

# Yong Feng Lu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5239816/yong-feng-lu-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

311  
papers

7,138  
citations

44  
h-index

66  
g-index

354  
ext. papers

8,685  
ext. citations

4.8  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
3 <sup>11</sup>	First-principles study of the impact of chemical doping and functional groups on the absorption spectra of graphene. <i>Semiconductor Science and Technology</i> , <b>2022</b> , 37, 025013	1.8	0
3 <sup>10</sup>	Avoiding Self-Reversed D Lines in Laser-Induced Breakdown Spectroscopy of Trace-Level Sodium in Soil. <i>Journal of Applied Spectroscopy</i> , <b>2021</b> , 88, 1061	0.7	
3 <sup>09</sup>	The effects of maturation and aging on the rotator cuff tendon-to-bone interface. <i>FASEB Journal</i> , <b>2021</b> , 35, e22066	0.9	1
3 <sup>08</sup>	Surface strengthening of single-crystal alumina by high-temperature laser shock peening. <i>Materials Research Letters</i> , <b>2021</b> , 9, 155-161	7.4	1
3 <sup>07</sup>	Manufacturing of complex diamond-based composite structures via laser powder-bed fusion. <i>Additive Manufacturing</i> , <b>2021</b> , 40, 101927	6.1	5
3 <sup>06</sup>	Spontaneous formation of multilayer refractory carbide coatings in a molten salt media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	2
3 <sup>05</sup>	Direct selective laser sintering of hexagonal barium titanate ceramics. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 1271-1280	3.8	3
3 <sup>04</sup>	Laser vibrational excitation of radicals to prevent crystallinity degradation caused by boron doping in diamond. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	2
3 <sup>03</sup>	One-Step Fabrication Method of GaN Films for Internal Quantum Efficiency Enhancement and Their Ultrafast Mechanism Investigation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7688-7697	9.5	2
3 <sup>02</sup>	Characterization of the strain-rate-dependent mechanical response of single cell-cell junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
3 <sup>01</sup>	Elimination of blind zone in nanoparticle removal on silicon wafers using a double-beam laser shockwave cleaning process. <i>Applied Surface Science</i> , <b>2021</b> , 539, 148057	6.7	6
3 <sup>00</sup>	Controlling Interfacial Exchanges in Liquid Phase Bonding Enables Formation of Strong and Reliable Cu <sub>3</sub> Sn Soldering for High-Power and Temperature Applications. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 921-928	4	1
299	Blind-zone formation in laser shockwave nano-cleaning. <i>Optics Express</i> , <b>2021</b> , 29, 27587-27599	3.3	1
298	Correlation of the mechanical properties of Cu/C composite materials with the chemistry of Cu C interfacial zone. <i>Materials Characterization</i> , <b>2021</b> , 179, 111364	3.9	2
297	Tailoring the microstructure of an oriented graphite flake/Al composite produced by powder metallurgy for achieving high thermal conductivity. <i>Diamond and Related Materials</i> , <b>2021</b> , 118, 108513	3.5	1
296	Micro/nano processing of natural silk fibers with near-field enhanced ultrafast laser. <i>Science China Materials</i> , <b>2020</b> , 63, 1300-1309	7.1	8
295	Irradiation damage in (Zr <sub>0.25</sub> Ta <sub>0.25</sub> Nb <sub>0.25</sub> Ti <sub>0.25</sub> )C high-entropy carbide ceramics. <i>Acta Materialia</i> , <b>2020</b> , 195, 739-749	8.4	49

294	Polar coupling enabled nonlinear optical filtering at MoS/ferroelectric heterointerfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 1422	17.4	20
293	The effect of submicron grain size on thermal stability and mechanical properties of high-entropy carbide ceramics. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 4463-4472	3.8	31
292	Ultra-low temperature fabrication of copper carbon fibre composites by hydrothermal sintering for heat sinks with enhanced thermal efficiency. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2020</b> , 133, 105858	8.4	2
291	A plasma-image-assisted method for matrix effect correction in laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1107, 14-22	6.6	11
290	Interference correction for laser-induced breakdown spectroscopy using a deconvolution algorithm. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 762-766	3.7	2
289	A review of processing of Cu/C base plate composites for interfacial control and improved properties. <i>International Journal of Extreme Manufacturing</i> , <b>2020</b> , 2, 012002	7.9	15
288	Scalable and controlled creation of nanoholes in graphene by microwave-assisted chemical etching for improved electrochemical properties. <i>Carbon</i> , <b>2020</b> , 161, 880-891	10.4	12
287	Determination of fluorine in copper ore using laser-induced breakdown spectroscopy assisted by the SrF molecular emission band. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 754-761	3.7	11
286	Modulation and mechanism of shockwaves induced on metals by femtosecond laser double-pulse. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 165104	3	1
285	Additive manufacturing of copper/diamond composites for thermal management applications. <i>Manufacturing Letters</i> , <b>2020</b> , 24, 61-66	4.5	15
284	Chlorine and sulfur determination in water using indirect laser-induced breakdown spectroscopy. <i>Talanta</i> , <b>2020</b> , 214, 120849	6.2	9
283	Controllable formation of laser-induced periodic surface structures on ZnO film by temporally shaped femtosecond laser scanning. <i>Optics Letters</i> , <b>2020</b> , 45, 2411-2414	3	6
282	Laser-induced breakdown spectroscopy of ammonia gas with resonant vibrational excitation. <i>Optics Express</i> , <b>2020</b> , 28, 1197-1205	3.3	3
281	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 80	16.7	31
280	The pH effect on the detection of heavy metals in wastewater by laser-induced breakdown spectroscopy coupled with a phase transformation method. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2020</b> , 35, 198-203	3.7	14
279	Design of tailored oxide-carbide coating on carbon fibers for a robust copper/carbon interphase. <i>Carbon</i> , <b>2020</b> , 158, 607-614	10.4	4
278	Laser opto-ultrasonic dual detection for simultaneous compositional, structural, and stress analyses for wire + arc additive manufacturing. <i>Additive Manufacturing</i> , <b>2020</b> , 31, 100956	6.1	14
277	Dynamics and its modulation of laser-induced plasma and shockwave in femtosecond double-pulse ablation of silicon. <i>Applied Physics Express</i> , <b>2020</b> , 13, 012006	2.4	5

