Saulius Juodkazis

List of Publications by Year
in descending order

709	22,572	10389 72	17105 122
papers	citations	h-index	g-index

736	736	736	15452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast laser processing of materials: from science to industry. Light: Science and Applications, 2016, 5, e16133-e16133.	16.6	869
2	Bactericidal activity of black silicon. Nature Communications, 2013, 4, 2838.	12.8	731
3	Femtosecond laser-assisted three-dimensional microfabrication in silica. Optics Letters, 2001, 26, 277.	3.3	661
4	Ultrafast laser nanostructuring of photopolymers: A decade of advances. Physics Reports, 2013, 533, 1-31.	25.6	364
5	Laser-Induced Microexplosion Confined in the Bulk of a Sapphire Crystal: Evidence of Multimegabar Pressures. Physical Review Letters, 2006, 96, 166101.	7.8	326
6	Reversible phase transitions in polymer gels induced by radiation forces. Nature, 2000, 408, 178-181.	27.8	321
7	Nanoparticle Plasmon-Assisted Two-Photon Polymerization Induced by Incoherent Excitation Source. Journal of the American Chemical Society, 2008, 130, 6928-6929.	13.7	314
8	Laser-matter interaction in the bulk of a transparent solid: Confined microexplosion and void formation. Physical Review B, 2006, 73, .	3.2	304
9	Femtosecond laser interference technique with diffractive beam splitter for fabrication of three-dimensional photonic crystals. Applied Physics Letters, 2001, 79, 725-727.	3.3	292
10	Two-photon lithography of nanorods in SU-8 photoresist. Nanotechnology, 2005, 16, 846-849.	2.6	281
11	Mechano-bactericidal actions of nanostructured surfaces. Nature Reviews Microbiology, 2021, 19, 8-22.	28.6	264
12	Surface and bulk structuring of materials by ripples with long and short laser pulses: Recent advances. Progress in Quantum Electronics, 2014, 38, 119-156.	7.0	251
13	Antibacterial titanium nano-patterned arrays inspired by dragonfly wings. Scientific Reports, 2015, 5, 16817.	3.3	235
14	Three-Dimensional Spiral-Architecture Photonic Crystals Obtained By Direct Laser Writing. Advanced Materials, 2005, 17, 541-545.	21.0	229
15	Optical Vortices from Liquid Crystal Droplets. Physical Review Letters, 2009, 103, 103903.	7.8	223
16	Mechanisms of three-dimensional structuring of photo-polymers by tightly focussed femtosecond laser pulses. Optics Express, 2010, 18, 10209.	3.4	214
17	Multiphoton fabrication of periodic structures by multibeam interference of femtosecond pulses. Applied Physics Letters, 2003, 82, 2758-2760.	3.3	201
18	Arbitrary-lattice photonic crystals created by multiphoton microfabrication. Optics Letters, 2001, 26, 325.	3.3	194

