

Ioan Dancus

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

520
citations

1163117

8
h-index

1058476

14
g-index

27
all docs

27
docs citations

27
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	The extreme light infrastructureâ€™ nuclear physics (ELI-NP) facility: new horizons in physics with 10 PW ultra-intense lasers and 20 MeV brilliant gamma beams. Reports on Progress in Physics, 2018, 81, 094301.	20.1	164
2	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	3.9	114
3	High-energy hybrid femtosecond laser system demonstrating 2 Å– 10 PW capability. High Power Laser Science and Engineering, 2020, 8, .	4.6	108
4	10 PW peak power femtosecond laser pulses at ELI-NP. High Power Laser Science and Engineering, 2022, 10, .	4.6	46
5	Saturated near-resonant refractive optical nonlinearity in CdTe quantum dots. Optics Letters, 2010, 35, 1079.	3.3	24
6	Synthesis and characterization of side-chain maleimide-styrene copolymers with new pendant azobenzene moieties. Journal of Polymer Research, 2011, 18, 1009-1016.	2.4	15
7	Single shot interferometric method for measuring the nonlinear refractive index. Optics Express, 2013, 21, 31303.	3.4	15
8	Generation of shock trains in free liquid jets with a nanosecond green laser. Physical Review Fluids, 2020, 5, .	2.5	9
9	Suppression of thermal nanoplasma emission in clusters strongly ionized by hard x-rays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 044001.	1.5	7
10	Optical limiting in CdTe nanocrystals embedded in polystyrene. Proceedings of SPIE, 2009, , .	0.8	4
11	Nonlinear optical properties of Rh610 sensitized DNA-CTMA characterized by Z-Scan. Proceedings of SPIE, 2013, , .	0.8	4
12	<title>Z-Scan measurement of thermal optical nonlinearities</title>. Proceedings of SPIE, 2007, 6785, 380.	0.8	2
13	Perspectives for neutron and gamma spectroscopy in high power laser driven experiments at ELI-NP. , 2015, , .		2
14	Free space variable optical attenuator using frustrated total internal reflection with 70â€™dB dynamic range. Applied Optics, 2018, 57, 10051.	1.8	2
15	<title>Multiple-pass Z-Scan for the characterization of partial transparent nonlinear optical materials</title>. , 2004, , .		1
16	<title>Confocal microscopy for visualization and characterization of porous silicon samples</title>. Proceedings of SPIE, 2007, , .	0.8	1
17	Optical Thin Film Compression for Laser Induced Plasma Diagnostics. , 2019, , .		1
18	10 petawatt lasers for extreme light applications. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Size dependent nonlinear properties of thiol-capped CdTe QDs. , 2009, , .		0
20	Side-chain polymers bearing azo-moieties for nonlinear optics. , 2010, , .		0
21	Optical limiting in polystyrene embedded nanocrystals. , 2010, , .		0
22	Large optical nonlinearities in copolymers with new pendant azobenzene moieties. , 2011, , .		0
23	All - Optical spatial light modulator using CdTe quantum dots. , 2011, , .		0
24	Laser-based acceleration for nuclear physics experiments at ELI-NP. EPJ Web of Conferences, 2016, 117, 05004.	0.3	0
25	Hollow core inhibited coupling fibers design for femtosecond pulse spectral broadening in multipetawatt laser-induced plasma diagnostics. , 2017, , .		0
26	First HPLS Experiments at ELI-NP: Spectral Broadening in Thin Films. , 2020, , .		0
27	Prospects for Ultra High Irradiance at Extreme Light Infrastructure - Nuclear Physics. , 2020, , .		0