

M Sergio J Moreno

List of Publications by Year in descending order

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105
papers

2,362
citations

186265

28
h-index

243625

44
g-index

105
all docs

105
docs citations

105
times ranked

4115
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Distribution and Bonding of Lithium in Intercalated Graphite: Identification with Optimized Electron Energy Loss Spectroscopy. ACS Nano, 2011, 5, 1190-1197.	14.6	203
2	Spontaneous adsorption of silver nanoparticles on Ti/TiO ₂ surfaces. Antibacterial effect on Pseudomonas aeruginosa. Journal of Colloid and Interface Science, 2010, 350, 402-408.	9.4	145
3	Calculated static and dynamic properties of \hat{I}^2 -Sn and Sn-O compounds. Physical Review B, 1993, 48, 15712-15718.	3.2	129
4	Practical aspects of electron energy-loss spectroscopy (EELS) calculations using FEFF8. Micron, 2007, 38, 1-11.	2.2	104
5	High performance nanostructured IT-SOFC cathodes prepared by novel chemical method. Electrochemistry Communications, 2008, 10, 1905-1908.	4.7	81
6	Kinetic study of the disproportionation of tin monoxide. Solid State Ionics, 2001, 144, 81-86.	2.7	76
7	Correlated enhancement of H _{c2} and J _c in carbon nanotube doped MgB ₂ . Superconductor Science and Technology, 2007, 20, L12-L15.	3.5	74
8	Differentiation of tin oxides using electron energy-loss spectroscopy. Physical Review B, 2004, 69, .	3.2	71
9	Mössbauer study of SnO lattice dynamics. Physical Review B, 1994, 50, 9875-9881.	3.2	57
10	Synthesis of carbon nanotubes by CVD: Effect of acetylene pressure on nanotubes characteristics. Applied Surface Science, 2007, 254, 251-256.	6.1	55
11	Using Highly Accurate 3D Nanometrology to Model the Optical Properties of Highly Irregular Nanoparticles: A Powerful Tool for Rational Design of Plasmonic Devices. Nano Letters, 2010, 10, 2097-2104.	9.1	54
12	The effect of humic acid binding to magnetite nanoparticles on the photogeneration of reactive oxygen species. Separation and Purification Technology, 2012, 91, 23-29.	7.9	44
13	Study of intermediate oxides in SnO thermal decomposition. Journal of Physics Condensed Matter, 1992, 4, 351-355.	1.8	42
14	Fe and Mo Valences in Sr ₂ FeMoO ₆ . Solid State Communications, 2001, 120, 161-164.	1.9	42
15	Characterization of Pd-CeO _x interaction on \hat{I}^{\pm} -Al ₂ O ₃ support. Applied Surface Science, 2007, 254, 325-329.	6.1	41
16	Mesoporous silica and carbon based catalysts for esterification and biodiesel fabrication – The effect of matrix surface composition and porosity. Applied Catalysis A: General, 2017, 533, 49-58.	4.3	40
17	Hydrogen production by ethanol steam reforming over Rh nanoparticles supported on lanthana/silica systems. Applied Catalysis B: Environmental, 2014, 160-161, 254-266.	20.2	39
18	Modified catalytic materials for ethanol oxidation. International Journal of Hydrogen Energy, 2010, 35, 5999-6004.	7.1	38

