

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	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
2	Fabrication of Biomimetic 2D Nanostructures through Irradiation of Stainless Steel Surfaces with Double Femtosecond Pulses. <i>Nanomaterials</i> , 2022, 12, 623.	1.9	3
3	Femtosecond Laser-Induced Periodic Surface Structures on 2D Ti-Fe Multilayer Condensates. <i>Nanomaterials</i> , 2021, 11, 316.	1.9	9
4	Tailoring submicrometer periodic surface structures via ultrashort pulsed direct laser interference patterning. <i>Physical Review B</i> , 2021, 103, .	1.1	35
5	Unravelling ultrashort laser excitation of nickel at 800 nm wavelength. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 495302.	1.3	3
6	Pathways control in modification of solid surfaces induced by temporarily separated femtosecond laser pulses. <i>Applied Surface Science</i> , 2021, 566, 150611.	3.1	5
7	Incident angle influence on ripples and grooves produced by femtosecond laser irradiation of silicon. <i>Applied Surface Science</i> , 2021, 570, 151150.	3.1	5
8	Impact of Pre-Patterned Structures on Features of Laser-Induced Periodic Surface Structures. <i>Molecules</i> , 2021, 26, 7330.	1.7	6
9	Effects of static and dynamic femtosecond laser modifications of Ti/Zr multilayer thin films. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	4
10	The Role of Crystalline Orientation in the Formation of Surface Patterns on Solids Irradiated with Femtosecond Laser Double Pulses. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8811.	1.3	6
11	Predictive modeling approaches in laser-based material processing. <i>Journal of Applied Physics</i> , 2020, 128, 183102.	1.1	10
12	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
13	Laser engineering of biomimetic surfaces. <i>Materials Science and Engineering Reports</i> , 2020, 141, 100562.	14.8	180
14	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
15	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
16	Electronic and vibrational processes in absorbing liquids in femtosecond laser sub- and filamentation regimes: ultrasonic and optical characterization. <i>Laser Physics Letters</i> , 2020, 17, 105302.	0.6	7
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	Biomimetic Omnidirectional Antireflective Glass via Direct Ultrafast Laser Nanostructuring. <i>Advanced Materials</i> , 2019, 31, e1901123.	11.1	103

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19	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
20	Laser-Induced Multi-Functional Biomimetic Surfaces. , 2019, , .		0
21	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
22	Investigation of femtosecond laser induced ripple formation on copper for varying incident angle. <i>AIP Advances</i> , 2018, 8, 015212.	0.6	33
23	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
24	Ultrafast laser pulse chirp effects on laser-generated nanoacoustic strains in Silicon. <i>Ultrasonics</i> , 2018, 86, 14-19.	2.1	8
25	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
26	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
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	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
29	Incommensurate atomic and magnetic modulations in the spin-frustrated $\text{O}^{\hat{2}}$ triangular lattice. <i>Physical Review Materials</i> , 2018, 2, .	0.9	8
30	Ripple formation on silver after irradiation with radially polarised ultrashort-pulsed lasers. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	35
31	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
32	Analysis of dynamic mechanical response in torsion. <i>Journal of Rheology</i> , 2016, 60, 275-287.	1.3	25
33	Controlling nanoscale acoustic strains in silicon using chirped femtosecond laser pulses. <i>Applied Physics Letters</i> , 2016, 108, 254102.	1.5	6
34	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
35	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
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	Ripple formation on nickel irradiated with radially polarized femtosecond beams. <i>Optics Letters</i> , 2015, 40, 5172.	1.7	67
38	Hysteresis and metastability of Bose-Einstein-condensed clouds of atoms confined in ring potentials. <i>Physical Review A</i> , 2015, 91, .	1.0	8
39	High acoustic strains in Si through ultrafast laser excitation of Ti thin-film transducers. <i>Optics Express</i> , 2015, 23, 17191.	1.7	18
40	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
41	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
42	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
43	Laser etched gratings inside microstructured optical fibres. <i>MATEC Web of Conferences</i> , 2013, 8, 05001.	0.1	0
44	Dynamics of ripple formation on silicon surfaces by ultrashort laser pulses in subablation conditions. <i>Physical Review B</i> , 2012, 86, .	1.1	231
45	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
46	Semi-automated <i>Acanthamoeba polyphaga</i> detection and computation of <i>Salmonella typhimurium</i> concentration in spatio-temporal images. <i>Micron</i> , 2011, 42, 911-920.	1.1	3
47	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
48	A complete mathematical study of a 3D model of heterogeneous and anisotropic glioma evolution. , 2009, 2009, 2807-10.		22
49	Quantitative interpretation of binding reactions of rapidly diffusing species using fluorescence recovery after photobleaching. <i>Journal of Microscopy</i> , 2009, 233, 384-390.	0.8	9
50	Type IIA Grating Inscription in a Highly Nonlinear Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 227-229.	1.3	15
51	Inscription of type IIA Bragg reflectors in a highly non-linear microstructured optical fiber using deep ultraviolet laser radiation. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
52	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
53	Dynamic behavior of GFP-CLIP-170 reveals fast protein turnover on microtubule plus ends. <i>Journal of Cell Biology</i> , 2008, 180, 729-737.	2.3	107
54	Nemo: a computational tool for analyzing nematode locomotion. <i>BMC Neuroscience</i> , 2007, 8, 86.	0.8	63

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55	<title>Diagnostically lossless video compression for angiogram data using a wavelet-based texture modeling approach</title>. , 2001, , .		3
56	Investigations on the Bragg grating recording in all-silica, standard and microstructured optical fibers using 248-nm, 5-ps laser radiation. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	28