Lora Ramunno

List of Publications by Year
in descending order

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		430874	434195
49	984	18	31
papers	citations	h-index	g-index

52	52	52	1220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser-induced plasmonic colours on metals. Nature Communications, 2017, 8, 16095.	12.8	161
2	Highly Charged Ions from Laser-Cluster Interactions: Local-Field-Enhanced Impact Ionization and Frustrated Electron-Ion Recombination. Physical Review Letters, 2007, 99, 233401.	7.8	91
3	Intense VUV laser cluster interaction in the strong coupling regime. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3029-3036.	1.5	87
4	On the convergence and accuracy of the FDTD method for nanoplasmonics. Optics Express, 2015, 23, 10481.	3.4	83
5	Plasmonic colours predicted by deep learning. Scientific Reports, 2019, 9, 8074.	3.3	66
6	Imaging and modeling collagen architecture from the nano to micro scale. Biomedical Optics Express, 2014, 5, 233.	2.9	49
7	Analysis of forward and backward Second Harmonic Generation images to probe the nanoscale structure of collagen within bone and cartilage. Journal of Biophotonics, 2015, 8, 993-1001.	2.3	45
8	The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. Biophysical Journal, 2015, 109, 2501-2510.	0.5	44
9	Imaging the noncentrosymmetric structural organization of tendon with Interferometric Second Harmonic Generation microscopy. Journal of Biophotonics, 2014, 7, 638-646.	2.3	33
10	Tunable Plasmonic Metasurfaces for Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	33
11	Topography Tuning for Plasmonic Color Enhancement via Picosecond Laser Bursts. Advanced Optical Materials, 2018, 6, 1800189.	7.3	29
12	Modeling and Characterization of Antireflection Coatings with Embedded Silver Nanoparticles for Silicon Solar Cells. Plasmonics, 2015, 10, 1525-1536.	3.4	22
13	Dual-polarization plasmonic metasurface for nonlinear optics. Optics Letters, 2015, 40, 2874.	3.3	22
14	Recombination effects in soft-x-ray cluster interactions at the xenon giant resonance. New Journal of Physics, 2013, 15, 053047.	2.9	20
15	Vectorial control of nonlinear emission via chiral butterfly nanoantennas: generation of pure high order nonlinear vortex beams. Optics Express, 2017, 25, 2569.	3.4	20
16	Probing attosecond kinetic physics in strongly coupled plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4923-4931.	1.5	19
17	Origin of third harmonic generation in plasmonic nanoantennas. Optical Materials Express, 2017, 7, 1575.	3.0	19
18	Light-opals interaction modeling by direct numerical solution of Maxwellâ€™s equations. Optics Express, 2014, 22, 27739.	3.4	18

#	Article	IF	Citations
19	Augmented collisional ionization via excited states in XUV cluster interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 165102.	1.5	13
20	Effect of soft-core potentials on inverse bremsstrahlung heating during laser matter interactions. Physics of Plasmas, 2017, 24, .	1.9	13
21	Parallel FDTD Modeling of Nonlocality in Plasmonics. IEEE Transactions on Antennas and Propagation, 2021, 69, 3982-3994.	5.1	12
22	Clusters in intense XUV pulses: Effects of cluster size on expansion dynamics and ionization. Physical Review A, 2011, 83, .	2.5	10
23	Helium ion beam lithography and liftoff. Nano Futures, 2021, 5, 025003.	2.2	10
24	Laser-written colours on silver: optical effect of alumina coating. Nanophotonics, 2019, 8, 807-822.	6.0	9
25	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. Nano Letters, 2021, 21, 51-59.	9.1	9
26	Ultraintense laser-cluster interactions: Effects of the cluster shape. Physical Review A, 2016, 93, .	2.5	8
27	Investigating the Optical Properties of a Laser Induced 3D Selfâ€Assembled Carbonâ€“Metal Hybrid Structure. Small, 2019, 15, e1900512.	10.0	6
28	Elimination of imaging artifacts in second harmonic generation microscopy using interferometry. Biomedical Optics Express, 2019, 10, 3938.	2.9	6
29	Parallel finite-difference time-domain modeling of an opal photonic crystal. Optical Engineering, 2014, 53, 071809.	1.0	5
30	Comparison of the effect of soft-core potentials and Coulombic potentials on bremsstrahlung during laser matter interaction. Physics of Plasmas, 2018, 25, .	1.9	4
31	Intense VUVâ€“xenon-cluster interaction revisited. Physical Review A, 2019, 100, .	2.5	3
32	Induced transparency in the XUV: a pump-probe test of laser-cluster interactions. Journal of Physics Communications, 2018, 2, 051002.	1.2	2
33	Gouy phase shift measurement using interferometric second-harmonic generation. Optics Letters, 2018, 43, 1958.	3.3	2
34	Effect of refractive index mismatch on forward-to-backward ratios in SHG imaging. Optics Letters, 2018, 43, 5082.	3.3	2
35	Computational Electrodynamics - A Powerful Tool for Nanophotonics and Microscopy. MRS Advances, 2018, 3, 753-760.	0.9	1
36	Deep Learning and Inverse Design in Plasmonic. , 2019, , .		1

#	Article	IF	Citations
37	Optical beam steering for LIDAR via tunable plasmonic metasurfaces. , 2020, , .		1
38	Investigating the Optical Properties of a Novel 3D Self-Assembled Metamaterial made of Carbon Intercalated with Bimetal Nanoparticles. , 2018, , .		1
39	Plasma Physics in the Strong Coupling Regime: Intense VUV Laser-Cluster Interaction. Springer Series in Chemical Physics, 2006, , 95-105.	0.2	1
40	Plasmonic colours on bulk metals: laser coloring of large areas exhibiting high topography. , 2018, , .		1
41	Deep Learning for Engineering Optical Scattering from Plasmonic Nanostructures. , 2021, , .		1
42	Intense Laser Interaction with Noble Gas Clusters. Springer Series in Optical Sciences, 2008, , 225-241.	0.7	0
43	FDTD method and HPC for plasmonic nanoantennas. , 2015, , .		0
44	Plasmonic metasurfaces for nonlinear optics. , 2016, , .		0
45	Simulation of nanophotonic nonlinear metasurfaces. , 2019, , .		0
46	Removing artifacts in Second Harmonic Generation imaging by interferometry. , 2019, , .		0
47	Shifted plasmonic nanorods to enhance the density of hot-spots for surface-based nonlinear optics. , 2016, , .		0
48	Ptychography for Nonlinear Optical Microscopy: Retrieving Phase without Interferometry. , 2017, , .		0
49	Nonlinear plasmonic metasurfaces. , 2018, , .		0