

Florenta A Costache

List of Publications by Year in descending order

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37
papers

1,222
citations

840119

11
h-index

580395

25
g-index

38
all docs

38
docs citations

38
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Ripples revisited: non-classical morphology at the bottom of femtosecond laser ablation craters in transparent dielectrics. Applied Surface Science, 2002, 197-198, 891-895.	3.1	324
2	Self-organized pattern formation upon femtosecond laser ablation by circularly polarized light. Applied Surface Science, 2006, 252, 4702-4706.	3.1	153
3	Femtosecond laser induced nanostructure formation: self-organization control parameters. Applied Physics A: Materials Science and Processing, 2008, 92, 1019-1024.	1.1	139
4	Modification of dielectric surfaces with ultra-short laser pulses. Applied Surface Science, 2002, 186, 352-357.	3.1	136
5	Surface patterning on insulators upon femtosecond laser ablation. Applied Surface Science, 2003, 208-209, 486-491.	3.1	136
6	Control parameters in pattern formation upon femtosecond laser ablation. Applied Surface Science, 2007, 253, 7932-7936.	3.1	73
7	Self-organized regular surface patterning by pulsed laser ablation. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 681-686.	0.8	43
8	Near-damage threshold femtosecond laser irradiation of dielectric surfaces: desorbed ion kinetics and defect dynamics. Applied Physics A: Materials Science and Processing, 2008, 92, 897-902.	1.1	35
9	Femtosecond laser ablation from sodium chloride and barium fluoride. Applied Surface Science, 2002, 186, 381-384.	3.1	32
10	Femtosecond laser induced Coulomb explosion from calcium fluoride. Thin Solid Films, 2004, 453-454, 334-339.	0.8	23
11	Electrical properties of laser-ablation-initiated self-organized nanostructures on silicon surface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 114-117.	1.7	14
12	The role of energy and phase relaxation (T1 and T2) in ultrafast laser ablation. Journal of Physics: Conference Series, 2007, 59, 1-4.	0.3	11
13	Ultra short laser pulse ablation from sodium chloride—the role of laser induced color centers. Applied Surface Science, 2002, 197-198, 90-95.	3.1	10
14	Self-Assembled Surface Patterning and Structural Modification upon Femtosecond Laser Processing of Crystalline Silicon. Solid State Phenomena, 2004, 95-96, 635-640.	0.3	9
15	<title>Formation of self-organized regular nanostructures upon femtosecond laser ablation</title>. , 2004, , .		9
16	Dynamics of laser-induced desorption from dielectric surfaces on a sub-picosecond timescale. Applied Surface Science, 2006, 252, 4416-4419.	3.1	9
17	Femtosecond laser ionization mass spectrometric analysis of layers grown by pulsed laser deposition. Applied Surface Science, 2005, 247, 249-255.	3.1	8
18	Femtosecond Laser Interaction with Solid Surfaces: Explosive Ablation and Self-Assembly of Ordered Nanostructures. Advances in Atomic, Molecular and Optical Physics, 2006, , 227-251.	2.3	7

#	ARTICLE	IF	CITATIONS
19	Measurements of electromechanical properties of electrostrictive polymer actuators. <i>Procedia Engineering</i> , 2011, 25, 475-478.	1.2	7
20	Polymer Energy Harvester for Powering Wireless communication Systems. <i>Procedia Engineering</i> , 2015, 120, 333-336.	1.2	7
21	Development of a Compact, Low-Frequency Vibration, Piezoelectric MEMS Energy Harvester. <i>Proceedings (mdpi)</i> , 2017, 1, 588.	0.2	7
22	Femtosecond laser-induced nanostructuring and phase transformation of crystalline silicon. , 2004, , .		6
23	Explosive ion emission from ionic crystals induced by ultrashort laser pulses: influence on surface morphology. , 2003, , .		5
24	Strain-enhanced Nanocomposites of Electrostrictive Polymers and High-k Nanofillers for Micro-actuation Applications. <i>Procedia Engineering</i> , 2014, 87, 1601-1604.	1.2	5
25	Plano-convex Variable Focal Length Micro-lens with a Polymer Nanocomposite Actuator. <i>Procedia Engineering</i> , 2016, 168, 1496-1499.	1.2	3
26	Surface morphology after femtosecond laser ablation of insulators. , 2002, 4760, 980.		2
27	On ultra-short laser pulse induced instabilities at the surface of non-metallic solids. , 2006, , .		2
28	Design and Fabrication of a Tunable Two-fluid Micro-lens Device with a Large Deflection Polymer Actuator. <i>Procedia Engineering</i> , 2014, 87, 1553-1556.	1.2	2
29	Selective laser sintering processing of metallic components by using a Nd:YAG laser beam. , 2000, , .		1
30	Subpicosecond ion emission from transparent dielectrics. , 2002, , .		1
31	<title>Femtosecond laser induced surface instability resulting in self-organized nanostructures</title>. , 2007, , .		1
32	Polarization independent electro-optical waveguides with liquid crystals in isotropic phase. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
33	Transient processes in laser-solid interaction characterized by the induced thermoelectronic current variation. , 2001, 4430, 108.		0
34	Optical guiding and loss mechanisms in electro-optically induced waveguides based on isotropic phase liquid crystals. , 2013, , .		0
35	Strain-enhanced nanoparticle electrostrictive polymer blends for actuator applications. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
36	Peculiarities of the solidification mechanism of steel after Nd:YAG long-pulse laser welding. , 2000, , .		0

#	ARTICLE	IF	CITATIONS
37	Design and fabrication of liquid crystal microring resonator-based tunable optical add-drop filters (Conference Presentation). , 2019, , .		0