

Rodrigo Esparza

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99
papers

1,318
citations

22
h-index

32
g-index

108
ext. papers

1,596
ext. citations

3.2
avg, IF

4.64
L-index

#	Paper	IF	Citations
99	Surface functionalized halloysite nanotubes decorated with silver nanoparticles for enzyme immobilization and biosensing. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2553-2560	7.3	79
98	Effect of the Surfactant on the Growth and Oxidation of Iron Nanoparticles. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	56
97	Experimental evidence of icosahedral and decahedral packing in one-dimensional nanostructures. <i>ACS Nano</i> , 2011 , 5, 6272-8	16.7	56
96	Biosynthesis of silver nanoparticles using a Tamarix gallica leaf extract and their antibacterial activity. <i>Materials Letters</i> , 2016 , 176, 285-289	3.3	54
95	Direct Imaging and Identification of Individual Dopant Atoms in MoS ₂ and WS ₂ Catalysts by Aberration Corrected Scanning Transmission Electron Microscopy. <i>ACS Catalysis</i> , 2011 , 1, 537-543	13.1	50
94	Chitosan-Covered Pd@Pt Core-Shell Nanocubes for Direct Electron Transfer in Electrochemical Enzymatic Glucose Biosensor. <i>ACS Omega</i> , 2017 , 2, 1896-1904	3.9	48
93	Microwave-assisted synthesis of gold nanoparticles self-assembled into self-supported superstructures. <i>Nanoscale</i> , 2012 , 4, 2281-7	7.7	47
92	Analysis of electron beam damage of exfoliated MoS ₂ sheets and quantitative HAADF-STEM imaging. <i>Ultramicroscopy</i> , 2014 , 146, 33-8	3.1	46
91	Pt Nanoparticles Supported on Mesoporous CeO ₂ Nanostructures Obtained through Green Approach for Efficient Catalytic Performance toward Ethanol Electro-oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11290-11299	8.3	43
90	Iron nanoparticles produced by high-energy ball milling. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 945-950	3.0	37
89	Green synthesis of Ag nanoflowers using Kalanchoe Daigremontiana extract for enhanced photocatalytic and antibacterial activities. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 180, 141-149	6	35
88	Chitosan supported silver nanowires as a platform for direct electrochemistry and highly sensitive electrochemical glucose biosensing. <i>RSC Advances</i> , 2016 , 6, 20102-20108	3.7	35
87	On the behavior of Ag nanowires under high temperature: in situ characterization by aberration-corrected STEM. <i>Journal of Materials Chemistry</i> , 2011 , 21, 893-898		30
86	Supramolecular complexes of quantum dots and a polyamidoamine (PAMAM)-folate derivative for molecular imaging of cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 483-92	4.4	29
85	Structural and vibrational properties of hydrothermally grown ZnO ₂ nanoparticles. <i>Journal of Crystal Growth</i> , 2011 , 316, 37-41	1.6	29
84	Structural characterization of Pt-Pd core-shell nanoparticles by Cs-corrected STEM. <i>Journal of Nanoparticle Research</i> , 2012 , 15, 1	2.3	27
83	A general seed-mediated approach to the synthesis of AgM (M = Au, Pt, and Pd) core-shell nanoplates and their SERS properties. <i>RSC Advances</i> , 2017 , 7, 27170-27176	3.7	25