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19	Three-dimensional microfabrication of materials by femtosecond lasers for photonics applications. Journal of Applied Physics, 2009, 106, .	2.5	189
20	Plasmonic nano-printing: large-area nanoscale energy deposition for efficient surface texturing. Light: Science and Applications, 2017, 6, e17112-e17112.	16.6	177
21	Microcavities in polymeric photonic crystals. Applied Physics Letters, 2001, 79, 1-3.	3.3	176
22	Clusters of Closely Spaced Gold Nanoparticles as a Source of Twoâ€Photon Photoluminescence at Visible Wavelengths. Advanced Materials, 2008, 20, 26-30.	21.0	168
23	Lightâ€Induced Tuning and Reconfiguration of Nanophotonic Structures. Laser and Photonics Reviews, 2017, 11, 1700108.	8.7	158
24	Evidence of superdense aluminium synthesized by ultrafast microexplosion. Nature Communications, 2011, 2, 445.	12.8	151
25	Surface plasmon resonances in periodic and random patterns of gold nano-disks for broadband light harvesting. Optics Express, 2012, 20, 11466.	3.4	150
26	Nickel surface anodic oxidation and electrocatalysis of oxygen evolution. Journal of Solid State Electrochemistry, 2008, 12, 1469-1479.	2.5	148
27	Engineering and Localization of Quantum Emitters in Large Hexagonal Boron Nitride Layers. ACS Applied Materials & Interfaces, 2016, 8, 29642-29648.	8.0	147
28	Femtosecond laser polymerization of hybrid/integrated micro-optical elements and their characterization. Journal of Optics (United Kingdom), 2010, 12, 124010.	2.2	143
29	Control over the Crystalline State of Sapphire. Advanced Materials, 2006, 18, 1361-1364.	21.0	134
30	Photopolymerized microscopic vortex beam generators: Precise delivery of optical orbital angular momentum. Applied Physics Letters, 2010, 97, .	3.3	132
31	Aluminum Oxide Photonic Crystals Grown by a New Hybrid Method. Advanced Materials, 2001, 13, 1574.	21.0	124
32	Three-dimensional micro-/nano-structuring via direct write polymerization with picosecond laser pulses. Optics Express, 2011, 19, 5602.	3.4	123
33	SERS substrate for detection of explosives. Nanoscale, 2012, 4, 7419.	5.6	122
34	Three-Dimensional Optical Data Storage in Vitreous Silica. Japanese Journal of Applied Physics, 1998, 37, L1527-L1530.	1.5	120
35	High Aspect Ratio Nanostructures Kill Bacteria via Storage and Release of Mechanical Energy. ACS Nano, 2018, 12, 6657-6667.	14.6	120
36	The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12598-12605.	7.1	119

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37	Mesoscale laser 3D printing. Optics Express, 2019, 27, 15205.	3.4	116
38	Laser-induced microexplosion confined in a bulk of silica: Formation of nanovoids. Applied Physics Letters, 2006, 88, 201909.	3.3	114
39	O-FIB: far-field-induced near-field breakdown for direct nanowriting in an atmospheric environment. Light: Science and Applications, 2020, 9, 41.	16.6	113
40	Femtosecond laser microfabrication of periodic structures using a microlens array. Applied Physics A: Materials Science and Processing, 2005, 80, 683-685.	2.3	112
41	Holographic lithography of periodic two- and three-dimensional microstructures in photoresist SU-8. Optics Express, 2006, 14, 7943.	3.4	110
42	Optically Clear and Resilient Free-Form Âµ-Optics 3D-Printed via Ultrafast Laser Lithography. Materials, 2017, 10, 12.	2.9	110
43	Femtosecond two-photon stereo-lithography. Applied Physics A: Materials Science and Processing, 2001, 73, 561-566.	2.3	107
44	Three-dimensional woodpile photonic crystal templates for the infrared spectral range. Optics Letters, 2004, 29, 2061.	3.3	106
45	Influence of nanoscale topology on bactericidal efficiency of black silicon surfaces. Nanotechnology, 2017, 28, 245301.	2.6	106
46	Recording by microexplosion and two-photon reading of three-dimensional optical memory in polymethylmethacrylate films. Applied Physics Letters, 2000, 76, 1000-1002.	3.3	103
47	3D Microporous Scaffolds Manufactured via Combination of Fused Filament Fabrication and Direct Laser Writing Ablation. Micromachines, 2014, 5, 839-858.	2.9	102
48	Antibacterial Action of Nanoparticles by Lethal Stretching of Bacterial Cell Membranes. Advanced Materials, 2020, 32, e2005679.	21.0	102
49	Additive-manufacturing of 3D glass-ceramics down to nanoscale resolution. Nanoscale Horizons, 2019, 4, 647-651.	8.0	97
50	Mechanism of fine ripple formation on surfaces of (semi)transparent materials via a half-wavelength cavity feedback. Nanotechnology, 2011, 22, 055304.	2.6	96
51	Effect of refractive index-mismatch on laser microfabrication in silica glass. Applied Physics A: Materials Science and Processing, 2003, 76, 257-260.	2.3	95
52	â€œRace for the Surfaceâ€• Eukaryotic Cells Can Win. ACS Applied Materials & Interfaces, 2016, 8, 22025-22031.	8.0	95
53	Feature-size reduction of photopolymerized structures by femtosecond optical curing of SU-8. Applied Physics Letters, 2006, 89, 024106.	3.3	93
54	Nanofabrication of mechano-bactericidal surfaces. Nanoscale, 2017, 9, 16564-16585.	5.6	91