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19	Electronic structure of tin oxides by electron energy loss spectroscopy and real-space multiple scattering calculations. <i>Physical Review B</i> , 2005, 71, .	3.2	37
20	Cation nonstoichiometry in tin-monoxide-phase Sn_{1-x}O with tweed microstructure. <i>Physical Review B</i> , 1997, 56, 5186-5192.	3.2	36
21	Anomalous Packing in Thin Nanoparticle Supercrystals. <i>Physical Review Letters</i> , 1999, 82, 5277-5280.	7.8	36
22	Iron oxide nanoparticles inside the MCM-41 channels: Study of the structural stability of the support. <i>Microporous and Mesoporous Materials</i> , 2005, 84, 153-160.	4.4	34
23	ROS enhancement by silicon nanoparticles in X-ray irradiated aqueous suspensions and in glioma C6 cells. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	34
24	Highly anisotropic distribution of iron nanoparticles within MCM-41 Mesoporous Silica. <i>Micron</i> , 2006, 37, 52-56.	2.2	32
25	Structure determination of the intermediate tin oxide Sn_3O_4 by precession electron diffraction. <i>Zeitschrift für Kristallographie</i> , 2010, 225, 56-66.	1.1	31
26	Linear augmented-plane-wave frozen-phonon calculation, shell-model lattice dynamics, and specific-heat measurement of SnO. <i>Physical Review B</i> , 1999, 60, 14496-14499.	3.2	29
27	Carbon nanotubes as catalyst supports for ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11681-11686.	7.1	29
28	Synthesis and multi-technique characterization of nickel loaded MCM-41 as potential hydrogen-storage materials. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 103-111.	4.4	29
29	Synthesis, crystal chemistry and physical properties of the Ruddlesden-Popper phases $\text{Sr}_3\text{Fe}_{2-x}\text{Ni}_x\text{O}_7$ ($0 \leq x \leq 1.0$). <i>Journal of Solid State Chemistry</i> , 2005, 178, 1559-1568.	2.9	26
30	Improving the biocidal activity of outdoor coating formulations by using zeolite-supported silver nanoparticles. <i>Materials Science and Engineering C</i> , 2019, 98, 789-799.	7.3	23
31	Physicochemical Characterization of 2-Hydroxybenzophenone with β -Cyclodextrin in Solution and Solid State. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5918-5925.	2.6	21
32	Fourier-ratio deconvolution and its Bayesian equivalent. <i>Micron</i> , 2008, 39, 642-647.	2.2	19
33	A novel method to produce a hierarchical porous carbon as a conductive support of PtRu particles. Effect on CO and methanol electrooxidation. <i>Journal of Power Sources</i> , 2013, 221, 42-48.	7.8	19
34	Catalytic behavior of Ru nanoparticles supported on carbon fibers for the ethanol steam reforming reaction. <i>Catalysis Communications</i> , 2018, 114, 19-23.	3.3	19
35	Faceted platinum electrocatalysts for electrochemical energy converters. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5925-5929.	7.1	18
36	Hyperfine interactions of ^{111}In -implanted tin oxide thin films. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 3625-3634.	1.8	16

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37	Exploring the benefits of electron tomography to characterize the precise morphology of core-shell Au@Ag nanoparticles and its implications on their plasmonic properties. <i>Nanoscale</i> , 2014, 6, 12696-12702.	5.6	16
38	2D Nanosheet Paint from Solvent-Exfoliated Bi ₂ Te ₃ Ink. <i>Chemistry of Materials</i> , 2017, 29, 7390-7400.	6.7	16
39	Effects of Zn Substitution in the Magnetic and Morphological Properties of Fe-Oxide-Based Core-Shell Nanoparticles Produced in a Single Chemical Synthesis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1444-1453.	3.1	16
40	Crystallization study and hyperfine characterization of a Sn-O thin film with Ta181. <i>Physical Review B</i> , 1991, 43, 10086-10092.	3.2	15
41	Supported catalysts for alcohol oxidation synthesis and analysis of their catalytic activity. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14849-14853.	7.1	15
42	The optoelectronic behaviour of carbon nanoparticles: evidence of the importance of the outer carbon shell. <i>Nanoscale</i> , 2013, 5, 7977.	5.6	15
43	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> , 2015, 441, 17-24.	9.4	15
44	The shell effect on the room temperature photoluminescence from ZnO/MgO core/shell nanowires: exciton-phonon coupling and strain. <i>Nanotechnology</i> , 2017, 28, 275702.	2.6	15
45	Pt encapsulated into NaA zeolite as catalyst for the WGS reaction. <i>Applied Catalysis A: General</i> , 2019, 572, 176-184.	4.3	15
46	Final-state effects on photoemission line shapes at finite temperature. <i>Physical Review B</i> , 2001, 63, .	3.2	14
47	Performance improvement on LiFePO ₄ /C composite cathode for lithium-ion batteries. <i>Solid State Sciences</i> , 2013, 20, 110-114.	3.2	14
48	Energy loss of protons and deuterons at low energies in Pd polycrystalline thin films. <i>Physical Review A</i> , 2013, 88, .	2.5	14
49	New Insight into the Chemical Nature of the Plasmonic Nanostructures Synthesized by the Reduction of Au(III) with Sulfide Species. <i>Langmuir</i> , 2017, 33, 6785-6793.	3.5	14
50	CMK-3 nanostructured carbon: Effect of temperature and time carbonization on textural properties and H ₂ storage. <i>Chemical Engineering Communications</i> , 2019, 206, 1581-1595.	2.6	14
51	Shell-model lattice dynamics and Mössbauer recoilless fraction of SnO. <i>Physical Review B</i> , 1996, 54, 7151-7156.	3.2	13
52	Influence of the electronic distribution of polymers in the spatial conformation of polymer grafted carbon nanotube composites. <i>Physica B: Condensed Matter</i> , 2012, 407, 3184-3187.	2.7	13
53	Accuracy of the calculated unoccupied states in GaN phases as tested by high-resolution electron energy-loss spectroscopy. <i>Physical Review B</i> , 2006, 73, .	3.2	12
54	Atomic resolution imaging and spectroscopy of barium atoms and functional groups on graphene oxide. <i>Ultramicroscopy</i> , 2014, 145, 66-73.	1.9	12

