NicolÃ¡s Pazos-PÃ©rez

List of Publications by Year
in descending order

72	3,597	101384	133063
papers	citations	36 h-index	59 g-index

79	79	79	5587
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Widefield SERS for Highâ€Throughput Nanoparticle Screening. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
2	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. Analysis & Sensing, 2022, 2, .	1.1	16
3	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. Analysis & Sensing, 2022, 2, .	1.1	7
4	Design and fabrication of bimetallic plasmonic colloids through cold nanowelding. Nanoscale, 2022, 14, 9439-9447.	2.8	1
5	Fabrication of colloidal platforms for surfaceâ€enhanced Raman spectroscopy on optically inert templates. Journal of Raman Spectroscopy, 2021, 52, 554-562.	1.2	5
6	Silver melamine thin film as a flexible platform for SERS analysis. Nanoscale, 2021, 13, 7375-7380.	2.8	5
7	Gold-spiked coating of silver particles through cold nanowelding. Nanoscale, 2021, 13, 4530-4536.	2.8	4
8	Spontaneous and stimulated electronâ€“photon interactions in nanoscale plasmonic near fields. Light: Science and Applications, 2021, 10, 82.	7.7	40
9	Positively-charged plasmonic nanostructures for SERS sensing applications. RSC Advances, 2021, 12, 845-859.	1.7	11
10	Surface-enhanced Raman scattering holography. Nature Nanotechnology, 2020, 15, 1005-1011.	15.6	59
11	Fabrication of Plasmonic Supercrystals and Their SERS Enhancing Properties. ACS Omega, 2020, 5, 25485-25492.	1.6	19
12	Synthesis of SERS-encoded nanotags: From single nanoparticles to highly brilliant complex core-satellite structures. Journal of Physics: Conference Series, 2020, 1461, 012127.	0.3	0
13	Fabrication of Hybrid Silver Microstructures from Vermiculite Templates as SERS Substrates. Nanomaterials, 2020, 10, 481.	1.9	1
14	Fabrication and SERS properties of complex and organized nanoparticle plasmonic clusters stable in solution. Nanoscale, 2020, 12, 14948-14956.	2.8	39
15	Nanoparticle-based mobile biosensors for the rapid detection of sepsis biomarkers in whole blood. Nanoscale Advances, 2020, 2, 1253-1260.	2.2	52
16	Iron-Assisted Synthesis of Highly Monodispersed and Magnetic Citrate-Stabilized Small Silver Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 3270-3276.	1.5	6
17	Microporous Plasmonic Capsules as Stable Molecular Sieves for Direct SERS Quantification of Small Pollutants in Natural Waters. ChemNanoMat, 2019, 5, 46-50.	1.5	31
18	Modular assembly of plasmonic coreâ€“satellite structures as highly brilliant SERS-encoded nanoparticles. Nanoscale Advances, 2019, 1, 122-131.	2.2	50

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19	Three-Dimensional Surface-Enhanced Raman Scattering Platforms: Large-Scale Plasmonic Hotspots for New Applications in Sensing, Microreaction, and Data Storage. Accounts of Chemical Research, 2019, 52, 1844-1854.	7.6	94
20	Extraordinarily transparent compact metallic metamaterials. Nature Communications, 2019, 10, 2118.	5.8	32
21	Boosting the analytical properties of gold nanostars by single particle confinement into yolk porous silica shells. Nanoscale, 2019, 11, 21872-21879.	2.8	10
22	Silverâ€Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. Small, 2018, 14, e1703879.	5.2	30
23	Nanotechnologies for early diagnosis, in situ disease monitoring, and prevention. , 2018, , 1-92.		10
24	Continuous-wave multiphoton photoemission from plasmonic nanostars. Communications Physics, 2018, 1, .	2.0	37
25	Plasmonic Macroscopic Structures: from linear assemblies to 3D structured super-crystals. Journal of Physics: Conference Series, 2018, 1092, 012113.	0.3	0
26	Plasmon Tunability of Gold Nanostars at the Tip Apexes. ACS Omega, 2018, 3, 17173-17179.	1.6	44
27	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1307-1317.	1.4	8
28	Surface Modifications of Nanoparticles for Stability in Biological Fluids. Materials, 2018, 11, 1154.	1.3	352
29	SERS-fluorescent encoded particles as dual-mode optical probes. Applied Materials Today, 2018, 13, 1-14.	2.3	41
30	Smelling, Seeing, Tastingâ€"Old Senses for New Sensing. ACS Nano, 2017, 11, 5217-5222.	7.3	34
31	The Structure of Short and Genomic DNA at the Interparticle Junctions of Cationic Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1700724.	1.9	17
32	Cancer characterization and diagnosis with SERS-encoded particles. Cancer Nanotechnology, 2017, 8, .	1.9	55
33	Ultrasensitive multiplex optical quantification of bacteria in large samples of biofluids. Scientific Reports, 2016, 6, 29014.	1.6	59
34	Surface-Enhanced Raman Scattering Surface Selection Rules for the Proteomic Liquid Biopsy in Real Samples: Efficient Detection of the Oncoprotein c-MYC. Journal of the American Chemical Society, 2016, 138, 14206-14209.	6.6	72
35	Online SERS Quantification of Staphylococcus aureus and the Application to Diagnostics in Human Fluids. Advanced Materials Technologies, 2016, 1, 1600163.	3.0	45
36	Fabrication and optical enhancing properties of discrete supercrystals. Nanoscale, 2016, 8, 12702-12709.	2.8	17

