Chandrakant D Lokhande

List of Publications by Year
in descending order

121	5,802	71102	82547
papers	citations	41 h-index	72 g-index

122	122	122	6108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel electrodes for supercapacitor: Conducting polymers, metal oxides, chalcogenides, carbides, nitrides, MXenes, and their composites with graphene. Journal of Alloys and Compounds, 2022, 893, 161998.	5.5	129
2	Mesoporous Nanohybrids of 2D Niâ€Crâ€Layered Double Hydroxide Nanosheets Pillared with Polyoxovanadate Anions for Highâ€Performance Hybrid Supercapacitor. Advanced Materials Interfaces, 2022, 9, 2101216.	3.7	16
3	Amorphous nickel tungstate films prepared by SILAR method for electrocatalytic oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 609, 734-745.	9.4	17
4	Sulfur-Doped Graphene as a Rational Anode for an Ionic Liquid Based Hybrid Capacitor with a 3.5 V Working Window. Energy & Fuels, 2022, 36, 2799-2810.	5.1	8
5	Rational La-doped hematite as an anode and hydrous cobalt phosphate as a battery-type electrode for a hybrid supercapacitor. Dalton Transactions, 2022, 51, 6378-6389.	3.3	6
6	Layer-by-layer nanohybrids of Ni-Cr-LDH intercalated with 0D polyoxotungstate for highly efficient hybrid supercapacitor. Journal of Colloid and Interface Science, 2022, 616, 548-559.	9.4	30
7	Studies on modulated physical and photoelectrochemical properties of CdSe thin films by means of Indium doping. Journal of Materials Science: Materials in Electronics, 2022, 33, 13782-13791.	2.2	5
8	Binderâ€Free Synthesis of Mesoporous Nickel Tungstate for Aqueous Asymmetric Supercapacitor Applications: Effect of Film Thickness. Energy Technology, 2022, 10, .	3.8	10
9	Amorphous cobalt-manganese sulfide electrode for efficient water oxidation: Meeting the fundamental requirements of an electrocatalyst. Chemical Engineering Journal, 2021, 405, 126993.	12.7	31
10	MnS2/carbon nanotube electrode for improved supercapacitor performance. Solid State Sciences, 2021, 111, 106449.	3.2	15
11	Vertically Aligned Nanosheets of an Electrodeposited Lanthanum Oxide Electrode for Non-Enzymatic Glucose Sensing Application. Journal of Electronic Materials, 2021, 50, 675-685.	2.2	12
12	Reliable glucose sensing properties of electrodeposited vertically aligned manganese oxide thin film electrode. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	9
13	SILAR synthesized nanostructured ytterbium sulfide thin film electrodes for symmetric supercapacitors. Journal of Solid State Electrochemistry, 2021, 25, 1753-1764.	2.5	9
14	Fabrication of a High-Performance Hybrid Supercapacitor Based on Hydrothermally Synthesized Highly Stable Cobalt Manganese Phosphate Thin Films. Langmuir, 2021, 37, 5260-5274.	3.5	48
15	The implementation of graphene-based aerogel in the field of supercapacitor. Nanotechnology, 2021, 32, 362001.	2.6	30
16	Strategically Tuned Ultrathin Nickel Phosphate Nanosheet Thin-Film Electrode as Cathode for High-Power Hybrid Supercapacitor Device. Energy & Fuels, 2021, 35, 14110-14121.	5.1	13
17	Recent Advancements in Energy Storage Based on Sodium Ion and Zinc Ion Hybrid Supercapacitors. Energy & Fuels, 2021, 35, 14241-14264.	5.1	17
18	Metal Oxide-Based Composites in Nonenzymatic Electrochemical Glucose Sensors. Industrial & Engineering Chemistry Research, 2021, 60, 18195-18217.	3.7	30

