

Jan Siegel

List of Publications by Year in descending order

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176
papers

5,604
citations

76326

40
h-index

91884

69
g-index

178
all docs

178
docs citations

178
times ranked

4683
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the Stretched Exponential Function to Fluorescence Lifetime Imaging. Biophysical Journal, 2001, 81, 1265-1274.	0.5	262
2	Imaging the Environment of Green Fluorescent Protein. Biophysical Journal, 2002, 83, 3589-3595.	0.5	245
3	Rewritable phase-change optical recording in Ge ₂ Sb ₂ Te ₅ films induced by picosecond laser pulses. Applied Physics Letters, 2004, 84, 2250-2252.	3.3	196
4	The influence of thermal diffusion on laser ablation of metal films. Applied Physics A: Solids and Surfaces, 1994, 58, 129-136.	1.4	191
5	Laser engineering of biomimetic surfaces. Materials Science and Engineering Reports, 2020, 141, 100562.	31.8	180
6	Time-domain fluorescence lifetime imaging applied to biological tissue. Photochemical and Photobiological Sciences, 2004, 3, 795.	2.9	175
7	Fluorescence lifetime imaging of unstained tissues: early results in human breast cancer. Journal of Pathology, 2003, 199, 309-317.	4.5	145
8	Time-domain whole-field fluorescence lifetime imaging with optical sectioning. Journal of Microscopy, 2001, 203, 246-257.	1.8	137
9	Time-resolved fluorescence anisotropy imaging applied to live cells. Optics Letters, 2004, 29, 584.	3.3	133
10	Dynamics of Ultrafast Phase Changes in Amorphous GeSb Films. Physical Review Letters, 1998, 81, 3679-3682.	7.8	129
11	Femtosecond x-ray diffraction reveals a liquid-liquid phase transition in phase-change materials. Science, 2019, 364, 1062-1067.	12.6	120
12	Dynamics of plasma formation, relaxation, and topography modification induced by femtosecond laser pulses in crystalline and amorphous dielectrics. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1065.	2.1	105
13	Ultrafast Moving-Spot Microscopy: Birth and Growth of Laser-Induced Periodic Surface Structures. ACS Photonics, 2016, 3, 1961-1967.	6.6	105
14	Studying biological tissue with fluorescence lifetime imaging: microscopy, endoscopy, and complex decay profiles. Applied Optics, 2003, 42, 2995.	2.1	93
15	Amorphization dynamics of Ge ₂ Sb ₂ Te ₅ films upon nano- and femtosecond laser pulse irradiation. Journal of Applied Physics, 2008, 103, .	2.5	92
16	Bespoke photonic devices using ultrafast laser driven ion migration in glasses. Progress in Materials Science, 2018, 94, 68-113.	32.8	90
17	Dynamics of ultrafast reversible phase transitions in GeSb films triggered by picosecond laser pulses. Applied Physics Letters, 1999, 75, 3102-3104.	3.3	81
18	Time- and space-resolved dynamics of melting, ablation, and solidification phenomena induced by femtosecond laser pulses in germanium. Physical Review B, 2006, 74, .	3.2	80

