

# Flix G. Requejo

## List of Publications by Citations

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108  
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110  
ext. papers

3,901  
ext. citations

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L-index

#	Paper	IF	Citations
108	Porous semiconductor chalcogenide aerogels. <i>Science</i> , <b>2005</b> , 307, 397-400	33.3	564
107	Effect of Phosphorus Content in Nickel Phosphide Catalysts Studied by XAFS and Other Techniques. <i>Journal of Catalysis</i> , <b>2002</b> , 210, 207-217	7.3	264
106	Nitrogen-containing TiO <sub>2</sub> photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 65, 309-314	21.8	133
105	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. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10886-10893	3.8	116
104	XPS and EXAFS study of supported PtSn catalysts obtained by surface organometallic chemistry on metals. <i>Applied Catalysis A: General</i> , <b>2005</b> , 278, 239-249	5.1	101
103	Cationic exchange in nanosized ZnFe <sub>2</sub> O <sub>4</sub> spinel revealed by experimental and simulated near-edge absorption structure. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	100
102	Temperature effect on the synthesis of Au-Pt bimetallic nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3813-21	3.4	100
101	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> , <b>2002</b> , 106, 1913-1920	3.4	88
100	Catalytic combustion of diesel soot particles. Activity and characterization of Co/MgO and Co,K/MgO catalysts. <i>Applied Catalysis B: Environmental</i> , <b>1998</b> , 15, 5-19	21.8	86
99	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: Structural and Electronic Characteristics. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11441-11451	3.4	77
98	Influence of N-doping on the structure and electronic properties of titania nanoparticle photocatalysts. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16482-6	3.4	76
97	Electronic Structure of Cobalt Nanocrystals Suspended in Liquid. <i>Nano Letters</i> , <b>2007</b> , 7, 1919-1922	11.5	74
96	Lowering the synthesis temperature of Ni <sub>2</sub> P/SiO <sub>2</sub> by palladium addition. <i>Journal of Catalysis</i> , <b>2011</b> , 279, 88-102	7.3	67
95	Hydrodesulfurization of Petroleum Feedstocks with a New Type of Nonsulfide Hydrotreating Catalyst. <i>Journal of Catalysis</i> , <b>2002</b> , 209, 1-5	7.3	66
94	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> , <b>2012</b> , 223-224, 53-62	12.8	65
93	Study of nucleation and growth mechanism of the metallic nanodumbbells. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4384-92	16.4	64
92	XAFS Characterization of Highly Active Alumina-Supported Molybdenum Phosphide Catalysts (MoP/Al <sub>2</sub> O <sub>3</sub> ) for Hydrotreating. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 4961-4966	3.4	63

91	Structural assessment and catalytic consequences of the oxygen coordination environment in grafted Ti-calixarenes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1122-31	16.4	60
90	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9830-9837	3.8	58
89	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> , <b>2006</b> , 18, 5624-5629	9.6	58
88	The role of outer-sphere surface acidity in alkene epoxidation catalyzed by calixarene-Ti(IV) complexes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15585-95	16.4	56
87	Ag <sub>2</sub> and Ag <sub>3</sub> clusters: synthesis, characterization, and interaction with DNA. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7612-6	16.4	47
86	Magnetic ZnFe <sub>2</sub> O <sub>4</sub> nanoferrites studied by X-ray magnetic circular dichroism and Mössbauer spectroscopy. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 389, 155-158	2.8	47
85	Photostability of gold nanoparticles with different shapes: the role of Ag clusters. <i>Nanoscale</i> , <b>2015</b> , 7, 11273-9	7.7	45
84	Synthesis and characterization of gold at gold(i)-thiomalate core at shell nanoparticles. <i>ACS Nano</i> , <b>2010</b> , 4, 3413-21	16.7	43
83	XANES Mo L-Edges and XPS Study of Mo Loaded in HY Zeolite. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7824-7831	3.4	43
82	Local structure and magnetic behaviour of Fe-doped TiO <sub>2</sub> anatase nanoparticles: experiments and calculations. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 135210	1.8	41
81	XANES study of electronic and structural nature of Mn-sites in manganese oxides with catalytic properties. <i>Catalysis Today</i> , <b>2005</b> , 107-108, 849-855	5.3	40
80	Complementary methods for cluster size distribution measurements: supported platinum nanoclusters in methane reforming catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2005</b> , 228, 299-307		39
79	TiO <sub>2</sub> photocatalytic reduction of pentavalent and trivalent arsenic: production of elemental arsenic and arsine. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 2299-308	10.3	35
78	Synthesis of Highly Stable Surfactant-free Cu <sub>5</sub> Clusters in Water. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15902-15908	3.8	34
77	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> , <b>2004</b> , 108, 20005-20010	3.4	34
76	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> , <b>2004</b> , 226, 83-87	7.3	32
75	Speciation of Copper in Spherical Mesoporous Silicates: From the Microscale to Angstrom. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12221-12229	3.8	30
74	Thiol-Capped Gold Nanoparticles on Graphite: Spontaneous Adsorption and Electrochemically Induced Release. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7179-7184	3.8	29

