

Shrikrishna Sartale

List of Publications by Year in descending order

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85
papers

2,012
citations

186209

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86
all docs

86
docs citations

86
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of nanocrystalline ZnS by a new chemical bath deposition route. <i>Thin Solid Films</i> , 2005, 480-481, 168-172.	0.8	101
2	Preparation and characterization of nickel sulphide thin films using successive ionic layer adsorption and reaction (SILAR) method. <i>Materials Chemistry and Physics</i> , 2001, 72, 101-104.	2.0	95
3	Growth of copper sulphide thin films by successive ionic layer adsorption and reaction (SILAR) method. <i>Materials Chemistry and Physics</i> , 2000, 65, 63-67.	2.0	92
4	Growth and characterization of nanocrystalline CdSe thin films deposited by the successive ionic layer adsorption and reaction method. <i>Semiconductor Science and Technology</i> , 2004, 19, 980-986.	1.0	91
5	Zinc oxide superstructures: Recent synthesis approaches and application for hydrogen production via photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2091-2127.	3.8	82
6	Photocatalytic degradation of methylene blue by hydrothermally synthesized CZTS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8186-8191.	1.1	70
7	Polyaniline@RuO ₂ composite for high performance supercapacitors: chemical synthesis and properties. <i>RSC Advances</i> , 2015, 5, 28687-28695.	1.7	60
8	Patterning Co nanoclusters on thin-film Al ₂ O ₃ /NiAl(100). <i>Nanotechnology</i> , 2006, 17, 360-366.	1.3	56
9	In ₂ S ₃ nanoparticles dispersed on g-C ₃ N ₄ nanosheets: role of heterojunctions in photoinduced charge transfer and photoelectrochemical and photocatalytic performance. <i>Journal of Materials Science</i> , 2017, 52, 7077-7090.	1.7	51
10	A novel method for the deposition of nanocrystalline Bi ₂ Se ₃ , Sb ₂ Se ₃ and Bi ₂ Se ₃ @Sb ₂ Se ₃ thin films by SILAR. <i>Applied Surface Science</i> , 2001, 182, 413-417.	3.1	49
11	Facile Soft Solution Route To Engineer Hierarchical Morphologies of ZnO Nanostructures. <i>Crystal Growth and Design</i> , 2015, 15, 4813-4820.	1.4	46
12	Chemical and electrochemical synthesis of nanosized TiO ₂ anatase for large-area photon conversion. <i>Comptes Rendus Chimie</i> , 2006, 9, 702-707.	0.2	44
13	Electrochemical synthesis of nanocrystalline CoFe ₂ O ₄ thin films and their characterization. <i>Ceramics International</i> , 2002, 28, 467-477.	2.3	43
14	Room temperature synthesis of compact TiO ₂ thin films for 3-D solar cells by chemical arrested route. <i>Applied Surface Science</i> , 2005, 246, 271-278.	3.1	41
15	Inexpensive synthesis route of porous polyaniline@ruthenium oxide composite for supercapacitor application. <i>Chemical Engineering Journal</i> , 2014, 257, 82-89.	6.6	41
16	Chemical synthesis of Cd-free wide band gap materials for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2004, 83, 447-458.	3.0	40
17	Recent developments in nickel based electrocatalysts for ethanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5928-5947.	3.8	40
18	Seed-layer-free deposition of well-oriented ZnO nanorods thin films by SILAR and their photoelectrochemical studies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5783-5792.	3.8	40

