FÃ©lix G. Requejo

List of Publications by Year
in descending order

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108 papers	4,239 citations	126907 33 h-index	118850 62 g-index
111 all docs	111 docs citations	111 times ranked	6561 citing authors

#	Article	IF	Citations
1	Electron Spectroscopy of Aqueous Solution Interfaces Reveals Surface Enhancement of Halides. Science, 2005, 307, 563-566.	12.6	611
2	Effect of Phosphorus Content in Nickel Phosphide Catalysts Studied by XAFS and Other Techniques. Journal of Catalysis, 2002, 210, 207-217.	6.2	311
3	Nitrogen-containing TiO2 photocatalysts. Applied Catalysis B: Environmental, 2006, 65, 309-314.	20.2	146
4	Mesoporous Anatase TiO2Films:â€‰ 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.	3.1	130
5	XPS and EXAFS study of supported PtSn catalysts obtained by surface organometallic chemistry on metals. Applied Catalysis A: General, 2005, 278, 239-249.	4.3	122
6	Cationic exchange in nanosizedZnFe2O4spinel revealed by experimental and simulated near-edge absorption structure. Physical Review B, 2007, 75, .	3.2	113
7	Temperature Effect on the Synthesis of Auâ˜Pt Bimetallic Nanoparticles. Journal of Physical Chemistry B, 2005, 109, 3813-3821.	2.6	108
8	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.	2.6	103
9	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.	20.2	97
10	XPS and XAFS Pt L2,3-Edge Studies of Dispersed Metallic Pt and PtSn Clusters on SiO2Obtained by Organometallic Synthesis:Â Structural and Electronic Characteristics. Journal of Physical Chemistry B, 2003, 107, 11441-11451.	2.6	89
11	Influence of N-Doping on the Structure and Electronic Properties of Titania Nanoparticle Photocatalysts. Journal of Physical Chemistry B, 2006, 110, 16482-16486.	2.6	83
12	Electronic Structure of Cobalt Nanocrystals Suspended in Liquid. Nano Letters, 2007, 7, 1919-1922.	9.1	83
13	XAFS Characterization of Highly Active Alumina-Supported Molybdenum Phosphide Catalysts (MoP/Al2O3) for Hydrotreating. Journal of Physical Chemistry B, 2001, 105, 4961-4966.	2.6	79
14	Aminopropyl-modified mesoporous silica SBA-15 as recovery agents of Cu(II)-sulfate solutions: Adsorption efficiency, functional stability and reusability aspects. Journal of Hazardous Materials, 2012, 223-224, 53-62.	12.4	74
15	Hydrodesulfurization of Petroleum Feedstocks with a New Type of Nonsulfide Hydrotreating Catalyst. Journal of Catalysis, 2002, 209, 1-5.	6.2	70
16	Lowering the synthesis temperature of Ni2P/SiO2 by palladium addition. Journal of Catalysis, 2011, 279, 88-102.	6.2	70
17	Study of Nucleation and Growth Mechanism of the Metallic Nanodumbbells. Journal of the American Chemical Society, 2012, 134, 4384-4392.	13.7	70
18	Structural Assessment and Catalytic Consequences of the Oxygen Coordination Environment in Grafted Tiâ˜Calixarenes. Journal of the American Chemical Society, 2007, 129, 1122-1131.	13.7	65

