Devanesan Mangalaraj

List of Publications by Year
in descending order

288	9,840	31949 53	62565 80
papers	citations	h-index	g-index

294	294	294	11856
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlled Growth of WO3Nanostructures with Three Different Morphologies and Their Structural, Optical, and Photodecomposition Studies. Nanoscale Research Letters, 2009, 4, 1335-42.	3.1	219
2	Shape evolution of perovskite LaFeO3 nanostructures: a systematic investigation of growth mechanism, properties and morphology dependent photocatalytic activities. RSC Advances, 2013, 3, 7549.	1.7	206
3	Self assembled V2O5 nanorods for gas sensors. Current Applied Physics, 2010, 10, 531-537.	1.1	198
4	Fabrication of CeO₂/Fe₂O₃ composite nanospindles for enhanced visible light driven photocatalysts and supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 15248-15258.	5.2	189
5	Controlled synthesis of perovskite LaFeO3 microsphere composed of nanoparticles via self-assembly process and their associated photocatalytic activity. Chemical Engineering Journal, 2012, 209, 420-428.	6.6	172
6	Solvent-free mechanochemical synthesis of graphene oxide and Fe₃O₄â€“reduced graphene oxide nanocomposites for sensitive detection of nitrite. Journal of Materials Chemistry A, 2015, 3, 15529-15539.	5.2	163
7	Enzymatic electrochemical glucose biosensors by mesoporous 1D hydroxyapatite-on-2D reduced graphene oxide. Journal of Materials Chemistry B, 2015, 3, 1360-1370.	2.9	148
8	Properties of titanium nitride films prepared by direct current magnetron sputtering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 223-236.	2.6	147
9	Electrodeposition of WO 3 nanostructured thin films for electrochromic and H 2 S gas sensor applications. Journal of Alloys and Compounds, 2017, 719, 71-81.	2.8	145
10	Hydrothermal synthesis and electronic properties of FeWO4 and CoWO4 nanostructures. Journal of Alloys and Compounds, 2010, 493, 340-345.	2.8	137
11	Porous reduced graphene oxide (rGO)/WO₃ nanocomposites for the enhanced detection of NH₃ at room temperature. Nanoscale Advances, 2019, 1, 1799-1811.	2.2	136
12	High transmittance and low resistive ZnO:Al films for thin film solar cells. Thin Solid Films, 2005, 480-481, 213-217.	0.8	135
13	Conducting polyaniline-graphene oxide fibrous nanocomposites: preparation, characterization and simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid. RSC Advances, 2013, 3, 14428.	1.7	130
14	Structural and optical properties of hot wall deposited CdSe thin films. Solar Energy Materials and Solar Cells, 2003, 76, 347-358.	3.0	124
15	Tungsten oxide-graphene oxide (WO3-GO) nanocomposite as an efficient photocatalyst, antibacterial and anticancer agent. Journal of Physics and Chemistry of Solids, 2018, 116, 137-147.	1.9	119
16	Novel Synthesis of LaFeO₃ Nanostructure Dendrites: A Systematic Investigation of Growth Mechanism, Properties, and Biosensing for Highly Selective Determination of Neurotransmitter Compounds. Crystal Growth and Design, 2013, 13, 291-302.	1.4	115
17	Dielectric properties of Cd0.6Zn0.4Te thin films. Physica Status Solidi A, 2003, 199, 507-514.	1.7	111
18	Characterization of transparent conducting CdO films deposited by spray pyrolysis. Semiconductor Science and Technology, 1994, 9, 1827-1832.	1.0	109

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19	Quercetin conjugated superparamagnetic magnetite nanoparticles for in-vitro analysis of breast cancer cell lines for chemotherapy applications. Journal of Colloid and Interface Science, 2014, 436, 234-242.	5.0	102
20	Black silicon layer formation for application in solar cells. Solar Energy Materials and Solar Cells, 2006, 90, 3085-3093.	3.0	98
21	Cobalt-doped cerium oxide nanoparticles: Enhanced photocatalytic activity under UV and visible light irradiation. Materials Science in Semiconductor Processing, 2014, 26, 218-224.	1.9	98
22	Hydrothermal synthesis of highly stable CuO nanostructures for efficient photocatalytic degradation of organic dyes. Materials Science in Semiconductor Processing, 2015, 30, 585-591.	1.9	95
