David Avellaneda

List of Publications by Year
in descending order

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48 papers	1,406 citations	361413 20 h-index	330143 37 g-index
48 all docs	48 docs citations	48 times ranked	1455 citing authors

#	Article	IF	Citations
1	Cu[sub 2]SnS[sub 3] and Cu[sub 4]SnS[sub 4] Thin Films via Chemical Deposition for Photovoltaic Application. Journal of the Electrochemical Society, 2010, 157, D346.	2.9	184
2	Structural and chemical transformations in SnS thin films used in chemically deposited photovoltaic cells. Thin Solid Films, 2007, 515, 5771-5776.	1.8	162
3	Polymorphic Tin Sulfide Thin Films of Zinc Blende and Orthorhombic Structures by Chemical Deposition. Journal of the Electrochemical Society, 2008, 155, D517.	2.9	134
4	Photovoltaic structures using chemically deposited tin sulfide thin films. Thin Solid Films, 2009, 517, 2500-2502.	1.8	90
5	CuSbS2 thin films by rapid thermal processing of Sb2S3-Cu stack layers for photovoltaic application. Solar Energy Materials and Solar Cells, 2017, 164, 19-27.	6.2	77
6	Thin films of copper antimony sulfide: A photovoltaic absorber material. Materials Research Bulletin, 2015, 61, 215-225.	5.2	60
7	Copper antimony sulfide thin films for visible to near infrared photodetector applications. RSC Advances, 2018, 8, 31055-31065.	3.6	45
8	Structure and morphologies of ZnO nanoparticles synthesized by pulsed laser ablation in liquid: Effects of temperature and energy fluence. Materials Chemistry and Physics, 2015, 162, 561-570.	4.0	41
9	Effects of ablation energy and post-irradiation on the structure and properties of titanium dioxide nanomaterials. Applied Surface Science, 2017, 405, 183-194.	6.1	37
10	Synthesis and Properties of Platinum Nanoparticles by Pulsed Laser Ablation in Liquid. Journal of Nanomaterials, 2016, 2016, 1-11.	2.7	33
11	Spray pyrolysed thin films of copper antimony sulfide as photovoltaic absorber. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 24-29.	0.8	33
12	CdS thin films prepared by laser assisted chemical bath deposition. Applied Surface Science, 2015, 336, 329-334.	6.1	32
13	Facile and fast synthesis of SnS2 nanoparticles by pulsed laser ablation in liquid. Applied Surface Science, 2018, 435, 1285-1295.	6.1	31
14	Solar cell using spray casted Cs2SnI6 perovskite thin films on chemical bath deposited CdS yielding high open circuit voltage. Solar Energy, 2020, 207, 486-495.	6.1	31
15	CuSbS2 thin films by heating Sb2S3/Cu layers for PV applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 4356-4362.	2.2	30
16	SnS2 nanoparticles by liquid phase laser ablation: Effects of laser fluence, temperature and post irradiation on morphology and hydrogen evolution reaction. Applied Surface Science, 2019, 470, 276-288.	6.1	28
17	Thin films of tin sulfides: structure, composition and optoelectronic properties. Materials Research Express, 2019, 6, 016409.	1.6	25
18	Characterization of CuInS 2 thin films prepared by chemical bath deposition and their implementation in a solar cell. Thin Solid Films, 2014, 569, 76-80.	1.8	22

