heavy Metals in Soil Using Laser-Induced Breakdown Spectroscopy Assisted with Phase Transformation Method. <i>Analytical Chemistry</i> , 2018, 90, 7080-7085.	3.2	62
43	Optimally enhanced optical emission in laser-induced breakdown spectroscopy by combining spatial confinement and dual-pulse irradiation. <i>Optics Express</i> , 2012, 20, 1436.	1.7	61
44	Self-absorption reduction in laser-induced breakdown spectroscopy using laser-stimulated absorption. <i>Optics Letters</i> , 2015, 40, 5224.	1.7	61
45	Accuracy improvement on polymer identification using laser-induced breakdown spectroscopy with adjusting spectral weightings. <i>Optics Express</i> , 2014, 22, 3895.	1.7	58
46	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
47	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
48	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
49	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
50	Coherent anti-Stokes Raman scattering and spontaneous Raman spectroscopy and microscopy of microalgae with nitrogen depletion. <i>Biomedical Optics Express</i> , 2012, 3, 2896.	1.5	54
51	Controllable Synthesis of Nanosized Amorphous MoS _x Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. <i>Advanced Functional Materials</i> , 2019, 29, 1806229.	7.8	54
52	Accuracy and stability improvement for meat species identification using multiplicative scatter correction and laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2018, 26, 10119.	1.7	53
53	Detection of trace phosphorus in steel using laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Applied Optics</i> , 2009, 48, 2551.	2.1	52
54	Accuracy improvement of quantitative analysis in laser-induced breakdown spectroscopy using modified wavelet transform. <i>Optics Express</i> , 2014, 22, 10233.	1.7	52

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55	Analytical-performance improvement of laser-induced breakdown spectroscopy for steel using multi-spectral-line calibration with an artificial neural network. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1623-1628.	1.6	51
56	Determination of trace heavy metal elements in aqueous solution using surface-enhanced laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2019, 27, 15091.	1.7	51
57	Laser induced removal of spherical particles from silicon wafers. <i>Journal of Applied Physics</i> , 2000, 87, 1534-1539.	1.1	50
58	Laser coloration and bleaching of amorphous WO ₃ thin film. <i>Journal of Applied Physics</i> , 2000, 88, 1082-1087.	1.1	50
59	Determinations of trace boron in superalloys and steels using laser-induced breakdown spectroscopy assisted with laser-induced fluorescence. <i>Optics Express</i> , 2016, 24, 7850.	1.7	50
60	Performance comparison of acrylic and thiol-acrylic resins in two-photon polymerization. <i>Optics Express</i> , 2016, 24, 13687.	1.7	50
61	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
62	Evaluation of sample preparation methods for rice geographic origin classification using laser-induced breakdown spectroscopy. <i>Journal of Cereal Science</i> , 2018, 80, 111-118.	1.8	50
63	Deformation Behavior of Foam Laser Targets Fabricated by Two-Photon Polymerization. <i>Nanomaterials</i> , 2018, 8, 498.	1.9	50
64	Accuracy improvement of quantitative analysis for major elements in laser-induced breakdown spectroscopy using single-sample calibration. <i>Analytica Chimica Acta</i> , 2019, 1064, 11-16.	2.6	50
65	A review of remote laser-induced breakdown spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2020, 55, 1-25.	3.4	50
66	Determination of cobalt in low-alloy steels using laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Talanta</i> , 2016, 151, 234-238.	2.9	49
67	Investigation of the self-absorption effect using spatially resolved laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 961-967.	1.6	48
68	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
69	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
70	Flame-enhanced laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2014, 22, 7686.	1.7	46
71	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
72	Investigation on self-absorption at reduced air pressure in quantitative analysis using laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2016, 24, 26521.	1.7	44

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73	On-stream analysis of iron ore slurry using laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2017, 56, 9144.	0.9	44
74	Effect of the resin viscosity on the writing properties of two-photon polymerization. <i>Optical Materials Express</i> , 2019, 9, 2601.	1.6	44
75	Direct Writing Target Structures by Two-Photon Polymerization. <i>Fusion Science and Technology</i> , 2016, 70, 295-309.	0.6	42
76	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
77	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
78	Acidity measurement of iron ore powders using laser-induced breakdown spectroscopy with partial least squares regression. <i>Optics Express</i> , 2015, 23, 7795.	1.7	41
79	Nanostructure fabrication using pulsed lasers in combination with a scanning tunneling microscope: Mechanism investigation. <i>Applied Physics Letters</i> , 2000, 76, 1200-1202.	1.5	40
80	Quantitative analysis of phosphorus in steel using laser-induced breakdown spectroscopy in air atmosphere. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1432-1437.	1.6	40
81	Determination of Carbon Content in Steels Using Laser-Induced Breakdown Spectroscopy Assisted with Laser-Induced Radical Fluorescence. <i>Analytical Chemistry</i> , 2017, 89, 8134-8139.	3.2	40
82	Accuracy improvement of boron by molecular emission with a genetic algorithm and partial least squares regression model in laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 205-209.	1.6	40
83	Laser-induced breakdown spectroscopy using laser pulses delivered by optical fibers for analyzing Mn and Ti elements in pig iron. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 403-409.	1.6	39
84	In situ imaging and control of layer-by-layer femtosecond laser thinning of graphene. <i>Nanoscale</i> , 2015, 7, 3651-3659.	2.8	39
85	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
86	Generation of high-temperature and low-density plasmas for improved spectral resolutions in laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2011, 19, 10997.	1.7	38
87	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
88	High-performance flexible solid-state supercapacitors based on MnO ₂ -decorated nanocarbon electrodes. <i>RSC Advances</i> , 2013, 3, 20613.	1.7	36
89	Laser-based micro/nanofabrication in one, two and three dimensions. <i>Frontiers of Optoelectronics</i> , 2015, 8, 351-378.	1.9	36
90	Laser-induced breakdown spectroscopy enhanced by a micro torch. <i>Optics Express</i> , 2015, 23, 15047.	1.7	36