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55	Hierarchical nanostructured carbons as CO ₂ adsorbents. <i>Adsorption</i> , 2019, 25, 1287-1297.	3.0	12
56	Interfacial structure of epitaxial SrTiO ₃ on Si: experiments and simulations. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 085409.	2.8	11
57	Confined Iron Nanoparticles on Mesoporous Ordered Silica for Fischer-Tropsch Synthesis. <i>Topics in Catalysis</i> , 2019, 62, 1086-1095.	2.8	11
58	Catalytic enhancement of formic acid electro-oxidation through surface modifications with gold on supported Pt nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1967-1972.	7.1	11
59	Electronic structure of Sr ₂ FeMoO ₆ . <i>Physica B: Condensed Matter</i> , 2002, 320, 43-46.	2.7	10
60	Electron microscopy study of CeO _x /Pd/Al ₂ O ₃ catalysts for methane dry reforming. <i>Journal of Applied Physics</i> , 2009, 105, 083531.	2.5	10
61	Research on methanol-tolerant catalysts for the oxygen reduction reaction. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1187-1193.	2.9	10
62	TDPAC characterization of tin oxides using ¹⁸¹ Ta. <i>Hyperfine Interactions</i> , 1991, 62, 353-358.	0.5	9
63	Characterization of the magnetic properties of a GdBa ₂ Cu ₃ O ₇ /La _{0.75} Sr _{0.25} MnO ₃ superlattice using off-axis electron holography. <i>Applied Surface Science</i> , 2006, 252, 3977-3983.	6.1	9
64	Local study of the magnetism of Co-doped ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1739-1742.	2.8	9
65	Influence of metallic oxides on ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8690-8696.	7.1	9
66	Probing electronic structure of stoichiometric and defective SnO ₂ . <i>Physical Review B</i> , 2017, 95, .	3.2	9
67	The surface chemistry of near-infrared resonant gold nanotriangles obtained via thiosulfate synthesis. <i>Applied Surface Science</i> , 2019, 464, 131-139.	6.1	9
68	Search for aftereffects in tin oxide films. <i>Physical Review B</i> , 1989, 40, 2546-2548.	3.2	8
69	CEMS studies of Sn ²⁺ O thin films prepared by thermal evaporation. <i>Hyperfine Interactions</i> , 1991, 67, 657-660.	0.5	8
70	Characterization of Fe-N nanocrystals and nitrogen-containing inclusions in (Ga,Fe)N thin films using transmission electron microscopy. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	8
71	Preparation and evaluation of carbon-supported catalysts for ethanol oxidation. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1823-1829.	2.5	8
72	Hyperfine characterization of Ta ¹⁸¹ inIn ₂ O ₃ . <i>Physical Review B</i> , 1993, 47, 490-492.	3.2	7

