

Jaime Santoyo-Salazar

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97 papers	1,151 citations	18 h-index	29 g-index
105 ext. papers	1,349 ext. citations	3.3 avg, IF	4.35 L-index

#	Paper	IF	Citations
97	Magnetic Iron Oxide Nanoparticles in 10–40 nm Range: Composition in Terms of Magnetite/Maghemite Ratio and Effect on the Magnetic Properties. <i>Chemistry of Materials</i> , 2011 , 23, 1379-1386	9.6	244
96	Enhanced photocatalytic activity of TiO ₂ -ZnO thin films deposited by dc reactive magnetron sputtering. <i>Ceramics International</i> , 2017 , 43, 8831-8838	5.1	41
95	Liposomes Loaded with Cisplatin and Magnetic Nanoparticles: Physicochemical Characterization, Pharmacokinetics, and In-Vitro Efficacy. <i>Molecules</i> , 2018 , 23,	4.8	36
94	Size dependent gas sensing properties of spinel iron oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 942-950	8.5	34
93	Sol-gel synthesis of Ag-loaded TiO ₂ -ZnO thin films with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 908-917	5.7	32
92	In vitro magnetic hyperthermia using polyphenol-coated FeO@FeO nanoparticles from Cinnamomum verum and Vanilla planifolia: the concert of green synthesis and therapeutic possibilities. <i>Nanotechnology</i> , 2018 , 29, 074001	3.4	29
91	CdTe thin films grown by pulsed laser deposition using powder as target: Effect of substrate temperature. <i>Journal of Crystal Growth</i> , 2014 , 386, 27-31	1.6	26
90	Cathodoluminescent characteristics of Sm-doped ZnAl ₂ O ₄ nanostructured powders. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 102-107	1.6	26
89	Synthesis and Magnetic Characterization of Graphite-Coated Iron Nanoparticles. <i>Journal of Nanotechnology</i> , 2016 , 2016, 1-6	3.5	26
88	Physical properties of CdTe:Cu films grown at low temperature by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2012 , 112, 113110	2.5	24
87	A Novel Gas Sensor Based on MgSb ₂ O ₆ Nanorods to Indicate Variations in Carbon Monoxide and Propane Concentrations. <i>Sensors</i> , 2016 , 16, 177	3.8	24
86	Microstructure and electrical transport in nano-grain sized Ce _{0.9} Gd _{0.1} O ₂ ceramics. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 3093-3100	3.3	23
85	Supramolecular intermediates in the synthesis of polymeric carbon nitride from melamine cyanurate. <i>Journal of Solid State Chemistry</i> , 2015 , 226, 170-178	3.3	22
84	Magnetic domain interactions of FeO nanoparticles embedded in a SiO matrix. <i>Scientific Reports</i> , 2018 , 8, 5096	4.9	22
83	Synthesis, characterization and sensitivity tests of perovskite-type LaFeO ₃ nanoparticles in CO and propane atmospheres. <i>Ceramics International</i> , 2016 , 42, 18821-18827	5.1	21
82	Low-Temperature Synthesis and Gas Sensitivity of Perovskite-Type LaCoO ₃ Nanoparticles. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8	3.2	19
81	Structural and optical properties of CdTe-nanocrystals thin films grown by chemical synthesis. <i>Materials Science in Semiconductor Processing</i> , 2015 , 35, 144-148	4.3	18

