Yuri Antonio Diaz Fernandez

List of Publications by Year
in descending order

73 papers	2,644 citations	257429 24 h-index	182417 51 g-index
73 all docs	73 docs citations	73 times ranked	4773 citing authors

#	Article	IF	Citations
1	Single-molecule electronics: from chemical design to functional devices. Chemical Society Reviews, 2014, 43, 7378-7411.	38.1	433
2	Antibacterial Activity of Glutathione-Coated Silver Nanoparticles against Gram Positive and Gram Negative Bacteria. Langmuir, 2012, 28, 8140-8148.	3.5	271
3	Synthesis, Characterization and Antibacterial Activity against Gram Positive and Gram Negative Bacteria of Biomimetically Coated Silver Nanoparticles. Langmuir, 2011, 27, 9165-9173.	3.5	186
4	Hydride formation thermodynamics and hysteresis in individual Pd nanocrystals withÂdifferent size and shape. Nature Materials, 2015, 14, 1236-1244.	27.5	160
5	Self-assembled monolayers of silver nanoparticles firmly grafted on glass surfaces: Low Ag+ release for an efficient antibacterial activity. Journal of Colloid and Interface Science, 2010, 350, 110-116.	9.4	130
6	Micelles as nanosized containers for the self-assembly of multicomponent fluorescent sensors. Coordination Chemistry Reviews, 2009, 253, 2226-2240.	18.8	96
7	Using micelles for a new approach to fluorescent sensors for metal cations. Chemical Communications, 2004, , 1650-1651.	4.1	84
8	Synthesis of branched Au nanoparticles with tunable near-infrared LSPR using a zwitterionic surfactant. Chemical Communications, 2011, 47, 1315-1317.	4.1	82
9	Micelles for the Self-Assembly of â€œOff-On-Offâ€•Fluorescent Sensors for pH Windows. Chemistry - A European Journal, 2006, 12, 921-930.	3.3	81
10	TiO₂ thin films for spintronics application: a Raman study. Journal of Raman Spectroscopy, 2010, 41, 558-565.	2.5	74
11	Controlled Synthesis of Gold Nanostars by Using a Zwitterionic Surfactant. Chemistry - A European Journal, 2012, 18, 9381-9390.	3.3	74
12	A Versatile Self-Assembly Strategy for the Synthesis of Shape-Selected Colloidal Noble Metal Nanoparticle Heterodimers. Langmuir, 2014, 30, 3041-3050.	3.5	73
13	Modified Mesoporous Silica Nanoparticles with a Dual Synergetic Antibacterial Effect. ACS Applied Materials & Interfaces, 2017, 9, 38364-38372.	8.0	64
14	Fluorescent Sensors for Hg2+in Micelles: A New Approach that Transforms an ON-OFF into an OFF-ON Response as a Function of the Lipophilicity of the Receptor. Chemistry - A European Journal, 2007, 13, 178-187.	3.3	50
15	Coordination chemistry of surface-grafted ligands for antibacterial materials. Coordination Chemistry Reviews, 2014, 275, 37-53.	18.8	40
16	Modular approach for bimodal antibacterial surfaces combining photo-switchable activity and sustained biocidal release. Scientific Reports, 2017, 7, 5259.	3.3	39
17	Enhancement of room temperature ferromagnetism in N-doped TiO2â^'x rutile: Correlation with the local electronic properties. Applied Physics Letters, 2010, 97, 012506.	3.3	37
18	Bacterial viability on chemically modified silicon nanowire arrays. Journal of Materials Chemistry B, 2016, 4, 3104-3112.	5.8	37

