

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

111
times ranked

6561
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Spectroscopy of Aqueous Solution Interfaces Reveals Surface Enhancement of Halides. <i>Science</i> , 2005, 307, 563-566.	6.0	611
2	Effect of Phosphorus Content in Nickel Phosphide Catalysts Studied by XAFS and Other Techniques. <i>Journal of Catalysis</i> , 2002, 210, 207-217.	3.1	311
3	Nitrogen-containing TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 309-314.	10.8	146
4	Mesoporous Anatase TiO ₂ Films: Use of Ti K XANES for the Quantification of the Nanocrystalline Character and Substrate Effects in the Photocatalysis Behavior. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10886-10893.	1.5	130
5	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
6	Cationic exchange in nanosized ZnFe ₂ O ₄ spinel revealed by experimental and simulated near-edge absorption structure. <i>Physical Review B</i> , 2007, 75, .	1.1	113
7	Temperature Effect on the Synthesis of Au-Pt Bimetallic Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3813-3821.	1.2	108
8	Structural Characterization of Tungsten Phosphide (WP) Hydrotreating Catalysts by X-ray Absorption Spectroscopy and Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1913-1920.	1.2	103
9	Catalytic combustion of diesel soot particles. Activity and characterization of Co/MgO and Co,K/MgO catalysts. <i>Applied Catalysis B: Environmental</i> , 1998, 15, 5-19.	10.8	97
10	XPS and XAFS Pt L _{2,3} -Edge Studies of Dispersed Metallic Pt and PtSn Clusters on SiO ₂ Obtained by Organometallic Synthesis: A Structural and Electronic Characteristics. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11441-11451.	1.2	89
11	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
12	Electronic Structure of Cobalt Nanocrystals Suspended in Liquid. <i>Nano Letters</i> , 2007, 7, 1919-1922.	4.5	83
13	XAFS Characterization of Highly Active Alumina-Supported Molybdenum Phosphide Catalysts (MoP/Al ₂ O ₃) for Hydrotreating. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4961-4966.	1.2	79
14	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
15	Hydrodesulfurization of Petroleum Feedstocks with a New Type of Nonsulfide Hydrotreating Catalyst. <i>Journal of Catalysis</i> , 2002, 209, 1-5.	3.1	70
16	Lowering the synthesis temperature of Ni ₂ P/SiO ₂ by palladium addition. <i>Journal of Catalysis</i> , 2011, 279, 88-102.	3.1	70
17	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
18	Structural Assessment and Catalytic Consequences of the Oxygen Coordination Environment in Grafted Ti-Calixarenes. <i>Journal of the American Chemical Society</i> , 2007, 129, 1122-1131.	6.6	65