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37	Ultrasensitive Direct Quantification of Nucleobase Modifications in DNA by Surfaceâ€Enhanced Raman Scattering: The Case of Cytosine. Angewandte Chemie - International Edition, 2015, 54, 13650-13654.	7.2	60
38	SERS efficiencies of micrometric polystyrene beads coated with gold and silver nanoparticles: the effect of nanoparticle size. Journal of Optics (United Kingdom), 2015, 17, 114012.	1.0	33
39	Universal One-Pot and Scalable Synthesis of SERS Encoded Nanoparticles. Chemistry of Materials, 2015, 27, 950-958.	3.2	99
40	Boosting the Quantitative Inorganic Surface-Enhanced Raman Scattering Sensing to the Limit: The Case of Nitrite/Nitrate Detection. Journal of Physical Chemistry Letters, 2015, 6, 868-874.	2.1	41
41	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. Journal of Physical Chemistry C, 2015, 119, 9513-9523.	1.5	53
42	Plasmonic-polymer hybrid hollow microbeads for surface-enhanced Raman scattering (SERS) ultradetection. Journal of Colloid and Interface Science, 2015, 460, 128-134.	5.0	11
43	Hierarchical Materials: SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum (Part. Part. Syst.) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	1
44	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. Particle and Particle Systems Characterization, 2014, 31, 1134-1140.	1.2	18
45	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2014, 118, 28095-28100.	1.5	21
46	Synthesis and Optical Properties of Homogeneous Nanoshurikens. ACS Photonics, 2014, 1, 1237-1244.	3.2	33
47	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2013, 52, 6459-6463.	7.2	75
48	Colloidal Surface Assemblies: Nanotechnology Meets Bioinspiration. Advanced Functional Materials, 2013, 23, 4529-4541.	7.8	65
49	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie, 2013, 125, 6587-6591.	1.6	12
50	Organized Plasmonic Clusters with High Coordination Number and Extraordinary Enhancement in Surfaceâ€Enhanced Raman Scattering (SERS). Angewandte Chemie - International Edition, 2012, 51, 12688-12693.	7.2	154
51	Large-Area Organization of pNIPAM-Coated Nanostars as SERS Platforms for Polycyclic Aromatic Hydrocarbons Sensing in Gas Phase. Langmuir, 2012, 28, 9168-9173.	1.6	94
52	SERS-Encoded Particles. , 2012, , 33-49.		2
53	Spiked Gold Beads as Substrates for Singleâ€Particle SERS. ChemPhysChem, 2012, 13, 2561-2565.	1.0	56
54	Inside Cover: Spiked Gold Beads as Substrates for Single-Particle SERS (ChemPhysChem 10/2012). ChemPhysChem, 2012, 13, 2422-2422.	1.0	2

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55	From Nano to Micro: Synthesis and Optical Properties of Homogeneous Spheroidal Gold Particles and Their Superlattices. Langmuir, 2012, 28, 8909-8914.	1.6	52
56	Ultrasound driven formation of metal-supported nanocatalysts. Microporous and Mesoporous Materials, 2012, 154, 164-169.	2.2	22
57	Cavitation Engineered 3D Sponge Networks and Their Application in Active Surface Construction. Advanced Materials, 2012, 24, 985-989.	11.1	76
58	Active Surfaces: Cavitation Engineered 3D Sponge Networks and Their Application in Active Surface Construction (Adv. Mater. 7/2012). Advanced Materials, 2012, 24, 984-984.	11.1	1
59	Silver coated aluminium microrods as highly colloidal stable SERS platforms. Nanoscale, 2011, 3, 3265.	2.8	24
60	Controlling inter-nanoparticle coupling by wrinkle-assisted assembly. Soft Matter, 2011, 7, 4093.	1.2	50
61	Gold nanorods 3D-supercrystals as surface enhanced Raman scattering spectroscopy substrates for the rapid detection of scrambled prions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8157-8161.	3.3	412
62	Sonochemical formation of metal sponges. Nanoscale, 2011, 3, 985-993.	2.8	53
63	Highly uniform SERS substrates formed by wrinkle-confined drying of gold colloids. Chemical Science, 2010, 1, 174.	3.7	127
64	Growth of Sharp Tips on Gold Nanowires Leads to Increased Surface-Enhanced Raman Scattering Activity. Journal of Physical Chemistry Letters, 2010, 1, 24-27.	2.1	74
65	Gold encapsulation of star-shaped FePtnanoparticles. Journal of Materials Chemistry, 2010, 20, 61-64.	6.7	36
66	Nanorods as Wavelengthâ€Selective Absorption Centers in the Visible and Nearâ€Infrared Regions of the Electromagnetic Spectrum. Advanced Materials, 2008, 20, 506-510.	11.1	95
67	Synthesis of Flexible, Ultrathin Gold Nanowires in Organic Media. Langmuir, 2008, 24, 9855-9860.	1.6	170
68	Organization of Magnetic/Noble Metal Heterostructures by an Applied External Magnetic Field. Materials Research Society Symposia Proceedings, 2008, 1079, 1.	0.1	0
69	Magneticâ”Noble Metal Nanocomposites with Morphology-Dependent Optical Response. Chemistry of Materials, 2007, 19, 4415-4422.	3.2	65
70	Critical radius for exchange bias in naturally oxidized Fe nanoparticles. Physical Review B, 2006, 74, .	1.1	104
71	Highly Ordered MWNT-Based Matrixes:â€‰ Topography at the Nanoscale Conceived for Tissue Engineering. Langmuir, 2006, 22, 5427-5434.	1.6	58
72	Widefield SERS for Highâ€Throughput Nanoparticle Screening. Angewandte Chemie, 0, , .	1.6	0