82	A synthesis route of gold nanoparticles without using a reducing agent. <i>Applied Physics Letters</i> , 2010 , 96, 213115	3.4	24
81	New Insights into the structure of Pd-Au nanoparticles as revealed by aberration-corrected STEM. <i>Journal of Crystal Growth</i> , 2011 , 325, 60-67	1.6	24
80	Study of PtPd Bimetallic Nanoparticles for Fuel Cell Applications. <i>Materials Research</i> , 2017 , 20, 1193-1200	5	22
79	Synthesis of gold nanoparticles supported on functionalized nanosilica using deep eutectic solvent for an electrochemical enzymatic glucose biosensor. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7072-7081	7.3	22
78	In situ TEM study of mechanical behaviour of twinned nanoparticles. <i>Philosophical Magazine</i> , 2012 , 92, 4437-4453	1.6	22
77	Atomic Surface Segregation and Structural Characterization of PdPt Bimetallic Nanoparticles. <i>Materials</i> , 2018 , 11,	3.5	22
76	Structure, stability and catalytic activity of chemically synthesized Pt, Au, and Au-Pt nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 641-7	1.3	21
75	Synthesis and characterization of graphene oxide - TiO ₂ thin films by sol-gel for photocatalytic applications. <i>Materials Science in Semiconductor Processing</i> , 2020 , 114, 105082	4.3	21
74	Stability Analysis of Anthocyanins Using Alcoholic Extracts from Black Carrot (ssp. Var. Alef.). <i>Molecules</i> , 2018 , 23,	4.8	20
73	Structure, magnetic and cytotoxic behaviour of solvothermally grown Fe ₃ O ₄ @Au core-shell nanoparticles. <i>Materials Characterization</i> , 2018 , 142, 237-244	3.9	18
72	Seed-Mediated Growth of Ag@Au Nanodisks with Improved Chemical Stability and Surface-Enhanced Raman Scattering. <i>ACS Omega</i> , 2018 , 3, 12600-12608	3.9	17
71	Synthesis of gold nanoparticles with different atomistic structural characteristics. <i>Materials Characterization</i> , 2007 , 58, 694-700	3.9	16
70	Alcoholic extracts from Paulownia tomentosa leaves for silver nanoparticles synthesis. <i>Results in Physics</i> , 2019 , 12, 1670-1679	3.7	15
69	Flexible and transparent supercapacitors using electrospun PEDOT:PSS electrodes. <i>Synthetic Metals</i> , 2020 , 267, 116436	3.6	15
68	Preparation and Characterization of Natural Zeolite Modified with Iron Nanoparticles. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	15
67	Rippled and Helical MoS ₂ Nanowire Catalysts: An Aberration Corrected STEM Study. <i>Catalysis Letters</i> , 2011 , 141, 518-524	2.8	15
66	Catalytic and antibacterial properties of gold nanoparticles synthesized by a green approach for bioremediation applications. <i>3 Biotech</i> , 2019 , 9, 135	2.8	11
65	On the structure of bimetallic noble metal nanoparticles as revealed by aberration corrected scanning transmission electron microscopy (STEM). <i>Micron</i> , 2012 , 43, 557-564	2.3	11

64	Evaluation of a Dynamic Bioremediation System for the Removal of Metal Ions and Toxic Dyes Using <i>Sargassum</i> Spp.. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 899	2.4	11
63	Atomic Structure Characterization of AuPd Bimetallic Nanoparticles by Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22383-22388	3.8	10
62	Room Temperature Mechanical Properties of Fe3Al Intermetallic Alloys with Li and Ni Additions. <i>Journal of Materials Engineering and Performance</i> , 2009 , 18, 57-61	1.6	10
61	Hydrogen embrittlement assisted by ball-milling to obtain AlCuFe nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1713-1718	3.9	10
60	Novel chitosan/polyurethane/anatase titania porous hybrid composite for removal of metal ions waste. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 2185-2197	3.5	10
59	Synthesis of Au@Pt Core-Shell Nanoparticles as Efficient Electrocatalyst for Methanol Electro-Oxidation. <i>Nanomaterials</i> , 2019 , 9,	5.4	10
58	Correlation between theoretical data and experimental selective properties of PtAg core-shell nanoparticles for oxygen reduction reactions. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 17284-17290 ⁹	6.7	9
57	Effects of Minor Element Additions to the Nanocrystalline FeAl Intermetallic Alloy Obtained by Mechanical Alloying. <i>Materials and Manufacturing Processes</i> , 2005 , 20, 823-832	4.1	9
56	Time-dependent facile synthesis of CuO hedgehog-like nanostructures and their catalytic activity. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 46-53	3.3	8
55	Study on the photocatalytic and antibacterial properties of silver nanoparticles synthesized by a green approach. <i>Materials Research Express</i> , 2019 , 6, 065066	1.7	8
54	Synthesis and Catalytic Evaluation of Silver Nanoparticles Synthesized with <i>Aloisia triphylla</i> Leaf Extract. <i>Journal of Cluster Science</i> , 2016 , 27, 1989-1999	3	8
53	The role of ad-atoms in the coalescence of alkanethiol-passivated gold nanoparticles. <i>Electrochimica Acta</i> , 2013 , 101, 301-307	6.7	8
52	Structural and chemical characterization of Yb2O3-ZrO2 system by HAADF-STEM and HRTEM. <i>Microscopy and Microanalysis</i> , 2009 , 15, 46-53	0.5	8
51	Structural analysis and shape-dependent catalytic activity of Au, Pt and Au/Pt nanoparticles. <i>Revista Materia</i> , 2008 , 13, 579-586	0.8	8
50	Controlled Fabrication of Flower-Shaped Au-Cu Nanostructures Using a Deep Eutectic Solvent and Their Performance in Surface-Enhanced Raman Scattering-Based Molecular Sensing. <i>ACS Omega</i> , 2020 , 5, 3699-3708	3.9	7
49	Tensile Strength and Ductility of Al-MT (MT = Fe, Ni) Intermetallic Alloys. <i>Materials and Manufacturing Processes</i> , 2007 , 22, 305-309	4.1	7
48	Novel Biocompatible and Biodegradable PCL-PLA/ Iron Oxide NPs Marker Clip Composite for Breast Cancer Biopsy. <i>Polymers</i> , 2018 , 10,	4.5	7
47	Thorax thermographic simulator for breast pathologies. <i>Journal of Applied Research and Technology</i> , 2017 , 15, 143-151	1.7	6

