Nerea Zabala Unzalu

List of Publications by Year
in descending order

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33 papers	1,200 citations	516710 16 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	1630 citing authors

#	Article	IF	Citations
1	A novel vibrational spectroscopy using spintronicâ€“plasmonic antennas: Magneto-refractive surface-enhanced infrared absorption. Journal of Applied Physics, 2021, 129, .	2.5	10
2	Single-nanoantenna driven nanoscale control of the VO₂ insulator to metal transition. Nanophotonics, 2021, 10, 3745-3758.	6.0	4
3	Flickering nanometre-scale disorder in a crystal lattice tracked by plasmonic flare light emission. Nature Communications, 2020, 11, 682.	12.8	28
4	Magnetic modulation of far- and near-field IR properties in rod-slit complementary spintronic metasurfaces. Optics Express, 2020, 28, 32584.	3.4	8
5	Broad band infrared modulation using spintronic-plasmonic metasurfaces. Nanophotonics, 2019, 8, 1847-1854.	6.0	10
6	Atomic-Scale Lightning Rod Effect in Plasmonic Picocavities: A Classical View to a Quantum Effect. ACS Nano, 2018, 12, 585-595.	14.6	155
7	Metamaterial Platforms for Spintronic Modulation of Mid-Infrared Response under Very Weak Magnetic Field. ACS Photonics, 2018, 5, 3956-3961.	6.6	20
8	Analysis of electromagnetic forces and causality in electron microscopy. Ultramicroscopy, 2018, 192, 80-84.	1.9	13
9	Metal oxide metasurfaces for active control and space technology. , 2017, , .		0
10	Antenna-assisted picosecond control of nanoscale phase transition in vanadium dioxide. Light: Science and Applications, 2016, 5, e16173-e16173.	16.6	87
11	Anisotropic Nanoantenna-Based Magnetoplasmonic Crystals for Highly Enhanced and Tunable Magneto-Optical Activity. Nano Letters, 2016, 16, 2533-2542.	9.1	67
12	Optical Resonances of Colloidal Gold Nanorods: From Seeds to Chemically Thiolated Long Nanorods. Journal of Physical Chemistry C, 2015, 119, 7856-7864.	3.1	9
13	Optical properties and sensing in plexcitonic nanocavities: from simple molecular linkers to molecular aggregate layers. Nanotechnology, 2014, 25, 035201.	2.6	16
14	Optical transport and sensing in plexcitonic nanocavities. Optics Express, 2013, 21, 15847.	3.4	27
15	Coupling of nanoparticle plasmons with molecular linkers. Proceedings of SPIE, 2011, , .	0.8	3
16	Optical Spectroscopy of Conductive Junctions in Plasmonic Cavities. Nano Letters, 2010, 10, 3090-3095.	9.1	221
17	Quantum well states, resonances and stability of metallic overlayers. Journal of Physics Condensed Matter, 2008, 20, 315002.	1.8	4
18	Quantum size effects of Pb overlayers at high coverages. Applied Surface Science, 2007, 254, 29-31.	6.1	2

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19	Cherenkov Effect as a Probe of Photonic Nanostructures. Physical Review Letters, 2003, 91, 143902.	7.8	71
20	Analysis of the shell- and supershell structures of metallic nanowires with jellium models. Nanotechnology, 2002, 13, 363-368.	2.6	15
21	Electronic structure and prediction of magnetism in metallic nanowires. Journal of Magnetism and Magnetic Materials, 2002, 249, 193-199.	2.3	16
22	Image potential in scanning transmission electron microscopy. Progress in Surface Science, 2000, 65, 1-64.	8.3	59
23	Electronic structure of cylindrical simple-metal nanowires in the stabilized jellium model. Physical Review B, 1999, 59, 12652-12660.	3.2	36
24	Zabala, Puska, and Nieminen Reply:. Physical Review Letters, 1999, 82, 3000-3000.	7.8	7
25	Spontaneous Magnetization of Simple Metal Nanowires. Physical Review Letters, 1998, 80, 3336-3339.	7.8	85
26	Coupling effects in the excitations by an external electron beam near close particles. Physical Review B, 1997, 56, 7623-7635.	3.2	29
27	Temperature study in flash annealing of metallic glasses. Journal Physics D: Applied Physics, 1995, 28, 2607-2611.	2.8	7
28	A self-energy approach to the energy loss in STEM. Journal of Physics Condensed Matter, 1993, 5, A407-A408.	1.8	0
29	Electron energy loss near supported particles. Physical Review B, 1993, 48, 14534-14542.	3.2	21
30	Theory of energy loss in scanning transmission electron microscopy of supported small particles. Physical Review Letters, 1992, 69, 3362-3365.	7.8	42
31	Support effects on the surface plasmon modes of small particles. Ultramicroscopy, 1991, 35, 145-150.	1.9	10
32	Energy loss of fast electrons moving near plane boundaries with dispersive media. Ultramicroscopy, 1990, 32, 327-335.	1.9	45
33	Energy loss of electrons travelling through cylindrical holes. Surface Science, 1989, 209, 465-480.	1.9	73