

# FÃ©lix G. Requejo

## List of Publications by Year in descending order

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108  
papers

4,239  
citations

126708

33  
h-index

118652

62  
g-index

111  
all docs

111  
docs citations

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times ranked

6561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the local-ensemble structure in mesoporous hybrid titania-silica thin films containing aminopropyl groups. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 172-184.	1.1	4
2	Highly oriented NiSi <sub>2</sub> @Si thin-nanocomposite produced by solid state diffusion: Morphological and crystallographic characterization. <i>Surfaces and Interfaces</i> , 2022, 29, 101763.	1.5	2
3	Silver Clusters of Five Atoms as Highly Selective Antitumoral Agents Through Irreversible Oxidation of Thiols. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	7
4	Unveiling the Occurrence of Co(III) in NiCo Layered Electroactive Hydroxides: The Role of Distorted Environments. <i>Chemistry - A European Journal</i> , 2020, 26, 17081-17090.	1.7	10
5	Exploring the properties of Ag <sub>5</sub> @TiO <sub>2</sub> interfaces: stable surface polaron formation, UV-Vis optical response, and CO <sub>2</sub> photoactivation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6842-6853.	5.2	26
6	Halloysite nanotube and its firing products: Structural characterization of halloysite, metahalloysite, spinel type silicoaluminate and mullite. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 234, 19-26.	0.8	18
7	Structure stability of free copper nanoclusters: FSA-DFT Cu-building and FDM-XANES study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 235, 1-7.	0.8	3
8	Increasing the optical response of TiO <sub>2</sub> and extending it into the visible region through surface activation with highly stable Cu <sub>5</sub> clusters. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7489-7500.	5.2	35
9	Unexpected compositional and structural modification of CoPt <sub>3</sub> nanoparticles by extensive surface purification. <i>Nanoscale</i> , 2018, 10, 6382-6392.	2.8	7
10	Characterization and electrochemical response of DNA functionalized 2 nm gold nanoparticles confined in a nanochannel array. <i>Bioelectrochemistry</i> , 2018, 121, 169-175.	2.4	5
11	Synthesis of nickel entities: From highly stable zerovalent nanoclusters to nanowires. Growth control and catalytic behavior. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 371-378.	5.0	4
12	Advances in the study of nano-structured Co/MCM-41 materials: surface and magnetic characterization. <i>Journal of Porous Materials</i> , 2018, 25, 789-799.	1.3	3
13	New Insights into the Growth Mechanism of Ultrathin Au Nanowires from Combined in Situ EXAFS and SAXS Studies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29051-29061.	1.5	10
14	Fluorescent silica nanoparticles with chemically reactive surface: Controlling spatial distribution in one-step synthesis. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 456-464.	5.0	21
15	Estudos XAFS em catálise. <i>Ciência E Cultura</i> , 2017, 69, 43-44.	0.5	0
16	Numerical Simulation of the Diffusion Processes in Nanoelectrode Arrays Using an Axial Neighbor Symmetry Approximation. <i>Analytical Chemistry</i> , 2016, 88, 5752-5759.	3.2	10
17	Oxidation Induced Doping of Nanoparticles Revealed by <i>in Situ</i> X-ray Absorption Studies. <i>Nano Letters</i> , 2016, 16, 3738-3747.	4.5	25
18	Synthesis of Highly Stable Surfactant-free Cu <sub>5</sub> Clusters in Water. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15902-15908.	1.5	53