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19	A wide-field time-domain fluorescence lifetime imaging microscope with optical sectioning. Review of Scientific Instruments, 2002, 73, 1898-1907.	1.3	79
20	Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM): Imaging the rotational mobility of a fluorophore. Review of Scientific Instruments, 2003, 74, 182-192.	1.3	78
21	High speed inscription of uniform, large-area laser-induced periodic surface structures in Cr films using a high repetition rate fs laser. Optics Letters, 2014, 39, 2491.	3.3	76
22	Controlling the Wettability of Steel Surfaces Processed with Femtosecond Laser Pulses. ACS Applied Materials & Interfaces, 2018, 10, 36564-36571.	8.0	75
23	Ultrafast Laser-Induced Phase Transitions in Amorphous GeSb Films. Physical Review Letters, 2001, 86, 3650-3653.	7.8	66
24	Three-Dimensional Self-Organization in Nanocomposite Layered Systems by Ultrafast Laser Pulses. ACS Nano, 2017, 11, 5031-5040.	14.6	65
25	Surface Plasmon Polaritons on Rough Metal Surfaces: Role in the Formation of Laser-Induced Periodic Surface Structures. ACS Omega, 2019, 4, 6939-6946.	3.5	65
26	Whole-field optically sectioned fluorescence lifetime imaging. Optics Letters, 2000, 25, 1361.	3.3	64
27	Waveguide structures in heavy metal oxide glass written with femtosecond laser pulses above the critical self-focusing threshold. Applied Physics Letters, 2005, 86, 121109.	3.3	64
28	Whole-field five-dimensional fluorescence microscopy combining lifetime and spectral resolution with optical sectioning. Optics Letters, 2001, 26, 1338.	3.3	63
29	Mimicking bug-like surface structures and their fluid transport produced by ultrashort laser pulse irradiation of steel. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	62
30	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. Optics Letters, 2013, 38, 5248.	3.3	61
31	Plasma formation and structural modification below the visible ablation threshold in fused silica upon femtosecond laser irradiation. Applied Physics Letters, 2007, 91, .	3.3	56
32	Fluorescence lifetime system for microscopy and multiwell plate imaging with a blue picosecond diode laser. Optics Letters, 2002, 27, 1409.	3.3	52
33	Ultrafast imaging of transient electronic plasmas produced in conditions of femtosecond waveguide writing in dielectrics. Applied Physics Letters, 2008, 93, .	3.3	51
34	UV-laser ablation of ductile and brittle metal films. Applied Physics A: Materials Science and Processing, 1997, 64, 213-218.	2.3	50
35	Coherent scatter-controlled phase-change grating structures in silicon using femtosecond laser pulses. Scientific Reports, 2017, 7, 4594.	3.3	48
36	In-situ investigation of laser ablation of thin films. Thin Solid Films, 1995, 254, 139-146.	1.8	46

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37	Femtosecond laser-controlled self-assembly of amorphous-crystalline nanogratings in silicon. <i>Nanotechnology</i> , 2016, 27, 265602.	2.6	44
38	Simultaneous time-space resolved reflectivity and interferometric measurements of dielectrics excited with femtosecond laser pulses. <i>Physical Review B</i> , 2017, 95, .	3.2	44
39	Transient reflectivity and transmission changes during plasma formation and ablation in fused silica induced by femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 803-808.	2.3	42
40	Laser-induced periodic surface structures on polymers for formation of gold nanowires and activation of human cells. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 295-300.	2.3	41
41	Nanofabrication of Tailored Surface Structures in Dielectrics Using Temporally Shaped Femtosecond-Laser Pulses. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6613-6619.	8.0	41
42	Recalescence after solidification in Ge films melted by picosecond laser pulses. <i>Applied Physics Letters</i> , 1999, 75, 1071-1073.	3.3	39
43	Time- and space-resolved dynamics of ablation and optical breakdown induced by femtosecond laser pulses in indium phosphide. <i>Journal of Applied Physics</i> , 2008, 103, 054910.	2.5	39
44	Deep subsurface waveguides with circular cross section produced by femtosecond laser writing. <i>Applied Physics Letters</i> , 2007, 91, 051104.	3.3	37
45	The Role of the Laser-Induced Oxide Layer in the Formation of Laser-Induced Periodic Surface Structures. <i>Nanomaterials</i> , 2020, 10, 147.	4.1	36
46	Sharpening the shape distribution of gold nanoparticles by laser irradiation. <i>Journal of Applied Physics</i> , 2006, 100, 084311.	2.5	35
47	Imprinting the Optical Near Field of Microstructures with Nanometer Resolution. <i>Small</i> , 2009, 5, 1825-1829.	10.0	34
48	Bulk solidification and recalescence phenomena in amorphous Ge films upon picosecond pulsed laser irradiation. <i>Journal of Applied Physics</i> , 1996, 80, 6677-6682.	2.5	33
49	Temporally and spectrally resolved imaging of laser-induced plasmas. <i>Optics Letters</i> , 2004, 29, 2228.	3.3	33
50	Hot-Wire Chemical Vapor Deposition of Chalcogenide Materials for Phase Change Memory Applications. <i>Chemistry of Materials</i> , 2008, 20, 3557-3559.	6.7	33
51	Dynamics of laser-induced phase switching in GeTe films. <i>Journal of Applied Physics</i> , 2011, 109, 123102.	2.5	33
52	Controlling plasma distributions as driving forces for ion migration during fs laser writing. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 155101.	2.8	33
53	A comparison of ns and ps steam laser cleaning of Si surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S331-S334.	2.3	32
54	Suitability of Filofocan A and PMMA for experimental models in excimer laser ablation refractive surgery. <i>Optics Express</i> , 2008, 16, 20955.	3.4	32

