Petru Ghenuche

List of Publications by Year
in descending order

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47 papers	2,159 citations	361413 20 h-index	330143 37 g-index

47 all docs	47 docs citations	47 times ranked	2996 citing authors

#	Article	IF	Citations
1	Electron acceleration from transparent targets irradiated by ultra-intense helical laser beams. Communications Physics, 2022, 5, .	5.3	4
2	Structuring Free-Standing Foils for Laser-Driven Particle Acceleration Experiments. Frontiers in Physics, 2021, 9, .	2.1	2
3	Electron transport in a nanowire irradiated by an intense laser pulse. Physical Review Research, 2021, 3, .	3.6	5
4	Overview of ELI-NP status and laser commissioning experiments with 1 PW and 10 PW class-lasers. Journal of Instrumentation, 2020, 15, C09053-C09053.	1.2	11
5	High-energy hybrid femtosecond laser system demonstrating 2 Ã— 10 PW capability. High Power Laser Science and Engineering, 2020, 8, .	4.6	108
6	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	3.9	114
7	A broad energy range (100 MeVâ€“10 GeV) electron spectrometer for high power laser wakefield acceleration experiments. AIP Advances, 2020, 10, .	1.3	1
8	10 petawatt lasers for extreme light applications. , 2020, , .		1
9	Prospects for Ultra High Irradiance at Extreme Light Infrastructure - Nuclear Physics. , 2020, , .		0
10	Laserâ€driven radiation: Biomarkers for molecular imaging of high doseâ€rate effects. Medical Physics, 2019, 46, e726-e734.	3.0	6
11	Dose calculations in a cell monolayer for high-throughput irradiation with proton beams generated by PW lasers for space applications. Life Sciences in Space Research, 2018, 19, 68-75.	2.3	2
12	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
13	An assessment on the accuracy of high precision 3D positioning using planar fiducial markers. , 2017, , .		7
14	Competition between FÃ¶rster Resonance Energy Transfer and Donor Photodynamics in Plasmonic Dimer Nanoantennas. ACS Photonics, 2016, 3, 895-903.	6.6	61
15	FRET Enhancement in Aluminum Zeroâ€Mode Waveguides. ChemPhysChem, 2015, 16, 782-788.	2.1	42
16	FRET analysis of CP12 structural interplay by GAPDH and PRK. Biochemical and Biophysical Research Communications, 2015, 458, 488-493.	2.1	13
17	Matching Nanoantenna Field Confinement to FRET Distances Enhances FÃ¶rster Energy Transfer Rates. Nano Letters, 2015, 15, 6193-6201.	9.1	85
18	Multi-focus parallel detection of fluorescent molecules at picomolar concentration with photonic nanojets arrays. Applied Physics Letters, 2014, 105, .	3.3	33

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19	Plasmonic antennas and zeroâ€mode waveguides to enhance single molecule fluorescence detection and fluorescence correlation spectroscopy toward physiological concentrations. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 268-282.	6.1	53
20	Nanophotonic Enhancement of the FÃ¶rster Resonance Energy-Transfer Rate with Single Nanoapertures. Nano Letters, 2014, 14, 4707-4714.	9.1	86
21	Infrared spectral filters based on guided-mode resonance with subwavelength structures. , 2013, , .		0
22	Quasi-total funneling of light in high aspect ratio gold grooves. Proceedings of SPIE, 2012, , .	0.8	0
23	Kagome hollow-core photonic crystal fiber probe for Raman spectroscopy. Optics Letters, 2012, 37, 4371.	3.3	58
24	Hollow-core photonic crystal fiber probe for remote fluorescence sensing with single molecule sensitivity. Optics Express, 2012, 20, 28379.	3.4	25
25	Free-standing guided-mode resonance band-pass filters: from 1D to 2D structures. Optics Express, 2012, 20, 13082.	3.4	49
26	Spectral filtering with subwavelength gratings: overview and latest advances. Proceedings of SPIE, 2012, , .	0.8	3
27	Optical Extinction in a Single Layer of Nanorods. Physical Review Letters, 2012, 109, 143903.	7.8	56
28	Infrared spectral filtering based on guided-mode resonance structure. Proceedings of SPIE, 2012, , .	0.8	1
29	Photonic nanojet focusing for hollow-core photonic crystal fiber probes. Applied Optics, 2012, 51, 8637.	1.8	6
30	Plasmonic enhancement of up-conversion in ultrathin layers. Proceedings of SPIE, 2012, , .	0.8	3
31	Î»³/1000 Plasmonic Nanocavities for Biosensing Fabricated by Soft UV Nanoimprint Lithography. Nano Letters, 2011, 11, 3557-3563.	9.1	210
32	Guided mode resonance in subwavelength metallodielectric free-standing grating for bandpass filtering. Optics Letters, 2011, 36, 3054.	3.3	78
33	Nearly total optical extinction in arrays of non-resonant nanorods. Proceedings of SPIE, 2011, , .	0.8	0
34	Total funneling of light in high aspect ratio plasmonic nanoresonators. Applied Physics Letters, 2011, 98, .	3.3	76
35	Nano-optical Trapping of Rayleigh Particles and Escherichia coli Bacteria with Resonant Optical Antennas. Nano Letters, 2009, 9, 3387-3391.	9.1	326
36	Individual gold dimers investigated by far- and near-field imaging. Journal of Microscopy, 2008, 229, 254-258.	1.8	19

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37	Spectroscopic Mode Mapping of Resonant Plasmon Nanoantennas. Physical Review Letters, 2008, 101, 116805.	7.8	332
38	Detection of plasmon-enhanced luminescence fields from an optically manipulated pair of partially metal covered dielectric spheres. Optics Letters, 2008, 33, 2749.	3.3	18
39	Spectroscopic TPL imaging of gold nano-antennas. , 2008, , .		0
40	Mode mapping of plasmonic stars using TPL microscopy. New Journal of Physics, 2008, 10, 105013.	2.9	11
41	Probing the local field of nanoantennas using single particle luminescence. Journal of Physics: Conference Series, 2008, 100, 052038.	0.4	3
42	Cavity resonances in finite plasmonic chains. Applied Physics Letters, 2007, 90, 041109.	3.3	14
43	Two-photon photoluminescence spectroscopy of metal dimers. , 2006, , .		1
44	Local Field Spectroscopy of Metal Dimers by TPL Microscopy. Plasmonics, 2006, 1, 41-44.	3.4	23
45	Plasmon-based nano-lenses. , 2005, , .		0
46	Cumulative plasmon field enhancement in finite metal particle chains. Optics Letters, 2005, 30, 1882.	3.3	49
47	Generation of sub-wavelength traps in the optical near field. , 2004, , .		0