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19	Understanding the Zr and Si interdispersion in $Zr_{1-x}Si_xO_2$ mesoporous thin films by using FTIR and XANES spectroscopy. Dalton Transactions, 2016, 45, 9977-9987.	1.6	10
20	Extended and local structural description of a kaolinitic clay, its fired ceramics and intermediates: An XRD and XANES analysis. Applied Clay Science, 2016, 124-125, 39-45.	2.6	32
21	<i>In situ</i> study of the endotaxial growth of hexagonal $CoSi_2$ nanoplatelets in Si(001). Applied Physics Letters, 2015, 107, .	1.5	7
22	$Ag_2$ and $Ag_3$ Clusters: Synthesis, Characterization, and Interaction with DNA. Angewandte Chemie - International Edition, 2015, 54, 7612-7616.	7.2	63
23	Confined gold nanoparticles enhance the detection of small molecules in label-free impedance aptasensors. Nanoscale, 2015, 7, 7763-7769.	2.8	17
24	Synthesis of water-soluble gold clusters in nanosomes displaying robust photoluminescence with very large Stokes shift. Journal of Colloid and Interface Science, 2015, 455, 154-162.	5.0	18
25	Photostability of gold nanoparticles with different shapes: the role of Ag clusters. Nanoscale, 2015, 7, 11273-11279.	2.8	53
26	Real-Time Monitoring Distance Changes in Surfactant-Coated Au Nanoparticle Films upon Volatile Organic Compounds (VOCs). Journal of Physical Chemistry C, 2015, 119, 5098-5106.	1.5	12
27	Local and Extended-Order Evolution of Synthetic Talc during Hydrothermal Synthesis: Extended X-ray Absorption Fine Structure, X-ray Diffraction, and Fourier Transform Infrared Spectroscopy Studies. Crystal Growth and Design, 2015, 15, 5451-5463.	1.4	21
28	Synthesis of ultra-small cysteine-capped gold nanoparticles by pH switching of the Au(I)–cysteine polymer. Journal of Colloid and Interface Science, 2015, 441, 17-24.	5.0	15
29	Influence of the hydration by the environmental humidity on the metallic speciation and the photocatalytic activity of Cr/MCM-41. Journal of Solid State Chemistry, 2014, 213, 229-234.	1.4	8
30	XANES Study of the Radiation Damage on Alkanethiolates-Capped Au Nanoparticles. Journal of Physics: Conference Series, 2013, 430, 012034.	0.3	4
31	Self-assembly of PBzMA-b-PDMAEMA diblock copolymer films at the air–water interface and deposition on solid substrates via Langmuir–Blodgett transfer. Soft Matter, 2013, 9, 10899.	1.2	31
32	$3CaH_2 + 4MgB_2 + CaF_2$ Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. Journal of Physical Chemistry C, 2012, 116, 7207-7212.	1.5	16
33	Semi-analytical modeling of Ag and Au nanoparticles and fullerene (C60) embedded gate oxide compound semiconductor MOSFET memory devices. Journal of Computational Electronics, 2012, 11, 303-314.	1.3	2
34	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 9830-9837.	1.5	65
35	NEXAFS study of $2LiMgB_2$ composite. International Journal of Hydrogen Energy, 2012, 37, 10236-10239.	3.8	8
36	Formation of an extended $CoSi_2$ thin nanohexagons array coherently buried in silicon single crystal. Applied Physics Letters, 2012, 100, 063116.	1.5	9

