

Dakshanamoorthy Arivuoli Cchem Frsc

List of Publications by Year in descending order

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96
papers

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430874

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97
docs citations

97
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of stoichiometric nano crystalline hydroxyapatite by ethanol-based sol-gel technique at low temperature. Journal of Crystal Growth, 2004, 263, 517-523.	1.5	241
2	Growth and microhardness studies of chalcogenides of arsenic, antimony and bismuth. Journal of Materials Science Letters, 1988, 7, 711-713.	0.5	179
3	Photocatalytic Water Splitting under Visible Light by Mixed-Valence $\text{Sn}^{3+}\text{O}^{4-}$. ACS Applied Materials & Interfaces, 2014, 6, 3790-3793.	8.0	148
4	Fundamentals of nonlinear optical materials. Pramana - Journal of Physics, 2001, 57, 871-883.	1.8	84
5	Low-temperature Remediation of NO Catalyzed by Interleaved CuO Nanoplates. Advanced Materials, 2014, 26, 4481-4485.	21.0	79
6	Tribological properties and deformation mechanism of TiAlN coating sliding with various counterbodies. Tribology International, 2013, 66, 143-149.	5.9	60
7	Growth and characterization of hydroxyapatite crystals by hydrothermal method. Journal of Materials Science: Materials in Medicine, 2007, 18, 895-898.	3.6	49
8	Surface modification and characterisation of Ti-Al-V alloys. Materials Chemistry and Physics, 2002, 76, 187-190.	4.0	45
9	Size and Shape Dependence on Melting Temperature of Gallium Nitride Nanoparticles. Journal of Nanomaterials, 2012, 2012, 1-11.	2.7	39
10	Wear mechanism of CrN/NbN superlattice coating sliding against various counterbodies. International Journal of Refractory Metals and Hard Materials, 2013, 41, 547-552.	3.8	27
11	High intense violet luminescence in fluorine doped zinc oxide (FZO) thin films deposited by aerosol assisted CVD. Journal of Alloys and Compounds, 2013, 580, 131-136.	5.5	26
12	Growth of some group V-VI-VII compounds from the vapour. Journal of Crystal Growth, 1993, 128, 1081-1085.	1.5	25
13	Synthesis of Mesoporous Pt-Ru Alloy Particles with Uniform Sizes by Sophisticated Hard-templating Method. Chemistry - an Asian Journal, 2013, 8, 902-907.	3.3	25
14	Mixed-valence NaSb_3O_7 support toward improved electrocatalytic performance in the oxygen-reduction reaction. Journal of Materials Chemistry A, 2017, 5, 1667-1671.	10.3	24
15	Preparation and characterization of bioactive silk fibroin/paramylon blend films for chronic wound healing. International Journal of Biological Macromolecules, 2020, 154, 1324-1331.	7.5	23
16	Microhardness studies of doped and undoped InP crystals. Journal of Materials Science Letters, 1991, 10, 559-561.	0.5	22
17	Influence of an organic and an inorganic additive on the crystallization of dicalcium phosphate dihydrate. Journal of Crystal Growth, 2005, 285, 380-387.	1.5	20
18	Growth of bismuth sulpho-iodide single crystals from vapour. Journal of Materials Science, 1986, 21, 2835-2838.	3.7	18