#	Article	IF	Citations
19	Chemically Synthesized Cu₃Se₂ Film Based Flexible Solid-State Symmetric Supercapacitor: Effect of Reaction Bath Temperature. Journal of Physical Chemistry C, 2020, 124, 28395-28406.	3.1	35
20	Chemically deposited Co3S4 thin film: morphology dependant electrocatalytic oxygen evolution reaction. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	9
21	Electrochemical behavior of hydrothermally synthesized porous groundnuts-like samarium oxide thin films. SN Applied Sciences, 2020, 2, 1.	2.9	13
22	Influence of deposition temperature on the structural, morphological, optical and photoelectrochemical properties of CBD deposited Cu2SnS3 thin films. Journal of Alloys and Compounds, 2020, 831, 154768.	5.5	22
23	Chemical synthesis of nano-grained ytterbium sulfide thin films for supercapacitor application. Applied Nanoscience (Switzerland), 2020, 10, 5085-5097.	3.1	15
24	Facile synthesis of layered reduced graphene oxideâ€“copper sulfide (rGO-CuS) hybrid electrode for all solid-state symmetric supercapacitor. Journal of Solid State Electrochemistry, 2020, 24, 2963-2974.	2.5	31
25	Enhanced energy density of flexible asymmetric solid state supercapacitor device fabricated with amorphous thin film electrode materials. Journal of Physics and Chemistry of Solids, 2020, 141, 109425.	4.0	33
26	Facile synthesis of self-assembled WO3 nanorods for high-performance electrochemical capacitor. Journal of Alloys and Compounds, 2019, 770, 1130-1137.	5.5	61
27	The electrochemical performance of electrodeposited chitosan bio-nanopolymer in non-aqueous electrolyte: a new anodic material for supercapacitor. SN Applied Sciences, 2019, 1, 1.	2.9	11
28	Synthesis of hydrous cobalt phosphate electro-catalysts by a facile hydrothermal method for enhanced oxygen evolution reaction: effect of urea variation. CrystEngComm, 2019, 21, 884-893.	2.6	37
29	New design of all-solid state asymmetric flexible supercapacitor with high energy storage and long term cycling stability using m-CuO/FSS and h-CuS/FSS electrodes. Electrochimica Acta, 2019, 307, 30-42.	5.2	31
30	Lanthanum sulfide/graphene oxide composite thin films and their supercapacitor application. SN Applied Sciences, 2019, 1, 1.	2.9	16
31	Electrochemical properties of chemically synthesized SnO2-RuO2 mixed films. Materials for Renewable and Sustainable Energy, 2019, 8, 1.	3.6	35
32	Hydrothermal synthesis of nanostructured Î²-LaS2 thin films. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	12
33	Flexible Asymmetric Solid-State Supercapacitors by Highly Efficient 3D Nanostructured Î±-MnO₂ and h-CuS Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 16636-16649.	8.0	74
34	Synthesis and characterization of polypyrrole thin film by MW-CBD method for NH3 gas sensor. Polymer Bulletin, 2018, 75, 4547-4553.	3.3	18
35	Single-step hydrothermal synthesis of WO3-MnO2 composite as an active material for all-solid-state flexible asymmetric supercapacitor. International Journal of Hydrogen Energy, 2018, 43, 2869-2880.	7.1	60
36	Controlled synthesis of hierarchical nanoflake structure of NiO thin film for supercapacitor application. Journal of Alloys and Compounds, 2018, 741, 549-556.	5.5	63

#	Article	IF	Citations
37	Chemically synthesized 3D nanostructured polypyrrole electrode for high performance supercapacitor applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 15699-15707.	2.2	17
38	Modification in supercapacitive behavior of CoO-rGO composite thin film from exposure to ferri/ferrocyanide redox active couple. Journal of Colloid and Interface Science, 2018, 522, 111-119.	9.4	13
39	High Performance All-Solid-State Asymmetric Supercapacitor Device Based on 3D Nanospheres of Î²-MnO₂ and Nanoflowers of O-SnS. ACS Sustainable Chemistry and Engineering, 2018, 6, 787-802.	6.7	53
40	Facile synthesis and photo electrochemical performance of SnSe thin films. AIP Conference Proceedings, 2018, , .	0.4	2
41	Hydrothermally synthesized monoclinic Yb2S3 thin films for supercapacitive application. Journal of Materials Science: Materials in Electronics, 2018, 29, 14116-14121.	2.2	10
42	Cobalt sulfide thin films for electrocatalytic oxygen evolution reaction and supercapacitor applications. Journal of Colloid and Interface Science, 2018, 532, 491-499.	9.4	60
43	Facile synthesis of hierarchical mesoporous weirds-like morphological MnO2 thin films on carbon cloth for high performance supercapacitor application. Journal of Colloid and Interface Science, 2017, 498, 202-209.	9.4	58
44	CO2 gas sensing properties of La2O3 thin films deposited at various substrate temperatures. Journal of Materials Science: Materials in Electronics, 2017, 28, 13112-13119.	2.2	9
45	Facile synthesis of Cu2SnS3 thin films grown by SILAR method: effect of film thickness. Journal of Materials Science: Materials in Electronics, 2017, 28, 7912-7921.	2.2	29
46	Temperature dependent surface morphological modifications of hexagonal WO3 thin films for high performance supercapacitor application. Electrochimica Acta, 2017, 224, 397-404.	5.2	102
47	Photoelectrochemical (PEC) studies on Cu2SnS3 (CTS) thin films deposited by chemical bath deposition method. Journal of Colloid and Interface Science, 2017, 506, 144-153.	9.4	48
48	Amperometric CO2 gas sensor based on interconnected web-like nanoparticles of La2O3 synthesized by ultrasonic spray pyrolysis. Mikrochimica Acta, 2017, 184, 3713-3720.	5.0	33
49	Chemical synthesis and supercapacitive properties of lanthanum telluride thin film. Journal of Colloid and Interface Science, 2017, 490, 147-153.	9.4	34
50	Chemically deposited nano grain composed MoS2 thin films for supercapacitor application. Journal of Colloid and Interface Science, 2017, 496, 1-7.	9.4	79
51	Synthesis and studies on effect of indium doping on physical properties of electrodeposited CdSe thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 3140-3150.	2.2	16
52	Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. Journal of Colloid and Interface Science, 2016, 480, 109-117.	9.4	33
53	Ultrathin nickel sulfide nano-flames as an electrode for high performance supercapacitor; comparison of symmetric FSS-SCs and electrochemical SCs device. RSC Advances, 2016, 6, 68388-68401.	3.6	37
54	Polyaniline/Cu2ZnSnS4 heterojunction based room temperature LPG sensor. Journal of Materials Science: Materials in Electronics, 2016, 27, 7505-7508.	2.2	24