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19	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 9830-9837.	3.1	65
20	Ag₂ and Ag₃ Clusters: Synthesis, Characterization, and Interaction with DNA. Angewandte Chemie - International Edition, 2015, 54, 7612-7616.	13.8	63
21	The Role of Outer-Sphere Surface Acidity in Alkene Epoxidation Catalyzed by Calixareneâ"Ti(IV) Complexes. Journal of the American Chemical Society, 2007, 129, 15585-15595.	13.7	61
22	Influence of a Top Crust of Entangled Nanotubes on the Structure of Vertically Aligned Forests of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 5624-5629.	6.7	60
23	XANES study of electronic and structural nature of Mn-sites in manganese oxides with catalytic properties. Catalysis Today, 2005, 107-108, 849-855.	4.4	54
24	Photostability of gold nanoparticles with different shapes: the role of Ag clusters. Nanoscale, 2015, 7, 11273-11279.	5.6	53
25	Synthesis of Highly Stable Surfactant-free Cu₅ Clusters in Water. Journal of Physical Chemistry C, 2016, 120, 15902-15908.	3.1	53
26	Magnetic ZnFe2O4 nanoferrites studied by X-ray magnetic circular dichroism and MÃ¶ssbauer spectroscopy. Physica B: Condensed Matter, 2007, 389, 155-158.	2.7	52
27	Synthesis and Characterization of Gold@Gold(I)â"Thiomalate Core@Shell Nanoparticles. ACS Nano, 2010, 4, 3413-3421.	14.6	50
28	XANES Mo L-Edges and XPS Study of Mo Loaded in HY Zeolite. Journal of Physical Chemistry B, 2002, 106, 7824-7831.	2.6	48
29	Local structure and magnetic behaviour of Fe-doped TiO₂anatase nanoparticles: experiments and calculations. Journal of Physics Condensed Matter, 2008, 20, 135210.	1.8	47
30	TiO₂-Photocatalytic Reduction of Pentavalent and Trivalent Arsenic: Production of Elemental Arsenic and Arsine. Environmental Science & Technology, 2012, 46, 2299-2308.	10.0	46
31	Complementary methods for cluster size distribution measurements: supported platinum nanoclusters in methane reforming catalysts. Journal of Molecular Catalysis A, 2005, 228, 299-307.	4.8	43
32	XANES Characterization of Extremely Nanosized Metal-Carbonyl Subspecies (Me = Cr, Mn, Fe, and Co) Confined into the Mesopores of MCM-41 Materials. Journal of Physical Chemistry B, 2004, 108, 20005-20010.	2.6	42
33	Increasing the optical response of TiO₂ and extending it into the visible region through surface activation with highly stable Cu₅ clusters. Journal of Materials Chemistry A, 2019, 7, 7489-7500.	10.3	35
34	An in situ XPS study of site competition between CO and NO on Rh(111) in equilibrium with the gas phase. Journal of Catalysis, 2004, 226, 83-87.	6.2	34
35	Speciation of Copper in Spherical Mesoporous Silicates: From the Microscale to Angstrom. Journal of Physical Chemistry C, 2010, 114, 12221-12229.	3.1	33
36	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.	5.2	32

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37	Liquid-phase furfural hydrogenation employing silica-supported PtSn and PtGe catalysts prepared using surface organometallic chemistry on metals techniques. Reaction Kinetics, Mechanisms and Catalysis, 2011, 104, 467-482.	1.7	31
38	Self-assembly of PBzMA-b-PDMAEMA diblock copolymer films at the airâ€“water interface and deposition on solid substrates via Langmuirâ€“Blodgett transfer. Soft Matter, 2013, 9, 10899.	2.7	31
39	Perturbed Angular Correlation Characterization of Indium Species on In/H-ZSM5 Catalysts. Journal of Catalysis, 1999, 188, 375-384.	6.2	30
40	Thiol-Capped Gold Nanoparticles on Graphite:â€‰ Spontaneous Adsorption and Electrochemically Induced Release. Journal of Physical Chemistry C, 2007, 111, 7179-7184.	3.1	29
41	Spontaneous oxidation of disordered fcc FePt nanoparticles. Journal of Applied Physics, 2008, 103, .	2.5	29
42	Angle-resolved x-ray absorption near edge structure study of vertically aligned single-walled carbon nanotubes. Applied Physics Letters, 2007, 90, 103115.	3.3	28
43	XAFS, SAXS and HREM characterization of Pd nanoparticles capped with n-alkyl thiol molecules. Physica B: Condensed Matter, 2007, 389, 150-154.	2.7	28
44	Oxygen Reduction on Ironâ€'Melanin Granular Surfaces. Journal of Physical Chemistry C, 2009, 113, 17097-17103.	3.1	27
45	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NOx. Applied Catalysis A: General, 2004, 264, 93-101.	4.3	26
46	Study of the relative performance of silicon and germanium nanoparticles embedded gate oxide in metalâ€“oxideâ€“semiconductor memory devices. Journal of Applied Physics, 2011, 109, .	2.5	26
47	Exploring the properties of Ag₅â€“TiO₂ interfaces: stable surface polaron formation, UV-Vis optical response, and CO₂ photoactivation. Journal of Materials Chemistry A, 2020, 8, 6842-6853.	10.3	26
48	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. Nano Letters, 2016, 16, 3738-3747.	9.1	25
49	EXAFS, TDPAC and TPR characterization of PtInFerrierite. Applied Catalysis B: Environmental, 2001, 29, 35-46.	20.2	22
50	In-containing H-ZSM5 zeolites with various Si/Al ratios for the NO SCR in the presence of CH4 and O2. PAC, TPAD and FTIR studies. Catalysis Today, 1999, 54, 553-558.	4.4	21
51	Tuning the ring-opening reaction of 1,3-dimethylcyclohexane with the addition of potassium over Ir-containing catalysts. Chemical Engineering Journal, 2008, 139, 147-156.	12.7	21
52	â€œNakedâ€•gold nanoparticles supported on HOPG: melanin functionalization and catalytic activity. Nanoscale, 2011, 3, 1708.	5.6	21
53	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.	3.0	21
54	Fluorescent silica nanoparticles with chemically reactive surface: Controlling spatial distribution in one-step synthesis. Journal of Colloid and Interface Science, 2017, 496, 456-464.	9.4	21

