Lora Ramunno

List of Publications by Year
in descending order

		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	Tunable Plasmonic Metasurfaces for Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	33
2	Helium ion beam lithography and liftoff. Nano Futures, 2021, 5, 025003.	2.2	10
3	Parallel FDTD Modeling of Nonlocality in Plasmonics. IEEE Transactions on Antennas and Propagation, 2021, 69, 3982-3994.	5.1	12
4	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. Nano Letters, 2021, 21, 51-59.	9.1	9
5	Deep Learning for Engineering Optical Scattering from Plasmonic Nanostructures. , 2021, , .		1
6	Optical beam steering for LIDAR via tunable plasmonic metasurfaces. , 2020, , .		1
7	Plasmonic colours predicted by deep learning. Scientific Reports, 2019, 9, 8074.	3.3	66
8	Deep Learning and Inverse Design in Plasmonic. , 2019, , .		1
9	Simulation of nanophotonic nonlinear metasurfaces. , 2019, , .		0
10	Laser-written colours on silver: optical effect of alumina coating. Nanophotonics, 2019, 8, 807-822.	6.0	9
11	Investigating the Optical Properties of a Laser Induced 3D Selfâ€Assembled Carbonâ€“Metal Hybrid Structure. Small, 2019, 15, e1900512.	10.0	6
12	Removing artifacts in Second Harmonic Generation imaging by interferometry. , 2019, , .		0
13	Intense VUVâ€“xenon-cluster interaction revisited. Physical Review A, 2019, 100, .	2.5	3
14	Elimination of imaging artifacts in second harmonic generation microscopy using interferometry. Biomedical Optics Express, 2019, 10, 3938.	2.9	6
15	Computational Electrodynamics - A Powerful Tool for Nanophotonics and Microscopy. MRS Advances, 2018, 3, 753-760.	0.9	1
16	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
17	Induced transparency in the XUV: a pump-probe test of laser-cluster interactions. Journal of Physics Communications, 2018, 2, 051002.	1.2	2
18	Topography Tuning for Plasmonic Color Enhancement via Picosecond Laser Bursts. Advanced Optical Materials, 2018, 6, 1800189.	7.3	29

#	Article	IF	Citations
19	Gouy phase shift measurement using interferometric second-harmonic generation. Optics Letters, 2018, 43, 1958.	3.3	2
20	Investigating the Optical Properties of a Novel 3D Self-Assembled Metamaterial made of Carbon Intercalated with Bimetal Nanoparticles. , 2018, , .		1
21	Effect of refractive index mismatch on forward-to-backward ratios in SHG imaging. Optics Letters, 2018, 43, 5082.	3.3	2
22	Nonlinear plasmonic metasurfaces. , 2018, , .		0
23	Plasmonic colours on bulk metals: laser coloring of large areas exhibiting high topography. , 2018, , .		1
24	Laser-induced plasmonic colours on metals. Nature Communications, 2017, 8, 16095.	12.8	161
25	Effect of soft-core potentials on inverse bremsstrahlung heating during laser matter interactions. Physics of Plasmas, 2017, 24, .	1.9	13
26	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
27	Origin of third harmonic generation in plasmonic nanoantennas. Optical Materials Express, 2017, 7, 1575.	3.0	19
28	Ptychography for Nonlinear Optical Microscopy: Retrieving Phase without Interferometry. , 2017, , .		0
29	Plasmonic metasurfaces for nonlinear optics. , 2016, , .		0
30	Ultraintense laser-cluster interactions: Effects of the cluster shape. Physical Review A, 2016, 93, .	2.5	8
31	Shifted plasmonic nanorods to enhance the density of hot-spots for surface-based nonlinear optics. , 2016, , .		0
32	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
33	Modeling and Characterization of Antireflection Coatings with Embedded Silver Nanoparticles for Silicon Solar Cells. Plasmonics, 2015, 10, 1525-1536.	3.4	22
34	The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. Biophysical Journal, 2015, 109, 2501-2510.	0.5	44
35	On the convergence and accuracy of the FDTD method for nanoplasmonics. Optics Express, 2015, 23, 10481.	3.4	83
36	Dual-polarization plasmonic metasurface for nonlinear optics. Optics Letters, 2015, 40, 2874.	3.3	22

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37	FDTD method and HPC for plasmonic nanoantennas. , 2015, , .		0
38	Imaging and modeling collagen architecture from the nano to micro scale. Biomedical Optics Express, 2014, 5, 233.	2.9	49
39	Light-opals interaction modeling by direct numerical solution of Maxwellâ€™s equations. Optics Express, 2014, 22, 27739.	3.4	18
40	Imaging the noncentrosymmetric structural organization of tendon with Interferometric Second Harmonic Generation microscopy. Journal of Biophotonics, 2014, 7, 638-646.	2.3	33
41	Parallel finite-difference time-domain modeling of an opal photonic crystal. Optical Engineering, 2014, 53, 071809.	1.0	5
42	Recombination effects in soft-x-ray cluster interactions at the xenon giant resonance. New Journal of Physics, 2013, 15, 053047.	2.9	20
43	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
44	Clusters in intense XUV pulses: Effects of cluster size on expansion dynamics and ionization. Physical Review A, 2011, 83, .	2.5	10
45	Intense Laser Interaction with Noble Gas Clusters. Springer Series in Optical Sciences, 2008, , 225-241.	0.7	0
46	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
47	Probing attosecond kinetic physics in strongly coupled plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4923-4931.	1.5	19
48	Plasma Physics in the Strong Coupling Regime: Intense VUV Laser-Cluster Interaction. Springer Series in Chemical Physics, 2006, , 95-105.	0.2	1
49	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