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19	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9830-9837.	1.5	65
20	Ag ₂ and Ag ₃ Clusters: Synthesis, Characterization, and Interaction with DNA. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7612-7616.	7.2	63
21	The Role of Outer-Sphere Surface Acidity in Alkene Epoxidation Catalyzed by Calixarene-Ti(IV) Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 15585-15595.	6.6	61
22	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
23	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
24	Photostability of gold nanoparticles with different shapes: the role of Ag clusters. <i>Nanoscale</i> , 2015, 7, 11273-11279.	2.8	53
25	Synthesis of Highly Stable Surfactant-free Cu ₅ Clusters in Water. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15902-15908.	1.5	53
26	Magnetic ZnFe ₂ O ₄ nanoferrites studied by X-ray magnetic circular dichroism and Mössbauer spectroscopy. <i>Physica B: Condensed Matter</i> , 2007, 389, 155-158.	1.3	52
27	Synthesis and Characterization of Gold@Gold(I)-Thiomalate Core@Shell Nanoparticles. <i>ACS Nano</i> , 2010, 4, 3413-3421.	7.3	50
28	XANES Mo L-Edges and XPS Study of Mo Loaded in HY Zeolite. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7824-7831.	1.2	48
29	Local structure and magnetic behaviour of Fe-doped TiO ₂ anatase nanoparticles: experiments and calculations. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 135210.	0.7	47
30	TiO ₂ -Photocatalytic Reduction of Pentavalent and Trivalent Arsenic: Production of Elemental Arsenic and Arsine. <i>Environmental Science & Technology</i> , 2012, 46, 2299-2308.	4.6	46
31	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
32	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
33	Increasing the optical response of TiO ₂ and extending it into the visible region through surface activation with highly stable Cu ₅ clusters. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7489-7500.	5.2	35
34	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
35	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
36	Extended and local structural description of a kaolinitic clay, its fired ceramics and intermediates: An XRD and XANES analysis. <i>Applied Clay Science</i> , 2016, 124-125, 39-45.	2.6	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. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 104, 467-482.	0.8	31
38	Self-assembly of PBzMA-b-PDMAEMA diblock copolymer films at the air-water interface and deposition on solid substrates via Langmuir-Blodgett transfer. <i>Soft Matter</i> , 2013, 9, 10899.	1.2	31
39	Perturbed Angular Correlation Characterization of Indium Species on In/H-ZSM5 Catalysts. <i>Journal of Catalysis</i> , 1999, 188, 375-384.	3.1	30
40	Thiol-Capped Gold Nanoparticles on Graphite: Spontaneous Adsorption and Electrochemically Induced Release. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7179-7184.	1.5	29
41	Spontaneous oxidation of disordered fcc FePt nanoparticles. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	29
42	Angle-resolved x-ray absorption near edge structure study of vertically aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 103115.	1.5	28
43	XAFS, SAXS and HREM characterization of Pd nanoparticles capped with n-alkyl thiol molecules. <i>Physica B: Condensed Matter</i> , 2007, 389, 150-154.	1.3	28
44	Oxygen Reduction on Iron-Melanin Granular Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17097-17103.	1.5	27
45	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NOx. <i>Applied Catalysis A: General</i> , 2004, 264, 93-101.	2.2	26
46	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
47	Exploring the properties of Ag ₅ -TiO ₂ interfaces: stable surface polaron formation, UV-Vis optical response, and CO ₂ photoactivation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6842-6853.	5.2	26
48	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
49	EXAFS, TDPAC and TPR characterization of PtInFerrierite. <i>Applied Catalysis B: Environmental</i> , 2001, 29, 35-46.	10.8	22
50	In-containing H-ZSM5 zeolites with various Si/Al ratios for the NO SCR in the presence of CH ₄ and O ₂ . PAC, TPAD and FTIR studies. <i>Catalysis Today</i> , 1999, 54, 553-558.	2.2	21
51	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
52	“Naked” gold nanoparticles supported on HOPG: melanin functionalization and catalytic activity. <i>Nanoscale</i> , 2011, 3, 1708.	2.8	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. <i>Crystal Growth and Design</i> , 2015, 15, 5451-5463.	1.4	21
54	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

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55	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
56	Synthesis of water-soluble gold clusters in nanosomes displaying robust photoluminescence with very large Stokes shift. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 154-162.	5.0	18
57	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
58	Fourier Transform IR Study of NO + CH ₄ + O ₂ Coadsorption on In-ZSM-5 DeNO _x Catalyst. <i>Catalysis Letters</i> , 2003, 91, 19-24.	1.4	17
59	Shape Changes of Pt Nanoparticles Induced by Deposition on Mesoporous Silica. <i>Small</i> , 2012, 8, 468-473.	5.2	17
60	Confined gold nanoparticles enhance the detection of small molecules in label-free impedance aptasensors. <i>Nanoscale</i> , 2015, 7, 7763-7769.	2.8	17
61	Structure of Extremely Nanosized and Confined In-O Species in Ordered Porous Materials. <i>Physical Review Letters</i> , 2003, 91, 108304.	2.9	16
62	Preparation of Ultrathin Thiolate-Covered Bimetallic Systems: From Extended Planar to Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9359-9364.	1.5	16
63	3CaH ₂ + 4MgB ₂ + CaF ₂ Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7207-7212.	1.5	16
64	Synthesis of ultra-small cysteine-capped gold nanoparticles by pH switching of the Au(I)â€‘cysteine polymer. <i>Journal of Colloid and Interface Science</i> , 2015, 441, 17-24.	5.0	15
65	Electrocatalytic and Magnetic Properties of Ultrathin Nanostructured Ironâ€‘Melanin Films on Au(111). <i>Chemistry - A European Journal</i> , 2007, 13, 473-482.	1.7	14
66	Electronic Perturbation in a Molecular Nanowire of [IrCl ₅ (NO)] ⁻ Units. <i>Chemistry - A European Journal</i> , 2007, 13, 8428-8436.	1.7	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. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9514-9523.	1.2	13
68	In-containing BEA zeolite for selective catalytic reduction of NO _x . <i>Journal of Molecular Catalysis A</i> , 2007, 267, 194-201.	4.8	13
69	Title is missing!. <i>Catalysis Letters</i> , 2002, 82, 131-139.	1.4	12
70	Real-Time Monitoring Distance Changes in Surfactant-Coated Au Nanoparticle Films upon Volatile Organic Compounds (VOCs). <i>Journal of Physical Chemistry C</i> , 2015, 119, 5098-5106.	1.5	12
71	Anomalous Vibrational Properties Induced by Surface Effects in Capped Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7599-7604.	1.5	10
72	In-containing BEA zeolite for selective catalytic reduction of NO _x . <i>Journal of Molecular Catalysis A</i> , 2007, 267, 272-279.	4.8	10

