

Patrick Stoller

List of Publications by Year in descending order

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27
papers

2,073
citations

567144

15
h-index

752573

20
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27
all docs

27
docs citations

27
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and Spectroscopy of Gold Nanoparticles Using Supercontinuum White Light Confocal Microscopy. <i>Physical Review Letters</i> , 2004, 93, 037401.	2.9	469
2	Polarization-Modulated Second Harmonic Generation in Collagen. <i>Biophysical Journal</i> , 2002, 82, 3330-3342.	0.2	375
3	Polarization-dependent optical second-harmonic imaging of a rat-tail tendon. <i>Journal of Biomedical Optics</i> , 2002, 7, 205.	1.4	237
4	Interferometric optical detection and tracking of very small gold nanoparticles at a water-glass interface. <i>Optics Express</i> , 2006, 14, 405.	1.7	181
5	Quantitative second-harmonic generation microscopy in collagen. <i>Applied Optics</i> , 2003, 42, 5209.	2.1	144
6	Ubiquity of quasi-horizontal layers in the troposphere. <i>Nature</i> , 1999, 398, 316-319.	13.7	136
7	CO_2 as an Arc Interruption Medium in Gas Circuit Breakers. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2359-2369.	0.6	90
8	Measurement of the complex dielectric constant of a single gold nanoparticle. <i>Optics Letters</i> , 2006, 31, 2474.	1.7	89
9	Mixtures of CO ₂ and C ₅ F ₁₀ perfluoroketone for high voltage applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 2712-2721.	1.8	69
10	Effects of high repetition rate and beam size on hard tissue damage due to subpicosecond laser pulses. <i>Applied Physics Letters</i> , 2000, 76, 4001-4003.	1.5	56
11	Measurements of atmospheric layers from the NASA DC-8 and P-3B aircraft during PEM-Tropics A. <i>Journal of Geophysical Research</i> , 1999, 104, 5745-5764.	3.3	48
12	When the Genome Plays Dice: Circumvention of the Spindle Assembly Checkpoint and Near-Random Chromosome Segregation in Multipolar Cancer Cell Mitoses. <i>PLoS ONE</i> , 2008, 3, e1871.	1.1	44
13	Femtosecond lasers in fluid-inclusion analysis: overcoming metastable phase states. <i>European Journal of Mineralogy</i> , 2007, 19, 693-706.	0.4	40
14	Absolute measurement of molecular two-photon absorption cross-sections using a fluorescence saturation technique. <i>Optics Express</i> , 2006, 14, 8434.	1.7	37
15	Three-Dimensional Geometry of Collagenous Tissues by Second Harmonic Polarimetry. <i>Scientific Reports</i> , 2017, 7, 2642.	1.6	17
16	Breakdown fields in synthetic air, CO ₂ , a CO ₂ / O ₂ mixture, and CF ₄ in the pressure range 0.5–10 MPa. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 1582-1591.	1.8	15
17	Femtosecond lasers in fluid inclusion analysis: Three-dimensional imaging and determination of inclusion volume in quartz using second harmonic generation microscopy. <i>Earth and Planetary Science Letters</i> , 2007, 253, 359-368.	1.8	14
18	Some Aspects of Current Interruption Physics in High Voltage Circuit Breakers. <i>Contributions To Plasma Physics</i> , 2014, 54, 225-234.	0.5	4

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19	Second harmonic generation in collagen. , 2003, , .		3
20	Combined scattering confocal and multiphoton luminescence imaging of gold nanospheres. , 2008, , .		2
21	Behavior of Eco-Efficient Insulation Mixtures Under Internal-Arc-Like Conditions. IEEE Transactions on Plasma Science, 2021, 49, 3200-3211.	0.6	2
22	Multiphoton imaging of ultrashort pulse laser ablation in the intracellular parasite Theileria. Journal of Biomedical Optics, 2008, 13, 044021.	1.4	1
23	Ultra-short pulse lasers in geological fluid inclusion analysis. , 2007, , .		0
24	Dependence of the multiphoton luminescence spectrum of single gold nanoparticles on the refractive index of the surrounding medium. , 2008, , .		0
25	Numerical Investigation, Including Experimental Validation, of an Axially Blown, Stable Arc in Argon. Plasma Physics and Technology, 2019, 6, 78-81.	0.1	0
26	Electronic circuit for measuring the current slope (di/dt) and the post-arc current in gas-filled circuit breakers. Review of Scientific Instruments, 2020, 91, 024704.	0.6	0
27	Optical Diagnostics of Switching Arcs Near Current-zero: Speckle Imaging and Interferometry. Plasma Physics and Technology, 2017, 4, 44-47.	0.1	0