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55	Plasma dynamics and structural modifications induced by femtosecond laser pulses in quartz. Applied Surface Science, 2012, 258, 9389-9393.	6.1	32
56	Femtosecond laser ablation of dielectric materials in the optical breakdown regime: Expansion of a transparent shell. Applied Physics Letters, 2014, 105, 112902.	3.3	31
57	Tuning the period of femtosecond laser induced surface structures in steel: From angled incidence to quill writing. Applied Surface Science, 2019, 493, 948-955.	6.1	31
58	Biomimetic surface structures in steel fabricated with femtosecond laser pulses: influence of laser rescanning on morphology and wettability. Beilstein Journal of Nanotechnology, 2018, 9, 2802-2812.	2.8	29
59	Independent control of beam astigmatism and ellipticity using a SLM for fs-laser waveguide writing. Optics Express, 2009, 17, 20853.	3.4	28
60	Stimulated crystallization of melt-quenched Ge ₂ Sb ₂ Te ₅ films employing femtosecond laser double pulses. Journal of Applied Physics, 2012, 112, .	2.5	28
61	Mechanisms of refractive index modification during femtosecond laser writing of waveguides in alkaline lead-oxide silicate glass. Applied Physics Letters, 2005, 87, 021109.	3.3	27
62	Deep subsurface optical waveguides produced by direct writing with femtosecond laser pulses in fused silica and phosphate glass. Applied Surface Science, 2007, 254, 1121-1125.	6.1	27
63	In situ assessment and minimization of nonlinear propagation effects for femtosecond-laser waveguide writing in dielectrics. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1688.	2.1	27
64	Control of waveguide properties by tuning femtosecond laser induced compositional changes. Applied Physics Letters, 2014, 105, .	3.3	27
65	Surface structuring of fused silica with asymmetric femtosecond laser pulse bursts. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1352.	2.1	26
66	Imaging the ultrafast Kerr effect, free carrier generation, relaxation and ablation dynamics of Lithium Niobate irradiated with femtosecond laser pulses. Journal of Applied Physics, 2014, 116, .	2.5	26
67	Imaging self-sputtering and backscattering from the substrate during pulsed laser deposition of gold. Physical Review B, 2007, 76, .	3.2	25
68	Anisotropic Resistivity Surfaces Produced in ITO Films by Laser-Induced Nanoscale Self-Organization. Advanced Optical Materials, 2021, 9, 2001086.	7.3	24
69	Quantification of self-sputtering and implantation during pulsed laser deposition of gold. Journal of Applied Physics, 2008, 104, 084912.	2.5	23
70	Coherent optical phonons in different phases of Ge ₂ Sb ₂ Te ₅ upon strong laser excitation. Applied Physics Letters, 2011, 98, 251906.	3.3	23
71	Slow interfacial reamorphization of Ge films melted by ps laser pulses. Journal of Applied Physics, 1998, 84, 5531-5537.	2.5	22
72	Real-time optical measurements with picosecond resolution during laser induced transformations. Review of Scientific Instruments, 2000, 71, 1595-1601.	1.3	22