#	Article	IF	Citations
55	Bath temperature controlled phase stability of hierarchical nanoflakes CoS2 thin films for supercapacitor application. RSC Advances, 2016, 6, 40593-40601.	3.6	62
56	The synthesis of multifunctional porous honey comb-like La 2 O 3 thin film for supercapacitor and gas sensor applications. Journal of Colloid and Interface Science, 2016, 484, 51-59.	9.4	61
57	Enhanced electrochemical performance of monoclinic WO 3 thin film with redox additive aqueous electrolyte. Journal of Colloid and Interface Science, 2016, 483, 261-267.	9.4	48
58	Fabrication of high performance flexible all-solid-state asymmetric supercapacitors with a three dimensional disc-like WO₃/stainless steel electrode. RSC Advances, 2016, 6, 113442-113451.	3.6	26
59	Highly sensitive CO₂ sensor based on microrods-like La₂O₃ thin film electrode. RSC Advances, 2016, 6, 106074-106080.	3.6	32
60	Highly energetic flexible all-solid-state asymmetric supercapacitor with Fe₂O₃and CuO thin films. RSC Advances, 2016, 6, 58839-58843.	3.6	31
61	Chemical synthesis of 3D copper sulfide with different morphologies for high performance supercapacitors application. RSC Advances, 2016, 6, 14844-14851.	3.6	79
62	Supercapacitive properties of nanoporous oxide layer formed on 304 type stainless steel. Journal of Colloid and Interface Science, 2016, 473, 22-27.	9.4	35
63	Photo-electrochemical studies of chemically deposited nanocrystalline meso-porous n-type TiO2 thin films for dye-sensitized solar cell (DSSC) using simple synthesized azo dye. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	13
64	Electrochemical behavior of chemically synthesized selenium thin film. Journal of Colloid and Interface Science, 2016, 469, 257-262.	9.4	14
65	Chemically prepared La2Se3 nanocubes thin film for supercapacitor application. Journal of Colloid and Interface Science, 2016, 469, 318-324.	9.4	38
66	Hexagonal microrods architectured MoO3 thin film for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2016, 27, 3312-3317.	2.2	54
67	Effect of Different Modes of Electrodeposition on Photoelectrochemical Cell Performance of Nanocrystalline Zinc Selenide Thin Films. Advanced Science Letters, 2016, 22, 759-765.	0.2	4
68	Nanoflakeâ€Modulated La₂Se₃ Thin Films Prepared for an Asymmetric Supercapacitor Device. ChemPlusChem, 2015, 80, 1478-1487.	2.8	34
69	Asymmetric Supercapacitors based on Hybrid CuO@Reduced Graphene Oxide@Sponge versus Reduced Graphene Oxide@Sponge Electrodes. Energy Technology, 2015, 3, 168-176.	3.8	57
70	Low-cost flexible supercapacitors with high-energy density based on nanostructured MnO2 and Fe2O3 thin films directly fabricated onto stainless steel. Scientific Reports, 2015, 5, 12454.	3.3	192
71	Bendable Allâ€Solidâ€State Asymmetric Supercapacitors based on MnO₂ and Fe₂O₃ Thin Films. Energy Technology, 2015, 3, 625-631.	3.8	59
72	Flexible all-solid-state MnO2 thin films based symmetric supercapacitors. Electrochimica Acta, 2015, 165, 338-347.	5.2	135