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19	Physico-chemical and biological studies on three-dimensional porous silk/spray-dried mesoporous bioactive glass scaffolds. <i>Ceramics International</i> , 2016, 42, 13761-13772.	4.8	18
20	In vitro corrosion behaviour of plasma nitrided Ti-6Al-7Nb orthopaedic alloy in Hanks solution. <i>Science and Technology of Advanced Materials</i> , 2003, 4, 415-418.	6.1	17
21	Extremely high wear resistance and ultra-low friction behaviour of oxygen-plasma-treated nanocrystalline diamond films. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 425304.	2.8	17
22	Fluorine doped tin oxide (FTO) thin film as transparent conductive oxide (TCO) for photovoltaic applications. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	17
23	Enhanced violet photoemission of nanocrystalline fluorine doped zinc oxide (FZO) thin films. <i>Optical Materials</i> , 2015, 47, 88-94.	3.6	17
24	Evaluation of nanoindentation and nanoscratch characteristics of GaN/InGaN epilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 64-69.	5.6	17
25	Growth and characterization of pure and cadmium doped strontium tartrate tetrahydrate single crystals. <i>Materials Research Bulletin</i> , 1994, 29, 309-316.	5.2	15
26	Tailoring the surface-oxygen defects of a tin dioxide support towards an enhanced electrocatalytic performance of platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5932-5937.	2.8	15
27	Hard-templating Synthesis of Mesoporous Pt-Based Alloy Particles with Low Ni and Co Contents. <i>Chemistry Letters</i> , 2013, 42, 447-449.	1.3	14
28	Low-cost and biodegradable cellulose/PVP/activated carbon composite membrane for brackish water treatment. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48746.	2.6	14
29	Microhardness studies on ammonium acid urate crystals. <i>Journal of Materials Science Letters</i> , 1993, 12, 405-406.	0.5	12
30	Microhardness studies of doped and undoped strontium tartrate tetrahydrate single crystals. <i>Journal of Materials Science Letters</i> , 1994, 13, 263-265.	0.5	12
31	Non-invasive, Non-Enzymatic, Biodegradable and Flexible Sweat Glucose Sensor and Its Electrochemical Studies. <i>ChemistrySelect</i> , 2020, 5, 11305-11321.	1.5	12
32	Electrochemical behaviour and characterisation of plasma nitrided Ti-5Al-2Nb-1Ta orthopaedic alloy in Hanks solution. <i>Surface and Coatings Technology</i> , 2004, 182, 287-293.	4.8	11
33	Tribological behaviour of plasma nitrided Ti-5Al-2Nb-1Ta alloy against UHMWPE. <i>Tribology International</i> , 2004, 37, 627-631.	5.9	11
34	Growth of oxide crystals: effect of change in melt depth. <i>Journal of Crystal Growth</i> , 1994, 141, 371-375.	1.5	10
35	Pt Decorated Free-Standing TiO ₂ Nanotube Arrays: Highly Active and Durable Electrocatalyst for Oxygen Reduction and Methanol Oxidation Reactions. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8269-8278.	0.9	10
36	Nanoindentation studies of MOVPE grown GaAs/InP heterostructures. <i>Materials Chemistry and Physics</i> , 2000, 66, 207-212.	4.0	9

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37	Effect of N ⁺ ion implantation on the corrosion behaviour of Ti-6Al-7Nb and Ti-5Al-2Nb-1Ta orthopaedic alloys in Hanks solution. Journal of Applied Electrochemistry, 2004, 34, 271-276.	2.9	9
38	Enhanced wear resistance of Ti-5Al-2Nb-1Ta orthopaedic alloy by nitrogen ion implantation. Tribology International, 2006, 39, 548-552.	5.9	9
39	Mechanical properties of some binary, ternary and quaternary III-V compound semiconductor alloys. Physica B: Condensed Matter, 2007, 392, 51-57.	2.7	9
40	Preparation and characterization of highly ordered mesoporous SiC nanoparticles with rod shaped morphology and tunable pore diameters. Journal of Materials Chemistry, 2011, 21, 8792.	6.7	9
41	Studies of nanoindentation and residual stress analysis of Ge/GaAs epilayers. Semiconductor Science and Technology, 2015, 30, 055004.	2.0	9
42	Growth of bismuth seleno iodide single crystals from the vapour. Journal of Materials Science, 1987, 22, 981-984.	3.7	8
43	Enhanced photocatalytic activity on Vanadium-doped NiO nanostructures in natural sunlight. Journal of Materials Science: Materials in Electronics, 2021, 32, 1105-1120.	2.2	8
44	Nanoindentation studies of (111) GaAs/InP epilayers. Applied Surface Science, 2001, 180, 119-125.	6.1	7
45	Growth of dendritic BiSeI from vapour. Journal of Materials Science Letters, 1986, 5, 597-598.	0.5	6
46	Growth of struvite crystals from gel. Crystal Research and Technology, 1990, 25, k104-k107.	1.3	6
47	Some aspects of growth and characterisation of BSO and BGO crystals. Ferroelectrics, 1993, 142, 161-165.	0.6	6
48	Growth of hollow SbSI crystals from the vapour. Journal of Crystal Growth, 1986, 79, 432-435.	1.5	5
49	Growth of arsenic tritelluride hollow crystals from vapour. Journal of Materials Science Letters, 1986, 5, 193-194.	0.5	5
50	Growth of SbSI and BiSI from vapour by iodine transport. Materials Chemistry and Physics, 1987, 16, 181-188.	4.0	5
51	Growth and Characterisation of NaNO ₃ Single Crystals. Crystal Research and Technology, 1991, 26, K141-K146.	1.3	5
52	Growth of bismuth silicon oxide and bismuth germanium oxide crystals by the Czochralski technique and their characterization. Optical Engineering, 1993, 32, 682.	1.0	5
53	Growth and characterization of selenium sulfide (SeS) and selenium tin sulfide (SeSnS ₂) microcrystals. Journal of Crystal Growth, 2004, 263, 498-503.	1.5	5
54	Microindentation studies of Hg _{0.7} Cd _{0.3} Te/CdTe compound semiconductor alloy. Materials Letters, 2006, 60, 2949-2953.	2.6	5