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55	Optical properties of nanoengineered gold blocks. Optics Letters, 2005, 30, 2158.	3.3	89
56	Generation and Recombination of Defects in Vitreous Silica Induced by Irradiation with a Near-Infrared Femtosecond Laser. Journal of Physical Chemistry B, 2000, 104, 3450-3455.	2.6	86
57	Application of Bessel Beams for Microfabrication of Dielectrics by Femtosecond Laser. Japanese Journal of Applied Physics, 2001, 40, L1197-L1199.	1.5	86
58	Inverse silica opal photonic crystals for optical sensing applications. Optics Express, 2007, 15, 12979.	3.4	85
59	Fast optical switching by a laser-manipulated microdroplet of liquid crystal. Applied Physics Letters, 1999, 74, 3627-3629.	3.3	82
60	Spectrally-Resolved Atomic-Scale Length Variations of Gold Nanorods. Journal of the American Chemical Society, 2006, 128, 14226-14227.	13.7	82
61	Luminescence and defect formation by visible and near-infrared irradiation of vitreous silica. Physical Review B, 1999, 60, 9959-9964.	3.2	79
62	Two-photon readout of three-dimensional memory in silica. Applied Physics Letters, 2000, 77, 13-15.	3.3	79
63	High-efficiency optical transfer of torque to a nematic liquid crystal droplet. Applied Physics Letters, 2003, 82, 4657-4659.	3.3	79
64	Three-Dimensional Micro- and Nano-Structuring of Materials by Tightly Focused Laser Radiation. Bulletin of the Chemical Society of Japan, 2008, 81, 411-448.	3.2	78
65	Comment on â€œBactericidal Effects of Natural Nanotopography of Dragonfly Wing on Escherichia coliâ€• ACS Applied Materials & Interfaces, 2017, 9, 29387-29393.	8.0	78
66	Nano-groove and 3D fabrication by controlled avalanche using femtosecond laser pulses. Optical Materials Express, 2013, 3, 1674.	3.0	77
67	Nanoparticle-Enhanced Photopolymerization. Journal of Physical Chemistry C, 2009, 113, 11720-11724.	3.1	75
68	Optical 3D printing: bridging the gaps in the mesoscale. Journal of Optics (United Kingdom), 2018, 20, 053001.	2.2	75
69	Biomimetic sapphire windows enabled by inside-out femtosecond laser deep-scribing. PhotoniX, 2022, 3, .	13.5	75
70	Recording and reading of three-dimensional optical memory in glasses. Applied Physics B: Lasers and Optics, 2003, 77, 361-368.	2.2	74
71	Laser fabricated ripple substrates for surfaceâ€enhanced Raman scattering. Annalen Der Physik, 2012, 524, L5.	2.4	74
72	High 90% efficiency Bragg gratings formed in fused silica by femtosecond Gauss-Bessel laser beams. Optical Materials Express, 2013, 3, 1862.	3.0	74