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73	Tailoring the surface plasmon resonance of embedded silver nanoparticles by combining nano- and femtosecond laser pulses. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	22
74	Biomedical Applications of Fluorescence Lifetime Imaging. <i>Optics and Photonics News</i> , 2002, 13, 26.	0.5	21
75	Waveguide structures written in SF57 glass with fs-laser pulses above the critical self-focusing threshold. <i>Applied Surface Science</i> , 2006, 252, 4523-4526.	6.1	21
76	Femtosecond laser-induced refractive index changes at the surface of dielectrics: quantification based on Newton ring analysis. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1676.	2.1	21
77	Reflectivity of crystalline Ge and Si at the melting temperature measured in real time with subnanosecond temporal resolution. <i>Journal of Applied Physics</i> , 2001, 89, 3763-3767.	2.5	20
78	Chemical vapor deposition of chalcogenide materials for phase-change memories. <i>Microelectronic Engineering</i> , 2008, 85, 2338-2341.	2.4	20
79	Self-assembly of a new type of periodic surface structure in a copolymer by excimer laser irradiation above the ablation threshold. <i>Journal of Applied Physics</i> , 2013, 114, 153105.	2.5	20
80	Rapid assessment of nonlinear optical propagation effects in dielectrics. <i>Scientific Reports</i> , 2015, 5, 7650.	3.3	20
81	Controlling ablation mechanisms in sapphire by tuning the temporal shape of femtosecond laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 150.	2.1	20
82	Deep Silicon Amorphization Induced by Femtosecond Laser Pulses up to the Mid-Infrared. <i>Advanced Optical Materials</i> , 2021, 9, 2100400.	7.3	20
83	Ultraviolet optical near-fields of microspheres imprinted in phase change films. <i>Applied Physics Letters</i> , 2010, 96, 193108.	3.3	19
84	Micro- and Submicrostructuring Thin Polymer Films with Two and Three-Beam Single Pulse Laser Interference Lithography. <i>Langmuir</i> , 2014, 30, 8973-8979.	3.5	19
85	Laser-Empowered Random Metasurfaces for White Light Printed Image Multiplexing. <i>Advanced Functional Materials</i> , 2021, 31, 2010430.	14.9	19
86	Photoacoustic studies of laser damage in oxide thin films. <i>Thin Solid Films</i> , 1994, 253, 333-338.	1.8	18
87	Fabrication of amorphous micro-ring arrays in crystalline silicon using ultrashort laser pulses. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	18
88	High frame-rate, 3-D photorefractive holography through turbid media with arbitrary sources, and photorefractive structured illumination. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 878-886.	2.9	17
89	Wide-field fluorescence lifetime imaging with optical sectioning and spectral resolution applied to biological samples. <i>Journal of Modern Optics</i> , 2002, 49, 985-995.	1.3	16
90	Tailoring metal-dielectric nanocomposite materials with ultrashort laser pulses for dichroic color control. <i>Nanoscale</i> , 2019, 11, 18779-18789.	5.6	16

