

George D Tsibidis

List of Publications by Year in descending order

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56
papers

1,903
citations

279487

23
h-index

264894

42
g-index

60
all docs

60
docs citations

60
times ranked

1449
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of ripple formation on silicon surfaces by ultrashort laser pulses in subablation conditions. <i>Physical Review B</i> , 2012, 86, .	1.1	231
2	From ripples to spikes: A hydrodynamical mechanism to interpret femtosecond laser-induced self-assembled structures. <i>Physical Review B</i> , 2015, 92, .	1.1	208
3	Laser engineering of biomimetic surfaces. <i>Materials Science and Engineering Reports</i> , 2020, 141, 100562.	14.8	180
4	Dynamic behavior of GFPα€“CLIP-170 reveals fast protein turnover on microtubule plus ends. <i>Journal of Cell Biology</i> , 2008, 180, 729-737.	2.3	107
5	Biomimetic Omnidirectional Antireflective Glass via Direct Ultrafast Laser Nanostructuring. <i>Advanced Materials</i> , 2019, 31, e1901123.	11.1	103
6	Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers. <i>Physical Review B</i> , 2016, 94, .	1.1	88
7	Ripple formation on nickel irradiated with radially polarized femtosecond beams. <i>Optics Letters</i> , 2015, 40, 5172.	1.7	67
8	Nemo: a computational tool for analyzing nematode locomotion. <i>BMC Neuroscience</i> , 2007, 8, 86.	0.8	63
9	Distinct intracellular motifs of Delta mediate its ubiquitylation and activation by Mindbomb1 and Neuralized. <i>Journal of Cell Biology</i> , 2011, 195, 1017-1031.	2.3	53
10	Modelling periodic structure formation on 100Cr6 steel after irradiation with femtosecond-pulsed laser beams. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	52
11	Thermoplastic deformation of silicon surfaces induced by ultrashort pulsed lasers in submelting conditions. <i>Journal of Applied Physics</i> , 2012, 111, 053502.	1.1	44
12	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.	1.1	44
13	Controlled ultrashort-pulse laser-induced ripple formation on semiconductors. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 57-68.	1.1	40
14	Ripple formation on silver after irradiation with radially polarised ultrashort-pulsed lasers. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	35
15	Tailoring submicrometer periodic surface structures via ultrashort pulsed direct laser interference patterning. <i>Physical Review B</i> , 2021, 103, .	1.1	35
16	Investigation of femtosecond laser induced ripple formation on copper for varying incident angle. <i>AIP Advances</i> , 2018, 8, 015212.	0.6	33
17	Tuning the period of femtosecond laser induced surface structures in steel: From angled incidence to quill writing. <i>Applied Surface Science</i> , 2019, 493, 948-955.	3.1	31
18	On the formation and features of the supra-wavelength grooves generated during femtosecond laser surface structuring of silicon. <i>Applied Surface Science</i> , 2020, 528, 146607.	3.1	29

#	ARTICLE	IF	CITATIONS
19	Investigations on the Bragg grating recording in all-silica, standard and microstructured optical fibers using 248-nm, 5-ps laser radiation. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	0.9	28
20	Formation of periodic surface structures on dielectrics after irradiation with laser beams of spatially variant polarisation: a comparative study. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	27
21	Ultrashort pulsed laser induced complex surface structures generated by tailoring the melt hydrodynamics. <i>Opto-Electronic Advances</i> , 2022, 5, 210052-210052.	6.4	26
22	Analysis of dynamic mechanical response in torsion. <i>Journal of Rheology</i> , 2016, 60, 275-287.	1.3	25
23	Partial ablation of Ti/Al nano-layer thin film by single femtosecond laser pulse. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	25
24	Modelling of the ultrafast dynamics and surface plasmon properties of silicon upon irradiation with mid-IR femtosecond laser pulses. <i>Physical Review B</i> , 2019, 99, .	1.1	25
25	A complete mathematical study of a 3D model of heterogeneous and anisotropic glioma evolution. , 2009, 2009, 2807-10.		22
26	Thermal response of double-layered metal films after ultrashort pulsed laser irradiation: The role of nonthermal electron dynamics. <i>Applied Physics Letters</i> , 2014, 104, 051603.	1.5	22
27	Ultrafast dynamics and subwavelength periodic structure formation following irradiation of GaAs with femtosecond laser pulses. <i>Physical Review B</i> , 2018, 98, .	1.1	22
28	Ionisation processes and laser induced periodic surface structures in dielectrics with mid-infrared femtosecond laser pulses. <i>Scientific Reports</i> , 2020, 10, 8675.	1.6	21
29	High acoustic strains in Si through ultrafast laser excitation of Ti thin-film transducers. <i>Optics Express</i> , 2015, 23, 17191.	1.7	18
30	Type IIA Grating Inscription in a Highly Nonlinear Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 227-229.	1.3	15
31	The influence of dynamical change of optical properties on the thermomechanical response and damage threshold of noble metals under femtosecond laser irradiation. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	15
32	Modeling ultrafast out-of-equilibrium carrier dynamics and relaxation processes upon irradiation of hexagonal silicon carbide with femtosecond laser pulses. <i>Physical Review B</i> , 2020, 101, .	1.1	13
33	Investigation of binding mechanisms of nuclear proteins using confocal scanning laser microscopy and FRAP. <i>Journal of Theoretical Biology</i> , 2008, 253, 755-768.	0.8	12
34	Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	12
35	Surface structuring of rutile TiO ₂ (100) and (001) single crystals with femtosecond pulsed laser irradiation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2600.	0.9	12
36	Light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber. <i>Optics Express</i> , 2015, 23, 31496.	1.7	11