73	Angle-resolved x-ray absorption near edge structure study of vertically aligned single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 103115	3.4	28
72	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> , <b>2011</b> , 104, 467-482	1.6	27
71	XAFS, SAXS and HREM characterization of Pd nanoparticles capped with n-alkyl thiol molecules. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 389, 150-154	2.8	27
70	Spontaneous oxidation of disordered fcc FePt nanoparticles. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 103905	2.5	23
69	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> , <b>2013</b> , 9, 10899	3.6	22
68	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. <i>Nano Letters</i> , <b>2016</b> , 16, 3738-47	11.5	22
67	Fe-containing ZSM-11 zeolites as active catalyst for SCR of NOx. <i>Applied Catalysis A: General</i> , <b>2004</b> , 264, 93-101	5.1	21
66	EXAFS, TDPAC and TPR characterization of PtInFerrierite: The role of surface species in the SCR of NOx with CH4. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 29, 35-46	21.8	21
65	Extended and local structural description of a kaolinitic clay, its fired ceramics and intermediates: An XRD and XANES analysis. <i>Applied Clay Science</i> , <b>2016</b> , 124-125, 39-45	5.2	20
64	"Naked" gold nanoparticles supported on HOPG: melanin functionalization and catalytic activity. <i>Nanoscale</i> , <b>2011</b> , 3, 1708-16	7.7	20
63	Perturbed Angular Correlation Characterization of Indium Species on In/H-ZSM5 Catalysts. <i>Journal of Catalysis</i> , <b>1999</b> , 188, 375-384	7.3	20
62	Increasing the optical response of TiO and extending it into the visible region through surface activation with highly stable Cu clusters. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7489-7500	13	20
61	Tuning the ring-opening reaction of 1,3-dimethylcyclohexane with the addition of potassium over Ir-containing catalysts. <i>Chemical Engineering Journal</i> , <b>2008</b> , 139, 147-156	14.7	19
60	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> , <b>2011</b> , 109, 064504	2.5	18
59	Molecular conformation changes in alkylthiol ligands as a function of size in gold nanoparticles: X-ray absorption studies. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	18
58	Fluorescent silica nanoparticles with chemically reactive surface: Controlling spatial distribution in one-step synthesis. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 496, 456-464	9.3	17
57	Shape changes of Pt nanoparticles induced by deposition on mesoporous silica. <i>Small</i> , <b>2012</b> , 8, 468-73	11	17
56	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> , <b>2015</b> , 15, 5451-5463	3.5	16