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55	Morphological Control of Porous SiC Templated by As-Synthesized Form of Mesoporous Silica. Journal of Nanoscience and Nanotechnology, 2011, 11, 6823-6829.	0.9	5
56	Growth, Optical, Mechanical and Dielectric Properties of Glycine Zinc Chloride NLO Single Crystals. Journal of Minerals and Materials Characterization and Engineering, 2011, 10, 1131-1139.	0.4	5
57	Growth of bubble-free bismuth silicon oxide and bismuth germanium oxide crystals under conditions of forced convection in the melt. Journal of Materials Science Letters, 1993, 12, 1218-1220.	0.5	5
58	Crystallization and characterization of AsSeI. Journal of Crystal Growth, 1988, 88, 353-357.	1.5	4
59	Microindentation studies of chalcogenides of antimony and bismuth. Journal Physics D: Applied Physics, 1988, 21, 1019-1021.	2.8	4
60	Microscopy observations of Cz-grown BSO (Bi ₁₂ SiO ₂₀) crystals. Materials Chemistry and Physics, 1994, 37, 90-93.	4.0	4
61	Simulation Studies of InGaN Based Light-Emitting Diodes to Reduce Electron Overflow Problem by Designing Electron Blocking Layer. Journal of Nanoscience and Nanotechnology, 2015, 15, 4414-4420.	0.9	4
62	Evaluation of microindentation properties of epitaxial 3C-SiC/Si thin films. Physica B: Condensed Matter, 2016, 490, 86-89.	2.7	4
63	Growth of hollow antimony seleno-bromide crystals from vapour. Journal of Materials Science Letters, 1987, 6, 249-250.	0.5	3
64	Effect of SeS ₂ treatment on the surface modification of GaAs and adhesive wafer bonding of GaAs with Silicon. Journal of Crystal Growth, 2004, 263, 454-458.	1.5	3
65	Investigations of structural and optical analysis of SeS and SeSnS ₂ microcrystals. Journal of Crystal Growth, 2004, 267, 166-172.	1.5	3
66	Characterization of surface deformation around Vickers indentations in InGaAsP epilayers on InP substrate. Applied Surface Science, 2006, 253, 2973-2977.	6.1	3
67	Studies on mechanical properties of titanium aluminium nitride coatings. Indian Journal of Physics, 2013, 87, 1199-1206.	1.8	3
68	Growth of hollow Sb ₂ S ₃ -Sb ₂ Se ₃ mixed crystals from vapour. Journal of Materials Science Letters, 1986, 5, 959-960.	0.5	2
69	Growth of antimony sulpho iodide single crystals from vapour. Journal of Materials Science, 1987, 22, 85-86.	3.7	2
70	Growth of antimony seleno iodide single crystals from vapour. Materials Chemistry and Physics, 1987, 16, 197-200.	4.0	2
71	Growth and characterization of BiSeI crystals. Journal of Materials Science Letters, 1992, 11, 1608-1610.	0.5	2
72	Dendritic structures of brushite in silica gel. Journal of Crystal Growth, 1993, 130, 217-220.	1.5	2