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91	Supercooling and structural relaxation in amorphous Ge films under pulsed laser irradiation. <i>Journal of Applied Physics</i> , 1997, 82, 236-242.	2.5	14
92	Evidence for surface initiated solidification in Ge films upon picosecond laser pulse irradiation. <i>Journal of Applied Physics</i> , 2001, 89, 3642-3649.	2.5	14
93	High-speed 3D imaging using photorefractive holography with novel low-coherence interferometers. <i>Journal of Modern Optics</i> , 2002, 49, 877-887.	1.3	14
94	High spatial resolution in laser-induced breakdown spectroscopy of expanding plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 915-919.	2.9	14
95	Nanostructuring Thin Polymer Films with Optical Near Fields. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11402-11408.	8.0	14
96	Ad-hoc design of temporally shaped fs laser pulses based on plasma dynamics for deep ablation in fused silica. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 185-189.	2.3	14
97	Reorganizing and shaping of embedded near-coalescence silver nanoparticles with off-resonance femtosecond laser pulses. <i>Nanotechnology</i> , 2013, 24, 255301.	2.6	14
98	Femtosecond-resolved ablation dynamics of Si in the near field of a small dielectric particle. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 501-509.	2.8	14
99	Femtosecond laser writing of optical waveguides with controllable core size in high refractive index glass. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 239-242.	2.3	13
100	Correlation of the refractive index change at the surface and inside phosphate glass upon femtosecond laser irradiation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2665.	2.1	13
101	Quantitative imaging of the optical near field. <i>Optics Express</i> , 2012, 20, 22063.	3.4	13
102	Key stages of material expansion in dielectrics upon femtosecond laser ablation revealed by double-color illumination time-resolved microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	13
103	Femtosecond laser induced thermophoretic writing of waveguides in silicate glass. <i>Scientific Reports</i> , 2021, 11, 8390.	3.3	13
104	Generation, control and erasure of dual LIPSS in germanium with fs and ns laser pulses. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 485106.	2.8	13
105	Experimental study of a self-starting Kerr-lens mode-locked titanium-doped sapphire laser. <i>Optics Communications</i> , 1996, 123, 547-552.	2.1	12
106	<title>Influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol</title>. , 2001, 4259, 92.		12
107	Effect of pulsed laser irradiation on the structure of GeTe films deposited by metal organic chemical vapor deposition: A Raman spectroscopy study. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	12
108	Near-field nanoimprinting using colloidal monolayers. <i>Optics Express</i> , 2014, 22, 8226.	3.4	12

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109	Melt front propagation in dielectrics upon femtosecond laser irradiation: Formation dynamics of a heat-affected layer. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	12
110	Hot-wire chemical vapor growth and characterization of crystalline GeTe films. <i>Journal of Crystal Growth</i> , 2009, 311, 362-367.	1.5	11
111	Wide-field, real-time depth-resolved imaging using structured illumination with photorefractive holography. <i>Applied Physics Letters</i> , 2002, 81, 2148-2150.	3.3	10
112	Deep UV laser induced periodic surface structures on silicon formed by self-organization of nanoparticles. <i>Applied Surface Science</i> , 2020, 520, 146307.	6.1	10
113	Delayed melting at the substrate interface of amorphous Ge films partially melted with nanosecond laser pulses. <i>Journal of Applied Physics</i> , 2000, 88, 6321-6326.	2.5	9
114	Origin of the refractive index modification of femtosecond laser processed doped phosphate glass. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	9
115	Strong subbandgap photoconductivity in GaP implanted with Ti. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 214-222.	8.1	9
116	Optical spectroscopy study of nano- and microstructures fabricated by femtosecond laser pulses on ZnO based systems. <i>CrystEngComm</i> , 2018, 20, 2952-2960.	2.6	9
117	Wavelength-Resolved 3-Dimensional Fluorescence Lifetime Imaging. <i>Journal of Fluorescence</i> , 2002, 12, 279-283.	2.5	8
118	Influence of surface effects on the performance of lead- and niobium-germanate optical waveguides. <i>Applied Surface Science</i> , 2007, 254, 1111-1114.	6.1	8
119	Single-Step Fabrication of High-Performance Extraordinary Transmission Plasmonic Metasurfaces Employing Ultrafast Lasers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3446-3454.	8.0	8
120	Pressure-induced transient structural change of liquid germanium induced by high-energy picosecond laser pulses. <i>Applied Physics Letters</i> , 2005, 86, 221901.	3.3	7
121	Imaging the dissociation process of O ₂ background gas during pulsed laser ablation of LiNbO ₃ . <i>Applied Physics Letters</i> , 2005, 87, 211501.	3.3	7
122	Effect of air-flow on the evaluation of refractive surgery ablation patterns. <i>Optics Express</i> , 2011, 19, 4653.	3.4	7
123	Optimization of ultra-fast interactions using laser pulse temporal shaping controlled by a deterministic algorithm. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 477-484.	2.3	7
124	Solidification phenomena in Ge films upon nano- and pico-second laser pulse melting. <i>Applied Surface Science</i> , 1997, 109-110, 20-24.	6.1	6
125	Modeling of astigmatic-elliptical beam shaping during fs-laser waveguide writing including beam truncation and diffraction effects. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 687-693.	2.3	5
126	Mechanisms driving self-organization phenomena in random plasmonic metasurfaces under multipulse femtosecond laser exposure: a multitime scale study. <i>Nanophotonics</i> , 2022, 11, 2303-2318.	6.0	5