276	Structural colors with angle-insensitive optical properties generated by Morpho-inspired 2PP structures. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	6
275	A review of remote laser-induced breakdown spectroscopy. <i>Applied Spectroscopy Reviews</i> , <b>2020</b> , 55, 1-25	4.5	29
274	Investigation of excitation interference in laser-induced breakdown spectroscopy assisted with laser-induced fluorescence for chromium determination in low-alloy steels. <i>Optics and Lasers in Engineering</i> , <b>2020</b> , 124, 105834	4.6	4
273	Dual-functional Cu <sub>x</sub> O/Cu electrodes for supercapacitors and non-enzymatic glucose sensors fabricated by femtosecond laser enhanced thermal oxidation. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152105	5.7	11
272	Synergetic Effect of Discontinuous Carbon Fibers and Graphite Flakes on Thermo-Mechanical Properties of Aluminum Matrix Composites Fabricated by Solid-Liquid Phase Sintering. <i>Metals and Materials International</i> , <b>2020</b> , 26, 155-167	2.4	6
271	Polarization Multiplexing Terahertz Metasurfaces through Spatial Femtosecond Laser-Shaping Fabrication. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000136	8.1	10
270	Controllable photon energy deposition efficiency in laser processing of fused silica by temporally shaped femtosecond pulse: Experimental and theoretical study. <i>Optics and Laser Technology</i> , <b>2020</b> , 128, 106265	4.2	
269	Maskless Micro/Nanopatterning and Bipolar Electrical Rectification of MoS Flakes Through Femtosecond Laser Direct Writing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39334-39341	9.5	9
268	Hybrid superhydrophilic-superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 48	7.7	15
267	Enhancing charge transfer with foreign molecules through femtosecond laser induced MoS defect sites for photoluminescence control and SERS enhancement. <i>Nanoscale</i> , <b>2019</b> , 11, 485-494	7.7	25
266	The temporal-spatial evolution of electron dynamics induced by femtosecond double pulses. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 030901	1.4	7
265	Determination of chlorine with radical emission using laser-induced breakdown spectroscopy coupled with partial least square regression. <i>Talanta</i> , <b>2019</b> , 198, 93-96	6.2	12
264	Anisotropic Enhancement of Second-Harmonic Generation in Monolayer and Bilayer MoS by Integrating with TiO Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 4195-4204	11.5	29
263	Effect of titanium and zirconium carbide interphases on the thermal conductivity and interfacial heat transfers in copper/diamond composite materials. <i>AIP Advances</i> , <b>2019</b> , 9, 055315	1.5	8
262	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. <i>Nanophotonics</i> , <b>2019</b> , 8, 869-878	6.3	22
261	Laser-induced molecular fluorescence diagnosis of aluminum monoxide evolution in laser-induced plasma. <i>Laser Physics Letters</i> , <b>2019</b> , 16, 055701	1.5	3
260	Beam Manipulation Mechanisms of Dielectric Metasurfaces. <i>ACS Omega</i> , <b>2019</b> , 4, 7467-7473	3.9	1
259	Precise assembly and joining of silver nanowires in three dimensions for highly conductive composite structures. <i>International Journal of Extreme Manufacturing</i> , <b>2019</b> , 1, 025001	7.9	24

258	Manipulation of LIPSS orientation on silicon surfaces using orthogonally polarized femtosecond laser double-pulse trains. <i>Optics Express</i> , <b>2019</b> , 27, 9782-9793	3.3	20
257	Accuracy improvement of quantitative analysis for major elements in laser-induced breakdown spectroscopy using single-sample calibration. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1064, 11-16	6.6	37
256	Micro-destructive analysis with high sensitivity using double-pulse resonant laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 1198-1204	3.7	11
255	High-sensitivity determination of cadmium and lead in rice using laser-induced breakdown spectroscopy. <i>Food Chemistry</i> , <b>2019</b> , 272, 323-328	8.5	57
254	Cylindrically Focused Nonablative Femtosecond Laser Processing of Long-Range Uniform Periodic Surface Structures with Tunable Diffraction Efficiency. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900706	8.1	25
253	A quantitative analysis method assisted by image features in laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1082, 30-36	6.6	10
252	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> , <b>2019</b> , 2, 4933-4941	5.6	4
251	Multiscale Visualization of Colloidal Particle Lens Array Mediated Plasma Dynamics for Dielectric Nanoparticle Enhanced Femtosecond Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9952-9961	7.8	25
250	Ultrafast dynamics observation during femtosecond laser-material interaction. <i>International Journal of Extreme Manufacturing</i> , <b>2019</b> , 1, 032004	7.9	39
249	Isotopic determination with molecular emission using laser-induced breakdown spectroscopy and laser-induced radical fluorescence. <i>Optics Express</i> , <b>2019</b> , 27, 470-482	3.3	8
248	Investigation of the self-absorption effect using time-resolved laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2019</b> , 27, 4261-4270	3.3	12
247	Direct observation of structure-assisted filament splitting during ultrafast multiple-pulse laser ablation. <i>Optics Express</i> , <b>2019</b> , 27, 10050-10057	3.3	8
246	Determination of trace heavy metal elements in aqueous solution using surface-enhanced laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2019</b> , 27, 15091-15099	3.3	27
245	Effect of the resin viscosity on the writing properties of two-photon polymerization. <i>Optical Materials Express</i> , <b>2019</b> , 9, 2601	2.6	26
244	Experimental investigation of laser-induced breakdown spectroscopy assisted with laser-induced fluorescence for trace aluminum detection in steatite ceramics. <i>Applied Optics</i> , <b>2019</b> , 58, 1895-1899	1.7	1
243	Femtosecond Photon-Mediated Plasma Enhances Photosynthesis of Plasmonic Nanostructures and Their SERS Applications. <i>Small</i> , <b>2019</b> , 15, e1804899	11	16
242	Aluminum/Carbon Composites Materials Fabricated by the Powder Metallurgy Process. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
241	Classification accuracy improvement by data preprocessing in handheld laser-induced breakdown spectroscopy. <i>Analytical Methods</i> , <b>2019</b> , 11, 5177-5184	3.2	5