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37	TiO <sub>2</sub> -Photocatalytic Reduction of Pentavalent and Trivalent Arsenic: Production of Elemental Arsenic and Arsine. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2299-2308.	4.6	46
38	Shape Changes of Pt Nanoparticles Induced by Deposition on Mesoporous Silica. <i>Small</i> , 2012, 8, 468-473.	5.2	17
39	Study of Nucleation and Growth Mechanism of the Metallic Nanodumbbells. <i>Journal of the American Chemical Society</i> , 2012, 134, 4384-4392.	6.6	70
40	Aminopropyl-modified mesoporous silica SBA-15 as recovery agents of Cu(II)-sulfate solutions: Adsorption efficiency, functional stability and reusability aspects. <i>Journal of Hazardous Materials</i> , 2012, 223-224, 53-62.	6.5	74
41	Computational Study on Semiconducting and Metallic Nanocrystal Embedded Gate Oxide MOS Non Volatile Memory Devices. <i>Advanced Science Letters</i> , 2012, 10, 47-54.	0.2	2
42	“Naked” gold nanoparticles supported on HOPG: melanin functionalization and catalytic activity. <i>Nanoscale</i> , 2011, 3, 1708.	2.8	21
43	Study of the relative performance of silicon and germanium nanoparticles embedded gate oxide in metal-oxide-semiconductor memory devices. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	26
44	Lowering the synthesis temperature of Ni <sub>2</sub> P/SiO <sub>2</sub> by palladium addition. <i>Journal of Catalysis</i> , 2011, 279, 88-102.	3.1	70
45	Liquid-phase furfural hydrogenation employing silica-supported PtSn and PtGe catalysts prepared using surface organometallic chemistry on metals techniques. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 104, 467-482.	0.8	31
46	XANES-PCA analysis of Ti-species in MCM-41 mesoporous silica synthesized by different method. <i>Applied Catalysis A: General</i> , 2011, 397, 22-26.	2.2	5
47	Formation of one dimensional linear chains by Ir-“Ir bonds in cis-dicarbonyldichloroiridate (I). <i>Polyhedron</i> , 2011, 30, 221-227.	1.0	6
48	Comparative study of CNT, silicon nanowire and fullerene embedded multilayer high-k gate dielectric MOS memory devices. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 405101.	1.3	9
49	Large-pore mesoporous titania-silica thin films (Ti <sub>1-x</sub> Si <sub>x</sub> O <sub>2</sub> , 0.1 ≤ x ≤ 0.9) with highly interdispersed mixed oxide frameworks. <i>Comptes Rendus Chimie</i> , 2010, 13, 256-269.	0.2	10
50	Speciation of Copper in Spherical Mesoporous Silicates: From the Microscale to Angstrom. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12221-12229.	1.5	33
51	Synthesis and Characterization of Gold@Gold(I) Thiomalate Core@Shell Nanoparticles. <i>ACS Nano</i> , 2010, 4, 3413-3421.	7.3	50
52	Electrochemical Preparation and Delivery of Melanin-“Iron Covered Gold Nanoparticles. <i>ChemPhysChem</i> , 2009, 10, 370-373.	1.0	4
53	Oxygen Reduction on Iron-“Melanin Granular Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17097-17103.	1.5	27
54	Tuning the ring-opening reaction of 1,3-dimethylcyclohexane with the addition of potassium over Ir-containing catalysts. <i>Chemical Engineering Journal</i> , 2008, 139, 147-156.	6.6	21

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55	Nitrate hydrogenation on Pt <sub>3</sub> In/Al <sub>2</sub> O <sub>3</sub> : EXAFS and XANES characterization of fresh and used catalysts. Catalysis Communications, 2008, 10, 355-358.	1.6	2
56	Local structure and magnetic behaviour of Fe-doped TiO <sub>2</sub> anatase nanoparticles: experiments and calculations. Journal of Physics Condensed Matter, 2008, 20, 135210.	0.7	47
57	Spontaneous oxidation of disordered fcc FePt nanoparticles. Journal of Applied Physics, 2008, 103, .	1.1	29
58	Angle-resolved x-ray absorption near edge structure study of vertically aligned single-walled carbon nanotubes. Applied Physics Letters, 2007, 90, 103115.	1.5	28
59	Anomalous Vibrational Properties Induced by Surface Effects in Capped Pt Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 7599-7604.	1.5	10
60	Structural Assessment and Catalytic Consequences of the Oxygen Coordination Environment in Grafted Ti <sup>IV</sup> Calixarenes. Journal of the American Chemical Society, 2007, 129, 1122-1131.	6.6	65
61	Thiol-Capped Gold Nanoparticles on Graphite: Spontaneous Adsorption and Electrochemically Induced Release. Journal of Physical Chemistry C, 2007, 111, 7179-7184.	1.5	29
62	Mesoporous Anatase TiO <sub>2</sub> Films: Use of Ti K XANES for the Quantification of the Nanocrystalline Character and Substrate Effects in the Photocatalysis Behavior. Journal of Physical Chemistry C, 2007, 111, 10886-10893.	1.5	130
63	Cationic exchange in nanosized ZnFe <sub>2</sub> O <sub>4</sub> spinel revealed by experimental and simulated near-edge absorption structure. Physical Review B, 2007, 75, .	1.1	113
64	Electronic Structure of Cobalt Nanocrystals Suspended in Liquid. Nano Letters, 2007, 7, 1919-1922.	4.5	83
65	The Role of Outer-Sphere Surface Acidity in Alkene Epoxidation Catalyzed by Calixarene <sup>IV</sup> Ti(IV) Complexes. Journal of the American Chemical Society, 2007, 129, 15585-15595.	6.6	61
66	Preparation of Ultrathin Thiolate-Covered Bimetallic Systems: From Extended Planar to Nanoparticle Surfaces. Journal of Physical Chemistry C, 2007, 111, 9359-9364.	1.5	16
67	Electrocatalytic and Magnetic Properties of Ultrathin Nanostructured Iron <sup>III</sup> Melanin Films on Au(111). Chemistry - A European Journal, 2007, 13, 473-482.	1.7	14
68	Electronic Perturbation in a Molecular Nanowire of [IrCl <sub>5</sub> (NO)] <sup>-</sup> Units. Chemistry - A European Journal, 2007, 13, 8428-8436.	1.7	14
69	In-containing BEA zeolite for selective catalytic reduction of NO <sub>x</sub> . Journal of Molecular Catalysis A, 2007, 267, 272-279.	4.8	10
70	XAFS, SAXS and HREM characterization of Pd nanoparticles capped with n-alkyl thiol molecules. Physica B: Condensed Matter, 2007, 389, 150-154.	1.3	28
71	Magnetic ZnFe <sub>2</sub> O <sub>4</sub> nanoferrites studied by X-ray magnetic circular dichroism and MĂ©ssbauer spectroscopy. Physica B: Condensed Matter, 2007, 389, 155-158.	1.3	52
72	In-containing BEA zeolite for selective catalytic reduction of NO <sub>x</sub> . Journal of Molecular Catalysis A, 2007, 267, 194-201.	4.8	13

