

# 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	Optical Spectroscopy of Conductive Junctions in Plasmonic Cavities. <i>Nano Letters</i> , 2010, 10, 3090-3095.	9.1	221
2	Atomic-Scale Lightning Rod Effect in Plasmonic Picocavities: A Classical View to a Quantum Effect. <i>ACS Nano</i> , 2018, 12, 585-595.	14.6	155
3	Antenna-assisted picosecond control of nanoscale phase transition in vanadium dioxide. <i>Light: Science and Applications</i> , 2016, 5, e16173-e16173.	16.6	87
4	Spontaneous Magnetization of Simple Metal Nanowires. <i>Physical Review Letters</i> , 1998, 80, 3336-3339.	7.8	85
5	Energy loss of electrons travelling through cylindrical holes. <i>Surface Science</i> , 1989, 209, 465-480.	1.9	73
6	Cherenkov Effect as a Probe of Photonic Nanostructures. <i>Physical Review Letters</i> , 2003, 91, 143902.	7.8	71
7	Anisotropic Nanoantenna-Based Magnetoplasmonic Crystals for Highly Enhanced and Tunable Magneto-Optical Activity. <i>Nano Letters</i> , 2016, 16, 2533-2542.	9.1	67
8	Image potential in scanning transmission electron microscopy. <i>Progress in Surface Science</i> , 2000, 65, 1-64.	8.3	59
9	Energy loss of fast electrons moving near plane boundaries with dispersive media. <i>Ultramicroscopy</i> , 1990, 32, 327-335.	1.9	45
10	Theory of energy loss in scanning transmission electron microscopy of supported small particles. <i>Physical Review Letters</i> , 1992, 69, 3362-3365.	7.8	42
11	Electronic structure of cylindrical simple-metal nanowires in the stabilized jellium model. <i>Physical Review B</i> , 1999, 59, 12652-12660.	3.2	36
12	Coupling effects in the excitations by an external electron beam near close particles. <i>Physical Review B</i> , 1997, 56, 7623-7635.	3.2	29
13	Flickering nanometre-scale disorder in a crystal lattice tracked by plasmonic flare light emission. <i>Nature Communications</i> , 2020, 11, 682.	12.8	28
14	Optical transport and sensing in plexcitonic nanocavities. <i>Optics Express</i> , 2013, 21, 15847.	3.4	27
15	Electron energy loss near supported particles. <i>Physical Review B</i> , 1993, 48, 14534-14542.	3.2	21
16	Metamaterial Platforms for Spintronic Modulation of Mid-Infrared Response under Very Weak Magnetic Field. <i>ACS Photonics</i> , 2018, 5, 3956-3961.	6.6	20
17	Electronic structure and prediction of magnetism in metallic nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 249, 193-199.	2.3	16
18	Optical properties and sensing in plexcitonic nanocavities: from simple molecular linkers to molecular aggregate layers. <i>Nanotechnology</i> , 2014, 25, 035201.	2.6	16

#	ARTICLE	IF	CITATIONS
19	Analysis of the shell- and supershell structures of metallic nanowires with jellium models. Nanotechnology, 2002, 13, 363-368.	2.6	15
20	Analysis of electromagnetic forces and causality in electron microscopy. Ultramicroscopy, 2018, 192, 80-84.	1.9	13
21	Support effects on the surface plasmon modes of small particles. Ultramicroscopy, 1991, 35, 145-150.	1.9	10
22	Broad band infrared modulation using spintronic-plasmonic metasurfaces. Nanophotonics, 2019, 8, 1847-1854.	6.0	10
23	A novel vibrational spectroscopy using spintronicâ€“plasmonic antennas: Magneto-refractive surface-enhanced infrared absorption. Journal of Applied Physics, 2021, 129, .	2.5	10
24	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
25	Magnetic modulation of far- and near-field IR properties in rod-slit complementary spintronic metasurfaces. Optics Express, 2020, 28, 32584.	3.4	8
26	Temperature study in flash annealing of metallic glasses. Journal Physics D: Applied Physics, 1995, 28, 2607-2611.	2.8	7
27	Zabala, Puska, and Nieminen Reply:. Physical Review Letters, 1999, 82, 3000-3000.	7.8	7
28	Quantum well states, resonances and stability of metallic overlayers. Journal of Physics Condensed Matter, 2008, 20, 315002.	1.8	4
29	Single-nanoantenna driven nanoscale control of the VO <sub>2</sub> insulator to metal transition. Nanophotonics, 2021, 10, 3745-3758.	6.0	4
30	Coupling of nanoparticle plasmons with molecular linkers. Proceedings of SPIE, 2011, , .	0.8	3
31	Quantum size effects of Pb overlayers at high coverages. Applied Surface Science, 2007, 254, 29-31.	6.1	2
32	A self-energy approach to the energy loss in STEM. Journal of Physics Condensed Matter, 1993, 5, A407-A408.	1.8	0
33	Metal oxide metasurfaces for active control and space technology. , 2017, , .		0