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91	Spatially selective excitation in laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Optics Express</i> , 2017, 25, 4945.	1.7	35
92	Solid-state graphene formation via a nickel carbide intermediate phase. <i>RSC Advances</i> , 2015, 5, 99037-99043.	1.7	34
93	Tarantula-inspired Noniridescent Photonics with Long-Range Order. <i>Advanced Optical Materials</i> , 2017, 5, 1600599.	3.6	34
94	Discrimination of nasopharyngeal carcinoma serum using laser-induced breakdown spectroscopy combined with an extreme learning machine and random forest method. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2083-2088.	1.6	34
95	Precise assembly and joining of silver nanowires in three dimensions for highly conductive composite structures. <i>International Journal of Extreme Manufacturing</i> , 2019, 1, 025001.	6.3	34
96	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
97	Effect of flake powder metallurgy on thermal conductivity of graphite flakes reinforced aluminum matrix composites. <i>Journal of Materials Science</i> , 2018, 53, 8180-8192.	1.7	32
98	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
99	A plasma-image-assisted method for matrix effect correction in laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2020, 1107, 14-22.	2.6	32
100	Mechanism and elimination of bending effect in femtosecond laser deep-hole drilling. <i>Optics Express</i> , 2015, 23, 27853.	1.7	31
101	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
102	Wavelet-based interference correction for laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2401-2406.	1.6	31
103	Evaluation of the self-absorption reduction of minor elements in laser-induced breakdown spectroscopy assisted with laser-stimulated absorption. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2189-2193.	1.6	31
104	Enhancing the expansion of a plasma shockwave by crater-induced laser refocusing in femtosecond laser ablation of fused silica. <i>Photonics Research</i> , 2017, 5, 488.	3.4	31
105	<i>In situ</i> classification of rocks using stand-off laser-induced breakdown spectroscopy with a compact spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 461-467.	1.6	31
106	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
107	Polar coupling enabled nonlinear optical filtering at MoS ₂ /ferroelectric heterointerfaces. <i>Nature Communications</i> , 2020, 11, 1422.	5.8	31
108	Additive manufacturing of copper/diamond composites for thermal management applications. <i>Manufacturing Letters</i> , 2020, 24, 61-66.	1.1	31

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109	Fast Growth of Diamond Crystals in Open Air by Combustion Synthesis with Resonant Laser Energy Coupling. <i>Crystal Growth and Design</i> , 2010, 10, 1762-1766.	1.4	30
110	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
111	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
112	An innovative process to fabricate copper/diamond composite films for thermal management applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1746-1753.	3.8	29
113	Quantitative analyses of Mn, V, and Si elements in steels using a portable laser-induced breakdown spectroscopy system based on a fiber laser. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 767-772.	1.6	29
114	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
115	Electronic and optical properties of carbon nitride thin films synthesized by laser ablation under ion beam bombardment. <i>Journal of Applied Physics</i> , 1998, 84, 2133-2137.	1.1	28
116	Quasiparticle band structures of wurtzite and rock-salt ZnO. <i>Journal of Applied Physics</i> , 2002, 91, 1339-1343.	1.1	28
117	Determination of boron with molecular emission using laser-induced breakdown spectroscopy combined with laser-induced radical fluorescence. <i>Optics Express</i> , 2018, 26, 2634.	1.7	28
118	Accuracy improvement of iron ore analysis using laser-induced breakdown spectroscopy with a hybrid sparse partial least squares and least-squares support vector machine model. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1330-1335.	1.6	28
119	Femtosecond Photon-Mediated Plasma Enhances Photosynthesis of Plasmonic Nanostructures and Their SERS Applications. <i>Small</i> , 2019, 15, e1804899.	5.2	28
120	A review of processing of Cu/C base plate composites for interfacial control and improved properties. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 012002.	6.3	28
121	Transparent interconnections formed by rapid single-step fabrication of graphene patterns. <i>Applied Physics Letters</i> , 2011, 99, 053103.	1.5	27
122	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO-TiO ₂ photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16430-16438.	5.2	27
123	One-point and multi-line calibration method in laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2018, 26, 22926.	1.7	27
124	Scalable and controlled creation of nanoholes in graphene by microwave-assisted chemical etching for improved electrochemical properties. <i>Carbon</i> , 2020, 161, 880-891.	5.4	27
125	Investigation of the self-absorption effect using time-resolved laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2019, 27, 4261.	1.7	27
126	Theoretical analysis of laser-induced periodic structures at silicon-dioxide/silicon and silicon-dioxide/aluminum interfaces. <i>Applied Physics Letters</i> , 1997, 71, 3439-3440.	1.5	26