23	On the optical and thermal properties of in situ/ex situ reduced Ag NPâ€™s/PVA composites and its role as a simple SPR-based protein sensor. Applied Nanoscience (Switzerland), 2011, 1, 87-96.	1.6	87
24	Structural and optical properties of CdS thin films. Applied Surface Science, 2001, 169-170, 476-479.	3.1	85
25	Structure, optical and electrical properties of ZnSe thin films. Physica B: Condensed Matter, 2005, 358, 27-35.	1.3	85
26	Bacterial adhesion studies on titanium, titanium nitride and modified hydroxyapatite thin films. Materials Science and Engineering C, 2007, 27, 35-41.	3.8	83
27	Controlled growth of single-crystalline, nanostructured dendrites and snowflakes of Î±-Fe‹sub›2‹/sub›O‹sub›3‹/sub›: influence of the surfactant on the morphology and investigation of morphology dependent magnetic properties. CrystEngComm, 2010, 12, 373-382.	1.3	81
28	Structural, optical and Raman scattering studies on DC magnetron sputtered titanium dioxide thin films. Solar Energy Materials and Solar Cells, 2005, 88, 199-208.	3.0	80
29	Dielectric and conduction properties of pure polyimide films. Polymer International, 2001, 50, 1089-1094.	1.6	79
30	Low cost CBD ZnS antireflection coating on large area commercial mono-crystalline silicon solar cells. Applied Surface Science, 2004, 230, 364-370.	3.1	79
31	Enhanced super-hydrophobic and switching behavior of ZnO nanostructured surfaces prepared by simple solution â€“ Immersion successive ionic layer adsorption and reaction process. Journal of Colloid and Interface Science, 2011, 363, 51-58.	5.0	76
32	Properties of titanium thin films deposited by dc magnetron sputtering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 431, 277-284.	2.6	74
33	Texturing of large area multi-crystalline silicon wafers through different chemical approaches for solar cell fabrication. Solar Energy Materials and Solar Cells, 2008, 92, 960-968.	3.0	72
34	Pulsed laser deposited vanadium oxide thin films for uncooled infrared detectors. Sensors and Actuators A: Physical, 2003, 107, 62-67.	2.0	71
35	Biologically improved nanofibrous scaffolds for cardiac tissue engineering. Materials Science and Engineering C, 2014, 44, 268-277.	3.8	71
36	Influence of thermal annealing on the composition and structural parameters of DC magnetron sputtered titanium dioxide thin films. Crystal Research and Technology, 2002, 37, 1285-1292.	0.6	70

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37	Synthesis, growth and characterization of bisthiourea zinc bromide for optical limiting applications. Current Applied Physics, 2011, 11, 838-843.	1.1	70
38	Growth and characterization of ZnO nanostructured thin films by a two step chemical method. Applied Surface Science, 2008, 255, 2382-2387.	3.1	69
39	Highly mesoporous Î±-Fe2O3nanostructures: preparation, characterization and improved photocatalytic performance towards Rhodamine B (RhB). Journal Physics D: Applied Physics, 2010, 43, 015501.	1.3	67
40	Structural characterization of cadmium oxide thin films deposited by spray pyrolysis. Journal of Crystal Growth, 1995, 147, 355-360.	0.7	66
41	Electronic structure of FeWO4 and CoWO4 tungstates: First-principles FP-LAPW calculations and X-ray spectroscopy studies. Journal of Alloys and Compounds, 2010, 496, 61-68.	2.8	65
42	Magnetron sputtered transparent conducting CdO thin films. Journal of Electronic Materials, 1996, 25, 765-770.	1.0	64
43	Photocatalytic degradation of organic pollutants by shape selective synthesis of Î²-Ga₂O₃ microspheres constituted by nanospheres for environmental remediation. Journal of Materials Chemistry A, 2015, 3, 2617-2627.	5.2	64
44	Enhanced photocatalytic activity of cobalt-doped CeO2 nanorods. Journal of Sol-Gel Science and Technology, 2012, 64, 515-523.	1.1	63
45	Growth, structure, dielectric and AC conduction properties of solution grown PVA films. Thin Solid Films, 1999, 348, 122-129.	0.8	59
46	Enhanced mechanical strength of hydroxyapatite nanorods reinforced with polyethylene. Journal of Nanoparticle Research, 2011, 13, 1841-1853.	0.8	59