240	Controllable Synthesis of Nanosized Amorphous MoS <sub>x</sub> Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806229	15.6	33
239	Laser Direct Writing of Ultrahigh Sensitive SiC-Based Strain Sensor Arrays on Elastomer toward Electronic Skins. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806786	15.6	102
238	Refractory Vertically Aligned Carbon Nanotube/Boron Nitride Nanocomposites for Scalable Electrical Anisotropic Interconnects. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 100-108	5.6	1
237	Sensitive determination of silicon contents in low-alloy steels using micro laser-induced breakdown spectroscopy assisted with laser-induced fluorescence. <i>Talanta</i> , <b>2019</b> , 194, 697-702	6.2	11
236	Chemical etching mechanisms and crater morphologies pre-irradiated by temporally decreasing pulse trains of femtosecond laser. <i>Applied Surface Science</i> , <b>2019</b> , 469, 44-49	6.7	4
235	Label-free characterization of exosome via surface enhanced Raman spectroscopy for the early detection of pancreatic cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 16, 88-96	6	76
234	Effects of laser shock peening with different coverage layers on fatigue behaviour and fractural morphology of Fe-Cr alloy in NaCl solution. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 168-179	5.7	14
233	High performance 3D CuO/Cu flowers supercapacitor electrodes by femtosecond laser enhanced electrochemical anodization. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 273-282	6.7	24
232	Effect of flake powder metallurgy on thermal conductivity of graphite flakes reinforced aluminum matrix composites. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 8180-8192	4.3	21
231	Effects of Laser Photolysis of Hydrocarbons at 193 and 248 nm on Chemical Vapor Deposition of Diamond Films. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2458-2466	3.5	3
230	Determination of yttrium in titanium alloys using laser-induced breakdown spectroscopy assisted with laser-induced fluorescence. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 658-662	3.7	12
229	Metal (Ag, Pt)/MoS <sub>2</sub> Hybrids Greenly Prepared Through Photochemical Reduction of Femtosecond Laser Pulses for SERS and HER. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7704-7714	8.3	38
228	Fabrication of Low-Density Shock-Propagation Targets Using Two-Photon Polymerization. <i>Fusion Science and Technology</i> , <b>2018</b> , 73, 153-165	1.1	8
227	In situ classification of rocks using stand-off laser-induced breakdown spectroscopy with a compact spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 461-467	3.7	24
226	Electrons dynamics control by shaping femtosecond laser pulses in micro/nanofabrication: modeling, method, measurement and application. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 17134	16.7	180
225	Evaluation of sample preparation methods for rice geographic origin classification using laser-induced breakdown spectroscopy. <i>Journal of Cereal Science</i> , <b>2018</b> , 80, 111-118	3.8	37
224	A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. <i>Nano Letters</i> , <b>2018</b> , 18, 2021-2032	11.5	28
223	Solid-liquid co-existent phase process: Towards fully dense and thermally efficient Cu/C composite materials. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 738, 292-300	5.7	11



222	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 &amp; Interfaces</i> , <b>2018</b> , 10, 1297-1305	9.5	35
221	Formation of Cu Nanodots on Diamond Surface to Improve Heat Transfer in Cu/D Composites. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700894	3.5	8
220	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> , <b>2018</b> , 33, 205-209	3.7	33
219	Hierarchical laser-induced periodic surface structures induced by femtosecond laser on the surface of a ZnO film. <i>Applied Physics Express</i> , <b>2018</b> , 11, 052703	2.4	6
218	Ablation enhancement of metal in ultrashort double-pulse experiments. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 261906	3.4	11
217	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO $\pi$ iO $2\pi$ photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16430-16438	13	20
216	Determination of boron with molecular emission using laser-induced breakdown spectroscopy combined with laser-induced radical fluorescence. <i>Optics Express</i> , <b>2018</b> , 26, 2634-2642	3.3	25
215	Multielemental self-absorption reduction in laser-induced breakdown spectroscopy by using microwave-assisted excitation. <i>Optics Express</i> , <b>2018</b> , 26, 12121	3.3	38
214	Analytical-performance improvement of laser-induced breakdown spectroscopy for the processing degree of wheat flour using a continuous wavelet transform. <i>Applied Optics</i> , <b>2018</b> , 57, 3730-3737	1.7	11
213	Accuracy and stability improvement for meat species identification using multiplicative scatter correction and laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 10119-10127	3.3	29
212	Long-term repeatability improvement of quantitative LIBS using a two-point standardization method. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 1564-1570	3.7	6
211	Laser sintering of cold-pressed Cu powder without binder use. <i>Materialia</i> , <b>2018</b> , 3, 178-181	3.2	6
210	One-point and multi-line calibration method in laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 22926-22933	3.3	18
209	Investigation on self-absorption reduction in laser-induced breakdown spectroscopy assisted with spatially selective laser-stimulated absorption. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 1683-1688	3.7	16
208	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> , <b>2018</b> , 26, 21960-21968	3.3	16
207	Deformation Behavior of Foam Laser Targets Fabricated by Two-Photon Polymerization. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	26
206	Determination of potassium in ceramic raw materials using laser-induced breakdown spectroscopy combined with profile fitting. <i>Applied Optics</i> , <b>2018</b> , 57, 6451-6455	1.7	7
205	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> , <b>2018</b> , 33, 1330-1335	3.7	21