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73	Large-pore mesoporous titania-silica thin films (Ti _{1-x} Si _x O ₂ , 0.1 ≤ x ≤ 0.9) with highly interdispersed mixed oxide frameworks. <i>Comptes Rendus Chimie</i> , 2010, 13, 256-269.	0.2	10
74	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
75	Understanding the Zr and Si interdispersion in Zr _{1-x} Si _x O ₂ mesoporous thin films by using FTIR and XANES spectroscopy. <i>Dalton Transactions</i> , 2016, 45, 9977-9987.	1.6	10
76	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
77	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
78	TDPAC characterization of tin oxides using ¹⁸¹ Ta. <i>Hyperfine Interactions</i> , 1991, 62, 353-358.	0.2	9
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	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
81	Formation of an extended CoSi ₂ thin nanohexagons array coherently buried in silicon single crystal. <i>Applied Physics Letters</i> , 2012, 100, 063116.	1.5	9
82	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NO _x Part II. XAFS characterization and its relationship with the catalytic properties. <i>Applied Catalysis A: General</i> , 2004, 266, 147-153.	2.2	8
83	NEXAFS study of 2LiF-MgB ₂ composite. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10236-10239.	3.8	8
84	Influence of the hydration by the environmental humidity on the metallic speciation and the photocatalytic activity of Cr/MCM-41. <i>Journal of Solid State Chemistry</i> , 2014, 213, 229-234.	1.4	8
85	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
86	<i>In situ</i> study of the endotaxial growth of hexagonal CoSi ₂ nanoplatelets in Si(001). <i>Applied Physics Letters</i> , 2015, 107, .	1.5	7
87	Unexpected compositional and structural modification of CoPt ₃ nanoparticles by extensive surface purification. <i>Nanoscale</i> , 2018, 10, 6382-6392.	2.8	7
88	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
89	Formation of one dimensional linear chains by Ir-Ir bonds in cis-dicarbonyldichloroiridate (I). <i>Polyhedron</i> , 2011, 30, 221-227.	1.0	6
90	TDPAC characterization of Mo species supported on alumina modified by titania. <i>Physica Status Solidi A</i> , 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. <i>Modern Physics Letters B</i> , 1998, 12, 281-289.	1.0	5
92	In Situ PAC Study of InPt Exchanged Zeolites under Different Redox Conditions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7815-7823.	1.2	5
93	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
94	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
95	Combined TDPAC and EXAFS Study of InPt/FER Catalysts. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2000, 55, 327-330.	0.7	4
96	Electrochemical Preparation and Delivery of Melanin-iron Covered Gold Nanoparticles. <i>ChemPhysChem</i> , 2009, 10, 370-373.	1.0	4
97	XANES Study of the Radiation Damage on Alkanethiolates-Capped Au Nanoparticles. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012034.	0.3	4
98	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
99	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
100	In situ and ex situ XANES study of nanodispersed Mo species in zeolites used in fine chemistry catalysis. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 631-633.	1.0	3
101	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
102	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
103	Effect of titania on the properties of alumina supported molybdena catalysts. <i>Studies in Surface Science and Catalysis</i> , 1994, 82, 803-810.	1.5	2
104	Nitrate hydrogenation on Pt,In/Al ₂ O ₃ : EXAFS and XANES characterization of fresh and used catalysts. <i>Catalysis Communications</i> , 2008, 10, 355-358.	1.6	2
105	Semi-analytical modeling of Ag and Au nanoparticles and fullerene (C ₆₀) embedded gate oxide compound semiconductor MOSFET memory devices. <i>Journal of Computational Electronics</i> , 2012, 11, 303-314.	1.3	2
106	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
107	Highly oriented NiSi ₂ @Si thin-nanocomposite produced by solid state diffusion: Morphological and crystallographic characterization. <i>Surfaces and Interfaces</i> , 2022, 29, 101763.	1.5	2
108	Estudos XAFS em catalise. <i>CiĂ©ncia E Cultura</i> , 2017, 69, 43-44.	0.5	0