46	Synthesis of Cu nanoparticles by chemical reduction method. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 1510-1515	3.3	6
45	Synthesis and Characterization of AgPd Bimetallic Nanoparticles as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2020 , 11, 536-545	2.7	6
44	Stability comparison between microencapsulated red-glycosidic pigments and commercial FD&C Red 40 dye for food coloring. <i>Journal of Materials Science</i> , 2017 , 52, 5014-5026	4.3	5
43	Catalytic and antibacterial evaluation of silver nanoparticles synthesized by a green approach. <i>Research on Chemical Intermediates</i> , 2018 , 44, 7479-7490	2.8	5
42	Experimental and theoretical properties of $SrMoO_8$ clusters. <i>Applied Catalysis A: General</i> , 2011 , 397, 46-53	5.1	5
41	Formation of Cu@Pd core@shell nanocatalysts with high activity for ethanol electro-oxidation in alkaline medium. <i>Applied Surface Science</i> , 2021 , 538, 148119	6.7	5
40	A photocatalytic and electrochemical study of gold nanoparticles synthesized by a green approach. <i>Materials Research Express</i> , 2020 , 7, 015019	1.7	4
39	Electrochemical Study of a Hybrid Polymethyl Methacrylate Coating using SiO Nanoparticles toward the Mitigation of the Corrosion in Marine Environments. <i>Materials</i> , 2019 , 12,	3.5	4
38	Characterization Microstructural and Electrochemical of AgPd Alloy Bimetallic Nanoparticles. <i>MRS Advances</i> , 2017 , 2, 2857-2863	0.7	4
37	Analysis for the Sorption Kinetics of Ag Nanoparticles on Natural Clinoptilolite. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-7	1	4
36	Structural Evolution of FeAl ₃ Intermetallic during High-Energy Ball-Milling. <i>Materials Science Forum</i> , 2013 , 755, 133-138	0.4	4
35	Sargassum Influx on the Mexican Coast: A Source for Synthesizing Silver Nanoparticles with Catalytic and Antibacterial Properties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4638	2.6	4
34	Bimetallic Ag@Pt core-shell nanoparticles and their catalytic activity by a green approach. <i>Materials Research Express</i> , 2019 , 6, 0850h8	1.7	3
33	Effects of extraction solvents on photoluminescent properties of eisenhardtia polystachia and their potential usage as biomarker. <i>Materials Science and Engineering C</i> , 2017 , 72, 42-52	8.3	3
32	Synthesis and Characterization of Bifunctional Fe ₂ O ₃ -Ag Nanoparticles. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-6	1	3
31	Phase Evaluation and its Hydrogen Correlation of the FeAl ₃ and FeAl ₂ Intermetallic Alloys during Mechanical Ball-Milling with Water. <i>Materials Science Forum</i> , 2014 , 793, 143-149	0.4	3
30	High-Energy Ball-Milling of FeAl ₂ and Fe ₂ Al ₅ Intermetallic Systems. <i>Materials Science Forum</i> , 2013 , 755, 47-52	0.4	3
29	Pb(core)/ZnO(shell) nanowires obtained by microwave-assisted method. <i>Nanoscale Research Letters</i> , 2011 , 6, 553	5	3