204	Structure-Mediated Excitation of Air Plasma and Silicon Plasma Expansion in Femtosecond Laser Pulses Ablation. <i>Research</i> , <b>2018</b> , 2018, 5709748	7.8	11
203	Laser-induced breakdown spectroscopy assisted chemometric methods for rice geographic origin classification. <i>Applied Optics</i> , <b>2018</b> , 57, 8297-8302	1.7	18
202	Diagnosis of nasopharyngeal carcinoma from serum samples using hyperspectral imaging combined with a chemometric method. <i>Optics Express</i> , <b>2018</b> , 26, 28661-28671	3.3	9
201	Classification accuracy improvement of laser-induced breakdown spectroscopy based on histogram of oriented gradients features of spectral images. <i>Optics Express</i> , <b>2018</b> , 26, 28996-29004	3.3	4
200	Accuracy improvement of quantitative analysis in spatially resolved fiber-optic laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 30409-30419	3.3	5
199	Spreading a water droplet through filter paper on the metal substrate for surface-enhanced laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 30456-30465	3.3	11
198	Broadband plasmonic-enhanced forward and backward multiplex coherent anti-Stokes Raman scattering microscopy. <i>Optical Engineering</i> , <b>2018</b> , 57, 1	1.1	
197	New spectral reduction algorithm for echelle spectrometer in laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 34131-34141	3.3	2
196	Simple and robust generation of ultrafast laser pulse trains using polarization-independent parallel-aligned thin films. <i>Optics and Laser Technology</i> , <b>2018</b> , 101, 298-303	4.2	3
195	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> , <b>2018</b> , 33, 2083-2088	3.7	15
194	50 years of the Laser Institute of America. <i>Journal of Laser Applications</i> , <b>2018</b> , 30, 041001	2.1	
193	Flexible Gray-Scale Surface Patterning Through Spatiotemporal-Interference-Based Femtosecond Laser Shaping. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1801021	8.1	5
192	Analytical-performance improvement of aqueous solution by chemical replacement combined with surface-enhanced laser-induced breakdown spectroscopy. <i>Applied Optics</i> , <b>2018</b> , 57, 7135-7139	1.7	6
191	Determination of Trace Available Heavy Metals in Soil Using Laser-Induced Breakdown Spectroscopy Assisted with Phase Transformation Method. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7080-7085	7.8	50
190	(Hf <sub>0.2</sub> Zr <sub>0.2</sub> Ta <sub>0.2</sub> Nb <sub>0.2</sub> Ti <sub>0.2</sub> )C high-entropy ceramics with low thermal conductivity. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4486-4491	3.8	223
189	Ultraviolet laser photolysis of hydrocarbons for nondiamond carbon suppression in chemical vapor deposition of diamond films. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 17177	16.7	18
188	Temporal-spatial measurement of electron relaxation time in femtosecond laser induced plasma using two-color pump-probe imaging technique. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 191101	3.4	14
187	Spectral Interference Elimination in Soil Analysis Using Laser-Induced Breakdown Spectroscopy Assisted by Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2334-2337	7.8	50



186	A compact field-portable double-pulse laser system to enhance laser induced breakdown spectroscopy. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 023109	1.7	13
185	Shape-Controllable Gold Nanoparticle-MoS Hybrids Prepared by Tuning Edge-Active Sites and Surface Structures of MoS via Temporally Shaped Femtosecond Pulses. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7447-7455	9.5	40
184	Reducing graphene-metal contact resistance via laser nano-welding <b>2017</b> ,		1
183	Cylindrical shockwave-induced compression mechanism in femtosecond laser Bessel pulse micro-drilling of PMMA. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 161907	3.4	20
182	Emission enhancement of femtosecond laser-induced breakdown spectroscopy by combining nanoparticle and dual-pulse on crystal SiO <sub>2</sub> . <i>Optics and Laser Technology</i> , <b>2017</b> , 93, 194-200	4.2	25
181	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> , <b>2017</b> , 123, 1	2.6	3
180	Controllable Si (100) micro/nanostructures by chemical-etching-assisted femtosecond laser single-pulse irradiation. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 181907	3.4	6
179	Fabrication of metal/semiconductor nanocomposites by selective laser nano-welding. <i>Nanoscale</i> , <b>2017</b> , 9, 7012-7015	7.7	17
178	Spectroscopic Sensing of O <sub>2</sub> /H <sub>2</sub> /CH <sub>4</sub> Flames for Diamond Growth Using Femtosecond Filamentation. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3443-3449	3.5	0
177	Ultrafast response of dielectric properties of monolayer phosphorene to femtosecond laser. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 173105	2.5	6
176	Large-Area 2D/3D MoS <sub>2</sub> /MoO <sub>2</sub> Heterostructures with Thermally Stable Exciton and Intriguing Electrical Transport Behaviors. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600335	6.4	20
175	Laser-Assisted Nanowelding of Graphene to Metals: An Optical Approach toward Ultralow Contact Resistance. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700294	4.6	11
174	Fast Growth of GaN Epilayers via Laser-Assisted Metal-Organic Chemical Vapor Deposition for Ultraviolet Photodetector Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21539-21547	9.5	20
173	Controlled defect creation and removal in graphene and MoS monolayers. <i>Nanoscale</i> , <b>2017</b> , 9, 8997-9008	7.7	15
172	Integration of perovskite and polymer photoactive layers to produce ultrafast response, ultraviolet-to-near-infrared, sensitive photodetectors. <i>Materials Horizons</i> , <b>2017</b> , 4, 242-248	14.4	101
171	Low-adhesive superhydrophobic surface-enhanced Raman spectroscopy substrate fabricated by femtosecond laser ablation for ultratrace molecular detection. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 777-784	7.3	44
170	Thermally Stable and Electrically Conductive, Vertically Aligned Carbon Nanotube/Silicon Infiltrated Composite Structures for High-Temperature Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37340-37349	9.5	10
169	Wavelet-based interference correction for laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 2401-2406	3.7	26