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19	Architecture of 3D ZnCo ₂ O ₄ marigold flowers: Influence of annealing on cold emission and photocatalytic behavior. <i>Materials Chemistry and Physics</i> , 2017, 194, 55-64.	2.0	39
20	Magnetic interactions and electrical properties of Tb ³⁺ substituted NiCuZn ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 99-108.	1.0	39
21	Structures of Co and Pt nanoclusters on a thin film of Al ₂ O ₃ /NiAl(100) from reflection high-energy electron diffraction and scanning-tunnelling microscopy. <i>Surface Science</i> , 2007, 601, 2139-2146.	0.8	33
22	Electrochemical synthesis of nanocrystalline CuFe ₂ O ₄ thin films from non-aqueous (ethylene glycol) medium. <i>Materials Chemistry and Physics</i> , 2003, 80, 120-128.	2.0	32
23	Photocatalytic performance of Pd decorated TiO ₂ @CdO composite: Role of in situ formed CdS in the photocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13431-13442.	3.8	32
24	Î±-Fe ₂ O ₃ thin film on stainless steel mesh: A flexible electrode for supercapacitor. <i>Materials Chemistry and Physics</i> , 2019, 225, 284-291.	2.0	31
25	Deposition and annealing effect on lanthanum sulfide thin films by spray pyrolysis. <i>Thin Solid Films</i> , 2003, 445, 1-6.	0.8	29
26	Room temperature chemical synthesis of lead selenide thin films with preferred orientation. <i>Applied Surface Science</i> , 2006, 253, 930-936.	3.1	29
27	Î±-Fe ₂ O ₃ thin films by liquid phase deposition: low-cost option for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2555-2566.	1.2	29
28	Growth and electronic properties of Au nanoclusters on thin-film Al ₂ O ₃ /NiAl(100) studied by scanning tunnelling microscopy and photoelectron spectroscopy with synchrotron radiation. <i>Surface Science</i> , 2008, 602, 241-248.	0.8	28
29	Electrochemical deposition and characterization of CoFe ₂ O ₄ thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 85-94.	0.8	26
30	Novel electrochemical process for the deposition of nanocrystalline NiFe ₂ O ₄ thin films. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 773-784.	0.7	23
31	An efficient fabrication of ZnO@carbon nanocomposites with enhanced photocatalytic activity and superior photostability. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1133-1147.	1.1	23
32	Scanning tunneling microscopy study of growth of Pt nanoclusters on thin film Al ₂ O ₃ /NiAl(100). <i>Surface Science</i> , 2006, 600, 4978-4985.	0.8	22
33	Studies on large area (âˆ¼450 cm ²) MoS ₂ thin films deposited using successive ionic layer adsorption and reaction (SILAR) method. <i>Materials Chemistry and Physics</i> , 2001, 71, 94-97.	2.0	21
34	Preparation and characterization of As ₂ S ₃ thin films deposited using successive ionic layer adsorption and reaction (SILAR) method. <i>Materials Research Bulletin</i> , 2000, 35, 1345-1353.	2.7	20
35	Adsorption and Decomposition of Methanol on Gold Nanoclusters Supported on a Thin Film of Al ₂ O ₃ /NiAl(100). <i>Journal of Physical Chemistry C</i> , 2008, 112, 2066-2073.	1.5	20
36	Assessment of ecologically prepared carbon-nano-spheres for fabrication of flexible and durable supercell devices. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7246-7256.	5.2	20