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19	Tin sulfide nanoparticles by pulsed laser ablation in liquid. Journal of Materials Science: Materials in Electronics, 2016, 27, 6859-6871.	2.2	21
20	Effects of Liquid Medium and Ablation Wavelength on the Properties of Cadmium Sulfide Nanoparticles Formed by Pulsedâ€Laser Ablation. ChemPhysChem, 2017, 18, 1035-1046.	2.1	21
21	Nanoparticles of antimony sulfide by pulsed laser ablation in liquid media. Journal of Materials Science, 2013, 48, 6445-6453.	3.7	20
22	On the structure and physical properties of methyl ammonium lead iodide perovskite thin films by the two-step deposition method. Materials Chemistry and Physics, 2018, 215, 137-147.	4.0	20
23	Modification of optical and electrical properties of chemical bath deposited CdS using plasma treatments. Thin Solid Films, 2011, 519, 7587-7591.	1.8	17
24	Heat treatments in chemically deposited SnS thin films and their influence in CdS/SnS photovoltaic structures. Journal of Materials Science: Materials in Electronics, 2015, 26, 5585-5592.	2.2	16
25	AgSb(SxSe1â^'x)2 thin films for solar cell applications. Materials Research Bulletin, 2013, 48, 1939-1945.	5.2	15
26	Photovoltaic structures using AgSb(S x Se1â^'x)2 thin films as absorber. Applied Physics A: Materials Science and Processing, 2014, 116, 2095-2105.	2.3	15
27	Modifications in SnS thin films by plasma treatments. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 351-356.	1.4	14
28	Modification of optical and electrical properties of chemical bath deposited SnS using O2 plasma treatments. Applied Surface Science, 2013, 275, 273-277.	6.1	12
29	In situ incorporation of laser ablated PbS nanoparticles in CH3NH3PbI3 films by spin-dip coating and the subsequent effects on the planar junction CdS/CH3NH3PbI3 solar cells. Applied Surface Science, 2020, 508, 144899.	6.1	12
30	Synthesis of Cu2SnS3, Cu3SnS4, and Cu4SnS4 thin films by sulfurization of SnS-Cu layers at a selected temperature and /or Cu layers thickness. Journal of Solid State Chemistry, 2022, 306, 122711.	2.9	12
31	CuInGaSe 2 nanoparticles by pulsed laser ablation in liquid medium. Materials Research Bulletin, 2015, 72, 106-115.	5.2	11
32	In situ crystallization of 0D perovskite derivative Cs3Bi2I9 thin films via ultrasonic spray. Journal of Alloys and Compounds, 2022, 893, 162294.	5.5	11
33	In6Se7 thin films by heating thermally evaporated indium and chemical bath deposited selenium multilayers. Applied Surface Science, 2012, 258, 5753-5758.	6.1	10
34	Modification of structure, morphology and physical properties of tin sulfide thin films by pulsed laser irradiation. Applied Physics A: Materials Science and Processing, 2013, 110, 667-672.	2.3	9
35	Single step deposition of Cs2SnIxCl6-x thin films with uniform morphology, composition and high air stability. Materials Science in Semiconductor Processing, 2020, 115, 105115.	4.0	9
36	AgSbS2-xSex thin films: Structure, composition, morphology and photodetection properties. Materials Today Communications, 2021, 27, 102362.	1.9	8

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37	Effect of copper precursor layer thickness on the properties of preferentially oriented Cu4SnS4 thin films for photovoltaic applications. Optical Materials, 2021, 120, 111423.	3.6	8
38	Development of lead-free Cu2BiI5 rudorffite thin films for visible light photodetector application. Applied Surface Science, 2021, 564, 150438.	6.1	8
39	Nanostructured SnS₂ Thin Films from Laser Ablated Nanocolloids: Structure, Morphology, Optoelectronic and Electrochemical Properties. ChemPhysChem, 2018, 19, 2902-2914.	2.1	7
40	CH3NH3PbI3/CdS planar photovoltaic junction by spin-dip coating: Studies on the effects of PbI2 layer thickness and rapid thermal treatments. Solar Energy, 2019, 187, 427-437.	6.1	7
41	Monoclinic AgSbS2 thin films for photovoltaic applications: Computation, growth and characterization approaches. Materials Science in Semiconductor Processing, 2021, 135, 106074.	4.0	7
42	Chemically and Electrochemically Deposited Thin Films of Tin Sulfide for Photovoltaic Structures. Materials Research Society Symposia Proceedings, 2009, 1165, 1.	0.1	5
43	Effect of wavelengths on the structure, morphology and optoelectronic properties of cadmium sulfide thin films by laser assisted chemical bath deposition. Materials Today: Proceedings, 2020, 33, 1434-1443.	1.8	4
44	INDIUM SELENIDE THIN FILMS BY LASER IRRADIATION OF In/Se LAYERED STRUCTURE. Surface Review and Letters, 2013, 20, 1350058.	1.1	3
45	A simple synthesis of ZnO:Co2O3 nanocomposites by pulsed laser irradiation in liquid. Materials Today: Proceedings, 2020, 33, 1444-1452.	1.8	3
46	Surface modification of sintered magnesium oxide (MgO) with chromium oxide (Cr2O3) by pulsed laser irradiation in air and liquids. Ceramics International, 2021, 47, 21625-21625.	4.8	3
47	Photodetection and photocatalytic properties of Ag2BiI5 thin films formed by iodization of Ag-BiI3 layers. Surfaces and Interfaces, 2022, 30, 101985.	3.0	3
48	Copper Indium Diselenide thin films using a hybrid method of chemical bath deposition and thermal evaporation. Materials Research Society Symposia Proceedings, 2011, 1324, 121.	0.1	0