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55	Molecular conformation changes in alkylthiol ligands as a function of size in gold nanoparticles: X-ray absorption studies. Physical Review B, 2006, 74, .	3.2	19
56	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.	9.4	18
57	Halloysite nanotube and its firing products: Structural characterization of halloysite, metahalloysite, spinel type silicoaluminate and mullite. Journal of Electron Spectroscopy and Related Phenomena, 2019, 234, 19-26.	1.7	18
58	Fourier Transform IR Study of NO + CH₄+ O₂Coadsorption on In-ZSM-5 DeNO_xCatalyst. Catalysis Letters, 2003, 91, 19-24.	2.6	17
59	Shape Changes of Pt Nanoparticles Induced by Deposition on Mesoporous Silica. Small, 2012, 8, 468-473.	10.0	17
60	Confined gold nanoparticles enhance the detection of small molecules in label-free impedance aptasensors. Nanoscale, 2015, 7, 7763-7769.	5.6	17
61	Structure of Extremely Nanosized and Confined In-O Species in Ordered Porous Materials. Physical Review Letters, 2003, 91, 108304.	7.8	16
62	Preparation of Ultrathin Thiolate-Covered Bimetallic Systems:â€‰ From Extended Planar to Nanoparticle Surfaces. Journal of Physical Chemistry C, 2007, 111, 9359-9364.	3.1	16
63	3CaH₂ + 4MgB₂ + CaF₂ Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. Journal of Physical Chemistry C, 2012, 116, 7207-7212.	3.1	16
64	Synthesis of ultra-small cysteine-capped gold nanoparticles by pH switching of the Au(I)â€“cysteine polymer. Journal of Colloid and Interface Science, 2015, 441, 17-24.	9.4	15
65	Electrocatalytic and Magnetic Properties of Ultrathin Nanostructured Ironâ€“Melanin Films on Au(111). Chemistry - A European Journal, 2007, 13, 473-482.	3.3	14
66	Electronic Perturbation in a Molecular Nanowire of [IrCl₅(NO)]^{â^'} Units. Chemistry - A European Journal, 2007, 13, 8428-8436.	3.3	14
67	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.	2.6	13
68	In-containing BEA zeolite for selective catalytic reduction of NOx. Journal of Molecular Catalysis A, 2007, 267, 194-201.	4.8	13
69	Title is missing!. Catalysis Letters, 2002, 82, 131-139.	2.6	12
70	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.	3.1	12
71	Anomalous Vibrational Properties Induced by Surface Effects in Capped Pt Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 7599-7604.	3.1	10
72	In-containing BEA zeolite for selective catalytic reduction of NOx. Journal of Molecular Catalysis A, 2007, 267, 272-279.	4.8	10

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73	Large-pore mesoporous titania-silica thin films (Ti1â^'xSixO2, 0.1â€…â‰…â€…xâ€…â‰…â€…0.9) with highly interdispersed mixed oxide frameworks. Comptes Rendus Chimie, 2010, 13, 256-269.	0.5	10
74	Numerical Simulation of the Diffusion Processes in Nanoelectrode Arrays Using an Axial Neighbor Symmetry Approximation. Analytical Chemistry, 2016, 88, 5752-5759.	6.5	10
75	Understanding the Zr and Si interdispersion in Zr_{1â^'x}Si_xO₂ mesoporous thin films by using FTIR and XANES spectroscopy. Dalton Transactions, 2016, 45, 9977-9987.	3.3	10
76	New Insights into the Growth Mechanism of Ultrathin Au Nanowires from Combined in Situ EXAFS and SAXS Studies. Journal of Physical Chemistry C, 2018, 122, 29051-29061.	3.1	10
77	Unveiling the Occurrence of Co(III) in NiCo Layered Electroactive Hydroxides: The Role of Distorted Environments. Chemistry - A European Journal, 2020, 26, 17081-17090.	3.3	10
78	TDPAC characterization of tin oxides using181Ta. Hyperfine Interactions, 1991, 62, 353-358.	0.5	9
79	XANES/EXAFS study and catalytic properties of the confined Cr carbonylâ€“MCM-41 system. Catalysis Today, 2005, 107-108, 750-758.	4.4	9
80	Comparative study of CNT, silicon nanowire and fullerene embedded multilayer high-k gate dielectric MOS memory devices. Journal Physics D: Applied Physics, 2011, 44, 405101.	2.8	9
81	Formation of an extended CoSi2 thin nanohexagons array coherently buried in silicon single crystal. Applied Physics Letters, 2012, 100, 063116.	3.3	9
82	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NOxPart II. XAFS characterization and its relationship with the catalytic properties. Applied Catalysis A: General, 2004, 266, 147-153.	4.3	8
83	NEXAFS study of 2LiFâ€“MgB2 composite. International Journal of Hydrogen Energy, 2012, 37, 10236-10239.	7.1	8
84	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.	2.9	8
85	TitaniumK-Edge XANES Analysis to Unravel the Local Structure of Alkene Epoxidation Titanium-Polysiloxane Homogeneous Catalysts. Advanced Synthesis and Catalysis, 2003, 345, 1314-1320.	4.3	7
86	In situ study of the endotaxial growth of hexagonal CoSi2 nanoplatelets in Si(001). Applied Physics Letters, 2015, 107, .	3.3	7
87	Unexpected compositional and structural modification of CoPt3 nanoparticles by extensive surface purification. Nanoscale, 2018, 10, 6382-6392.	5.6	7
88	Silver Clusters of Five Atoms as Highly Selective Antitumoral Agents Through Irreversible Oxidation of Thiols. Advanced Functional Materials, 2022, 32, .	14.9	7
89	Formation of one dimensional linear chains by Irâ€“Ir bonds in cis-dicarbonyldichloroiridate (I). Polyhedron, 2011, 30, 221-227.	2.2	6
90	TDPAC characterization of Mo species supported on alumina modified by titania. Physica Status Solidi A, 1995, 148, 497-506.	1.7	5

