

Petru Ghenuche

List of Publications by Year in descending order

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47
papers

2,159
citations

361413
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330143
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g-index

47
all docs

47
docs citations

47
times ranked

2996
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic Mode Mapping of Resonant Plasmon Nanoantennas. Physical Review Letters, 2008, 101, 116805.	7.8	332
2	Nano-optical Trapping of Rayleigh Particles and <i>Escherichia coli</i> Bacteria with Resonant Optical Antennas. Nano Letters, 2009, 9, 3387-3391.	9.1	326
3	~ 1000 Plasmonic Nanocavities for Biosensing Fabricated by Soft UV Nanoimprint Lithography. Nano Letters, 2011, 11, 3557-3563.	9.1	210
4	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
5	Current status and highlights of the ELI-NP research program. Matter and Radiation at Extremes, 2020, 5, .	3.9	114
6	High-energy hybrid femtosecond laser system demonstrating 2 Å— 10 PW capability. High Power Laser Science and Engineering, 2020, 8, .	4.6	108
7	Nanophotonic Enhancement of the Förster Resonance Energy-Transfer Rate with Single Nanoapertures. Nano Letters, 2014, 14, 4707-4714.	9.1	86
8	Matching Nanoantenna Field Confinement to FRET Distances Enhances Förster Energy Transfer Rates. Nano Letters, 2015, 15, 6193-6201.	9.1	85
9	Guided mode resonance in subwavelength metallodielectric free-standing grating for bandpass filtering. Optics Letters, 2011, 36, 3054.	3.3	78
10	Total funneling of light in high aspect ratio plasmonic nanoresonators. Applied Physics Letters, 2011, 98, .	3.3	76
11	Competition between Förster Resonance Energy Transfer and Donor Photodynamics in Plasmonic Dimer Nanoantennas. ACS Photonics, 2016, 3, 895-903.	6.6	61
12	Kagome hollow-core photonic crystal fiber probe for Raman spectroscopy. Optics Letters, 2012, 37, 4371.	3.3	58
13	Optical Extinction in a Single Layer of Nanorods. Physical Review Letters, 2012, 109, 143903.	7.8	56
14	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
15	Cumulative plasmon field enhancement in finite metal particle chains. Optics Letters, 2005, 30, 1882.	3.3	49
16	Free-standing guided-mode resonance band-pass filters: from 1D to 2D structures. Optics Express, 2012, 20, 13082.	3.4	49
17	FRET Enhancement in Aluminum Zeroâ€”Mode Waveguides. ChemPhysChem, 2015, 16, 782-788.	2.1	42
18	Multi-focus parallel detection of fluorescent molecules at picomolar concentration with photonic nanojets arrays. Applied Physics Letters, 2014, 105, .	3.3	33

#	ARTICLE	IF	CITATIONS
19	Hollow-core photonic crystal fiber probe for remote fluorescence sensing with single molecule sensitivity. Optics Express, 2012, 20, 28379.	3.4	25
20	Local Field Spectroscopy of Metal Dimers by TPL Microscopy. Plasmonics, 2006, 1, 41-44.	3.4	23
21	Individual gold dimers investigated by far- and near-field imaging. Journal of Microscopy, 2008, 229, 254-258.	1.8	19
22	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
23	Cavity resonances in finite plasmonic chains. Applied Physics Letters, 2007, 90, 041109.	3.3	14
24	FRET analysis of CP12 structural interplay by GAPDH and PRK. Biochemical and Biophysical Research Communications, 2015, 458, 488-493.	2.1	13
25	Mode mapping of plasmonic stars using TPL microscopy. New Journal of Physics, 2008, 10, 105013.	2.9	11
26	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
27	An assessment on the accuracy of high precision 3D positioning using planar fiducial markers. , 2017, , .		7
28	Photonic nanojet focusing for hollow-core photonic crystal fiber probes. Applied Optics, 2012, 51, 8637.	1.8	6
29	Laser-driven radiation: Biomarkers for molecular imaging of high dose-rate effects. Medical Physics, 2019, 46, e726-e734.	3.0	6
30	Electron transport in a nanowire irradiated by an intense laser pulse. Physical Review Research, 2021, 3, .	3.6	5
31	Electron acceleration from transparent targets irradiated by ultra-intense helical laser beams. Communications Physics, 2022, 5, .	5.3	4
32	Probing the local field of nanoantennas using single particle luminescence. Journal of Physics: Conference Series, 2008, 100, 052038.	0.4	3
33	Spectral filtering with subwavelength gratings: overview and latest advances. Proceedings of SPIE, 2012, , .	0.8	3
34	Plasmonic enhancement of up-conversion in ultrathin layers. Proceedings of SPIE, 2012, , .	0.8	3
35	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
36	Structuring Free-Standing Foils for Laser-Driven Particle Acceleration Experiments. Frontiers in Physics, 2021, 9, .	2.1	2

#	ARTICLE	IF	CITATIONS
37	Two-photon photoluminescence spectroscopy of metal dimers. , 2006, , .		1
38	Infrared spectral filtering based on guided-mode resonance structure. Proceedings of SPIE, 2012, , .	0.8	1
39	A broad energy range (100 MeVâ€“10 GeV) electron spectrometer for high power laser wakefield acceleration experiments. AIP Advances, 2020, 10, .	1.3	1
40	10 petawatt lasers for extreme light applications. , 2020, , .		1
41	Generation of sub-wavelength traps in the optical near field. , 2004, , .		0
42	Plasmon-based nano-lenses. , 2005, , .		0
43	Spectroscopic TPL imaging of gold nano-antennas. , 2008, , .		0
44	Nearly total optical extinction in arrays of non-resonant nanorods. Proceedings of SPIE, 2011, , .	0.8	0
45	Quasi-total funneling of light in high aspect ratio gold grooves. Proceedings of SPIE, 2012, , .	0.8	0
46	Infrared spectral filters based on guided-mode resonance with subwavelength structures. , 2013, , .		0
47	Prospects for Ultra High Irradiance at Extreme Light Infrastructure - Nuclear Physics. , 2020, , .		0