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73	Nanoscale Precision of 3D Polymerization via Polarization Control. Advanced Optical Materials, 2016, 4, 1209-1214.	7.3	74
74	Spatially Selective Nonlinear Photopolymerization Induced by the Near-Field of Surface Plasmons Localized on Rectangular Gold Nanorods. Journal of Physical Chemistry C, 2009, 113, 1147-1149.	3.1	72
75	Mono- and bi-metallic plasmonic photocatalysts for degradation of organic compounds under UV and visible light irradiation. Catalysis Today, 2014, 230, 131-137.	4.4	71
76	Versatile SERS sensing based on black silicon. Optics Express, 2015, 23, 6763.	3.4	71
77	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. Applied Catalysis B: Environmental, 2018, 237, 574-587.	20.2	71
78	Polymerization mechanisms initiated by spatio-temporally confined light. Nanophotonics, 2021, 10, 1211-1242.	6.0	71
79	Photophysics and photochemistry of a laser manipulated microparticle. Progress in Polymer Science, 1999, 24, 665-697.	24.7	70
80	Novel Plasmonic Nanocavities for Optical Trappingâ€Assisted Biosensing Applications. Advanced Optical Materials, 2020, 8, 1901481.	7.3	70
81	Flexural Rigidity of a Single Microtubule. Japanese Journal of Applied Physics, 2002, 41, 3015-3019.	1.5	69
82	Spectral Sensitivity of Uniform Arrays of Gold Nanorods to Dielectric Environment. Journal of Physical Chemistry C, 2007, 111, 4180-4184.	3.1	69
83	Transmission and photoluminescence images of three-dimensional memory in vitreous silica. Applied Physics Letters, 1999, 74, 3957-3959.	3.3	68
84	Formation of embedded patterns in glasses using femtosecond irradiation. Applied Physics A: Materials Science and Processing, 2004, 79, 1549-1553.	2.3	68
85	Discrete damage traces from filamentation of Gauss-Bessel pulses. Optics Letters, 2006, 31, 80.	3.3	68
86	Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency. Nano-Micro Letters, 2018, 10, 36.	27.0	68
87	Black silicon: substrate for laser 3D micro/nano-polymerization. Optics Express, 2013, 21, 6901.	3.4	67
88	Distribution states of graphene in polymer nanocomposites: A review. Composites Part B: Engineering, 2021, 226, 109353.	12.0	67
89	Hierarchical anti-reflective laser-induced periodic surface structures (LIPSSs) on amorphous Si films for sensing applications. Nanoscale, 2020, 12, 13431-13441.	5.6	67
90	Surface nanostructuring of borosilicate glass by femtosecond nJ energy pulses. Applied Physics Letters, 2003, 82, 2901-2903.	3.3	66

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91	Three-dimensional laser micro-sculpturing of silicone: towards bio-compatible scaffolds. Optics Express, 2013, 21, 17028.	3.4	65
92	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. Advanced Optical Materials, 2018, 6, 1800292.	7.3	65
93	Optical Nanofabrication of Concave Microlens Arrays. Laser and Photonics Reviews, 2019, 13, 1800272.	8.7	65
94	Reduction of capillary force for high-aspect ratio nanofabrication. Applied Physics A: Materials Science and Processing, 2005, 81, 1583-1586.	2.3	64
95	Three-dimensional horizontal circular spiral photonic crystals with stop gaps below 1Î¼m. Applied Physics Letters, 2006, 88, 221101.	3.3	64
96	Coupled laser molecular trapping, cluster assembly, and deposition fed by laser-induced Marangoni convection. Optics Express, 2008, 16, 5673.	3.4	64
97	Application of femtosecond laser pulses for microfabrication of transparent media. Applied Surface Science, 2002, 197-198, 705-709.	6.1	63
98	Topological Shaping of Light by Closed-Path Nanoslits. Physical Review Letters, 2013, 111, 193901.	7.8	63
99	Tailoring Orbital Angular Momentum of Light in the Visible Domain with Metallic Metasurfaces. Advanced Optical Materials, 2016, 4, 306-312.	7.3	62
100	Mechano-Bactericidal Titanium Surfaces for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2020, 12, 48272-48283.	8.0	62
101	Tailoring and characterization of photonic crystals. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2001, 2, 35-69.	11.6	61
102	Lightâ€Emitting Nanophotonic Designs Enabled by Ultrafast Laser Processing of Halide Perovskites. Small, 2020, 16, e2000410.	10.0	60
103	Three-dimensional micro-channels in polymers: one-step fabrication. Applied Physics A: Materials Science and Processing, 2003, 77, 371-373.	2.3	58
104	Surface-texturing of sapphire by femtosecond laser pulses for photonic applications. Journal Physics D: Applied Physics, 2010, 43, 145501.	2.8	58
105	Iridium Anodic Oxidation to Ir(III) and Ir(IV) Hydrous Oxides. Electroanalysis, 2005, 17, 947-952.	2.9	57
106	Fabrication of three-dimensional periodic microstructures in photoresist SU-8 by phase-controlled holographic lithography. New Journal of Physics, 2006, 8, 250-250.	2.9	56
107	Photoelectrolysis of water:Solar hydrogen - achievements and perspectives. Optics Express, 2010, 18, A147.	3.4	55
108	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. Langmuir, 2012, 28, 17404-17409.	3.5	55

