

David Gray

List of Publications by Year in descending order

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53
papers

2,677
citations

279798

23
h-index

315739

38
g-index

53
all docs

53
docs citations

53
times ranked

2636
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning predicts printing parameters for multi-photon polymerization three-dimensional direct laser writing (3D-DLW) (Conference Presentation). , 2020, , .		0
2	Quantum dot based 3D printed woodpile photonic crystals tuned for the visible. <i>Nanoscale Advances</i> , 2019, 1, 3413-3423.	4.6	12
3	Two Beam Initiation Threshold Measurements of Photo-Initiators for Laser Writing of Biocompatible 3D Structures. , 2019, , .		1
4	The role of intramolecular charge transfer and symmetry breaking in the photophysics of pyrrolo[3,2- <i>b</i>]pyrrole-dione. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22260-22271.	2.8	9
5	Quantum dot based 3D photonic devices. , 2017, , .		0
6	Polarization shaping of high-order harmonics in laser-aligned molecules. <i>Scientific Reports</i> , 2016, 6, 39295.	3.3	27
7	The ion microscope as a tool for quantitative measurements in the extreme ultraviolet. <i>Scientific Reports</i> , 2016, 6, 21556.	3.3	24
8	Donor–Acceptor Type Thioxanones: Synthesis, Optical Properties, and Two-Photon Induced Polymerization. <i>Macromolecules</i> , 2015, 48, 2466-2472.	4.8	49
9	Expanded Unsaturated Ketones: Synthesis, Optical Properties, and Two-Photon-Induced Polymerization. <i>ChemPhysChem</i> , 2015, 16, 682-690.	2.1	24
10	Disclosing intrinsic molecular dynamics on the 1-fs scale through extreme-ultraviolet pump-probe measurements. <i>Physical Review A</i> , 2014, 89, .	2.5	51
11	DConfusion: a technique to allow cross study performance evaluation of fault prediction studies. <i>Automated Software Engineering</i> , 2014, 21, 287-313.	2.9	21
12	Expanded Ketocoumarins as Efficient, Biocompatible Initiators for Two-Photon-Induced Polymerization. <i>Chemistry of Materials</i> , 2014, 26, 3175-3184.	6.7	72
13	XUV pump-XUV probe studies of 1fs scale dynamics in atoms and molecules. , 2014, , .		0
14	Redox Multiphoton Polymerization for 3D Nanofabrication. <i>Nano Letters</i> , 2013, 13, 3831-3835.	9.1	46
15	The influence of ultra-fast temporal energy regulation on the morphology of Si surfaces through femtosecond double pulse laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 273-283.	2.3	44
16	Push–Pull Acylo-Phosphine Oxides for Two-Photon-Induced Polymerization. <i>Macromolecules</i> , 2013, 46, 7239-7244.	4.8	45
17	Controlling ripples™ periodicity using temporally delayed femtosecond laser double pulses. <i>Optics Express</i> , 2013, 21, 18501.	3.4	49
18	Experimental demonstration of rogue waves in disordered Luneburg-type photonic networks. , 2013, , .		0