47	Effect of NaOH concentration on structural, surface and antibacterial activity of CuO nanorods synthesized by direct sonochemical method. Superlattices and Microstructures, 2014, 66, 1-9.	1.4	57
48	Systematic synthesis and analysis of change in morphology, electronic structure and photoluminescence properties of pyrazine intercalated MoO3 hybrid nanostructures. CrystEngComm, 2011, 13, 2358.	1.3	56
49	Hydrothermal synthesis of novel Zn doped CuO nanoflowers as an efficient photodegradation material for textile dyes. Materials Letters, 2015, 144, 127-130.	1.3	56
50	Large scale synthesis of hydroxyapatite nanospheres by high gravity method. Chemical Engineering Journal, 2011, 173, 846-854.	6.6	55
51	Argon and nitrogen implantation effects on the structural and optical properties of vacuum evaporated cadmium sulphide thin films. Semiconductor Science and Technology, 2002, 17, 97-103.	1.0	54
52	Characterization of vacuum-evaporated ZnSe thin films. Physica B: Condensed Matter, 2007, 393, 47-55.	1.3	54
53	Biodegradability study and pH influence on growth and orientation of ZnO nanorods via aqueous solution process. Applied Surface Science, 2012, 258, 6765-6771.	3.1	54
54	Shape evolution and size controlled synthesis of mesoporous hydroxyapatite nanostructures and their morphology dependent Pb(<scp>ii</scp>) removal from waste water. RSC Advances, 2014, 4, 37446-37457.	1.7	54

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55	Synthesis of hierarchical WO₃ nanostructured thin films with enhanced electrochromic performance for switchable smart windows. RSC Advances, 2015, 5, 96416-96427.	1.7	54
56	Nanostructured CrN thin films prepared by reactive pulsed DC magnetron sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 167, 17-25.	1.7	53
57	Effect of titanium incorporation on the structural, mechanical and biocompatible properties of DLC thin films prepared by reactive-biased target ion beam deposition method. Applied Surface Science, 2010, 257, 143-150.	3.1	53
58	Effect of annealing and electrochemical properties of solâ€“gel dip coated nanocrystalline V2O5 thin films. Materials Science in Semiconductor Processing, 2013, 16, 256-262.	1.9	53
59	Coreâ€“shell hydroxyapatite/Mg nanostructures: surfactant free facile synthesis, characterization and their in vitro cell viability studies against leukaemia cancer cells (K562). RSC Advances, 2015, 5, 48705-48711.	1.7	52
60	Analysis on superhydrophobic silver decorated copper Oxide nanostructured thin films for SERS studies. Journal of Colloid and Interface Science, 2016, 477, 209-219.	5.0	52
61	Structural characterization of hot wall deposited cadmium selenide thin films. Semiconductor Science and Technology, 1998, 13, 1016-1024.	1.0	51
62	Structural properties of V2O5 thin films prepared by vacuum evaporation. Materials Science in Semiconductor Processing, 2003, 6, 543-546.	1.9	51
63	Strong quantum confinement effect in nanocrystalline cerium oxide. Materials Letters, 2011, 65, 2635-2638.	1.3	51
64	Electrophoretic bilayer deposition of zirconia and reinforced bioglass system on Ti6Al4V for implant applications: An in vitro investigation. Materials Science and Engineering C, 2013, 33, 4160-4166.	3.8	51
65	Growth of hierarchical based ZnO micro/nanostructured films and their tunable wettability behavior. Applied Surface Science, 2011, 257, 6678-6686.	3.1	50
66	Edge-carboxylated graphene anchoring magnetite-hydroxyapatite nanocomposite for an efficient 4-nitrophenol sensor. RSC Advances, 2015, 5, 13392-13401.	1.7	50
67	A novel silica nanotube reinforced ionic incorporated hydroxyapatite composite coating on polypyrrole coated 316L SS for implant application. Materials Science and Engineering C, 2016, 59, 1110-1124.	3.8	50
68	Structural, optical, and electrical properties of cadmium oxide films deposited by spray pyrolysis. Physica Status Solidi A, 1994, 143, 85-91.	1.7	49
69	Room temperature deposited vanadium oxide thin films for uncooled infrared detectors. Materials Research Bulletin, 2003, 38, 1235-1240.	2.7	49