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127	Laser opto-ultrasonic dual detection for simultaneous compositional, structural, and stress analyses for wire + arc additive manufacturing. Additive Manufacturing, 2020, 31, 100956.	1.7	26
128	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
129	Cylindrical shockwave-induced compression mechanism in femtosecond laser Bessel pulse micro-drilling of PMMA. Applied Physics Letters, 2017, 110, .	1.5	25
130	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
131	Characterization of the strain-rate dependent mechanical response of single cell-cell junctions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
132	Spreading a water droplet through filter paper on the metal substrate for surface-enhanced laser-induced breakdown spectroscopy. Optics Express, 2018, 26, 30456.	1.7	25
133	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
134	Copper-Carbon and Aluminum-Carbon Composites Fabricated by Powder Metallurgy Processes. Journal of Physics: Conference Series, 2014, 525, 012015.	0.3	24
135	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
136	Nanopillar arrays with nanoparticles fabricated by a femtosecond laser pulse train for highly sensitive SERRS. Optics Letters, 2015, 40, 2045.	1.7	24
137	Ultraviolet laser photolysis of hydrocarbons for nondiamond carbon suppression in chemical vapor deposition of diamond films. Light: Science and Applications, 2018, 7, 17177-17177.	7.7	24
138	Laser-induced breakdown spectroscopy assisted chemometric methods for rice geographic origin classification. Applied Optics, 2018, 57, 8297.	0.9	24
139	Femtosecond laser direct writing in transparent materials based on nonlinear absorption. MRS Bulletin, 2016, 41, 975-983.	1.7	23
140	One-step selective formation of silver nanoparticles on atomic layered MoS ₂ by laser-induced defect engineering and photoreduction. Journal of Materials Chemistry C, 2017, 5, 8883-8892.	2.7	23
141	Investigation on self-absorption reduction in laser-induced breakdown spectroscopy assisted with spatially selective laser-stimulated absorption. Journal of Analytical Atomic Spectrometry, 2018, 33, 1683-1688.	1.6	23
142	The pH effect on the detection of heavy metals in wastewater by laser-induced breakdown spectroscopy coupled with a phase transformation method. Journal of Analytical Atomic Spectrometry, 2020, 35, 198-203.	1.6	23
143	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser Shaping Fabrication. Advanced Optical Materials, 2020, 8, 2000136.	3.6	23
144	Laser plasma interaction at an early stage of laser ablation. Journal of Applied Physics, 1999, 85, 2899-2903.	1.1	22

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145	Electric signal detection at the early stage of laser ablation in air. Journal of Applied Physics, 1999, 86, 2812-2817.	1.1	22
146	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.	1.1	22
147	Controllable high-throughput high-quality femtosecond laser-enhanced chemical etching by temporal pulse shaping based on electron density control. Scientific Reports, 2015, 5, 13202.	1.6	22
148	Quantitative analysis of steel samples using laser-induced breakdown spectroscopy with an artificial neural network incorporating a genetic algorithm. Applied Optics, 2017, 56, 935.	0.9	22
149	Temporal-spatial measurement of electron relaxation time in femtosecond laser induced plasma using two-color pump-probe imaging technique. Applied Physics Letters, 2018, 112, .	1.5	22
150	Effects of laser shock peening with different coverage layers on fatigue behaviour and fractural morphology of Fe-Cr alloy in NaCl solution. Journal of Alloys and Compounds, 2019, 773, 168-179.	2.8	22
151	Laser-induced breakdown spectroscopy of liquid solutions: a comparative study on the forms of liquid surface and liquid aerosol. Applied Optics, 2016, 55, 7406.	2.1	21
152	Fabrication of metal/semiconductor nanocomposites by selective laser nano-welding. Nanoscale, 2017, 9, 7012-7015.	2.8	21
153	Controlled defect creation and removal in graphene and MoS ₂ monolayers. Nanoscale, 2017, 9, 8997-9008.	2.8	21
154	Maskless Micro/Nanopatterning and Bipolar Electrical Rectification of MoS ₂ Flakes Through Femtosecond Laser Direct Writing. ACS Applied Materials & Interfaces, 2019, 11, 39334-39341.	4.0	21
155	Determination of chlorine with radical emission using laser-induced breakdown spectroscopy coupled with partial least square regression. Talanta, 2019, 198, 93-96.	2.9	21
156	Dual-functional Cu _x O/Cu electrodes for supercapacitors and non-enzymatic glucose sensors fabricated by femtosecond laser enhanced thermal oxidation. Journal of Alloys and Compounds, 2020, 815, 152105.	2.8	21
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