#	Article	IF	Citations
73	Polyanilineâ€“RuO₂composite for high performance supercapacitors: chemical synthesis and properties. RSC Advances, 2015, 5, 28687-28695.	3.6	60
74	Cadmium indium selenide semiconducting nanofibers by single step electrochemical route. Modern Physics Letters B, 2015, 29, 1540024.	1.9	1
75	Ionically conducting PVAâ€“LiClO 4 gel electrolyte for high performance flexible solid state supercapacitors. Journal of Colloid and Interface Science, 2015, 460, 370-376.	9.4	89
76	Chemical synthesis of PANIâ€“TiO₂ composite thin film for supercapacitor application. RSC Advances, 2015, 5, 68939-68946.	3.6	49
77	Influence of surfactant on the morphology and supercapacitive behavior of SILAR-deposited polyaniline thin films. Ionics, 2015, 21, 191-200.	2.4	13
78	Influence of electrodeposition modes on the supercapacitive performance of Co 3 O 4 electrodes. Energy, 2014, 64, 234-241.	8.8	99
79	A green synthesis method for large area silver thin film containing nanoparticles. Journal of Photochemistry and Photobiology B: Biology, 2014, 136, 19-25.	3.8	37
80	Supercapacitors Based on Flexible Substrates: An Overview. Energy Technology, 2014, 2, 325-341.	3.8	172
81	Alcohol mediated growth of Î±-MnO₂thin films from KMnO₄precursor for high performance supercapacitors. RSC Advances, 2014, 4, 61503-61513.	3.6	55
82	Electrochemical Characterization of Chemically Synthesized Polythiophene Thin Films: Performance of Asymmetric Supercapacitor Device. Electroanalysis, 2014, 26, 2023-2032.	2.9	46
83	Growth of polyaniline nanofibers for supercapacitor applications using successive ionic layer adsorption and reaction (SILAR) method. Journal of the Korean Physical Society, 2014, 65, 80-86.	0.7	7
84	Electrochemical performance of a portable asymmetric supercapacitor device based on cinnamon-like La₂Te₃prepared by a chemical synthesis route. RSC Advances, 2014, 4, 56332-56341.	3.6	70
85	Supercapacitive performance of chemically synthesized polypyrrole thin films: effect of monomer to oxidant ratio. Journal of Materials Science: Materials in Electronics, 2014, 25, 2188-2198.	2.2	9
86	Bath temperature impact on morphological evolution of Ni(OH)2 thin films and their supercapacitive behaviour. Bulletin of Materials Science, 2014, 37, 27-33.	1.7	19
87	Controlled Growth of CoS_x Nanostrip Arrays (CoS_xâ€NSA) on Nickel Foam for Asymmetric Supercapacitors. Energy Technology, 2014, 2, 401-408.	3.8	75
88	Novel chemical synthesis of polypyrrole thin film electrodes for supercapacitor application. European Polymer Journal, 2013, 49, 3734-3739.	5.4	50
89	Temperature influence on morphological progress of Ni(OH)2 thin films and its subsequent effect on electrochemical supercapacitive properties. Journal of Materials Chemistry A, 2013, 1, 4793.	10.3	185
90	Mild chemical strategy to grow micro-roses and micro-woolen like arranged CuO nanosheets for high performance supercapacitors. Journal of Power Sources, 2013, 242, 687-698.	7.8	200