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37	Influence of Ti film thickness and oxidation temperature on TiO ₂ thin film formation via thermal oxidation of sputtered Ti film. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 2005-2012.	1.9	19
38	Room temperature synthesis of nanocrystalline ferrite (MFe ₂ O ₄ , M = Cu, Co and Ni) thin films using novel electrochemical route. <i>Applied Surface Science</i> , 2001, 182, 366-371.	3.1	18
39	Growth of Co clusters on thin films Al ₂ O ₃ ~NiAl(100). <i>Journal of Chemical Physics</i> , 2006, 124, 164709.	1.2	18
40	Controlled growth of thermally stable uniform-sized Ag nanoparticles on flat support and their electrochemical activity. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 503-516.	1.1	18
41	Dodecyl benzene sulfonic acid (DBSA) doped polypyrrole (PPy) films: synthesis, structural, morphological, gas sensing and impedance study. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8497-8506.	1.1	18
42	Effect of processing parameters on size, density and oxygen reduction reaction (ORR) activity of Pd nanoparticles grown by spin coating. <i>Surface and Coatings Technology</i> , 2015, 281, 68-75.	2.2	18
43	SILAR deposited porous polyaniline-titanium oxide composite thin film for supercapacitor application. <i>Materials Today Communications</i> , 2016, 8, 205-213.	0.9	18
44	Nickel nanoparticles grown by successive ionic layer adsorption and reaction method for ethanol electrooxidation and electrochemical quartz crystal microbalance study. <i>New Journal of Chemistry</i> , 2019, 43, 2955-2965.	1.4	18
45	Electrochemical deposition and oxidation of CuFe ₂ alloy: a new method to deposit CuFe ₂ O ₄ thin films at room temperature. <i>Materials Chemistry and Physics</i> , 2001, 70, 274-284.	2.0	17
46	Pd~TiO ₂ ~SrIn ₂ O ₄ heterojunction photocatalyst: enhanced photocatalytic activity for hydrogen generation and degradation of methylene blue. <i>RSC Advances</i> , 2014, 4, 55539-55547.	1.7	16
47	SILAR Grown K ⁺ and Na ⁺ Ions Preinserted MnO ₂ Nanostructures for Supercapacitor Applications: A Comparative Study. <i>Energy & Fuels</i> , 2021, 35, 4577-4586.	2.5	16
48	Mesoporous Nanohybrids of 2D Ni~Cr~Layered Double Hydroxide Nanosheets Pillared with Polyoxovanadate Anions for High-Performance Hybrid Supercapacitor. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101216.	1.9	16
49	Magnetic, Electric and Optical Properties of Mg-Substituted Ni-Cu-Zn Ferrites. <i>Journal of Electronic Materials</i> , 2017, 46, 5693-5704.	1.0	14
50	Room temperature chemical bath deposition of cadmium selenide, cadmium sulfide and cadmium sulfoselenide thin films with novel nanostructures. <i>Solid State Sciences</i> , 2015, 48, 186-192.	1.5	13
51	SILAR grown Ag nanoparticles as an efficient large area SERS substrate. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1274-1287.	1.2	13
52	A Room Temperature Two-Step Electrochemical Process for Large Area Nanocrystalline Ferrite Thin Films Deposition. <i>Journal of Electroceramics</i> , 2005, 15, 35-44.	0.8	12
53	Superior supercapacitive performance of grass-like CuO thin films deposited by liquid phase deposition. <i>New Journal of Chemistry</i> , 2020, 44, 6778-6790.	1.4	12
54	Green Strategy for the Synthesis of K ⁺ Pre-inserted MnO ₂ /rGO and Its Electrochemical Conversion to Na-MnO ₂ /rGO for High-Performance Supercapacitors. <i>Energy & Fuels</i> , 2022, 36, 4596-4608.	2.5	12

