Hugo LourenÃ§o-Martins

List of Publications by Year
in descending order

29 papers	671 citations	687363 13 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	818 citing authors

#	Article	IF	Citations
1	Unveiling the Coupling of Single Metallic Nanoparticles to Whispering-Gallery Microcavities. Nano Letters, 2022, 22, 319-327.	9.1	15
2	Development of phase-shaped electron energy-loss spectroscopy for nano-optics. Advances in Imaging and Electron Physics, 2022, , .	0.2	0
3	A brief introduction to nano-optics with fast electrons. Advances in Imaging and Electron Physics, 2022, , .	0.2	0
4	Exploring nano-optical excitations coupling with fast electrons techniques. Advances in Imaging and Electron Physics, 2022, , .	0.2	0
5	Bridging nano-optics and condensed matter formalisms in a unified description of inelastic scattering of relativistic electron beams. SciPost Physics, 2021, 10, .	4.9	6
6	Optical polarization analogue in free electron beams. Nature Physics, 2021, 17, 598-603.	16.7	15
7	Spontaneous and stimulated electronâ€“photon interactions in nanoscale plasmonic near fields. Light: Science and Applications, 2021, 10, 82.	16.6	40
8	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. Microscopy and Microanalysis, 2021, 27, 320-321.	0.4	0
9	Visualizing Strong Light-matter Interactions Using Fast Electrons. Microscopy and Microanalysis, 2020, 26, 3182-3184.	0.4	0
10	Coherent Phase Control of Ultrashort Electron Pulses by Traveling Optical Waves and Whispering-gallery Modes. Microscopy and Microanalysis, 2020, 26, 678-680.	0.4	0
11	Imaging Nanoscale Optical Fields with Inelastic Electron-light Scattering. Microscopy and Microanalysis, 2020, 26, 1920-1922.	0.4	0
12	Probing Chirality with Inelastic Electron-Light Scattering. Nano Letters, 2020, 20, 4377-4383.	9.1	23
13	Controlling free electrons with optical whispering-gallery modes. Nature, 2020, 582, 46-49.	27.8	132
14	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. Nano Letters, 2020, 20, 2973-2979.	9.1	36
15	Spectromicroscopies Ã©lectroniquesÂ: sonder les propriÃ©tÃ©s optiques de nanomatÃ©riaux avec des Ã©lectrons rapides. Photoniques, 2020, , 39-43.	0.1	0
16	Toward Quantum Optics with Free Electrons. Optics and Photonics News, 2020, 31, 35.	0.5	0
17	Towards Plasmon-Exciton Hybridization at the Nanoscale using STEM EELS. Microscopy and Microanalysis, 2019, 25, 624-625.	0.4	0
18	Visualizing Spatial Variations of Plasmonâ€“Exciton Polaritons at the Nanoscale Using Electron Microscopy. Nano Letters, 2019, 19, 8171-8181.	9.1	77

#	Article	IF	Citations
19	Hybridization of Gap Modes and Lattice Modes in a Plasmonic Resonator Array with a Metalâ€“Insulatorâ€“Metal Structure. ACS Photonics, 2019, 6, 2618-2625.	6.6	6
20	Emergence of point defect states in a plasmonic crystal. Physical Review B, 2019, 100, .	3.2	5
21	Self-hybridization within non-Hermitian localized plasmonic systems. Nature Physics, 2018, 14, 360-364.	16.7	28
22	Probing Plasmon-NV⁰ Coupling at the Nanometer Scale with Photons and Fast Electrons. ACS Photonics, 2018, 5, 324-328.	6.6	24
23	Monolayer and thin <i>h</i>â€“BN as substrates for electron spectro-microscopy analysis of plasmonic nanoparticles. Applied Physics Letters, 2018, 113, .	3.3	9
24	Probing the symmetry of the potential of localized surface plasmon resonances with phase-shaped electron beams. Nature Communications, 2017, 8, 14999.	12.8	95
25	Nanocross: A Highly Tunable Plasmonic System. Journal of Physical Chemistry C, 2017, 121, 16521-16527.	3.1	10
26	Vibrational Surface Electron-Energy-Loss Spectroscopy Probes Confined Surface-Phonon Modes. Physical Review X, 2017, 7, .	8.9	36
27	InGaN nanowires with high InN molar fraction: growth, structural and optical properties. Nanotechnology, 2016, 27, 195704.	2.6	19
28	Extinction and Scattering Properties of High-Order Surface Plasmon Modes in Silver Nanoparticles Probed by Combined Spatially Resolved Electron Energy Loss Spectroscopy and Cathodoluminescence. ACS Photonics, 2016, 3, 1654-1661.	6.6	42
29	Plexciton Quenching by Resonant Electron Transfer from Quantum Emitter to Metallic Nanoantenna. Nano Letters, 2013, 13, 5972-5978.	9.1	53