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19	Comparing the performance of fault prediction models which report multiple performance measures. , 2012, , .		36
20	High-resolution 3D woodpile structures by direct fs laser writing. Proceedings of SPIE, 2012, , .	0.8	2
21	A Systematic Literature Review on Fault Prediction Performance in Software Engineering. IEEE Transactions on Software Engineering, 2012, 38, 1276-1304.	5.6	801
22	3D microoptical elements formed in a photostructurable germanium silicate by direct laser writing. Optics and Lasers in Engineering, 2012, 50, 1785-1788.	3.8	46
23	Diffusion-Assisted High-Resolution Direct Femtosecond Laser Writing. ACS Nano, 2012, 6, 2302-2311.	14.6	173
24	3D Photonic Nanostructures via Diffusion-Assisted Direct fs Laser Writing. Advances in OptoElectronics, 2012, 2012, 1-6.	0.6	7
25	Three-dimensional Metallic Photonic Crystals with Optical Bandgaps. Advanced Materials, 2012, 24, 1101-1105.	21.0	88
26	Direct laser writing of microoptical structures using a Ge-containing hybrid material. Metamaterials, 2011, 5, 135-140.	2.2	20
27	Developing Fault-Prediction Models: What the Research Can Show Industry. IEEE Software, 2011, 28, 96-99.	1.8	22
28	Modification of AlN thin films morphology and structure by temporally shaping of fs laser pulses used for deposition. Thin Solid Films, 2011, 519, 6381-6387.	1.8	9
29	Holistic analysis of mix protocols. , 2011, , .		1
30	Direct laser writing of gain and metallic nanostructures. , 2011, , .		0
31	Microprocessing of thin collagen films by ultra-short laser ablation. Proceedings of SPIE, 2010, , .	0.8	0
32	Two-photon polymerization of titanium-containing sol-gel composites for three-dimensional structure fabrication. Applied Physics A: Materials Science and Processing, 2010, 100, 359-364.	2.3	74
33	Software defect prediction using static code metrics underestimates defect-proneness. , 2010, , .		15
34	Predicting drug absorption rates through human skin. , 2010, , .		2
35	Tuning spectral properties of ultrafast laser ablation plasmas from brass using adaptive temporal pulse shaping. Optics Express, 2010, 18, 11159.	3.4	12
36	Adaptive pattern-based image compression for ultra-low bandwidth weapon seeker image communication. Proceedings of SPIE, 2009, , .	0.8	3

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37	Using the Support Vector Machine as a Classification Method for Software Defect Prediction with Static Code Metrics. Communications in Computer and Information Science, 2009, , 223-234.	0.5	68
38	Direct laser writing of photonic nanostructures. , 2009, , .		1
39	Fabrication of three-dimensional photonic crystal structures containing an active nonlinear optical chromophore. Applied Physics A: Materials Science and Processing, 2008, 93, 11-15.	2.3	51
40	Laser Induced Forward Transfer of metals by temporally shaped femtosecond laser pulses. Optics Express, 2008, 16, 11300.	3.4	60
41	Ultra-Low Shrinkage Hybrid Photosensitive Material for Two-Photon Polymerization Microfabrication. ACS Nano, 2008, 2, 2257-2262.	14.6	443
42	Two-Photon Polymerization of Hybrid Sol-Gel Materials for Photonics Applications. Laser Chemistry, 2008, 2008, 1-7.	0.5	55
43	A formally verified proof of the prime number theorem. ACM Transactions on Computational Logic, 2007, 9, 2.	0.9	33
44	Ultraviolet laser filaments for remote laser-induced breakdown spectroscopy (LIBS) analysis: applications in cultural heritage monitoring. Optics Letters, 2006, 31, 1139.	3.3	98
45	Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC. Applied Surface Science, 2006, 252, 4857-4862.	6.1	16
46	Geometrical effect on the first hyperpolarizability of thiophene-substituted stilbene derivatives. Computational and Theoretical Chemistry, 2006, 762, 87-91.	1.5	4
47	Elimination of cracking during UV laser ablation of SrTiO3 single crystals by employing a femtosecond laser. Applied Surface Science, 2005, 252, 1910-1914.	6.1	6
48	Platform for enhanced detection efficiency in luminescence-based sensors. Electronics Letters, 2005, 41, 682.	1.0	23
49	Development of a micro-fluidic manifold for copper monitoring utilising chemiluminescence detection. Lab on A Chip, 2004, 4, 384.	6.0	23
50	Design of a microfluidic sensor for high-sensitivity Copper (II) sensing applications. , 2003, , .		0
51	Temperature-corrected pressure-sensitive paint measurements for aerodynamic applications. , 2003, 4876, 867.		0
52	Stabilized nonlinear optical chromophore alignment in high-guest - host polycarbonates. Journal Physics D: Applied Physics, 1997, 30, 3079-3084.	2.8	5
53	<title>High-dipole, high-beta molecules with blue window transparency</title>. , 1994, , .		6