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55	Spray pyrolytic deposition and characterization of lanthanum selenide (La ₂ Se ₃) thin films. Applied Surface Science, 2003, 214, 27-35.	3.1	11
56	An investigation of chemical and electrochemical conversion of SILAR grown Mn ₃ O ₄ into MnO ₂ thin films. Journal of Environmental Management, 2021, 299, 113564.	3.8	11
57	Spray deposition of lanthanum selenide (La ₂ Se ₃) thin films from non-aqueous medium and their characterizations. Materials Chemistry and Physics, 2003, 80, 714-718.	2.0	10
58	Growth of Ag Nanoparticles by Spin Coating. Journal of Nano Research, 0, 24, 163-167.	0.8	10
59	The Calculation of Electronic Parameters of Al/TiO ₂ /Si MOS Structure Formed Using TiO ₂ Thin Films Grown by Thermal Oxidation of Sputtered Ti Films. Advanced Science Letters, 2016, 22, 1013-1016.	0.2	10
60	Narrow size distributed Ag nanoparticles grown by spin coating and thermal reduction: effect of processing parameters. Materials Research Express, 2016, 3, 085023.	0.8	9
61	Spray pyrolysis deposition of lanthanum telluride thin films and their characterizations. Materials Chemistry and Physics, 2005, 89, 402-405.	2.0	8
62	Engineering patterns of Co nanoclusters on thin film Al ₂ O ₃ ·NiAl(100) using scanning tunneling microscopy manipulation techniques. Applied Physics Letters, 2006, 89, 063118.	1.5	8
63	Photoelectrochemical performance of MWCNT@Ag@ZnO ternary hybrid: a study of Ag loading and MWCNT garnishing. Journal of Materials Science, 2021, 56, 8627-8642.	1.7	8
64	Spin-Coated Ag NPs SERS Substrate: Role of Electromagnetic and Chemical Enhancement in Trace Detection of Methylene Blue and Congo Red. Plasmonics, 2022, 17, 1889-1900.	1.8	8
65	Dehydrogenation of Cyclohexene on Platinum Nanoclusters on a Thin Film of Al ₂ O ₃ /NiAl(100). Catalysis Letters, 2007, 119, 95-100.	1.4	7
66	Substrate assisted electrochemical deposition of patterned cobalt thin films. Electrochemistry Communications, 2009, 11, 1711-1713.	2.3	7
67	Cadmium sulfide coated zinc oxide photoelectrode: Preparation and characterization. Optik, 2018, 161, 166-171.	1.4	7
68	Investigating functional groups in GO and r-GO through spectroscopic tools and effect on optical properties. Optik, 2018, 175, 312-318.	1.4	7
69	Zinc Oxide Thin Films: Nanoflakes to Spongy Balls via Seed Layer. Advanced Science Letters, 2016, 22, 880-883.	0.2	5
70	ZnS nanoflakes deposition by modified chemical method. , 2014, , .		4
71	Deposition and Characterization Of Nanocrystalline Silver Thin Films By Using SILAR Method. AIP Conference Proceedings, 2011, , .	0.3	3
72	ZnO nanocactus loaded with gold nanoparticles for dye sensitized solar cells. , 2014, , .		3

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73	Nanomaterials for Energy Production and Storage. Journal of Nanotechnology, 2012, 2012, 1-2.	1.5	2
74	Plasmonic Metal Nanoparticles Decorated ZnO Nanostructures for Photoelectrochemical (PEC) Applications. , 2021, , 293-328.		2
75	Fabrication and evaluation of symmetric flexible solid state supercapacitor device based on Fe_2O_3 thin films by LPD. AIP Conference Proceedings, 2021, , .	0.3	2
76	Role of oxidation states of iron on the super-capacitive behaviour of iron oxide films. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	2
77	Investigation of Cu-Al surface alloy formation on Cu substrate. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 353-358.	0.6	1
78	Spin coating of Ag nanoparticles: Effect of reduction. , 2014, , .		1
79	Polythiophene-carbon nanotubes composites as energy storage materials for supercapacitor application. AIP Conference Proceedings, 2016, , .	0.3	1
80	Liquid Phase Deposition of Nanostructured Materials for Supercapacitor Applications. , 2021, , 725-763.		1
81	Chemical Synthesis of Nanocrystalline Ceria. , 2011, , .		0
82	Effect of ultrasonication on properties of sequential layer deposited nanocrystalline silver thin films. , 2012, , .		0
83	Effect of oxidizing agents in CeO_2 thin film formation.. , 2012, , .		0
84	Modified chemical route for deposition of molybdenum disulphide thin films. , 2014, , .		0
85	Synthesis of Zinc Ferrite Nanoparticles by Mechanochemical Method. Advanced Science Letters, 2016, 22, 839-842.	0.2	0