55	Synthesis of water-soluble gold clusters in nanosomes displaying robust photoluminescence with very large Stokes shift. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 455, 154-62	9.3	16
54	Preparation of Ultrathin Thiolate-Covered Bimetallic Systems: From Extended Planar to Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9359-9364	3.8	16
53	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. <i>Catalysis Today</i> , <b>1999</b> , 54, 553-558	5.3	16
52	Fourier Transform IR Study of NO + CH4 + O2 Coadsorption on In-ZSM-5 DeNOx Catalyst. <i>Catalysis Letters</i> , <b>2003</b> , 91, 19-24	2.8	15
51	Confined gold nanoparticles enhance the detection of small molecules in label-free impedance aptasensors. <i>Nanoscale</i> , <b>2015</b> , 7, 7763-9	7.7	14
50	3CaH2 + 4MgB2 + CaF2 Reactive Hydride Composite as a Potential Hydrogen Storage Material: Hydrogenation and Dehydrogenation Pathway. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7207-7212	3.8	14
49	Oxygen Reduction on Iron-Melanin Granular Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17097-17103	7.803	14
48	Electrocatalytic and magnetic properties of ultrathin nanostructured iron-melanin films on Au(111). <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 473-82	4.8	14
47	Electronic perturbation in a molecular nanowire of [IrCl5(NO)]- units. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 8428-36	4.8	14
46	Structure of extremely nanosized and confined In-O species in ordered porous materials. <i>Physical Review Letters</i> , <b>2003</b> , 91, 108304	7.4	14
45	Synthesis of ultra-small cysteine-capped gold nanoparticles by pH switching of the Au(I)-cysteine polymer. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 441, 17-24	9.3	13
44	In-containing BEA zeolite for selective catalytic reduction of NOx: Part I: Synthesis, characterization and catalytic activity. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 267, 194-201		12
43	Real-Time Monitoring Distance Changes in Surfactant-Coated Au Nanoparticle Films upon Volatile Organic Compounds (VOCs). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5098-5106	3.8	11
42	Anomalous Vibrational Properties Induced by Surface Effects in Capped Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7599-7604	3.8	10
41	In-containing BEA zeolite for selective catalytic reduction of NOx. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 267, 272-279		10
40	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> , <b>2001</b> , 105, 9514-9523	3.4	10
39	Large-pore mesoporous titania-silica thin films (Ti1-xSixO2, 0.1 ≤ x ≤ 0.9) with highly interdispersed mixed oxide frameworks. <i>Comptes Rendus Chimie</i> , <b>2010</b> , 13, 256-269	2.7	9
38	Perturbed Angular Correlation Characterization of Indium Species on In/H-ZSM5 in the Presence of Water and Catalytic Deactivation Studies During the SCR of NO x with Methane. <i>Catalysis Letters</i> , <b>2002</b> , 82, 131-139	2.8	9

37	Numerical Simulation of the Diffusion Processes in Nanoelectrode Arrays Using an Axial Neighbor Symmetry Approximation. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5752-9	7.8	9
36	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> , <b>2020</b> , 8, 6842-6853	13	8
35	Understanding the Zr and Si interdispersion in Zr <sub>1-x</sub> Si <sub>x</sub> O <sub>2</sub> mesoporous thin films by using FTIR and XANES spectroscopy. <i>Dalton Transactions</i> , <b>2016</b> , 45, 9977-87	4.3	8
34	Formation of an extended CoSi <sub>2</sub> thin nanohexagons array coherently buried in silicon single crystal. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 063116	3.4	8
33	XANES/EXAFS study and catalytic properties of the confined Cr carbonyl/MCM-41 system. <i>Catalysis Today</i> , <b>2005</b> , 107-108, 750-758	5.3	8
32	TDPAC characterization of tin oxides using <sup>181</sup> Ta. <i>Hyperfine Interactions</i> , <b>1991</b> , 62, 353-358	0.8	8
31	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> , <b>2018</b> , 122, 29051-29061	3.8	8
30	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> , <b>2019</b> , 234, 19-26	1.7	7
29	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> , <b>2014</b> , 213, 229-234	3.3	7
28	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> , <b>2004</b> , 266, 147-153	5.1	7
27	Titanium K-Edge XANES Analysis to Unravel the Local Structure of Alkene Epoxidation Titanium-Polysiloxane Homogeneous Catalysts. <i>Advanced Synthesis and Catalysis</i> , <b>2003</b> , 345, 1314-1320	5.6	7
26	In situ study of the endotaxial growth of hexagonal CoSi <sub>2</sub> nanoplatelets in Si(001). <i>Applied Physics Letters</i> , <b>2015</b> , 107, 223101	3.4	6
25	NEXAFS study of 2LiF/MgB <sub>2</sub> composite. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 10236-10239	6.7	6
24	Formation of one dimensional linear chains by Ir-Cl bonds in cis-dicarbonyldichloroiridate (I). <i>Polyhedron</i> , <b>2011</b> , 30, 221-227	2.7	6
23	Comparative study of CNT, silicon nanowire and fullerene embedded multilayer high-k gate dielectric MOS memory devices. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 405101	3	6
22	Unexpected compositional and structural modification of CoPt nanoparticles by extensive surface purification. <i>Nanoscale</i> , <b>2018</b> , 10, 6382-6392	7.7	5
21	XANES-PCA analysis of Ti-species in MCM-41 mesoporous silica synthesized by different method. <i>Applied Catalysis A: General</i> , <b>2011</b> , 397, 22-26	5.1	5
20	Influence of Impurity Charge-State on the Temperature Dependence of the Electric-Field Gradient. <i>Modern Physics Letters B</i> , <b>1998</b> , 12, 281-289	1.6	5