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37	Predictive modeling approaches in laser-based material processing. Journal of Applied Physics, 2020, 128, 183102.	1.1	10
38	Quantitative interpretation of binding reactions of rapidly diffusing species using fluorescence recovery after photobleaching. Journal of Microscopy, 2009, 233, 384-390.	0.8	9
39	Femtosecond Laser-Induced Periodic Surface Structures on 2D Ti-Fe Multilayer Condensates. Nanomaterials, 2021, 11, 316.	1.9	9
40	Hysteresis and metastability of Bose-Einstein-condensed clouds of atoms confined in ring potentials. Physical Review A, 2015, 91, .	1.0	8
41	Ultrafast laser pulse chirp effects on laser-generated nanoacoustic strains in Silicon. Ultrasonics, 2018, 86, 14-19.	2.1	8
42	Incommensurate atomic and magnetic modulations in the spin-frustrated O^2 triangular lattice. Physical Review Materials, 2018, 2, .	0.9	8
43	Electronic and vibrational processes in absorbing liquids in femtosecond laser sub- and filamentation regimes: ultrasonic and optical characterization. Laser Physics Letters, 2020, 17, 105302.	0.6	7
44	Controlling nanoscale acoustic strains in silicon using chirped femtosecond laser pulses. Applied Physics Letters, 2016, 108, 254102.	1.5	6
45	The Role of Crystalline Orientation in the Formation of Surface Patterns on Solids Irradiated with Femtosecond Laser Double Pulses. Applied Sciences (Switzerland), 2020, 10, 8811.	1.3	6
46	Impact of Pre-Patterned Structures on Features of Laser-Induced Periodic Surface Structures. Molecules, 2021, 26, 7330.	1.7	6
47	Pathways control in modification of solid surfaces induced by temporarily separated femtosecond laser pulses. Applied Surface Science, 2021, 566, 150611.	3.1	5
48	Incident angle influence on ripples and grooves produced by femtosecond laser irradiation of silicon. Applied Surface Science, 2021, 570, 151150.	3.1	5
49	Effects of static and dynamic femtosecond laser modifications of Ti/Zr multilayer thin films. European Physical Journal D, 2021, 75, 1.	0.6	4
50	<title>Diagnostically lossless video compression for angiogram data using a wavelet-based texture modeling approach</title>. , 2001, , .		3
51	Semi-automated Acanthamoeba polyphaga detection and computation of Salmonella typhimurium concentration in spatio-temporal images. Micron, 2011, 42, 911-920.	1.1	3
52	Unravelling ultrashort laser excitation of nickel at 800 nm wavelength. Journal Physics D: Applied Physics, 2021, 54, 495302.	1.3	3
53	Fabrication of Biomimetic 2D Nanostructures through Irradiation of Stainless Steel Surfaces with Double Femtosecond Pulses. Nanomaterials, 2022, 12, 623.	1.9	3
54	Inscription of type IIA Bragg reflectors in a highly non-linear microstructured optical fiber using deep ultraviolet laser radiation. Proceedings of SPIE, 2009, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Laser etched gratings inside microstructured optical fibres. MATEC Web of Conferences, 2013, 8, 05001.	0.1	0
56	Laser-Induced Multi-Functional Biomimetic Surfaces. , 2019, , .		0