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109	Surfaceâ€enhanced Raman scattering sensing on black silicon. Annalen Der Physik, 2013, 525, 907-914.	2.4	55
110	Additional Enhancement of Electric Field in Surface-Enhanced Raman Scattering due to Fresnel Mechanism. Scientific Reports, 2013, 3, 2335.	3.3	54
111	Au-Ag-Cu nano-alloys: tailoring of permittivity. Scientific Reports, 2016, 6, 25010.	3.3	54
112	Single-Step Laser Plasmonic Coloration of Metal Films. ACS Applied Materials & Interfaces, 2018, 10, 1422-1427.	8.0	54
113	Intrinsic single- and multiple-pulse laser-induced damage in silicate glasses in the femtosecond-to-nanosecond region. Physical Review A, 2004, 69, .	2.5	53
114	Fabrication and properties of metalo-dielectric photonic crystal structures for infrared spectral region. Optics Express, 2007, 15, 8454.	3.4	53
115	Femtosecond laser induced density changes in GeO_2 and SiO_2 glasses: fictive temperature effect [Invited]. Optical Materials Express, 2011, 1, 605.	3.0	53
116	Randomization of gold nano-brick arrays: a tool for SERS enhancement. Optics Express, 2013, 21, 13502.	3.4	53
117	Competition between subwavelength and deep-subwavelength structures ablated by ultrashort laser pulses. Optica, 2017, 4, 637.	9.3	53
118	Numerical Analysis on the Optical Role of Nano-Randomness on the <I>Morpho</I> Butterfly's Scale. Journal of Nanoscience and Nanotechnology, 2011, 11, 2785-2792.	0.9	52
119	Anti-reflective surfaces: Cascading nano/microstructuring. APL Photonics, 2016, 1, .	5.7	52
120	Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. Applied Catalysis B: Environmental, 2017, 206, 393-405.	20.2	52
121	Time-resolved interferometry of femtosecond-laser-induced processes under tight focusing and close-to-optical breakdown inside borosilicate glass. Optics Express, 2011, 19, 5725.	3.4	51
122	Tunable morphological changes of asymmetric titanium nanosheets with bactericidal properties. Journal of Colloid and Interface Science, 2020, 560, 572-580.	9.4	51
123	Roadmap on Recent Progress in FINCH Technology. Journal of Imaging, 2021, 7, 197.	3.0	51
124	Chemically non-perturbing SERS detection of a catalytic reaction with black silicon. Nanoscale, 2018, 10, 9780-9787.	5.6	50
125	Mechanical inactivation of Staphylococcus aureus and Pseudomonas aeruginosa by titanium substrata with hierarchical surface structures. Materialia, 2019, 5, 100197.	2.7	50
126	Thermal accumulation effect in three-dimensional recording by picosecond pulses. Applied Physics Letters, 2004, 85, 5239-5241.	3.3	49

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127	Freestanding and movable photonic microstructures fabricated by photopolymerization with femtosecond laser pulses. Journal of Micromechanics and Microengineering, 2010, 20, 035004.	2.6	48
128	Dielectric geometric phase optical elements fabricated by femtosecond direct laser writing in photoresists. Applied Physics Letters, 2017, 110, .	3.3	48
129	Thermal and optical properties of the femtosecond-laser-structured and stress-induced birefringent regions in sapphire. Optics Express, 2010, 18, 8300.	3.4	47
130	Selective enhancement of infrared absorption with metal hole arrays. Optical Materials Express, 2012, 2, 1367.	3.0	46
131	Mechanical properties and tuning of three-dimensional polymeric photonic crystals. Applied Physics Letters, 2007, 91, .	3.3	45
132	Sculpturing of photonic crystals by ion beam lithography: towards complete photonic bandgap at visible wavelengths. Optics Express, 2011, 19, 5802.	3.4	45
133	Nanotopography as a trigger for the microscale, autogenous and passive lysis of erythrocytes. Journal of Materials Chemistry B, 2014, 2, 2819-2826.	5.8	45
134	Laser-Induced Translative Hydrodynamic Mass Snapshots: Noninvasive Characterization and Predictive Modeling via Mapping at Nanoscale. Physical Review Applied, 2017, 8, .	3.8	45
135	Tailoring spontaneous infrared emission of HgTe quantum dots with laser-printed plasmonic arrays. Light: Science and Applications, 2020, 9, 16.	16.6	45
136	Formation of free-standing micropyramidal colloidal crystals grown on silicon substrate. Applied Physics Letters, 2003, 82, 4283-4285.	3.3	44
137	In-bulk and surface structuring of sapphire by femtosecond pulses. Applied Surface Science, 2007, 253, 6539-6544.	6.1	44
138	Formation of collimated beams behind the woodpile photonic crystal. Physical Review A, 2011, 84, .	2.5	44
139	Scaling Rules of SERS Intensity. Advanced Optical Materials, 2014, 2, 382-388.	7.3	44
140	A bactericidal microfluidic device constructed using nano-textured black silicon. RSC Advances, 2016, 6, 26300-26306.	3.6	44
141	Tipping solutions: emerging 3D nano-fabrication/ -imaging technologies. Nanophotonics, 2017, 6, 923-941.	6.0	44
142	Mechano-bactericidal mechanism of graphene nanomaterials. Interface Focus, 2018, 8, 20170060.	3.0	43
143	Femtosecond laser ablation of chalcogenide glass: explosive formation of nano-fibres against thermo-capillary growth of micro-spheres. Nanotechnology, 2006, 17, 4802-4805.	2.6	42
144	Ultra-wide free spectral range, enhanced sensitivity, and removed mode splitting SOI optical ring resonator with dispersive metal nanodisks. Optics Letters, 2015, 40, 2977.	3.3	41