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73	Molecular conformation changes in alkylthiol ligands as a function of size in gold nanoparticles: X-ray absorption studies. <i>Physical Review B</i> , 2006, 74, .	1.1	19
74	Influence of N-Doping on the Structure and Electronic Properties of Titania Nanoparticle Photocatalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16482-16486.	1.2	83
75	Influence of a Top Crust of Entangled Nanotubes on the Structure of Vertically Aligned Forests of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 5624-5629.	3.2	60
76	Nitrogen-containing TiO <sub>2</sub> photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 309-314.	10.8	146
77	XPS and EXAFS study of supported PtSn catalysts obtained by surface organometallic chemistry on metals. <i>Applied Catalysis A: General</i> , 2005, 278, 239-249.	2.2	122
78	Complementary methods for cluster size distribution measurements: supported platinum nanoclusters in methane reforming catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 228, 299-307.	4.8	43
79	XANES/EXAFS study and catalytic properties of the confined Cr carbonyl MCM-41 system. <i>Catalysis Today</i> , 2005, 107-108, 750-758.	2.2	9
80	XANES study of electronic and structural nature of Mn-sites in manganese oxides with catalytic properties. <i>Catalysis Today</i> , 2005, 107-108, 849-855.	2.2	54
81	Temperature Effect on the Synthesis of Au <sup>+</sup> Pt Bimetallic Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3813-3821.	1.2	108
82	Electron Spectroscopy of Aqueous Solution Interfaces Reveals Surface Enhancement of Halides. <i>Science</i> , 2005, 307, 563-566.	6.0	611
83	An in situ XPS study of site competition between CO and NO on Rh(111) in equilibrium with the gas phase. <i>Journal of Catalysis</i> , 2004, 226, 83-87.	3.1	34
84	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NO <sub>x</sub> Part II. XAFS characterization and its relationship with the catalytic properties. <i>Applied Catalysis A: General</i> , 2004, 266, 147-153.	2.2	8
85	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NO <sub>x</sub> . <i>Applied Catalysis A: General</i> , 2004, 264, 93-101.	2.2	26
86	XANES Characterization of Extremely Nanosized Metal-Carbonyl Subspecies (Me = Cr, Mn, Fe, and Co) Confined into the Mesopores of MCM-41 Materials. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20005-20010.	1.2	42
87	Fourier Transform IR Study of NO + CH <sub>4</sub> + O <sub>2</sub> Coadsorption on In-ZSM-5 DeNO <sub>x</sub> Catalyst. <i>Catalysis Letters</i> , 2003, 91, 19-24.	1.4	17
88	Titanium K-Edge XANES Analysis to Unravel the Local Structure of Alkene Epoxidation Titanium-Polysiloxane Homogeneous Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 1314-1320.	2.1	7
89	XPS and XAFS Pt L <sub>2,3</sub> -Edge Studies of Dispersed Metallic Pt and PtSn Clusters on SiO <sub>2</sub> Obtained by Organometallic Synthesis: A Structural and Electronic Characteristics. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11441-11451.	1.2	89
90	Structure of Extremely Nanosized and Confined In-O Species in Ordered Porous Materials. <i>Physical Review Letters</i> , 2003, 91, 108304.	2.9	16