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91	Influence of Impurity Charge-State on the Temperature Dependence of the Electric-Field Gradient. Modern Physics Letters B, 1998, 12, 281-289.	1.9	5
92	In Situ PAC Study of InPt Exchanged Zeolites under Different Redox Conditions. Journal of Physical Chemistry B, 2002, 106, 7815-7823.	2.6	5
93	XANES-PCA analysis of Ti-species in MCM-41 mesoporous silica synthesized by different method. Applied Catalysis A: General, 2011, 397, 22-26.	4.3	5
94	Characterization and electrochemical response of DNA functionalized 2 nm gold nanoparticles confined in a nanochannel array. Bioelectrochemistry, 2018, 121, 169-175.	4.6	5
95	Combined TDPAC and EXAFS Study of InPt/FER Catalysts. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 327-330.	1.5	4
96	Electrochemical Preparation and Delivery of Melaninâ€“Iron Covered Gold Nanoparticles. ChemPhysChem, 2009, 10, 370-373.	2.1	4
97	XANES Study of the Radiation Damage on Alkanethiolates-Capped Au Nanoparticles. Journal of Physics: Conference Series, 2013, 430, 012034.	0.4	4
98	Synthesis of nickel entities: From highly stable zerovalent nanoclusters to nanowires. Growth control and catalytic behavior. Journal of Colloid and Interface Science, 2018, 516, 371-378.	9.4	4
99	Controlling the local-ensemble structure in mesoporous hybrid titania-silica thin films containing aminopropyl groups. Journal of Sol-Gel Science and Technology, 2022, 102, 172-184.	2.4	4
100	In situandex situXANES study of nanodispersed Mo species in zeolites used in fine chemistry catalysis. Journal of Synchrotron Radiation, 2001, 8, 631-633.	2.4	3
101	Advances in the study of nano-structured Co/MCM-41 materials: surface and magnetic characterization. Journal of Porous Materials, 2018, 25, 789-799.	2.6	3
102	Structure stability of free copper nanoclusters: FSA-DFT Cu-building and FDM-XANES study. Journal of Electron Spectroscopy and Related Phenomena, 2019, 235, 1-7.	1.7	3
103	Effect of titania on the properties of alumina supported molybdena catalysts. Studies in Surface Science and Catalysis, 1994, 82, 803-810.	1.5	2
104	Nitrate hydrogenation on Pt,In/Al2O3: EXAFS and XANES characterization of fresh and used catalysts. Catalysis Communications, 2008, 10, 355-358.	3.3	2
105	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.	2.5	2
106	Computational Study on Semiconducting and Metallic Nanocrystal Embedded Gate Oxide MOS Non Volatile Memory Devices. Advanced Science Letters, 2012, 10, 47-54.	0.2	2
107	Highly oriented NiSi2@Si thin-nanocomposite produced by solid state diffusion: Morphological and crystallographic characterization. Surfaces and Interfaces, 2022, 29, 101763.	3.0	2
108	Estudos XAFS em catÃ¡lise. CiÃªncia E Cultura, 2017, 69, 43-44.	0.0	0