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145	Nanostructured Antireflective and Thermoisolative Cicada Wings. Langmuir, 2016, 32, 4698-4703.	3.5	41
146	Angleâ€multiplexed optical printing of biomimetic hierarchical 3D textures. Laser and Photonics Reviews, 2017, 11, 1600187.	8.7	41
147	Statistically quantified measurement of an Alzheimer's marker by surface-enhanced Raman scattering. Journal of Biophotonics, 2015, 8, 567-574.	2.3	40
148	Fresnel incoherent correlation holography with single camera shot. Opto-Electronic Advances, 2020, 3, 200004-200004.	13.3	40
149	Optical Characteristics of Two-Dimensional Photonic Crystals in Anodic Aluminum Oxide Films. Japanese Journal of Applied Physics, 2004, 43, 3643-3647.	1.5	39
150	Thermal diffusivity in femtosecond-laser-structured micro-volumes of polymers. Applied Physics A: Materials Science and Processing, 2010, 98, 551-556.	2.3	39
151	Observation of O_2 inside voids formed in GeO_2 glass by tightly-focused fs-laser pulses. Optical Materials Express, 2011, 1, 1150.	3.0	39
152	Outsmarting superbugs: bactericidal activity of nanostructured titanium surfaces against methicillin- and gentamicin-resistantStaphylococcus aureusATCC 33592. Journal of Materials Chemistry B, 2019, 7, 4424-4431.	5.8	39
153	Deep Subwavelength Laser-Induced Periodic Surface Structures on Silicon as a Novel Multifunctional Biosensing Platform. ACS Applied Materials & Interfaces, 2021, 13, 54551-54560.	8.0	39
154	Control of the Molecular Alignment Inside Liquid-Crystal Droplets by Use of Laser Tweezers. Small, 2005, 1, 656-661.	10.0	38
155	Modification of refractive index by a single femtosecond pulse confined inside a bulk of a photorefractive crystal. Physical Review B, 2010, 81, .	3.2	38
156	Liquid-Assisted Femtosecond Laser Precision-Machining of Silica. Nanomaterials, 2018, 8, 287.	4.1	38
157	Photo-structuring of As2S3glass by femtosecond irradiation. Optics Express, 2006, 14, 7751.	3.4	37
158	On the charge storage mechanism at RuO2/0.5ÂM H2SO4 interface. Journal of Solid State Electrochemistry, 2008, 12, 1399-1404.	2.5	37
159	Solar water splitting: Efficiency discussion. International Journal of Hydrogen Energy, 2016, 41, 11941-11948.	7.1	37
160	Ultrasensitive SERS-Based Plasmonic Sensor with Analyte Enrichment System Produced by Direct Laser Writing. Nanomaterials, 2020, 10, 49.	4.1	37
161	Roadmap on Digital Holography-Based Quantitative Phase Imaging. Journal of Imaging, 2021, 7, 252.	3.0	37
162	Three-dimensional microfabrication by femtosecond pulses in dielectrics. Thin Solid Films, 2004, 453-454, 550-556.	1.8	36