28	Preparation of AlFe nanoparticles by mechanical alloyed technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 2133-7	1.3	3
27	Green Synthesis of Homogeneous Gold Nanoparticles Using spp. Extracts and Their Enhanced Catalytic Activity for Organic Dyes. <i>Toxics</i> , 2021 , 9,	4.7	3
26	Bactericidal and fungicidal capacity of AgO/Ag nanoparticles synthesized with extract. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021 , 56, 762-768	2.3	3
25	Electronic paper from facile, two-step deposition of CuS. <i>Cellulose</i> , 2017 , 24, 1069-1075	5.5	2
24	FeGa ₂ O ₄ nanowires preparation after milling and annealing of Fe doped GaN samples. <i>Journal of Crystal Growth</i> , 2019 , 526, 125220	1.6	2
23	Spectroscopy Study of Silver Nanoparticles Produced by Chemical Reduction. <i>Materials Science Forum</i> , 2013 , 755, 15-20	0.4	2
22	Synthesis of Ag Nanoparticles-Clinoptilolite Composite by Homogeneous and Heterogeneous Nucleation. <i>Materials Science Forum</i> , 2013 , 755, 97-103	0.4	2
21	Linseed and Complex Rosin Ester Oils Additivated with MWCNTs and Nanopearls for Gears/Wheel-Rail Systems. <i>European Journal of Lipid Science and Technology</i> , 2020 , 122, 1900331	3	2
20	Characterization and Electrocatalytic Features of PtPd and PdPt Bimetallic Nanoparticles for Methanol Electro-oxidation. <i>ChemNanoMat</i> , 2021 , 7, 958-965	3.5	2
19	Facile Seed-Mediated Growth of Ultrathin AuCu Shells on Pd Nanocubes and Their Enhanced Nitrophenol Degradation Reactions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13759-13769	3.8	2
18	Anticorrosive Effect of the Size of Silica Nanoparticles on PMMA-Based Hybrid Coatings. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 1054-1065	1.6	2
17	Developing a CNT-SPE Sensing Platform Based on Green Synthesized AuNPs, Using sp. <i>Sensors</i> , 2020 , 20,	3.8	1
16	Electron Microscopy Characterization of Humidity Ball-Milling AlCuFe Intermetallic Powders. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1242, 1		1
15	Mechanical alloying synthesis of carbon nanotubes in the presence of AlFe small clusters. <i>Materials Letters</i> , 2007 , 61, 860-863	3.3	1
14	Assessment of the adhesion and corrosion resistance of PMMA-SiO ₂ coatings in synthetic seawater. <i>MRS Advances</i> , 1	0.7	1
13	Insights into the Structure of MoS ₂ /WS ₂ Nanomaterial Catalysts as Revealed by Aberration Corrected STEM. <i>Microscopy and Microanalysis</i> , 2012 , 18, 65-66	0.5	0
12	Synthesis and Characterization of Bimetallic Nanoparticles by Cs-Corrected Scanning Transmission Electron Microscopy 2015 , 35-42		
11	Synthesis of AlFe Intermetallic Nanoparticles by High-Energy Ball Milling. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1766, 181-186		

- 10 Biosynthesis of Silver Nanoparticles Using Extracts of Mexican Medicinal Plants **2017**, 157-166
- 9 Characterization of Pt-Pd Bimetallic Nanoparticles by Cs-Corrected STEM. *Materials Science Forum*, **2013**, 755, 69-74 0.4
- 8 Study on the Structure and Vibrational Spectra of Functionalized Au Nanoparticles: Theoretical and Experimental Results. *Materials Science Forum*, **2013**, 755, 83-89 0.4
- 7 Ag Nanoparticles Adsorption on Diatom-Montmorillonite Clays. *Materials Science Forum*, **2013**, 755, 91-96.4
- 6 Structural Transformations of Boron Nitride Powders Obtained by Mechanical Milling Process. *Advanced Materials Research*, **2009**, 68, 101-108 0.5
- 5 Characterization of the Crack Propagation in the API X-52 and API X-65 Steels into Cathodic Protection. *Materials Research Society Symposia Proceedings*, **2009**, 1242, 1
- 4 AlN Nanorods synthesized by a Mechanochemical Process. *Materials Research Society Symposia Proceedings*, **2011**, 1288, 1
- 3 Structural Characterization of Nanoparticles Obtained by a Polyol Synthesis in the Bimetallic System Pt-Pd. *Materials Research Society Symposia Proceedings*, **2012**, 1372, 57
- 2 Atomic Resolution in MoS₂ Few Layered using Cs-corrected STEM at 80 kV. *Microscopy and Microanalysis*, **2012**, 18, 1440-1441 0.5
- 1 Synthesis and Characterization of Magnetic Nanoparticles for Biomedical Applications **2015**, 169-176