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19	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	3.2	34
20	Progress in self-assembled single-molecule electronic devices. Journal of Materials Chemistry C, 2013, 1, 7127.	5.5	33
21	The conquest of middle-earth: combining top-down and bottom-up nanofabrication for constructing nanoparticle based devices. Nanoscale, 2014, 6, 14605-14616.	5.6	33
22	Combined Neutron and Synchrotron X-ray Diffraction Investigation of the BaCe_{0.85-x}Zr_xY_{0.15}O_{3-Î´} (0.1 â‰¤ x â‰¤) 6Tf ETQq0 0 0 rgBT /O	3.2	30
23	High-temperature neutron diffraction study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Correlation between structure and transport pr. Physical Review B, 2010, 82, .	3.2	29
24	A Micellar Multitasking Device: Sensing pH Windows and Gauging the Lipophilicity of Drugs with Fluorescent Signals. Chemistry - A European Journal, 2010, 16, 1289-1295.	3.3	25
25	Structure and dynamics of micelle-based fluorescent sensor for transition metals. Chemical Physics Letters, 2004, 398, 245-249.	2.6	24
26	Influence of organic additives on the cloud point of PONPE-7.5. Physical Chemistry Chemical Physics, 2002, 4, 5004-5006.	2.8	23
27	Research Update: Progress in synthesis of nanoparticle dimers by self-assembly. APL Materials, 2014, 2, .	5.1	22
28	Smoothly shifting fluorescent windows: a tunable â€œoff-on-offâ€•micellar sensor for pH. Analyst, The, 2009, 134, 2147.	3.5	21
29	Pattern Formation by Staphylococcus epidermidis via Droplet Evaporation on Micropillars Arrays at a Surface. Langmuir, 2016, 32, 7159-7169.	3.5	21
30	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	3.2	21
31	Fast dissolution of silver nanoparticles at physiological pH. Journal of Colloid and Interface Science, 2020, 563, 177-188.	9.4	20
32	PVA Films with Mixed Silver Nanoparticles and Gold Nanostars for Intrinsic and Photothermal Antibacterial Action. Nanomaterials, 2021, 11, 1387.	4.1	20
33	Mixing thiols on the surface of silver nanoparticles: preserving antibacterial properties while introducing SERS activity. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	19
34	Micelles as Containers for Selfâ€Assembled Nanodevices: A Fluorescent Sensor for Lipophilicity. ChemPhysChem, 2008, 9, 1729-1737.	2.1	18
35	Control of F-Doping in Pnictide High-Temperature Superconductors. Journal of the American Chemical Society, 2009, 131, 12044-12045.	13.7	17
36	Double helical and monomeric Ag(i) and Zn(ii) complexes of 1,2-cyclohexanediyl-bis(iminophenanthridine) ligands. Dalton Transactions, 2003, , 4340.	3.3	16

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37	Effect of oxygen content on properties of theHoBaCo2O5+Î1layered cobaltite. Physical Review B, 2008, 78, .	3.2	16
38	Structure and magnetism of HoBaCo2O5+ delta layered cobaltites with. Solid State Communications, 2008, 148, 87-90.	1.9	15
39	The Cu(II) complex of a C-lipophilized 13aneN4 macrocycle with an additional protonable amino group as micellar anion receptor. Dalton Transactions, 2009, , 6751.	3.3	15
40	Optical Method for Predicting the Composition of Self-Assembled Monolayers of Mixed Thiols on Surfaces Coated with Silver Nanoparticles. Langmuir, 2012, 28, 3558-3568.	3.5	14
41	Exploiting Covalent, H-Bonding, and Ï€â€“Ï€ Interactions to Design Antibacterial PDMS Interfaces That Load and Release Salicylic Acid. ACS Applied Bio Materials, 2019, 2, 4801-4811.	4.6	12
42	Gold Nanostars Embedded in PDMS Films: A Photothermal Material for Antibacterial Applications. Nanomaterials, 2021, 11, 3252.	4.1	12
43	Multicomponent polymeric micelles based on polyaspartamide as tunable fluorescent pH-window biosensors. Biosensors and Bioelectronics, 2010, 26, 29-35.	10.1	11
44	Labeling interacting configurations through an analysis of excitation dynamics in a resonant photoemission experiment: the case of rutile TiO₂. Journal of Physics Condensed Matter, 2013, 25, 075502.	1.8	11
45	Increased Antibacterial and Antibiofilm Properties of Silver Nanoparticles Using Silver Fluoride as Precursor. Molecules, 2020, 25, 3494.	3.8	11
46	Effect of surfactant structure on the residual fluorescence of micelle-based fluorescent probes. Journal of Colloid and Interface Science, 2007, 313, 638-644.	9.4	10
47	Charge ordering driven metal-insulator transition in the layered cobaltite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>HoBaCo</mml:mtext></mml:mrow><mml:mn>2</mml:mn></m Physical Review B, 2009, 80, .	3.2	9
48	New materials for hot electron generation: general discussion. Faraday Discussions, 2019, 214, 365-386.	3.2	9
49	Bis-bidentate vs. bis-tridentate imino-heterocycle ligands in the formation of dinuclear helical complexes of Fe(ii)Electronic supplementary information (ESI) available: atomic positions, bond lengths and angles, anisotropic thermal parameters, hydrogen atom coordinates, data collection, and crystal parameters for all crystallographically characterized complexes; NMR spectra, including COSY, and CD spectra for ligand 3 and [Fell2(3)2]4+. See http://www.rsc.org/suppdata/dt/b2/b210137h/. Dalton Transactions, 2003, , 575-580.	3.3	8
50	Bacterial Footprints in Elastic Pillared Microstructures. ACS Applied Bio Materials, 2018, 1, 1294-1300.	4.6	8
51	Silane-coated magnetic nanoparticles with surface thiol functions for conjugation with gold nanostars. Dalton Transactions, 2015, 44, 21088-21098.	3.3	6
52	Applications in catalysis, photochemistry, and photodetection: general discussion. Faraday Discussions, 2019, 214, 479-499.	3.2	5
53	Response to â€œComment on â€˜Enhancement of room temperature ferromagnetism in N-doped TiO2â^'x rutile: Correlation with the local electronic propertiesâ€™ â€•[Appl. Phys. Lett. 97, 186101(2010)]. Applied Physics Letters, 2010, 97, 186102.	3.3	4
54	Nanoscale phase separation in coated Ag nanoparticles. Nanoscale, 2011, 3, 4220.	5.6	4