70	Optical constants of DC magnetron sputtered titanium dioxide thin films measured by spectroscopic ellipsometry. Crystal Research and Technology, 2003, 38, 773-778.	0.6	49
71	Mechanical and photocatalytic properties of hydroxyapatite/titania nanocomposites prepared by combined high gravity and hydrothermal process. Composites Science and Technology, 2010, 70, 419-426.	3.8	48
72	Influence of fluorine substitution on the morphology and structure ofÂhydroxyapatite nanocrystals prepared by hydrothermal method. Materials Chemistry and Physics, 2013, 137, 967-976.	2.0	48

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73	Morphology controllable synthesis of parallely arranged single-crystalline Î² -Ga 2 O 3 nanorods for photocatalytic and antimicrobial activities. Chemical Engineering Journal, 2014, 236, 181-190.	6.6	48
74	The effect of annealing on vacuum-evaporated copper selenide and indium telluride thin films. Materials Characterization, 2007, 58, 756-764.	1.9	47
75	Influence of growth and photocatalytic properties of copper selenide (CuSe) nanoparticles using reflux condensation method. Applied Surface Science, 2013, 283, 802-807.	3.1	47
76	Dielectric and electric modulus properties of vacuum evaporated Cd0.8Zn0.2Te thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 98, 225-231.	1.7	46
77	Optical and electrochemical studies of polyaniline/SnO2 fibrous nanocomposites. Materials Research Bulletin, 2013, 48, 640-645.	2.7	46
78	Influence of Growth Parameters on the Formation of Hydroxyapatite (HAp) Nanostructures and Their Cell Viability Studies. Nanobiomedicine, 2015, 2, 2.	4.4	46
79	Preparation and characterization of electrodeposited indium selenide thin films. Crystal Research and Technology, 2005, 40, 557-562.	0.6	45
80	Structural characterization of DC magnetron-sputtered TiO2 thin films using XRD and Raman scattering studies. Materials Science in Semiconductor Processing, 2003, 6, 547-550.	1.9	44
81	Microstructure, Raman and optical studies on Cd0.6Zn0.4Te thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 107, 99-105.	1.7	44
82	Template-Free Growth of Novel Hydroxyapatite Nanorings: Formation Mechanism and Their Enhanced Functional Properties. Crystal Growth and Design, 2012, 12, 3565-3574.	1.4	44
83	Synthesis, morphology, optical and photocatalytic performance of nanostructured Î²-Ga2O3. Materials Research Bulletin, 2013, 48, 2296-2303.	2.7	44
84	DC reactive magnetron sputtered CdO thin films. Materials Letters, 1996, 28, 307-312.	1.3	43
85	Study of a pulsed laser deposited vanadium oxide based microbolometer array. Smart Materials and Structures, 2003, 12, 188-192.	1.8	43
86	Effect of thickness and substrate temperature on structure and optical band gap of hot wall-deposited CuInSe2 polycrystalline thin films. Physica B: Condensed Matter, 2005, 365, 93-101.	1.3	43
87	Optical constants of vacuum evaporated Cd0.2Zn0.8Te thin films. Solar Energy Materials and Solar Cells, 2004, 81, 1-12.	3.0	42
88	Characterization of vacuum-evaporated ZnSe thin films. Materials Characterization, 2007, 58, 794-799.	1.9	42
89	Enhanced photocatalytic performance of novel self-assembled floral Î²-Ga2O3 nanorods. Current Applied Physics, 2013, 13, 652-658.	1.1	41
90	Correlations between the optical and electrical properties of CdO thin films deposited by spray pyrolysis. Thin Solid Films, 1994, 251, 7-9.	0.8	40

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91	Structure, Composition, Dielectric, and AC Conduction Studies on Tin Selenide Films. Physica Status Solidi A, 1996, 155, 405-416.	1.7	40
92	Controlled growth and investigations on the morphology and mechanical properties of hydroxyapatite/titania nanocomposite thin films. Composites Science and Technology, 2010, 70, 1645-1651.	3.8	40
93	Synthesis and gas sensors behavior of surfactants free V2O5 nanostructure by using a simple precipitation method. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1490-1494.	1.3	40
94	Synthesis and in-depth analysis of highly ordered yttrium doped hydroxyapatite nanorods prepared by hydrothermal method and its mechanical analysis. Materials Characterization, 2011, 62, 1109-1115.	1.9	39
