

Nicolás Pazos-Pérez

List of Publications by Year in descending order

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72
papers

3,597
citations

101384

36
h-index

133063

59
g-index

79
all docs

79
docs citations

79
times ranked

5587
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Surface Modifications of Nanoparticles for Stability in Biological Fluids. Materials, 2018, 11, 1154.	1.3	352
3	Synthesis of Flexible, Ultrathin Gold Nanowires in Organic Media. Langmuir, 2008, 24, 9855-9860.	1.6	170
4	Organized Plasmonic Clusters with High Coordination Number and Extraordinary Enhancement in Surface-Enhanced Raman Scattering (SERS). Angewandte Chemie - International Edition, 2012, 51, 12688-12693.	7.2	154
5	Highly uniform SERS substrates formed by wrinkle-confined drying of gold colloids. Chemical Science, 2010, 1, 174.	3.7	127
6	Critical radius for exchange bias in naturally oxidized Fe nanoparticles. Physical Review B, 2006, 74, .	1.1	104
7	Universal One-Pot and Scalable Synthesis of SERS Encoded Nanoparticles. Chemistry of Materials, 2015, 27, 950-958.	3.2	99
8	Nanorods as Wavelength-Selective Absorption Centers in the Visible and Near-Infrared Regions of the Electromagnetic Spectrum. Advanced Materials, 2008, 20, 506-510.	11.1	95
9	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
10	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
11	Cavitation Engineered 3D Sponge Networks and Their Application in Active Surface Construction. Advanced Materials, 2012, 24, 985-989.	11.1	76
12	Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2013, 52, 6459-6463.	7.2	75
13	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
14	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
15	Magnetic Noble Metal Nanocomposites with Morphology-Dependent Optical Response. Chemistry of Materials, 2007, 19, 4415-4422.	3.2	65
16	Colloidal Surface Assemblies: Nanotechnology Meets Bioinspiration. Advanced Functional Materials, 2013, 23, 4529-4541.	7.8	65
17	Ultrasensitive Direct Quantification of Nucleobase Modifications in DNA by Surface-Enhanced Raman Scattering: The Case of Cytosine. Angewandte Chemie - International Edition, 2015, 54, 13650-13654.	7.2	60
18	Ultrasensitive multiplex optical quantification of bacteria in large samples of biofluids. Scientific Reports, 2016, 6, 29014.	1.6	59

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19	Surface-enhanced Raman scattering holography. <i>Nature Nanotechnology</i> , 2020, 15, 1005-1011.	15.6	59
20	Highly Ordered MWNT-Based Matrixes: Topography at the Nanoscale Conceived for Tissue Engineering. <i>Langmuir</i> , 2006, 22, 5427-5434.	1.6	58
21	Spiked Gold Beads as Substrates for Single-Particle SERS. <i>ChemPhysChem</i> , 2012, 13, 2561-2565.	1.0	56
22	Cancer characterization and diagnosis with SERS-encoded particles. <i>Cancer Nanotechnology</i> , 2017, 8, .	1.9	55
23	Sonochemical formation of metal sponges. <i>Nanoscale</i> , 2011, 3, 985-993.	2.8	53
24	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9513-9523.	1.5	53
25	From Nano to Micro: Synthesis and Optical Properties of Homogeneous Spheroidal Gold Particles and Their Superlattices. <i>Langmuir</i> , 2012, 28, 8909-8914.	1.6	52
26	Nanoparticle-based mobile biosensors for the rapid detection of sepsis biomarkers in whole blood. <i>Nanoscale Advances</i> , 2020, 2, 1253-1260.	2.2	52
27	Controlling inter-nanoparticle coupling by wrinkle-assisted assembly. <i>Soft Matter</i> , 2011, 7, 4093.	1.2	50
28	Modular assembly of plasmonic core-satellite structures as highly brilliant SERS-encoded nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 122-131.	2.2	50
29	Online SERS Quantification of <i>Staphylococcus aureus</i> and the Application to Diagnostics in Human Fluids. <i>Advanced Materials Technologies</i> , 2016, 1, 1600163.	3.0	45
30	Plasmon Tunability of Gold Nanostars at the Tip Apexes. <i>ACS Omega</i> , 2018, 3, 17173-17179.	1.6	44
31	Boosting the Quantitative Inorganic Surface-Enhanced Raman Scattering Sensing to the Limit: The Case of Nitrite/Nitrate Detection. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 868-874.	2.1	41
32	SERS-fluorescent encoded particles as dual-mode optical probes. <i>Applied Materials Today</i> , 2018, 13, 1-14.	2.3	41
33	Spontaneous and stimulated electron-photon interactions in nanoscale plasmonic near fields. <i>Light: Science and Applications</i> , 2021, 10, 82.	7.7	40
34	Fabrication and SERS properties of complex and organized nanoparticle plasmonic clusters stable in solution. <i>Nanoscale</i> , 2020, 12, 14948-14956.	2.8	39
35	Continuous-wave multiphoton photoemission from plasmonic nanostars. <i>Communications Physics</i> , 2018, 1, .	2.0	37
36	Gold encapsulation of star-shaped FePt nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 61-64.	6.7	36