168	High-performance wearable strain sensors based on fragmented carbonized melamine sponges for human motion detection. <i>Nanoscale</i> , <b>2017</b> , 9, 17948-17956	7.7	58
167	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> , <b>2017</b> , 32, 2189-2193	3.7	23
166	Preparation of Monolayer MoS Quantum Dots using Temporally Shaped Femtosecond Laser Ablation of Bulk MoS Targets in Water. <i>Scientific Reports</i> , <b>2017</b> , 7, 11182	4.9	99
165	Discrimination of tumor from normal tissues in a mouse model of breast cancer using CARS spectroscopy combined with PC-DFA methodology. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 1166-1170 <sup>2-3</sup>	2.3	6
164	Isotope signature characterization of Pb and U in open air by laser-ablation mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1932-1937	3.7	1
163	One-step selective formation of silver nanoparticles on atomic layered MoS <sub>2</sub> by laser-induced defect engineering and photoreduction. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8883-8892	7.1	16
162	A dual-functional surface with hierarchical micro/nanostructure arrays for self-cleaning and antireflection. <i>RSC Advances</i> , <b>2017</b> , 7, 49649-49654	3.7	6
161	Electron dynamics and optical properties modulation of monolayer MoS <sub>2</sub> by femtosecond laser pulse: a simulation using time-dependent density functional theory. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	1
160	Determination of Carbon Content in Steels Using Laser-Induced Breakdown Spectroscopy Assisted with Laser-Induced Radical Fluorescence. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8134-8139	7.8	37
159	Simultaneous determination of La, Ce, Pr, and Nd elements in aqueous solution using surface-enhanced laser-induced breakdown spectroscopy. <i>Talanta</i> , <b>2017</b> , 163, 127-131	6.2	48
158	Tarantula-Inspired Noniridescent Photonics with Long-Range Order. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600599	8.1	28
157	Laser shock processing of polycrystalline alumina ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 911-919	3.8	10
156	A portable multi-collector system based on an artificial optical compound eye for stand-off laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1975-1979	3.7	5
155	Controllable Plasmonic Nanostructures induced by Dual-wavelength Femtosecond Laser Irradiation. <i>Scientific Reports</i> , <b>2017</b> , 7, 17333	4.9	15
154	Rainbow peacock spiders inspire miniature super-iridescent optics. <i>Nature Communications</i> , <b>2017</b> , 8, 22787.4	7.4	52
153	On-stream analysis of iron ore slurry using laser-induced breakdown spectroscopy. <i>Applied Optics</i> , <b>2017</b> , 56, 9144-9149	1.7	35
152	Spatially selective excitation in laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Optics Express</i> , <b>2017</b> , 25, 4945-4951	3.3	31
151	Time-resolved resonance fluorescence spectroscopy for study of chemical reactions in laser-induced plasmas. <i>Optics Express</i> , <b>2017</b> , 25, 27000-27007	3.3	6

150	Enhancing the expansion of a plasma shockwave by crater-induced laser refocusing in femtosecond laser ablation of fused silica. <i>Photonics Research</i> , <b>2017</b> , 5, 488	6	20
149	Quantitative analysis of steel samples using laser-induced breakdown spectroscopy with an artificial neural network incorporating a genetic algorithm. <i>Applied Optics</i> , <b>2017</b> , 56, 935-941	1.7	14
148	Nanoscale material redistribution induced by spatially modulated femtosecond laser pulses for flexible high-efficiency surface patterning. <i>Optics Express</i> , <b>2017</b> , 25, 31431-31442	3.3	10
147	Performance comparison of acrylic and thiol-acrylic resins in two-photon polymerization. <i>Optics Express</i> , <b>2016</b> , 24, 13687-701	3.3	38
146	A Self-Powered, Sub-nanosecond-Response Solution-Processed Hybrid Perovskite Photodetector for Time-Resolved Photoluminescence-Lifetime Detection. <i>Advanced Materials</i> , <b>2016</b> , 28, 10794-10800	24	230
145	Sensitive determinations of Cu, Pb, Cd, and Cr elements in aqueous solutions using chemical replacement combined with surface-enhanced laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2016</b> , 24, 13410-7	3.3	55
144	Rapid screening of testosterone in the aquatic environment using direct analysis in real-time (DART) mass spectrometry. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	7
143	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> , <b>2016</b> , 31, 767-772 <sup>3.7</sup>		23
142	Determination of cobalt in low-alloy steels using laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Talanta</i> , <b>2016</b> , 151, 234-238	6.2	40
141	Investigation of the self-absorption effect using spatially resolved laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 961-967	3.7	36
140	Multimodal Nonlinear Optical Imaging of MoS <sub>2</sub> and MoSe <sub>2</sub> Based van der Waals Heterostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 3766-75	16.7	97
139	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> , <b>2016</b> , 122, 1	2.6	23
138	Analysis of ion doping profiles in Yb-doped fiber preforms using laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 492-496	3.7	6
137	Controllable anisotropic wetting characteristics on silicon patterned by slit-based spatial focusing of femtosecond laser. <i>Optics Express</i> , <b>2016</b> , 24, 25732-25741	3.3	7
136	Investigation on self-absorption at reduced air pressure in quantitative analysis using laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2016</b> , 24, 26521-26528	3.3	33
135	Laser-Directed Assembly of Aligned Carbon Nanotubes in Three Dimensions for Multifunctional Device Fabrication. <i>Advanced Materials</i> , <b>2016</b> , 28, 2002-9	24	94
134	Detection of Trace Elements in Active Luminescent Glass Using Laser-induced Breakdown Spectroscopy Combined with Laser-induced Fluorescence. <i>Chinese Journal of Analytical Chemistry</i> , <b>2016</b> , 44, 1042-1046	1.6	8
133	Femtosecond laser direct writing in transparent materials based on nonlinear absorption. <i>MRS Bulletin</i> , <b>2016</b> , 41, 975-983	3.2	11