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127	Preferential Growth of ZnO Micro- and Nanostructure Assemblies on Fs-Laser-Induced Periodic Structures. <i>Nanomaterials</i> , 2020, 10, 731.	4.1	4
128	Nanosecond Laser Switching of Phase-Change Random Metasurfaces with Tunable ON-State. <i>Advanced Optical Materials</i> , 2022, 10, 2101405.	7.3	4
129	Multiscale ultrafast laser texturing of marble for reduced surface wetting. <i>Applied Surface Science</i> , 2022, 577, 151850.	6.1	4
130	The need of sub-nanosecond resolution to reveal new features during laser induced solidification. <i>Applied Surface Science</i> , 2000, 154-155, 130-134.	6.1	3
131	Exploiting optical near fields for phase change memories. <i>Applied Physics Letters</i> , 2011, 98, 013103.	3.3	3
132	2D compositional self-patterning in magnetron sputtered thin films. <i>Applied Surface Science</i> , 2019, 480, 115-121.	6.1	3
133	Raman Spectroscopy Study of Pulsed Laser Induced Structural Transformations in Amorphous Ge Films. <i>Materials Research Society Symposia Proceedings</i> , 1995, 397, 435.	0.1	2
134	Structural Relaxation and De-Relaxation Phenomena in Amorphous Ge Films upon Irradiation with Short and Ultrashort Laser Pulses. <i>Materials Research Society Symposia Proceedings</i> , 1995, 397, 441.	0.1	2
135	Nanocrystalline Ge Synthesis by Picosecond Pulsed Laser Induced Melting and Rapid Solidification. <i>Materials Research Society Symposia Proceedings</i> , 1996, 452, 839.	0.1	2
136	<title>Application of the stretched exponential function to fluorescence lifetime imaging of biological tissue</title>. , 2001, , .		2
137	<title>Waveguide structures in heavy-metal oxide glasses written with fs laser pulses</title>. , 2004, , .		2
138	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass. , 2014, , .		2
139	Imaging of Plasma Dynamics for Controlled Micromachining. <i>Topics in Applied Physics</i> , 2012, , 19-41.	0.8	2
140	Investigation of laser-induced damage at 248 nm in oxide thin films with a pulsed photoacoustic mirage technique. <i>European Physical Journal Special Topics</i> , 1994, 04, C7-745-C7-748.	0.2	1
141	Fluorescence lifetime imaging for biomedicine and spectroscopy. , 0, , .		1
142	Low-coherence photorefractive holography for high-speed 3D imaging including through scattering media. , 2002, 4619, 98.		1
143	Sub-ten nanosecond phase cycling of high contrast GeSbTe- and AgInSbTc-films. , 0, , .		1
144	Rapid calculation of the energy deposition profiles for processing of dielectrics with femtosecond lasers. , 2011, , .		1