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37	Smelling, Seeing, Tasting—Old Senses for New Sensing. ACS Nano, 2017, 11, 5217-5222.	7.3	34
38	Synthesis and Optical Properties of Homogeneous Nanoshurikens. ACS Photonics, 2014, 1, 1237-1244.	3.2	33
39	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
40	Extraordinarily transparent compact metallic metamaterials. Nature Communications, 2019, 10, 2118.	5.8	32
41	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
42	Silver-Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. Small, 2018, 14, e1703879.	5.2	30
43	Silver coated aluminium microrods as highly colloidal stable SERS platforms. Nanoscale, 2011, 3, 3265.	2.8	24
44	Ultrasound driven formation of metal-supported nanocatalysts. Microporous and Mesoporous Materials, 2012, 154, 164-169.	2.2	22
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	Fabrication of Plasmonic Supercrystals and Their SERS Enhancing Properties. ACS Omega, 2020, 5, 25485-25492.	1.6	19
47	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
48	Fabrication and optical enhancing properties of discrete supercrystals. Nanoscale, 2016, 8, 12702-12709.	2.8	17
49	The Structure of Short and Genomic DNA at the Interparticle Junctions of Cationic Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1700724.	1.9	17
50	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. Analysis & Sensing, 2022, 2, .	1.1	16
51	Widefield SERS for High-Throughput Nanoparticle Screening. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
52	Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering. Angewandte Chemie, 2013, 125, 6587-6591.	1.6	12
53	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
54	Positively-charged plasmonic nanostructures for SERS sensing applications. RSC Advances, 2021, 12, 845-859.	1.7	11

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55	Nanotechnologies for early diagnosis, in situ disease monitoring, and prevention. , 2018, , 1-92.		10
56	Boosting the analytical properties of gold nanostars by single particle confinement into yolk porous silica shells. Nanoscale, 2019, 11, 21872-21879.	2.8	10
57	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1307-1317.	1.4	8
58	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. Analysis & Sensing, 2022, 2, .	1.1	7
59	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
60	Fabrication of colloidal platforms for surface-enhanced Raman spectroscopy on optically inert templates. Journal of Raman Spectroscopy, 2021, 52, 554-562.	1.2	5
61	Silver melamine thin film as a flexible platform for SERS analysis. Nanoscale, 2021, 13, 7375-7380.	2.8	5
62	Gold-spiked coating of silver particles through cold nanowelding. Nanoscale, 2021, 13, 4530-4536.	2.8	4
63	SERS-Encoded Particles. , 2012, , 33-49.		2
64	Inside Cover: Spiked Gold Beads as Substrates for Single-Particle SERS (ChemPhysChem 10/2012). ChemPhysChem, 2012, 13, 2422-2422.	1.0	2
65	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
66	Fabrication of Hybrid Silver Microstructures from Vermiculite Templates as SERS Substrates. Nanomaterials, 2020, 10, 481.	1.9	1
67	Design and fabrication of bimetallic plasmonic colloids through cold nanowelding. Nanoscale, 2022, 14, 9439-9447.	2.8	1
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	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 φOverloc		
70	Plasmonic Macroscopic Structures: from linear assemblies to 3D structured super-crystals. Journal of Physics: Conference Series, 2018, 1092, 012113.	0.3	0
71	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
72	Widefield SERS for High-Throughput Nanoparticle Screening. Angewandte Chemie, 0, , .	1.6	0