80	A novel CO and C ₃ H ₈ sensor made of CuSb ₂ O ₆ nanoparticles. <i>Ceramics International</i> , 2017 , 43, 13635-13644	3.4	18
79	Key processing of porous and fibrous LaCoO ₃ nanostructures for successful CO and propane sensing. <i>Ceramics International</i> , 2018 , 44, 15402-15410	5.1	18
78	Effect of deposition temperature on polymorphous silicon thin films by PECVD: Role of hydrogen. <i>Materials Science in Semiconductor Processing</i> , 2016 , 41, 390-397	4.3	15
77	Sensitivity of Mesoporous CoSb ₂ O ₆ Nanoparticles to Gaseous CO and C ₃ H ₈ at Low Temperatures. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	15
76	Effect of the sulfur and fluorine concentration on physical properties of CdS films grown by chemical bath deposition. <i>Results in Physics</i> , 2017 , 7, 1971-1975	3.7	14
75	Structural and optical properties of Cu-doped CdTe films with hexagonal phase grown by pulsed laser deposition. <i>AIP Advances</i> , 2012 , 2, 022131	1.5	14
74	Structural and magnetic domains characterization of magnetite nanoparticles. <i>Materials Science and Engineering C</i> , 2007 , 27, 1317-1320	8.3	14
73	Improved adsorption and photocatalytic removal of methylene blue by MoO ₃ thin films: Role of the sputtering power, film thickness, and sputtering working pressure. <i>Catalysis Today</i> , 2021 , 360, 138-146	5.3	13
72	The mechanochemical synthesis of PbTe nanostructures: following the Ostwald ripening effect during milling. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27082-27092	3.6	13
71	Structural defects in LiMn ₂ O ₄ induced by gamma radiation and its influence on the Jahn-Teller effect. <i>Solid State Ionics</i> , 2018 , 324, 77-86	3.3	13
70	A simple route for the preparation of nanostructured GdCoO ₃ via the solution method, as well as its characterization and its response to certain gases. <i>Results in Physics</i> , 2019 , 12, 475-483	3.7	12
69	Synthesis of boron carbon nitride oxide (BCNO) from urea and boric acid. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 8-12	1.8	10
68	Nanocrystalline Si/SiO ₂ core-shell network with intense white light emission fabricated by hot-wire chemical vapor deposition. <i>Applied Physics Letters</i> , 2015 , 106, 171912	3.4	10
67	Synthesis and characterization of Cu-doped polymeric carbon nitride. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 171-180	1.8	10
66	White bright luminescence at room temperature from TEOS-based thin films via catalytic chemical vapor deposition. <i>Materials Letters</i> , 2014 , 131, 295-297	3.3	10
65	Influence of plasma parameters and substrate temperature on the structural and optical properties of CdTe thin films deposited on glass by laser ablation. <i>Journal of Applied Physics</i> , 2015 , 118, 125304	2.5	10
64	CO and C ₃ H ₈ Sensitivity Behavior of Zinc Antimonate Prepared by a Microwave-Assisted Solution Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	10
63	Magnetic studies on ZnTe:Cr film grown on glass substrate by thermal evaporation method. <i>Applied Surface Science</i> , 2009 , 255, 7517-7523	6.7	10

62	Surface chemistry and density distribution influence on visible luminescence of silicon quantum dots: an experimental and theoretical approach. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1526-1533	3.6	9
61	A new strategy toward enhancing the phosphate doping in $\text{Li}_x\text{Mn}_2\text{O}_4$ cathode materials. <i>Ceramics International</i> , 2014 , 40, 12413-12422	5.1	9
60	Synthesis of CdSe nanoparticles immersed in an organic matrix of amylopectin by means of rf sputtering. <i>Journal of Crystal Growth</i> , 2012 , 338, 251-255	1.6	9
59	Ferromagnetism in $\text{ZnTe}:\text{Cr}$ film grown on $\text{Si}(100)$. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 80-86	5.7	9
58	Sonochemical magnetite encapsulation in silica at low irradiation power. <i>Materials Letters</i> , 2019 , 250, 103-107	3.3	8
57	Synthesis and characterization of gallium nitride nanoparticles by using solvothermal-soft-chemical methodology. <i>Materials Science in Semiconductor Processing</i> , 2015 , 30, 435-441	4.3	8
56	Facile Synthesis, Microstructure, and Gas Sensing Properties of NdCoO_3 Nanoparticles. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	8
55	Simple synthesis of PbSe nanocrystals and their self-assembly into 2D "flakes" and 1D "ribbons" structures. <i>Materials Research Bulletin</i> , 2016 , 80, 96-101	5.1	8
54	Magnetic and magneto-optical studies on $\text{Zn}_{1-x}\text{Cr}_x\text{Te}$ ($x=0.05$) films grown on glass substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 4108-4114	2.8	8
53	Novel yttria-stabilised zirconia/alumina tetragonal phase obtained by co-precipitation. <i>Journal of Crystal Growth</i> , 2006 , 290, 307-312	1.6	8
52	Experimental and theoretical rationalization of the growth mechanism of silicon quantum dots in non-stoichiometric SiN : role of chlorine in plasma enhanced chemical vapour deposition. <i>Nanotechnology</i> , 2016 , 27, 455703	3.4	8
51	Influence of sodium peroxide during the synthesis of SiO_2 obtained from rice husk. <i>Materials Science in Semiconductor Processing</i> , 2020 , 114, 105087	4.3	7
50	Synthesis of colloidal silicon and germanium nanoparticles by laser ablation of solid Si and Ge targets in ethanol. <i>Materials Research Express</i> , 2018 , 5, 015038	1.7	7
49	Photo and cathodoluminescence characteristics of dysprosium doped yttrium oxide nanoparticles prepared by Polyol method. <i>Journal of Luminescence</i> , 2014 , 146, 497-501	3.8	7
48	Effect of a ZnSe Layer on the Thermochromic Properties of MoO_3 Thin Films. <i>International Journal of Thermophysics</i> , 2012 , 33, 2035-2040	2.1	7
47	Hexagonal CdTe films with Te excess grown at room temperature by laser ablation. <i>Materials Letters</i> , 2013 , 92, 94-95	3.3	7
46	Solution based synthesis of $\text{Cu}(\text{In,Ga})\text{Se}$ microcrystals and thin films.. <i>RSC Advances</i> , 2019 , 9, 35197-35208	3.7	7
45	Time-dependent evolution pathway of ClGSe nanocrystals by low-temperature process. <i>Advanced Powder Technology</i> , 2019 , 30, 2980-2988	4.6	6