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73	The spatial resolution of electron energy loss and x-ray absorption fine structure. Journal of Applied Physics, 2008, 104, 034906.	2.5	7
74	Cobalt Doped LiFePO ₄ /C Composite Material for Li-Ion Cathodes. ECS Transactions, 2012, 40, 93-98.	0.5	7
75	Electron energy-loss spectroscopy of boron-doped layers in amorphous thin film silicon solar cells. Journal of Applied Physics, 2013, 113, .	2.5	7
76	Searching for suitable catalysts for a passive direct methanol fuel cell cathode. International Journal of Hydrogen Energy, 2015, 40, 14632-14639.	7.1	7
77	Morphology and Electrochemical Response of LiFePO ₄ Nanoparticles Tuned by Adjusting the Thermal Decomposition Synthesis. Journal of Physical Chemistry C, 2018, 122, 18795-18801.	3.1	7
78	Lattice-dynamics of the intermediate oxide of tin. Hyperfine Interactions, 1994, 83, 415-418.	0.5	6
79	Study of the Morin Transition in Pseudocubic Fe_2O_3 Particles. Hyperfine Interactions, 2005, 161, 177-183.	0.5	6
80	Effect of Al and Y incorporation on the structure of HfO ₂ . Journal of Applied Physics, 2008, 104, 093529.	2.5	6
81	Magnetic upconverting fluorescent NaGdF ₄ :Ln ³⁺ and iron-oxide@NaGdF ₄ :Ln ³⁺ nanoparticles. AIP Advances, 2018, 8, 056710.	1.3	6
82	Dependence of the composition, morphology and magnetic properties with the water and air exposure during the Fe _{1-y} O/Fe ₃ O ₄ core-shell nanoparticles synthesis. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	6
83	Electron irradiation damage in SnO. Philosophical Magazine Letters, 2003, 83, 591-597.	1.2	5
84	Prospects of Fe/MCM-41 as a Catalyst for Hydrocarbon Synthesis. AIP Conference Proceedings, 2005, , .	0.4	5
85	Characterization of carbon nanofibers produced in the reforming of CH ₄ with CO ₂ over supported Pd. Catalysis Today, 2008, 133-135, 842-845.	4.4	5
86	Influence of tungsten on the carbon nanotubes growth by CVD process. Journal of Alloys and Compounds, 2009, 479, 440-444.	5.5	5
87	Oil-in-water emulsion development for the encapsulation and sustained release of xanthone. Journal of Dispersion Science and Technology, 2020, 41, 355-361.	2.4	5
88	Electrochemical Preparation and Delivery of Melanin-Iron Covered Gold Nanoparticles. ChemPhysChem, 2009, 10, 370-373.	2.1	4
89	Comparison of the (photo)catalytic efficiency of Ag/Fe nanocomposites prepared by polyol synthesis and laser ablation. Journal of Nanoparticle Research, 2022, 24, 1.	1.9	4
90	Synthesis of LiFePO ₄ /C Composite Cathode for Lithium-Ion Batteries. ECS Transactions, 2011, 32, 23-31.	0.5	3

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91	Novel NiO surface coating on LiCoO ₂ cathode for Li-ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 283, 115775.	3.5	3
92	Highly crystalline LiCuXFe _{1-x} XPO ₄ nanoparticles synthesized by high temperature thermal decomposition: a morphological and electrical transport study. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 335302.	2.8	2
93	Electronic energy loss of protons and deuterons in multi-walled carbon nanotubes. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	2
94	3D characterization and metrology of nanostructures by electron tomography. <i>Microscopy and Microanalysis</i> , 2008, 14, 284-285.	0.4	1
95	Improved Route for the Synthesis of Colloidal NaYF ₄ Nanocrystals and Electron Spin Resonance of Gd ³⁺ Local Probe. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5708-5714.	0.9	1
96	Mapping boron in silicon solar cells using electron energy-loss spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011, 326, 012052.	0.4	1
97	Interaction between natural magnetite sub-micrometric particles and the <i>Fasciola hepatica</i> egg: The role of the exposed surface area. <i>Experimental Parasitology</i> , 2019, 199, 59-66.	1.2	1
98	Synthesis and evaluation of thermal neutron attenuation properties of lithium orthosilicate for its application as a beam shaping material on BNCT facilities. <i>Applied Radiation and Isotopes</i> , 2020, 157, 109036.	1.5	1
99	Electron Microscopy Characterization of Pd-Ce Interaction on γ -Al ₂ O ₃ Support. <i>Microscopy and Microanalysis</i> , 2008, 14, 292-293.	0.4	0
100	Electron Radiation Damage in TiO _x Nanobelts. <i>Microscopy and Microanalysis</i> , 2009, 15, 1340-1341.	0.4	0
101	Electronic structure of MgS and MgYb ₂ S ₄ : Electron Energy-Loss Spectroscopy and self-consistent multiple scattering calculations. <i>Micron</i> , 2015, 73, 9-14.	2.2	0
102	Obtención de nanopartículas de LiCoO ₂ mediante síntesis por combustión de soluciones. <i>Revista Materia</i> , 2018, 23, .	0.2	0
103	Elastic distortion determining conduction in BiFeO ₃ phase boundaries. <i>RSC Advances</i> , 2020, 10, 27954-27960.	3.6	0
104	Energy-loss near edge structures of Cr ₂ O ₃ , CrO ₂ and YCrO ₄ phases. , 2008, , 375-376.		0
105	Synthesis of high purity Li ₈ SiO ₆ using a citric acid-assisted route. <i>Ceramics International</i> , 2022, 48, 11273-11277.	4.8	0