

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	A Systematic Literature Review on Fault Prediction Performance in Software Engineering. IEEE Transactions on Software Engineering, 2012, 38, 1276-1304.	5.6	801
2	Ultra-Low Shrinkage Hybrid Photosensitive Material for Two-Photon Polymerization Microfabrication. ACS Nano, 2008, 2, 2257-2262.	14.6	443
3	Diffusion-Assisted High-Resolution Direct Femtosecond Laser Writing. ACS Nano, 2012, 6, 2302-2311.	14.6	173
4	Ultraviolet laser filaments for remote laser-induced breakdown spectroscopy (LIBS) analysis: applications in cultural heritage monitoring. Optics Letters, 2006, 31, 1139.	3.3	98
5	Three-Dimensional Metallic Photonic Crystals with Optical Bandgaps. Advanced Materials, 2012, 24, 1101-1105.	21.0	88
6	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
7	Ï-Expanded Ketocoumarins as Efficient, Biocompatible Initiators for Two-Photon-Induced Polymerization. Chemistry of Materials, 2014, 26, 3175-3184.	6.7	72
8	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
9	Laser Induced Forward Transfer of metals by temporally shaped femtosecond laser pulses. Optics Express, 2008, 16, 11300.	3.4	60
10	Two-Photon Polymerization of Hybrid Sol-Gel Materials for Photonics Applications. Laser Chemistry, 2008, 2008, 1-7.	0.5	55
11	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
12	Disclosing intrinsic molecular dynamics on the 1-fs scale through extreme-ultraviolet pump-probe measurements. Physical Review A, 2014, 89, .	2.5	51
13	Controlling ripples™ periodicity using temporally delayed femtosecond laser double pulses. Optics Express, 2013, 21, 18501.	3.4	49
14	Donor-Acceptor Type Thioxanones: Synthesis, Optical Properties, and Two-Photon Induced Polymerization. Macromolecules, 2015, 48, 2466-2472.	4.8	49
15	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
16	Redox Multiphoton Polymerization for 3D Nanofabrication. Nano Letters, 2013, 13, 3831-3835.	9.1	46
17	Push-Pull Acylo-Phosphine Oxides for Two-Photon-Induced Polymerization. Macromolecules, 2013, 46, 7239-7244.	4.8	45
18	The influence of ultra-fast temporal energy regulation on the morphology of Si surfaces through femtosecond double pulse laser irradiation. Applied Physics A: Materials Science and Processing, 2013, 113, 273-283.	2.3	44

#	ARTICLE	IF	CITATIONS
19	Comparing the performance of fault prediction models which report multiple performance measures. , 2012, , .		36
20	A formally verified proof of the prime number theorem. ACM Transactions on Computational Logic, 2007, 9, 2.	0.9	33
21	Polarization shaping of high-order harmonics in laser-aligned molecules. Scientific Reports, 2016, 6, 39295.	3.3	27
22	Expanded Unsaturated Ketones: Synthesis, Optical Properties, and Photon-Induced Polymerization. ChemPhysChem, 2015, 16, 682-690.	2.1	24
23	The ion microscope as a tool for quantitative measurements in the extreme ultraviolet. Scientific Reports, 2016, 6, 21556.	3.3	24
24	Development of a micro-fluidic manifold for copper monitoring utilising chemiluminescence detection. Lab on A Chip, 2004, 4, 384.	6.0	23
25	Platform for enhanced detection efficiency in luminescence-based sensors. Electronics Letters, 2005, 41, 682.	1.0	23
26	Developing Fault-Prediction Models: What the Research Can Show Industry. IEEE Software, 2011, 28, 96-99.	1.8	22
27	DConfusion: a technique to allow cross study performance evaluation of fault prediction studies. Automated Software Engineering, 2014, 21, 287-313.	2.9	21
28	Direct laser writing of microoptical structures using a Ge-containing hybrid material. Metamaterials, 2011, 5, 135-140.	2.2	20
29	Femtosecond pulse shaping for phase and morphology control in PLD: Synthesis of cubic SiC. Applied Surface Science, 2006, 252, 4857-4862.	6.1	16
30	Software defect prediction using static code metrics underestimates defect-proneness. , 2010, , .		15
31	Tuning spectral properties of ultrafast laser ablation plasmas from brass using adaptive temporal pulse shaping. Optics Express, 2010, 18, 11159.	3.4	12
32	Quantum dot based 3D printed woodpile photonic crystals tuned for the visible. Nanoscale Advances, 2019, 1, 3413-3423.	4.6	12
33	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
34	The role of intramolecular charge transfer and symmetry breaking in the photophysics of pyrrolo[3,2- <i>b</i>]pyrrole-dione. Physical Chemistry Chemical Physics, 2018, 20, 22260-22271.	2.8	9
35	3D Photonic Nanostructures via Diffusion-Assisted Direct fs Laser Writing. Advances in OptoElectronics, 2012, 2012, 1-6.	0.6	7
36	Elimination of cracking during UV laser ablation of SrTiO ₃ single crystals by employing a femtosecond laser. Applied Surface Science, 2005, 252, 1910-1914.	6.1	6

#	ARTICLE	IF	CITATIONS
37	<title>High-dipole, high-beta molecules with blue window transparency</title>. , 1994, , .		6
38	Stabilized nonlinear optical chromophore alignment in high- guest - host polycarbonates. Journal Physics D: Applied Physics, 1997, 30, 3079-3084.	2.8	5
39	Geometrical effect on the first hyperpolarizability of thiophene-substituted stilbene derivatives. Computational and Theoretical Chemistry, 2006, 762, 87-91.	1.5	4
40	Adaptive pattern-based image compression for ultra-low bandwidth weapon seeker image communication. Proceedings of SPIE, 2009, , .	0.8	3
41	Predicting drug absorption rates through human skin. , 2010, , .		2
42	High-resolution 3D woodpile structures by direct fs laser writing. Proceedings of SPIE, 2012, , .	0.8	2
43	Direct laser writing of photonic nanostructures. , 2009, , .		1
44	Holistic analysis of mix protocols. , 2011, , .		1
45	Two Beam Initiation Threshold Measurements of Photo-Initiators for Laser Writing of Biocompatible 3D Structures. , 2019, , .		1
46	Design of a microfluidic sensor for high-sensitivity Copper (II) sensing applications. , 2003, , .		0
47	Temperature-corrected pressure-sensitive paint measurements for aerodynamic applications. , 2003, 4876, 867.		0
48	Microprocessing of thin collagen films by ultra-short laser ablation. Proceedings of SPIE, 2010, , .	0.8	0
49	Direct laser writing of gain and metallic nanostructures. , 2011, , .		0
50	Experimental demonstration of rogue waves in disordered Luneburg-type photonic networks. , 2013, , .		0
51	Quantum dot based 3D photonic devices. , 2017, , .		0
52	XUV pump-XUV probe studies of 1fs scale dynamics in atoms and molecules. , 2014, , .		0
53	Machine Learning predicts printing parameters for multi-photon polymerization three-dimensional direct laser writing (3D-DLW) (Conference Presentation). , 2020, , .		0