95	Multifunctional properties of hydroxyapatite/titania bio-nano-composites: bioactivity and antimicrobial studies. Powder Technology, 2012, 228, 410-415.	2.1	39
96	Structural and optical characterization of CuInSe2 films deposited by hot wall vacuum evaporation method. Vacuum, 2007, 81, 813-818.	1.6	38
97	An in vitro analysis of H1N1 viral inhibition using polymer coated superparamagnetic Fe3O4 nanoparticles. RSC Advances, 2014, 4, 13409.	1.7	37
98	Rheological behavior and electrical properties of polypyrrole/thermally reduced graphene oxide nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 614-622.	2.3	37
99	Synthesis of hierarchical CuO nanostructures: Biocompatible antibacterial agents for Gram-positive and Gram-negative bacteria. Current Applied Physics, 2016, 16, 914-921.	1.1	37
100	Influence of substrate temperature on the properties of vacuum evaporated InSb films. Crystal Research and Technology, 2005, 40, 573-578.	0.6	36
101	A study on bacterial attachment on titanium and hydroxyapatite based films. Surface and Coatings Technology, 2006, 201, 3462-3474.	2.2	36
102	Enhanced photocatalytic property of self-assembled Fe-doped CeO2 hierarchical nanostructures. Materials Letters, 2015, 145, 189-192.	1.3	35
103	Cytotoxic consequences of Halloysite nanotube/iron oxide nanocomposite and iron oxide nanoparticles upon interaction with bacterial, non-cancerous and cancerous cells. Colloids and Surfaces B: Biointerfaces, 2018, 169, 395-403.	2.5	35
104	Influence of deposition temperature on the growth of vacuum evaporated V2O5 thin films. Materials Letters, 2003, 57, 3820-3825.	1.3	34
105	Facile in situ growth of Fe₃O₄ nanoparticles on hydroxyapatite nanorods for pH dependent adsorption and controlled release of proteins. RSC Advances, 2014, 4, 50510-50520.	1.7	34
106	Optical constants of vacuum-evaporated cadmium sulphide thin films measured by spectroscopic ellipsometry. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 78, 53-58.	1.7	33
107	Influence of substrate temperature on the structural, optical and electrical properties of zinc selenide (ZnSe) thin films. Journal Physics D: Applied Physics, 2006, 39, 4777-4782.	1.3	33
108	Synthesis and high temperature XRD studies of tantalum nitride thin films prepared by reactive pulsed dc magnetron sputtering. Journal of Alloys and Compounds, 2011, 509, 6400-6407.	2.8	33

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109	Synthesis of indium oxide cubic crystals by modified hydrothermal route for application in room temperature flexible ethanol sensors. Materials Chemistry and Physics, 2012, 133, 47-54.	2.0	33
110	Diatom-Based Label-Free Optical Biosensor for Biomolecules. Applied Biochemistry and Biotechnology, 2014, 174, 1166-1173.	1.4	33
111	Field and temperature-dependent electronic transport parameters of amorphous and polycrystalline GaSe thin films. Physica B: Condensed Matter, 2003, 337, 404-412.	1.3	32
112	Superhydrophobic and H₂S gas sensing properties of CuO nanostructured thin films through a successive ionic layered adsorption reaction process. RSC Advances, 2016, 6, 24290-24298.	1.7	32
113	Novel multiform morphologies of hydroxyapatite: Synthesis and growth mechanism. Applied Surface Science, 2016, 361, 25-32.	3.1	32
114	Optoelectronic properties of Zn0.52Se0.48/Si Schottky diodes. Solid-State Electronics, 2004, 48, 2219-2223.	0.8	31
115	Optoelectronic properties of ZnSe thin films. Materials Science in Semiconductor Processing, 2007, 10, 128-132.	1.9	31
116	Synthesis and characterization of Î±-Fe2O3 Micro-/Nanorods-modified glassy carbon electrode for electrochemical sensing of nitrobenzene. Ceramics International, 2015, 41, 5568-5573.	2.3	31
117	Superhydrophobic Ag decorated ZnO nanostructured thin film as effective surface enhanced Raman scattering substrates. Applied Surface Science, 2015, 355, 969-977.	3.1	31
118	Photocatalytic degradation mechanisms of CeO2/Tb2O3 nanotubes. Applied Surface Science, 2015, 349, 459-464.	3.1	31