132	Direct Writing Target Structures by Two-Photon Polymerization. <i>Fusion Science and Technology</i> , <b>2016</b> , 70, 295-309	1.1	28
131	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> , <b>2016</b> , 120, 105303	2.5	6
130	Development of a compact vertical-cavity surface-emitting laser end-pumped actively Q-switched laser for laser-induced breakdown spectroscopy. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 033114	1.7	3
129	Determinations of trace boron in superalloys and steels using laser-induced breakdown spectroscopy assisted with laser-induced fluorescence. <i>Optics Express</i> , <b>2016</b> , 24, 7850-7	3.3	47
128	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> , <b>2016</b> , 122, 1	2.6	5
127	Background removal in soil analysis using laser-induced breakdown spectroscopy combined with standard addition method. <i>Optics Express</i> , <b>2016</b> , 24, 2607-18	3.3	56
126	Laser-induced breakdown spectroscopy of liquid solutions: a comparative study on the forms of liquid surface and liquid aerosol. <i>Applied Optics</i> , <b>2016</b> , 55, 7406-11	0.2	16
125	In situ imaging and control of layer-by-layer femtosecond laser thinning of graphene. <i>Nanoscale</i> , <b>2015</b> , 7, 3651-9	7.7	30
124	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> , <b>2015</b> , 119, 61-68	2.6	35
123	Nanopillar arrays with nanoparticles fabricated by a femtosecond laser pulse train for highly sensitive SERRS. <i>Optics Letters</i> , <b>2015</b> , 40, 2045-8	3	22
122	Laser-assisted vibrational control of precursor molecules in diamond synthesis. <i>Current Opinion in Solid State and Materials Science</i> , <b>2015</b> , 19, 107-114	12	2
121	Laser-based micro/nanofabrication in one, two and three dimensions. <i>Frontiers of Optoelectronics</i> , <b>2015</b> , 8, 351-378	2.8	29
120	Influence of Laser Vibrational Excitations of Ethylene Molecules in Laser-Assisted Combustion Diamond Synthesis. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1734, 1		
119	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> , <b>2015</b> , 30, 1623-1628	3.7	38
118	Hydrodynamic simulation of ultrashort pulse laser ablation of gold film. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 1047-1052	2.6	1
117	Interfacial microstructure of graphite flake reinforced aluminum matrix composites fabricated via hot pressing. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 73, 125-131	8.4	49
116	Spontaneous and coherent anti-Stokes Raman spectroscopy of human gastrocnemius muscle biopsies in CH-stretching region for discrimination of peripheral artery disease. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 2766-77	3.5	9
115	Acidity measurement of iron ore powders using laser-induced breakdown spectroscopy with partial least squares regression. <i>Optics Express</i> , <b>2015</b> , 23, 7795-801	3.3	33

114	Laser-induced breakdown spectroscopy enhanced by a micro torch. <i>Optics Express</i> , <b>2015</b> , 23, 15047-56	3.3	32
113	Magnetic field enhancement for femtosecond-laser-ablation mass spectrometry in ambient environments. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 2303-2306	3.7	14
112	Mass spectrometric investigation of the roles of several chemical intermediates in diamond synthesis. <i>RSC Advances</i> , <b>2015</b> , 5, 4822-4830	3.7	2
111	Mechanism and elimination of bending effect in femtosecond laser deep-hole drilling. <i>Optics Express</i> , <b>2015</b> , 23, 27853-64	3.3	23
110	Femtosecond laser rapid fabrication of large-area rose-like micropatterns on freestanding flexible graphene films. <i>Scientific Reports</i> , <b>2015</b> , 5, 17557	4.9	24
109	Controllable high-throughput high-quality femtosecond laser-enhanced chemical etching by temporal pulse shaping based on electron density control. <i>Scientific Reports</i> , <b>2015</b> , 5, 13202	4.9	16
108	Skin effect mitigation in laser processed multi-walled carbon nanotube/copper conductors. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 154311	2.5	6
107	Mask-Free Patterning of High-Conductivity Metal Nanowires in Open Air by Spatially Modulated Femtosecond Laser Pulses. <i>Advanced Materials</i> , <b>2015</b> , 27, 6238-43	24	55
106	Sensitivity and intensity enhancement in open air mass spectrometry assisted with a continuous wave infrared laser. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1663-1667	3.7	6
105	Solid-state graphene formation via a nickel carbide intermediate phase. <i>RSC Advances</i> , <b>2015</b> , 5, 99037-99043	3.7	27
104	Pump-probe imaging of the fs-ps-ns dynamics during femtosecond laser Bessel beam drilling in PMMA. <i>Optics Express</i> , <b>2015</b> , 23, 32728-35	3.3	19
103	Self-absorption reduction in laser-induced breakdown spectroscopy using laser-stimulated absorption. <i>Optics Letters</i> , <b>2015</b> , 40, 5224-6	3	47
102	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> , <b>2015</b> , 30, 403-409	3.7	34
101	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> , <b>2015</b> , 30, 1128-1132	3.7	10
100	Control of crystallographic orientation in diamond synthesis through laser resonant vibrational excitation of precursor molecules. <i>Scientific Reports</i> , <b>2014</b> , 4, 4581	4.9	11
99	Direct writing of graphene patterns on insulating substrates under ambient conditions. <i>Scientific Reports</i> , <b>2014</b> , 4, 4892	4.9	59
98	Quantitative analysis of phosphorus in steel using laser-induced breakdown spectroscopy in air atmosphere. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2014</b> , 29, 1432-1437	3.7	34
97	Anisotropy modulations of femtosecond laser pulse induced periodic surface structures on silicon by adjusting double pulse delay. <i>Optics Express</i> , <b>2014</b> , 22, 15820-8	3.3	14