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55	Exploiting Micelle-Driven Coordination To Evaluate the Lipophilicity of Molecules. Langmuir, 2012, 28, 9930-9943.	3.5	4
56	One-step preparation of antimicrobial silicone materials based on PDMS and salicylic acid: insights from spatially and temporally resolved techniques. Npj Biofilms and Microbiomes, 2021, 7, 51.	6.4	4
57	Effect of Local Topography on Cell Division of Staphylococcus spp.. Nanomaterials, 2022, 12, 683.	4.1	4
58	Flexible deposition of nanocrystalline vanadium oxide thin films. Journal of Materials Chemistry, 2008, 18, 5190.	6.7	2
59	Role of oxygen content on the magnetic properties of epitaxial anatase and rutile TiO₂thin films. Journal of Physics: Conference Series, 2010, 200, 072030.	0.4	2
60	Supramolecular effects in self-assembled monolayers: general discussion. Faraday Discussions, 2017, 204, 123-158.	3.2	2
61	Supramolecular systems at liquidâ€“solid interfaces: general discussion. Faraday Discussions, 2017, 204, 271-295.	3.2	2
62	Ion shuttling between emulsion droplets by crown ether modified gold nanoparticles. Nanoscale Advances, 2021, 3, 3136-3144.	4.6	2
63	A Solvent-Dependent and Electrochemically Controlled Self-Assembling/Disassembling System. Collection of Czechoslovak Chemical Communications, 2003, 68, 1647-1662.	1.0	2
64	Preparation of multivalent glycan micro- and nano-arrays: general discussion. Faraday Discussions, 2019, 219, 128-137.	3.2	1
65	Magnetic Nanoparticles: general discussion. Faraday Discussions, 2014, 175, 113-135.	3.2	0
66	Other Nanoparticles: general discussion. Faraday Discussions, 2014, 175, 289-303.	3.2	0
67	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	3.2	0
68	Preparing macromolecular systems on surfaces: general discussion. Faraday Discussions, 2017, 204, 395-418.	3.2	0
69	Exploring the science of thinking independently together: Faraday Discussion Volume 204 â€“ Complex Molecular Surfaces and Interfaces, Sheffield, UK, July 2017. Chemical Communications, 2017, 53, 12601-12607.	4.1	0
70	Multidimensional micro- and nano-printing technologies: general discussion. Faraday Discussions, 2019, 219, 73-76.	3.2	0
71	Glycan interactions on glycocalyx mimetic surfaces: general discussion. Faraday Discussions, 2019, 219, 183-188.	3.2	0
72	New directions in surface functionalization and characterization: general discussion. Faraday Discussions, 2019, 219, 252-261.	3.2	0

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73	A Novel Self-Assembly Strategy for the Fabrication of Nano-Hybrid Satellite Materials with Plasmonically Enhanced Catalytic Activity. Nanomaterials, 2021, 11, 1580.	4.1	0