44	Synthesis and characterization of nickel antimonate nanoparticles: sensing properties in propane and carbon monoxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6166-6177	2.1	6
43	Molecular dynamics and electronic structure study of neutral, cationic and anionic (Fe ₃ O ₄) _n clusters. <i>Chemical Physics Letters</i> , 2018 , 706, 494-500	2.5	6
42	Telescoping synthesis and goldilocks of CZTS nanocrystals. <i>Materials Research Bulletin</i> , 2019 , 111, 342-349	3.1	6
41	Copper telluride thin films grown by pulsed laser deposition. <i>Surface and Coatings Technology</i> , 2013 , 217, 181-183	4.4	5
40	Chemical and structural properties of polymorphous silicon thin films grown from dichlorosilane. <i>Applied Surface Science</i> , 2013 , 285, 431-439	6.7	5
39	Synthesis of Eskolaite (Cr ₂ O ₃) Nanostructures by Thermal Processing of Cr ₂ O ₃ -Loaded Activated Carbon. <i>Particulate Science and Technology</i> , 2014 , 32, 451-455	2	5
38	Influence of the thiourea/CdCl ₂ concentration ratio used for the chemical bath deposition of CdS thin films, upon the CdS/CdTe interface recombination velocity in CdTe/CdS/glass structures.. <i>Journal of Applied Physics</i> , 2010 , 107, 123701	2.5	5
37	Synthesis of visible light emitting self assembled Ge nanocrystals embedded within a SiO ₂ matrix. <i>Journal of Applied Physics</i> , 2012 , 111, 044327	2.5	5
36	Observation of room temperature ferromagnetism in ZnTe:Cr films grown onto glass substrate by thermal evaporation method. <i>Journal of Physics: Conference Series</i> , 2009 , 153, 012048	0.3	5
35	Comparative effects of TiO and ZnO nanoparticles on growth and ultrastructure of ovarian antral follicles. <i>Reproductive Toxicology</i> , 2020 , 96, 399-412	3.4	5
34	Quick synthesis of gold nanoparticles at low temperature, by using Agave potatorum extracts. <i>Materials Letters</i> , 2019 , 235, 254-257	3.3	5
33	Copper complexes within the supramolecular solid structure of cyanuric acid and melamine. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 688-697	1.8	4
32	Development of a Parenteral Formulation of NTS-Polyplex Nanoparticles for Clinical Purpose. <i>Pharmaceutics</i> , 2018 , 10,	6.4	4
31	Biological synthesis of iron nanoparticles using hydrolysates from a waste-based biorefinery. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 28649-28669	5.1	3
30	Enhanced ZnTe infiltration in porous silicon by Isothermal Close Space Sublimation. <i>Microporous and Mesoporous Materials</i> , 2014 , 188, 93-98	5.3	3
29	Interactions of Magnetic Domains in Grain Boundaries and Cores of Nanopolycrystalline Magnetite. <i>Journal of Scanning Probe Microscopy</i> , 2009 , 4, 17-23		3
28	Enhanced green photoluminescence and dispersion of ZnO quantum dots shelled by a silica shell. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	3
27	Growth and Self-Assembly of Silicon/Silicon Carbide Nanoparticles into Hybrid Worm-Like Nanostructures at the Silicon Wafer Surface. <i>Nanomaterials</i> , 2018 , 8,	5.4	3