- 96 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 3.7 53
- 95 Femtosecond laser pulse-train induced breakdown in fused silica: the role of seed electrons. *Journal Physics D: Applied Physics*, **2014**, 47, 435105 3 15
- 94 Thermal conductivity improvement of copper-carbon fiber composite by addition of an insulator: calcium hydroxide. *Journal of Materials Science*, **2014**, 49, 5537-5545 4.3 3
- 93 Copper-Carbon and Aluminum-Carbon Composites Fabricated by Powder Metallurgy Processes. *Journal of Physics: Conference Series*, **2014**, 525, 012015 0.3 19
- 92 Self-organizing microstructures orientation control in femtosecond laser patterning on silicon surface. *Optics Express*, **2014**, 22, 16669-75 3.3 17
- 91 Two-photon polymerization: investigation of chemical and mechanical properties of resins using Raman microspectroscopy. *Optics Letters*, **2014**, 39, 3034-7 3 81
- 90 Accuracy improvement on polymer identification using laser-induced breakdown spectroscopy with adjusting spectral weightings. *Optics Express*, **2014**, 22, 3895-901 3.3 48
- 89 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
- 88 Flame-enhanced laser-induced breakdown spectroscopy. *Optics Express*, **2014**, 22, 7686-93 3.3 39
- 87 Accuracy improvement of quantitative analysis in laser-induced breakdown spectroscopy using modified wavelet transform. *Optics Express*, **2014**, 22, 10233-8 3.3 42
- 86 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
- 85 Resonant vibrational excitation of ethylene molecules in laser-assisted diamond deposition. *Laser Physics Letters*, **2014**, 11, 076002 1.5 10
- 84 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
- 83 High-performance flexible solid-state supercapacitors based on MnO<sub>2</sub>-decorated nanocarbon electrodes. *RSC Advances*, **2013**, 3, 20613 3.7 32
- 82 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
- 81 Transparent, flexible, and solid-state supercapacitors based on graphene electrodes. *APL Materials*, **2013**, 1, 012101 5.7 83
- 80 Rapid Growth of m-plane Oriented Gallium Nitride Nanoplates on Silicon Substrate Using Laser-Assisted Metal Organic Chemical Vapor Deposition. *Crystal Growth and Design*, **2013**, 13, 3171-3176 2.5 3
- 79 All-fiber ultrafast thulium-doped fiber ring laser with dissipative soliton and noise-like output in normal dispersion by single-wall carbon nanotubes. *Applied Physics Letters*, **2013**, 103, 011103 3.4 85



78	Nonlinear ionization mechanism dependence of energy absorption in diamond under femtosecond laser irradiation. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 143106	2.5	7
77	Direct writing anisotropy on crystalline silicon surface by linearly polarized femtosecond laser. <i>Optics Letters</i> , <b>2013</b> , 38, 1969-71	3	18
76	Accuracy improvement of quantitative analysis by spatial confinement in laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2013</b> , 21, 18188-95	3.3	62
75	Femtosecond double-pulse fabrication of hierarchical nanostructures based on electron dynamics control for high surface-enhanced Raman scattering. <i>Optics Letters</i> , <b>2013</b> , 38, 3558-61	3	16
74	Etching rate enhancement by shaped femtosecond pulse train electron dynamics control for microchannels fabrication in fused silica glass. <i>Optics Letters</i> , <b>2013</b> , 38, 4613-6	3	17
73	Seed-Free Growth of Diamond Patterns on Femtosecond Laser Processed Silicon Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1511, 1		
72	All-fiber passively mode-locked thulium-doped fiber ring laser using optically deposited graphene saturable absorbers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 131117	3.4	80
71	Three-dimensional sub-wavelength fabrication by integration of additive and subtractive femtosecond-laser direct writing. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1499, 1		
70	Continuous modulations of femtosecond laser-induced periodic surface structures and scanned line-widths on silicon by polarization changes. <i>Optics Express</i> , <b>2013</b> , 21, 15505-13	3.3	53
69	Synthesis of gallium nitride nanoplates using laser-assisted metal organic chemical vapor deposition <b>2013</b> ,		1
68	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> , <b>2012</b> , 109, 679-684	2.6	20
67	An innovative process to fabricate copper/diamond composite films for thermal management applications. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 1746-1753	8.4	25
66	High-throughput rear-surface drilling of microchannels in glass based on electron dynamics control using femtosecond pulse trains. <i>Optics Letters</i> , <b>2012</b> , 37, 2781-3	3	46
65	Optimally enhanced optical emission in laser-induced breakdown spectroscopy by combining spatial confinement and dual-pulse irradiation. <i>Optics Express</i> , <b>2012</b> , 20, 1436-43	3.3	52
64	Three-dimensional micro/nano-fabrication by integration of additive and subtractive femtosecond-laser direct writing processes <b>2012</b> ,		1
63	Coherent anti-Stokes Raman scattering and spontaneous Raman spectroscopy and microscopy of microalgae with nitrogen depletion. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 2896-906	3.5	42
62	Adjustment of ablation shapes and subwavelength ripples based on electron dynamics control by designing femtosecond laser pulse trains. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103103	2.5	11
61	Synthesis of nitrogen-doped diamond films using vibrational excitation of ammonia molecules in laser-assisted combustion flames. <i>Journal of Laser Applications</i> , <b>2012</b> , 24, 022001	2.1	12

60	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. <i>Light: Science and Applications</i> , <b>2012</b> , 1, e6-e6	16.7	136
59	Generation of high-temperature and low-density plasmas for improved spectral resolutions in laser-induced breakdown spectroscopy. <i>Optics Express</i> , <b>2011</b> , 19, 10997-1006	3.3	35
58	Enhancement of optical emission from laser-induced plasmas by combined spatial and magnetic confinement. <i>Optics Express</i> , <b>2011</b> , 19, 14067-75	3.3	94
57	Fast growth of graphene patterns by laser direct writing. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 123109	3.4	94
56	Transparent interconnections formed by rapid single-step fabrication of graphene patterns. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053103	3.4	24
55	Self-assembled ordered arrays of nanoscale germanium Esaki tunnel diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 173110	3.4	4
54	Growth of diameter-modulated single-walled carbon nanotubes through instant temperature modulation in laser-assisted chemical vapor deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1284, 61		
53	Laser direct writing of graphene patterns. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1365, 1		
52	Assembly of carbon nanotube devices by tip-induced optical trapping. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1365, 1		
51	What Can Lasers Do in the Nano-Fabrication of Carbon Nanotube Based Devices?. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1365, 1		
50	Investigations on the Aging Effect of Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1333, 92901		
49	Fast Growth of Diamond Crystals in Open Air by Combustion Synthesis with Resonant Laser Energy Coupling. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 1762-1766	3.5	22
48	Excitations of Precursor Molecules by Different Laser Powers in Laser-Assisted Growth of Diamond Films. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 4928-4933	3.5	12
47	Spectroscopic determination of rotational temperature in C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> H <sub>2</sub> /O <sub>2</sub> flames for diamond growth with and without tunable CO <sub>2</sub> laser excitation. <i>Applied Optics</i> , <b>2010</b> , 49, 1555-62	0.2	6
46	Detection of trace phosphorus in steel using laser-induced breakdown spectroscopy combined with laser-induced fluorescence. <i>Applied Optics</i> , <b>2009</b> , 48, 2551-8	0.2	45
45	Fabrication of nanostructures with high electrical conductivity on silicon surfaces using a laser-assisted scanning tunneling microscope. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 054307	2.5	2
44	Quasiparticle band structures of wurtzite and rock-salt ZnO. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 1339-1343	3.5	26
43	Fabrication of TiNi shape memory alloy thin films by pulsed-laser deposition. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 279-283	2.5	6