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163	Three-dimensional recording by tightly focused femtosecond pulses in LiNbO3. Applied Physics Letters, 2006, 89, 062903.	3.3	36
164	Nano-textured metallic surfaces for optical sensing and detection applications. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 126-134.	3.9	36
165	Orientational Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk. Scientific Reports, 2017, 7, 7419.	3.3	36
166	Diffractive optics for axial intensity shaping of Bessel beams. Journal of Optics (United Kingdom), 2018, 20, 085606.	2.2	36
167	Tailoring Metal and Insulator Contributions in Plasmonic Perfect Absorber Metasurfaces. ACS Applied Nano Materials, 2018, 1, 3557-3564.	5.0	36
168	Single shot multispectral multidimensional imaging using chaotic waves. Scientific Reports, 2020, 10, 13902.	3.3	36
169	Femtosecond laser assisted etching of quartz: microstructuring from inside. Applied Physics A: Materials Science and Processing, 2006, 84, 99-102.	2.3	35
170	Plasmonic photo-thermoelectric energy converter with black-Si absorber. Solar Energy Materials and Solar Cells, 2015, 143, 72-77.	6.2	35
171	3D printed micro-optics. Nature Photonics, 2016, 10, 499-501.	31.4	35
172	Electrically driven terahertz radiation of 2DEG plasmons in AlGaN/GaN structures at 110â€‰K temperature. Applied Physics Letters, 2017, 110, .	3.3	35
173	Role of topological scale in the differential fouling of Pseudomonas aeruginosa and Staphylococcus aureus bacterial cells on wrinkled gold-coated polystyrene surfaces. Nanoscale, 2018, 10, 5089-5096.	5.6	35
174	Single-pulse writing of a concave microlens array. Optics Letters, 2018, 43, 831.	3.3	35
175	Hole drilling in stainless steel and silicon by femtosecond pulses at low pressure. Applied Physics A: Materials Science and Processing, 2004, 79, 1555-1559.	2.3	34
176	Void formation in glasses. New Journal of Physics, 2007, 9, 253-253.	2.9	34
177	Augmented sensitivity of an IR-absorption gas sensor employing a metal hole array. Optical Materials Express, 2013, 3, 968.	3.0	34
178	Black-CuO: surface-enhanced Raman scattering and infrared properties. Nanoscale, 2015, 7, 18299-18304.	5.6	34
179	Hybrid subtractive-additive-welding microfabrication for lab-on-chip applications via single amplified femtosecond laser source. Optical Engineering, 2017, 56, 1.	1.0	34
180	Characterization of bipolar and radial nematic liquid crystal droplets using laser-tweezers. Journal Physics D: Applied Physics, 2005, 38, 2923-2927.	2.8	33

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181	Statics and dynamics of radial nematic liquid-crystal droplets manipulated by laser tweezers. Physical Review E, 2008, 77, 041704.	2.1	33
182	Generation of high energy density by fs-laser-induced confined microexplosion. New Journal of Physics, 2013, 15, 025018.	2.9	33
183	The Fate of Osteoblast-Like MG-63 Cells on Pre-Infected Bactericidal Nanostructured Titanium Surfaces. Materials, 2019, 12, 1575.	2.9	33
184	Three-dimensional circular spiral photonic crystal structures recorded by femtosecond pulses. Journal of Non-Crystalline Solids, 2006, 352, 2390-2394.	3.1	32
185	Reversible hydrogen evolution and oxidation on Pt electrode mediated by molecular ion. Applied Surface Science, 2014, 290, 13-17.	6.1	32
186	Ultratrace Nitroaromatic Vapor Detection via Surface-Enhanced Fluorescence on Carbazole-Terminated Black Silicon. ACS Sensors, 2019, 4, 2879-2884.	7.8	32
187	Kirchhoffâ€™s metasurfaces towards efficient photo-thermal energy conversion. Scientific Reports, 2019, 9, 8284.	3.3	32
188	Photoluminescence in hexagonal silicon carbide by direct femtosecond laser writing. Optics Letters, 2018, 43, 6077.	3.3	32
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