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145	Study of the refractive index modification mechanisms of femtosecond laser processed waveguides in doped phosphate glass through its micro photoluminescence properties. , 2011, , .		1
146	Multiple One-Dimensional Search (MODS) algorithm for fast optimization of laser-matter interaction by phase-only fs-laser pulse shaping. Applied Physics B: Lasers and Optics, 2014, 116, 747-753.	2.2	1
147	Element Migration and Local Refractive Index Control in Silicate Glass by Femtosecond Laser Induced Element Redistribution. , 2021, , .		1
148	Fluorescence lifetime imaging of biological tissue: microscopy, endoscopy and complex decay profiles. , 2002, , .		1
149	Fluorescence Lifetime Imaging with a Blue Picosecond Diode Laser. , 2002, , .		1
150	Near UV multiphoton dissociation of organosilanes with picosecond and nanosecond laser pulses. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 133, 39-44.	3.9	0
151	<title>Five-dimensional fluorescence microscopy</title>. , 2001, , .		0
152	<title>High-speed 3D imaging using photorefractive holography with novel low-coherence interferometers</title>. , 2001, , .		0
153	Real-time 3-D imaging using structured illumination and photorefractive holography, including with fluorescence. , 2001, , .		0
154	5-D fluorescence imaging using an all-solid-state diode-pumped laser system. , 2001, , .		0
155	<title>High-speed 3D imaging using photorefractive holography with novel low-coherence interferometers</title>. , 2002, 4705, 242.		0
156	Mapping the rotational diffusion of fluorophores in cells with time-resolved wide-field fluorescence anisotropy imaging. , 0, , .		0
157	Fluorescence lifetime imaging of polymer LEDs. , 0, , .		0
158	Transient plasma dynamics and structural changes below and above the ablation threshold in glasses upon femtosecond laser irradiation. , 2007, , .		0
159	Amorphization dynamics of Ge₂Sb₂T₃ films under nano- and femtosecond laser pulse irradiation. , 2007, , .		0
160	Imaging of plasma formation, ablation and phase explosion upon femtosecond laser irradiation of crystalline Si and Ge. , 2009, , .		0
161	Femtosecond laser writing of optical waveguides using astigmatic-elliptical beams produced by a phase-only spatial light modulator. , 2009, , .		0
162	Large area, high speed inscription of laser-induced periodic surface structures (LIPSS) in Cr using a high repetition rate fs-laser. , 2013, , .		0

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163	In-situ characterization of Fs laser shaping of quasi-percolated Ag nanoparticle layers embedded in amorphous Al ₂ O ₃ . , 2013, , .		0
164	Plasma Imaging and Optimization of Energy Deposition during Femtosecond-laser Processing. MATEC Web of Conferences, 2013, 8, 04001.	0.2	0
165	Femtosecond-laser inscription via local modification of the glass composition in phosphate glasses. , 2014, , .		0
166	Modeling of single pulse 3-D energy deposition profiles inside dielectrics upon fs laser irradiation with complex beam wavefronts. Proceedings of SPIE, 2014, , .	0.8	0
167	Fabrication of amorphous-crystalline micro- and nanostructures in silicon using ultrashort laser pulses. , 2017, , .		0
168	Femtosecond laser-induced oxidation in the formation of periodic surface structures. , 2021, , .		0
169	Anisotropic Resistivity ITO Surfaces produced by Laser-induced Self-organization at the Nanoscale. , 2021, , .		0
170	Fluorescence lifetime imaging microscopy. , 2000, , .		0
171	IMAGING THE FLUORESCENCE LIFETIME OF GREEN FLUORESCENT PROTEIN REPORTS ON THE REFRACTIVE INDEX. , 2002, , .		0
172	Controlling ablation mechanisms in sapphire by irradiation with temporally shaped femtosecond laser pulses. , 2014, , .		0
173	Ultrafast Phase Transition in GeSb Films Triggered by Femtosecond Laser Pulses. Springer Series in Chemical Physics, 1998, , 307-309.	0.2	0
174	Study of phase change LIPPS formation in Si by fs-resolved microscopy. , 2016, , .		0
175	Exotic polarization effects in the production of ion-migration assisted, fs-laser written waveguides in phosphate glass. , 2016, , .		0
176	Amorphous-Crystalline Micro- and Nanostructures in Silicon Fabricated Using Ultrashort Laser Pulses. , 2017, , .		0