#	Article	IF	Citations
91	Porous CuO nanosheet clusters prepared by a surfactant assisted hydrothermal method for high performance supercapacitors. RSC Advances, 2013, 3, 24099.	3.6	68
92	Enhanced activity of chemically synthesized hybrid graphene oxide/Mn3O4 composite for high performance supercapacitors. Electrochimica Acta, 2013, 92, 205-215.	5.2	226
93	Polyanilineâ€“polypyrrole nanograined composite via electrostatic adsorption for high performance electrochemical supercapacitors. Journal of Alloys and Compounds, 2013, 552, 240-247.	5.5	63
94	Supercapacitive activities of potentiodynamically deposited nanoflakes of cobalt oxide (Co3O4) thin film electrode. Journal of Colloid and Interface Science, 2013, 406, 225-230.	9.4	65
95	Supercapacitive performance of hydrous ruthenium oxide (RuO2 Â· nH2O) thin films synthesized by chemical route at low temperature. Bulletin of Materials Science, 2013, 36, 1171-1176.	1.7	32
96	Structural properties of single step electrochemically deposited ZnS nanofibers. , 2013, , .		0
97	Chemically deposited cubic structured CdO thin films: Room temperature. AIP Conference Proceedings, 2013, , .	0.4	6
98	SILAR deposited TiO[sub 2] thin film for supercapacitor application. AIP Conference Proceedings, 2013, , .	0.4	3
99	The enhanced supercapacitive performance of SnO[sub 2] combined with RuO[sub 2] by chemical synthesis. AIP Conference Proceedings, 2013, , .	0.4	1
100	The electrochemical performance of SnO[sub 2] film incorporated with RuO[sub 2]. , 2013, , .		0
101	Porous polypyrrole clusters prepared by electropolymerization for a high performance supercapacitor. Journal of Materials Chemistry, 2012, 22, 3044.	6.7	419
102	Big as well as light weight portable, Mn3O4 based symmetric supercapacitive devices: Fabrication, performance evaluation and demonstration. Electrochimica Acta, 2012, 80, 160-170.	5.2	69
103	Chemically deposited TiO2/CdS bilayer system for photoelectrochemical properties. Bulletin of Materials Science, 2012, 35, 1181-1186.	1.7	13
104	Supercapacitive performance of hydrous ruthenium oxide (RuO2Â·nH2O) thin films deposited by SILAR method. Journal of Materials Science, 2012, 47, 1546-1553.	3.7	31
105	Chemical synthesis and characterization of hydrous tin oxide (SnO 2 :H 2 O) thin films. Bulletin of Materials Science, 2011, 34, 1179-1183.	1.7	25
106	Synthesis and characterization of photosensitive TiO2 nanorods by controlled precipitation route. Journal of Materials Science, 2011, 46, 2288-2293.	3.7	35
107	Synthesis and characterizations of CdS nanorods by SILAR method: effect of film thickness. Journal of Materials Science, 2011, 46, 5009-5015.	3.7	24
108	Electrodeposited heterojunctions based on cadmium chalcogenide, CdX (XÂ=ÂS, Se, Te) and polyaniline. Journal of Materials Science, 2007, 42, 1304-1308.	3.7	17

#	Article	IF	Citations
109	Characterization of chemically deposited nanocrystalline PbS thin films. Journal of Materials Science, 2006, 41, 5723-5725.	3.7	34
110	Thickness dependent photoelectrochemical cells performance of CdSe and HgS thin films. Journal of Materials Science, 2005, 40, 2635-2637.	3.7	22
111	Impedance Spectroscopic Analysis of Bi1 - xNdxFeO3. Ferroelectrics, 2005, 327, 57-61.	0.6	1
112	Deposition of metal chalcogenide thin films by successive ionic layer adsorption and reaction (SILAR) method. Bulletin of Materials Science, 2004, 27, 85-111.	1.7	565
113	Photoelectrochemical Studies on Electrodeposited Cdâ€“Feâ€“Se Thin Films. Physica Status Solidi A, 1999, 172, 415-423.	1.7	17
114	Electrodeposition of Cdâ€Biâ€S and Cdâ€Znâ€S Films. Journal of the Electrochemical Society, 1991, 138, 624-626.	2.9	16
115	Electrodeposition of ZnS Films from an Alkaline Bath. Journal of the Electrochemical Society, 1989, 136, 2756-2758.	2.9	23
116	Electrodeposition of Thin Film Semiconductors. Physica Status Solidi A, 1989, 111, 17-40.	1.7	97
117	Studies on K-Sb-S films deposited at different substrate temperatures and their photoelectrochemical behaviour. Bulletin of Materials Science, 1988, 10, 341-347.	1.7	2
118	Studies on iron-chromium redox storage system. Bulletin of Materials Science, 1988, 10, 367-372.	1.7	7
119	Chemical Methods for the Deposition of Thin Films of Bi2â€‰Sâ€‰3. Journal of the Electrochemical Society, 1988, 135, 1852-1853.	2.9	32
120	Studies on Electrochemical Photovoltaic Cells Formed with Bi2CdS4 Film Electrodes. Journal of the Electrochemical Society, 1985, 132, 261-263.	2.9	6
121	Deposition of Bi2CdS4 films by the spray pyrolysis technique. Physica Status Solidi A, 1984, 82, K195-K198.	1.7	3