19	Synthesis of nickel entities: From highly stable zerovalent nanoclusters to nanowires. Growth control and catalytic behavior. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 516, 371-378	9.3	4
18	Electrochemical preparation and delivery of melanin-iron covered gold nanoparticles. <i>ChemPhysChem</i> , <b>2009</b> , 10, 370-3	3.2	4
17	In Situ PAC Study of InPt Exchanged Zeolites under Different Redox Conditions. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7815-7823	3.4	4
16	Combined TDPAC and EXAFS Study of InPt/FER Catalysts. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2000</b> , 55, 327-330	1.4	4
15	TDPAC characterization of Mo species supported on alumina modified by titania. <i>Physica Status Solidi A</i> , <b>1995</b> , 148, 497-506		4
14	Structure stability of free copper nanoclusters: FSA-DFT Cu-building and FDM-XANES study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2019</b> , 235, 1-7	1.7	3
13	Characterization and electrochemical response of DNA functionalized 2nm gold nanoparticles confined in a nanochannel array. <i>Bioelectrochemistry</i> , <b>2018</b> , 121, 169-175	5.6	3
12	Advances in the study of nano-structured Co/MCM-41 materials: surface and magnetic characterization. <i>Journal of Porous Materials</i> , <b>2018</b> , 25, 789-799	2.4	3
11	XANES Study of the Radiation Damage on Alkanethiolates-Capped Au Nanoparticles. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 430, 012034	0.3	3
10	In situ and ex situ XANES study of nanodispersed Mo species in zeolites used in fine chemistry catalysis. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 631-3	2.4	3
9	Semi-analytical modeling of Ag and Au nanoparticles and fullerene (C60) embedded gate oxide compound semiconductor MOSFET memory devices. <i>Journal of Computational Electronics</i> , <b>2012</b> , 11, 303-314	1.8	2
8	Effect of titania on the properties of alumina supported molybdena catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 82, 803-810	1.8	2
7	Unveiling the Occurrence of Co(III) in NiCo Layered Electroactive Hydroxides: The Role of Distorted Environments. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 17081-17090	4.8	2
6	Outstanding Nobility Observed in Cu <sub>5</sub> Clusters Reveals the Key Role of Collective Quantum Effects		2
5	Nitrate hydrogenation on Pt,In/Al <sub>2</sub> O <sub>3</sub> : EXAFS and XANES characterization of fresh and used catalysts. <i>Catalysis Communications</i> , <b>2008</b> , 10, 355-358	3.2	1
4	Highly oriented NiSi <sub>2</sub> @Si thin-nanocomposite produced by solid state diffusion: Morphological and crystallographic characterization. <i>Surfaces and Interfaces</i> , <b>2022</b> , 29, 101763	4.1	1
3	Controlling the local-ensemble structure in mesoporous hybrid titania-silica thin films containing aminopropyl groups. <i>Journal of Sol-Gel Science and Technology</i> , 1	2.3	1
2	Silver Clusters of Five Atoms as Highly Selective Antitumoral Agents Through Irreversible Oxidation of Thiols. <i>Advanced Functional Materials</i> , 2113028	15.6	0

1 Estudos XAFS em catálise. *Ciência E Cultura*, **2017**, 69, 43-44

0.3