42	Dry laser cleaning of particles from solid substrates: Experiments and theory. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2135-2142	2.5	70
41	Angular effect in laser removal of spherical silica particles from silicon wafers. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 59-63	2.5	10
40	Laser ablation of solid substrates in water and ambient air. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 2400-2403	2.5	158
39	Laser ablation of solid substrates in a water-confined environment. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1396-1398	3.4	106
38	Formation of quasi-one-dimensional carbon chains in cubic nanocrystals by photon-breaking of C-C bonds in polythiophene. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 2793-2797	2.5	
37	Laser Cleaning of Nanoparticles from Solid Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 704, 361		
36	Recent Progress on the Modeling of Laser Surface Cleaning. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 617, 1		0
35	Investigation on Laser-Induced Effects in Nanostructure Fabrication with Laser-Irradiated Scanning Tunneling Microscope Tips in Air Ambient. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 617, 381		
34	Magnetic Field Generation at Early-Stage KrF Excimer Laser Ablation of Solid Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 617, 391		
33	Laser writing of a subwavelength structure on silicon (100) surfaces with particle-enhanced optical irradiation. <i>JETP Letters</i> , <b>2000</b> , 72, 457-459	1.2	84
32	Comment on Emission of prompt electrons during excimer laser ablation of aluminum targets [Appl. Phys. Lett. 75, 7 (1999)]. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 248-248	3.4	5
31	Carbon nitride thin film synthesized on iron buffer layers. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 7095-7098	2.5	8
30	Laser induced removal of spherical particles from silicon wafers. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 1534-1539	2.5	41
29	Characterization of ejected particles during laser cleaning. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 549-552	2.5	15
28	Nanostructure fabrication using pulsed lasers in combination with a scanning tunneling microscope: Mechanism investigation. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1200-1202	3.4	35
27	Laser coloration and bleaching of amorphous WO <sub>3</sub> thin film. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 1082-1087	2.5	45
26	Deposition of crystal polythiophene thin films by KrF excimer laser ablation. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 536-540	2.5	2
25	The effects of thermal annealing on ZnO thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 498-502	2.5	141

24	Laser plasma interaction at an early stage of laser ablation. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 2899-2903		18
23	Electric signal detection at the early stage of laser ablation in air. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 2812-2817	2.5	18
22	Simulation of material properties of amorphous carbon nitride with different nitrogen concentrations. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 5417-5421	2.5	8
21	Laser-induced nano-oxidation on hydrogen-passivated Ge (100) surfaces under a scanning tunneling microscope tip. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2359-2361	3.4	54
20	Electronic and optical properties of carbon nitride thin films synthesized by laser ablation under ion beam bombardment. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 2133-2137	2.5	26
19	Spectroscopic Study of Pulsed Laser Induced Plasma from Aluminum Surface. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 85		
18	Automatic Control and Real-Time Monitoring of Laser Cleaning and Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 149		3
17	Studies of Carbon Nitride Thin Films Synthesized by KrF Excimer Ablation of Graphite in Nitrogen Atmosphere. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 343		5
16	A Theoretical Model for Steam Laser Cleaning. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 409		1
15	Removal of Plasma-Etch-Induced Polymers from Submicron Via Holes by Excimer Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 415		
14	Real-Time Monitoring of Indium Tin Oxide Laser Ablation in Liquid Crystal Display Patterning. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 526, 91		0
13	Theoretical Modeling for Laser Cleaning of Micro-Particles from Solid Surface. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 501, 399		
12	Theoretical analysis of laser-induced periodic structures at silicon-dioxide/silicon and silicon-dioxide/aluminum interfaces. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3439-3440	3.4	20
11	External-field-controlled laser wet etching of polycrystalline Al <sub>2</sub> O <sub>3</sub> TiC. <i>Applied Physics A: Materials Science and Processing</i> , <b>1996</b> , 63, 283-286	2.6	
10	Laser-induced etching of polycrystalline Al <sub>2</sub> O <sub>3</sub> TiC in KOH aqueous solution. <i>Applied Physics A: Materials Science and Processing</i> , <b>1996</b> , 62, 43-49	2.6	9
9	Electrical characterization of rapid thermal annealed radio frequency sputtered silicon oxide films. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 5837-5842	2.5	16
8	Application of Laser Microetching in Formation of Air-Bearing Surface for Magnetic Head Sliders. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 397, 317		0
7	Excimer Laser Applications in Integrated Circuit Packaging. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 397, 323		

- 6 Laser Dry Cleaning of ZrO<sub>2</sub> Particles from Air Bearing Surface of Magnetic Head Sliders. *Materials Research Society Symposia Proceedings*, **1995**, 397, 329 1
- 5 Laser-Controlled Etching of (Al, Ga)As Epitaxial Layers. *Materials Research Society Symposia Proceedings*, **1995**, 397, 491 1
- 4 Real-Time Monitoring for Laser Surface Cleaning. *Materials Research Society Symposia Proceedings*, **1994**, 354, 483 1
- 3 Laser Cleaning A New Surface Cleaning Method without Pollutions. *Materials Research Society Symposia Proceedings*, **1994**, 344, 329 2
- 2 Flat-Top Polygonal Temperature Profiles by Laser Beams. *Materials Research Society Symposia Proceedings*, **1994**, 354, 669
- 1 Laser Heating of Substrate by Multi-Beam Irradiation. *Materials Research Society Symposia Proceedings*, **1992**, 279, 705