Wladimir Marine

List of Publications by Year
in descending order

41 papers	1,332 citations	361296 20 h-index	345118 36 g-index
41 all docs	41 docs citations	41 times ranked	1267 citing authors

#	Article	IF	Citations
1	Photoluminescence of silicon nanoclusters with reduced size dispersion produced by laser ablation. Journal of Applied Physics, 2000, 87, 3829-3837.	1.1	217
2	Femtosecond ablation of ultrahard materials. Applied Physics A: Materials Science and Processing, 2002, 74, 729-739.	1.1	170
3	Surface nanostructuring of metals by laser irradiation: effects of pulse duration, wavelength and gas atmosphere. Applied Physics A: Materials Science and Processing, 2004, 79, 1433-1437.	1.1	103
4	Luminescence from a Si-SiO2 nanocluster-like structure prepared by laser ablation. Thin Solid Films, 1995, 255, 286-289.	0.8	73
5	Modeling of gas dynamics for a laser-generated plasma: Propagation into low-pressure gases. Physical Review E, 2000, 62, 4152-4161.	0.8	72
6	Analytical thermal model of ultraviolet laser ablation with singleâ€photon absorption in the plume. Journal of Applied Physics, 1995, 78, 1241-1246.	1.1	53
7	Enhancement of exciton emission from ZnO nanocrystalline films by pulsed laser annealing. Applied Surface Science, 2004, 226, 242-248.	3.1	53
8	Experimental study of spontaneous electric field generated by a laser plasma. Applied Physics Letters, 1998, 73, 25-27.	1.5	50
9	Analysis of the plasma expansion dynamics by optical time-of-flight measurements. Applied Surface Science, 1992, 54, 264-270.	3.1	42
10	Ablation dynamics of silicon based targets in oxygen and nitrogen atmospheres. Thin Solid Films, 1994, 241, 103-108.	0.8	38
11	ZnO/mesoporous silica nanocomposites prepared by the reverse micelle and the colloidal methods: Photoluminescent properties and quantum size effect. Chemical Physics Letters, 2007, 438, 67-71.	1.2	36
12	Insight into electronic mechanisms of nanosecond-laser ablation of silicon. Journal of Applied Physics, 2008, 103, .	1.1	34
13	Impacts of Ambient and Ablation Plasmas on Short- and Ultrashort-Pulse Laser Processing of Surfaces. Micromachines, 2014, 5, 1344-1372.	1.4	29
14	Size dependent photoluminescence from Si nanoclusters produced by laser ablation. Journal of Luminescence, 1998, 80, 217-221.	1.5	27
15	Incorporation of cobalt into ZnO nanoclusters. Materials Science and Engineering C, 2005, 25, 614-617.	3.8	25
16	Cuprous oxide thin films prepared by thermal oxidation of copper layer. Morphological and optical properties. Journal of Luminescence, 2015, 159, 325-332.	1.5	24
17	Ablation of carbide materials with femtosecond pulses. Applied Surface Science, 2003, 205, 80-85.	3.1	23
18	â€˜â€˜Cleanâ€™â€™ processing of polymers and smoothing of ceramics by pulsed laser melting. Journal of Applied Physics, 1995, 77, 4714-4723.	1.1	22

#	Article	IF	Citations
19	Synthesis of nanoclusters by nanosecond laser ablation: Direct simulation Monte Carlo modelling. Applied Surface Science, 2006, 252, 4433-4438.	3.1	21
20	Non-linear absorption of focused femtosecond laser pulses at 1.3Î¼m inside silicon: Independence on doping concentration. Applied Surface Science, 2013, 278, 13-18.	3.1	21
21	Surface oxide removal by a XeCl laser for decontamination. Quantum Electronics, 2000, 30, 495-500.	0.3	20
22	Random laser action of ZnO@mesoporous silicas. Nanotechnology, 2008, 19, 105710.	1.3	19
23	Synthesis and spectroscopic properties of 4-amino-1,8-naphthalimide derivatives involving the carboxylic group: a new molecular probe for ZnO nanoparticles with unusual fluorescence features. Beilstein Journal of Organic Chemistry, 2013, 9, 1311-1318.	1.3	19
24	Dibenzo[2,3:5,6]pyrrolizino[1,7-bc]indolo[1,2,3-lm]carbazole: a new electron donor. New Journal of Chemistry, 2010, 34, 1243.	1.4	18
25	Non-linear absorption of 1.3-Î¼m wavelength femtosecond laser pulses focused inside semiconductors: Finite difference time domain-two temperature model combined computational study. Journal of Applied Physics, 2011, 110, .	1.1	18
26	Substituted dibenzo[2,3:5,6]-pyrrolizino[1,7-bc]indolo[1,2,3-lm]carbazoles: a series of new electron donors. Tetrahedron, 2013, 69, 3302-3307.	1.0	15
27	Electric fields of a laser plasma formed by optical breakdown of air near various targets. Quantum Electronics, 1998, 28, 24-28.	0.3	14
28	Emission spectra analyses of a new vacuum ultraviolet source. Applied Physics Letters, 1993, 63, 2333-2335.	1.5	10
29	Time-resolved measurements of plume shielding during ArF laser ablation of silicon. Thin Solid Films, 1994, 241, 129-133.	0.8	10
30	Synthesis and properties of Si and Ge nanoclusters produced by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 1999, 69, S217-S221.	1.1	9
31	VUV light production from a formed-ferrite plasma source. Applied Surface Science, 1993, 69, 185-192.	3.1	7
32	Shock wave and plasma dynamics in a surface discharge flash lamp. Applied Physics Letters, 1994, 65, 1626-1628.	1.5	7
33	Picosecond laser structuration under high pressures: Observation of boron nitride nanorods. Journal of Applied Physics, 2008, 104, .	1.1	6
34	Quantum Size Effect and very localized random laser in ZnO@mesoporous silica nanocomposite following a two-photon absorption process. Journal of Non-Crystalline Solids, 2009, 355, 1152-1156.	1.5	6
35	Cluster Generation Under Pulsed Laser Ablation Of Compound Semiconductors. AIP Conference Proceedings, 2010, , .	0.3	6
36	<title>Femtosecond laser ablation of materials</title>. , 2003, , .		5

#	Article	IF	Citations
37	Laser surface microstructuring to improve tribological systems. , 2003, , .		4
38	A general continuum approach to describe fast electronic transport in pulsed laser irradiated materials: the problem of Coulomb explosion. , 2004, , .		4
39	Excimer laser decontamination. , 2000, 4071, 196.		1
40	Properties of nano-structured cuprous oxide thin films fabricated by thermal oxidation of copper layer. Proceedings of SPIE, 2011, , .	0.8	1
41	Microstructure of Yî—¸Baî—¸Cuî—¸O superconducting thin films deposited by high power and high repetition rate excimer lasers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 14, 134-141.	1.7	0