26	Double stack layer structure of SiN x /pm-Si thin films for downshifting and antireflection properties. <i>Materials Letters</i> , 2017 , 203, 50-53	3.3	2
25	Influence of the indium nominal concentration in the formation of CuInS ₂ films grown by CBD. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 755-759	4.3	2
24	Synthesis and characterization of NiPcTSTNa(L) thin films. <i>Bulletin of Materials Science</i> , 2012 , 35, 759-766.	4.7	2
23	Stoichiometric 6H-SiC thin films deposited at low substrate temperature by laser ablation. <i>Journal of Laser Applications</i> , 2013 , 25, 052007	2.1	2
22	Ferromagnetism in Zn _{1-x} Cr _x Te (x = 0.05, 0.15) films grown on GaAs(1 0 0) substrate. <i>Current Applied Physics</i> , 2010 , 10, 771-775	2.6	2
21	Synthesis and characterisation of YSZ-Al ₂ O ₃ nanostructured materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2103-9	1.3	2
20	Structural, Compositional and Magnetic Studies on Zn _{1-x} Cr _x Te (x = 0.05, 0.15) Films Grown on GaAs (100) Substrates. <i>Science of Advanced Materials</i> , 2011 , 3, 80-88	2.3	2
19	Ferromagnetic Domain Behaviors in Mn doped ZnO Film. <i>Journal of Magnetism</i> , 2011 , 16, 216-219	1.9	2
18	Interference and electro-optical effects in cubic GaN/GaAs heterostructures prepared by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2020 , 128, 125706	2.5	2
17	CdSe films synthesized from chemical bath deposited Cd(O ₂) _{0.88} (OH) _{0.24} precursor films immersed in a Se ionic solution. <i>Materials Research Express</i> , 2019 , 6, 126406	1.7	2
16	Laser wavelength-dependent size of CdSe nanoparticles synthesized by Laser Fragmentation in Liquid Medium. <i>Optical Materials</i> , 2021 , 111, 110637	3.3	2
15	Graphene oxide decorated TiO ₂ and BiVO ₄ nanocatalysts for enhanced visible-light-driven photocatalytic bacterial inactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 418, 113374	4.7	2
14	Luminescence study of Si/SiC nano-particles embedded in SiO _x Cy matrix deposited using O-Cat-CVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 111, 179-184	3	1
13	Urea-based synthesis of magnetite nanoparticles and its composite with graphene oxide: structural and magnetic characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 7490-7498	2.1	1
12	Novel system (K ₂ TiF ₆ -N ₂ -Ti) to synthesize rod-like TiN nanopowders. <i>Particulate Science and Technology</i> , 2016 , 34, 324-331	2	1
11	Growth Mechanism and Properties of Self-Assembled InN Nanocolumns on Al Covered Si(111) Substrates by PA-MBE. <i>Materials</i> , 2019 , 12,	3.5	1
10	Blue to red emission from as-deposited nc-silicon/silicon dioxide by hot wire chemical vapor deposition. <i>Thin Solid Films</i> , 2015 , 595, 221-225	2.2	1
9	Intense white luminescence in ZnTe embedded porous silicon. <i>Applied Physics Letters</i> , 2012 , 100, 263110.	3.4	1

8	Crystallization of II-VI semiconductor compounds forming long microcrystalline linear assemblies. <i>Materials Research</i> , 2013 , 16, 497-503	1.5	1
7	Magnetic domains orientation in (Fe ₃ O ₄ /Fe ₂ O ₃) nanoparticles coated by Gadolinium-diethylenetriaminepentaacetic acid (Gd ³⁺ -DTPA). <i>Nano Express</i> , 2021 , 2, 020019	2	1
6	Cerebral dopamine neurotrophic factor transfection in dopamine neurons using neurotensin-polyplex nanoparticles reverses 6-hydroxydopamine-induced nigrostriatal neurodegeneration. <i>Neural Regeneration Research</i> , 2022 , 17, 854-866	4.5	1
5	Multifunctional Nanoparticles for Targeting Cancer Nanotheranostics. <i>Nanotechnology in the Life Sciences</i> , 2021 , 29-48	1.1	
4	Green synthesis of silver nanoparticles with phytosterols and betalain pigments as reducing agents present in cactus <i>Myrtillocactus geometrizans</i> .. <i>MRS Advances</i> , 2020 , 5, 3361-3369	0.7	
3	Oriented self-assembly of PbS nanocrystals into 0D+1D hatchstick structures. <i>Materials Letters</i> , 2016 , 183, 334-337	3.3	
2	Functional Addressable Magnetic Domains and Their Potential Applications in Theranostics 2021 , 164-180		
1	Vibrational Properties of Monodispersed CdS Nanoparticles Immersed in a Matrix Constituted of SnO ₂ Nanostructured Thin Films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2017 , 14, 1700221		