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91	In Situ PAC Study of InPt Exchanged Zeolites under Different Redox Conditions. Journal of Physical Chemistry B, 2002, 106, 7815-7823.	1.2	5
92	XANES Mo L-Edges and XPS Study of Mo Loaded in HY Zeolite. Journal of Physical Chemistry B, 2002, 106, 7824-7831.	1.2	48
93	Hydrodesulfurization of Petroleum Feedstocks with a New Type of Nonsulfide Hydrotreating Catalyst. Journal of Catalysis, 2002, 209, 1-5.	3.1	70
94	Effect of Phosphorus Content in Nickel Phosphide Catalysts Studied by XAFS and Other Techniques. Journal of Catalysis, 2002, 210, 207-217.	3.1	311
95	Title is missing!. Catalysis Letters, 2002, 82, 131-139.	1.4	12
96	Structural Characterization of Tungsten Phosphide (WP) Hydrotreating Catalysts by X-ray Absorption Spectroscopy and Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 1913-1920.	1.2	103
97	XAFS Characterization of Highly Active Alumina-Supported Molybdenum Phosphide Catalysts (MoP/Al <sub>2</sub> O <sub>3</sub> ) for Hydrotreating. Journal of Physical Chemistry B, 2001, 105, 4961-4966.	1.2	79
98	Promotional Effect of Reduction Treatments of PtIn(ferrierite) on Its Activity in the SCR of NO with Methane. Kinetics and Novel Characterization Studies. Journal of Physical Chemistry B, 2001, 105, 9514-9523.	1.2	13
99	In situ and ex situ XANES study of nanodispersed Mo species in zeolites used in fine chemistry catalysis. Journal of Synchrotron Radiation, 2001, 8, 631-633.	1.0	3
100	EXAFS, TDPAC and TPR characterization of PtInFerrierite. Applied Catalysis B: Environmental, 2001, 29, 35-46.	10.8	22
101	Combined TDPAC and EXAFS Study of InPt/FER Catalysts. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 327-330.	0.7	4
102	In-containing H-ZSM5 zeolites with various Si/Al ratios for the NO SCR in the presence of CH <sub>4</sub> and O <sub>2</sub> . PAC, TPAD and FTIR studies. Catalysis Today, 1999, 54, 553-558.	2.2	21
103	Perturbed Angular Correlation Characterization of Indium Species on In/H-ZSM5 Catalysts. Journal of Catalysis, 1999, 188, 375-384.	3.1	30
104	Catalytic combustion of diesel soot particles. Activity and characterization of Co/MgO and Co,K/MgO catalysts. Applied Catalysis B: Environmental, 1998, 15, 5-19.	10.8	97
105	Influence of Impurity Charge-State on the Temperature Dependence of the Electric-Field Gradient. Modern Physics Letters B, 1998, 12, 281-289.	1.0	5
106	TDPAC characterization of Mo species supported on alumina modified by titania. Physica Status Solidi A, 1995, 148, 497-506.	1.7	5
107	Effect of titania on the properties of alumina supported molybdena catalysts. Studies in Surface Science and Catalysis, 1994, 82, 803-810.	1.5	2
108	TDPAC characterization of tin oxides using <sup>181</sup> Ta. Hyperfine Interactions, 1991, 62, 353-358.	0.2	9