119	Optical investigations on indium oxide nano-particles prepared through precipitation method. Materials Characterization, 2009, 60, 1578-1582.	1.9	30
120	Structural studies on vacuum evaporated ZnSe/p-Si Schottky diodes. Materials Chemistry and Physics, 2007, 103, 305-311.	2.0	29
121	Organic additives assisted synthesis of mesoporous Î²-Ga₂O₃ nanostructures for photocatalytic dye degradation. Semiconductor Science and Technology, 2013, 28, 035015.	1.0	29
122	Raman scattering and XRD analysis in argon ion implanted CdS thin films prepared by vacuum evaporation. Nuclear Instruments & Methods in Physics Research B, 2001, 173, 475-482.	0.6	28
123	Dielectric and transport properties of magnetron sputtered titanium dioxide thin films. Physica B: Condensed Matter, 2005, 369, 129-134.	1.3	28
124	The effect of thickness on the properties of titanium films deposited by dc magnetron sputtering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 458, 361-365.	2.6	28
125	Space-charge limited conduction in polyaniline films. Polymer International, 2004, 53, 898-902.	1.6	27
126	Controlled electrophoretic deposition of HAp/Î²-TCP composite coatings on piranha treated 316L SS for enhanced mechanical and biological properties. Applied Surface Science, 2015, 353, 189-199.	3.1	27

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127	Catalyst free vaporâ€“solid deposition of morphologically different Î²-Ga₂O₃ nanostructure thin films for selective CO gas sensors at low temperature. Analytical Methods, 2016, 8, 3224-3235.	1.3	27
128	Dielectric studies on Cd0.4Zn0.6Te thin films. Materials Chemistry and Physics, 2003, 78, 809-815.	2.0	26
129	Self assembly of Co doped CeO2 microspheres from nanocubes by hydrothermal method and their photodegradation activity on AO7. Materials Letters, 2011, 65, 3320-3322.	1.3	26
130	Superhydrophobic and antireflecting behavior of densely packed and size controlled ZnO nanorods. Journal of Alloys and Compounds, 2013, 553, 375-382.	2.8	26
131	Structural and chemical analysis of silica-doped Î²-TCP ceramic coatings on surgical grade 316L SS for possible biomedical application. Journal of Asian Ceramic Societies, 2015, 3, 317-324.	1.0	26
132	Electrochemical Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid Using LaMnO₃Nanostructures. Journal of the Electrochemical Society, 2016, 163, B460-B465.	1.3	26
133	Photocatalytic degradation mechanisms of self-assembled rose-flower-like CeO2 hierarchical nanostructures. Applied Physics Letters, 2013, 102, .	1.5	25
134	Toxic influence of pristine and surfactant modified halloysite nanotubes on phytopathogenic bacteria. Applied Clay Science, 2019, 174, 57-68.	2.6	25
135	Conduction Studies on Bismuth Selenide Thin Films. Crystal Research and Technology, 1999, 34, 867-872.	0.6	24
136	Hydrophobic ZnO nanostructured thin films on glass substrate by simple successive ionic layer absorption and reaction (SILAR) method. Thin Solid Films, 2010, 518, e183-e186.	0.8	24
137	Isothermal grain growth and effect of grain size on piezoelectric constant of Na0.5Bi0.5TiO3 ceramics. Scripta Materialia, 2016, 112, 58-61.	2.6	24
138	Conduction studies on polyvinyl alcohol films. European Polymer Journal, 1995, 31, 969-975.	2.6	23
139	Optical recording characteristics of Sb2Se3 thin films using a CW-Ar+ laser. Thin Solid Films, 1995, 266, 62-68.	0.8	23
140	Effect of pressure on surface passivation of silicon solar cell by forming gas annealing. Materials Science in Semiconductor Processing, 2004, 7, 427-431.	1.9	23
141	Magnetic properties of Cr doped ZnTe alloy powder. Materials Letters, 2012, 87, 113-116.	1.3	23
142	Aging, Annealing, and Dielectric Properties of Neodymium Oxide Thin Films. Physica Status Solidi A, 1990, 121, 515-522.	1.7	22
143	Structure and temperature dependence of conduction mechanisms in hot wall deposited CuInSe2 thin films and effect of back contact layer in CuInSe2 based solar cells. Vacuum, 2010, 84, 1220-1225.	1.6	22
144	Investigations on nitrogen ion implantation effects in vacuum evaporated CdS thin films using Raman scattering and X-ray diffraction studies. Physica B: Condensed Matter, 2001, 304, 175-180.	1.3	21

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145	Reactive biased target ion beam deposited Wâ€“DLC nanocomposite thin films â€” Microstructure and its mechanical properties. Diamond and Related Materials, 2012, 23, 34-43.	1.8	21
146	Synthesis of CeO2 nanorods with improved photocatalytic activity: comparison between precipitation and hydrothermal process. Journal of Materials Science: Materials in Electronics, 2013, 24, 1644-1650.	1.1	21
147	Highly monodispersed Ag embedded SiO₂nanostructured thin film for sensitive SERS substrate: growth, characterization and detection of dye molecules. RSC Advances, 2015, 5, 46229-46239.	1.7	21
148	Impedance and Electric Modulus Analysis of Cd0.6Zn0.4Te Thin Films. Crystal Research and Technology, 2002, 37, 1094-1103.	0.6	20
149	The effect of surface composition of titanium films on bacterial adhesion. Biomedical Materials (Bristol), 2006, 1, L1-L5.	1.7	20
150	The effect of nitrogen ion implantation on the structural, optical and electrical properties of ZnSe thin films. Semiconductor Science and Technology, 2006, 21, 1661-1667.	1.0	20
151	Rheological behavior â€•Electrical and thermal properties of polypyrrole/graphene oxide nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	1.3	20
152	Structure and Electrical Properties of Thermally Evaporated Nd2O3 Thin Films. Physica Status Solidi A, 1991, 128, 427-433.	1.7	19
153	Growth and characterization of ZnSxSe1â^'xfilms deposited by close-spaced evaporation. Journal Physics D: Applied Physics, 2007, 40, 3683-3688.	1.3	19
154	Hydrophilic polymer coated monodispersed Fe₃O₄nanostructures and their cytotoxicity. Materials Research Express, 2014, 1, 015015.	0.8	19
155	Structure, dielectric, AC and DC conduction properties of acid doped polyaniline films. European Polymer Journal, 1997, 33, 1747-1752.	2.6	18
156	Influence of density of states on optical properties of GaSe thin film. Crystal Research and Technology, 2004, 39, 137-142.	0.6	17
157	Electrochemical behavior of nanostructured SnO2 thin films in aqueous electrolyte solutions. Materials Science in Semiconductor Processing, 2014, 26, 55-61.	1.9	17
158	Gold nanoparticle immobilization on ZnO nanorods via bi-functional monolayers: A facile method to tune interface properties. Surface Science, 2015, 641, 23-29.	0.8	17
159	Design of CuO/SnO2 heterojunction photocatalyst with enhanced UV light-driven photocatalytic activity on congo-red and malachite green dyes. Journal of the Iranian Chemical Society, 2019, 16, 1291-1300.	1.2	17
160	Space charge limited current, variable range hopping and mobility gap in thermally evaporated amorphous InSe thin films. Journal of Materials Science: Materials in Electronics, 2004, 15, 787-792.	1.1	16
161	Microstructural, nanomechanical and antibacterial properties of magnetron sputtered nanocomposite thin films of CrN/Cu. Surface Engineering, 2012, 28, 134-140.	1.1	16
162	Dielectric and AC Conduction Properties of Thermally Evaporated Lithium Niobate Thin Films. Physica Status Solidi A, 1992, 129, 443-451.	1.7	15

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163	Structure, dielectric, and AC conduction properties of amorphous germanium thin films. Physica Status Solidi A, 1992, 130, 141-151.	1.7	15
164	Composition studies on CdO thin films formed by spray pyrolysis and sputtering. Applied Surface Science, 1997, 113-114, 422-425.	3.1	15
165	Structural, optical and Raman scattering studies on polycrystalline Cd0.8Zn0.2Te thin films prepared by vacuum evaporation. Physica B: Condensed Matter, 2003, 328, 355-362.	1.3	15
166	Composition, structural, dielectric and DC characterization of vacuum deposited ZnSe thin films. Vacuum, 2007, 81, 928-933.	1.6	15
167	Magnetic studies on ZnTe:Cr film grown on glass substrate by thermal evaporation method. Applied Surface Science, 2009, 255, 7517-7523.	3.1	15
168	Nanostructured leaf like hydroxyapatite/TiO2 composite coatings by simple solâ€“gel method. Thin Solid Films, 2010, 518, 7333-7338.	0.8	15
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