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73	In vitro solubility, growth and characterization of cholesteryl acetate. Journal of Crystal Growth, 2004, 267, 301-305.	1.5	2
74	AFM studies of microindented GaN and InGaN. Materials Letters, 2009, 63, 515-518.	2.6	2
75	A Thermo Dynamical Model for the Shape and Size Effect on Melting of Boron Carbide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 993-1000.	0.9	2
76	Nanoindentation Studies of Metal Organic Vapor Phase Epitaxy Grown Ge/Si Heterostructures. Energy and Environment Focus, 2013, 2, 85-89.	0.3	2
77	Synthesis and Electro-Catalytic Properties of Platinum Supported on Graphene for Methanol Oxidation. Journal of Nanoscience and Nanotechnology, 2015, 15, 9746-9753.	0.9	2
78	Dealloyed Nanoporous Pt-Based Alloys as High Performance Anode Catalysts for Direct Alcohol Fuel Cells. Journal of Nanoscience and Nanotechnology, 2017, 17, 2991-2998.	0.9	2
79	Simulation Studies on GaN/InGaN Based Multi Quantum Well Light Emitting Diode for Reducing Efficiency Droop by Imposing Improved Si-Doped Barrier Model. Energy and Environment Focus, 2012, 1, 57-63.	0.3	2
80	Synthesis, Optical and Dielectric Properties of Tris-Glycine Zinc Chloride (TGZC) Single Crystals. Journal of Minerals and Materials Characterization and Engineering, 2011, 10, 517-526.	0.4	2
81	Growth of SbI ₃ single crystals from vapour by the temperature oscillation method. Materials Chemistry and Physics, 1987, 16, 189-195.	4.0	1
82	Observations made during the growth of trihalides of group Vb elements. Journal of Crystal Growth, 1992, 119, 303-308.	1.5	1
83	Nanoindentation studies of gallium arsenide heteroepitaxial layers. Crystal Research and Technology, 2014, 49, 575-580.	1.3	1
84	Interleaved Mesoporous Copper for the Anode Catalysis in Direct Ammonium Borane Fuel Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 4443-4448.	0.9	1
85	Fluorine-doped zinc oxide thin films: influence of precursor flow rate on violet luminescence. Applied Physics A: Materials Science and Processing, 2015, 119, 941-948.	2.3	1
86	Hierarchical SnO ₂ Nanostructure with High Energy {113} Facet as Pt-Support for Improved Oxygen Reduction Reaction. Journal of Nanoscience and Nanotechnology, 2017, 17, 2929-2936.	0.9	1
87	Reduction of Electron Overflow Problem by Improved InGaN/GaN Based Multiple Quantum Well LEDs Structure with p-AlInGaN/AlGaIn EBL Layer. Environmental Science and Engineering, 2014, , 189-192.	0.2	1
88	Equilibrium diagrams for some AB ₃ (A=Sb, Bi, As and B=Cl, Br, I) compounds. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1986, 7, 22-30.	0.4	0
89	Growth of arsenic tritelluride whiskers from vapour. Journal of Materials Science Letters, 1986, 5, 717-718.	0.5	0
90	Growth of hollow Bi ₂ Se ₂ S crystals from vapour. Crystal Research and Technology, 1988, 23, 793-795.	1.3	0

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91	Vapour-Liquid-Solid Mechanism of Growth of Whiskers of Some Semiconducting Compounds. Crystal Research and Technology, 1991, 26, K60-K63.	1.3	0
92	Growth and characterization of urinary crystals. Crystal Research and Technology, 1994, 29, K71-K75.	1.3	0
93	PREPARATION AND CHARACTERISATION OF Ti/BaTiO ₃ /InP MIS STRUCTURES. International Journal of Modern Physics B, 2002, 16, 281-286.	2.0	0
94	Tribological behaviour of plasma nitrided Ti-5Al-2Nb-1Ta alloy against UHMWPE. , 0, , .		0
95	Mechanical properties of InAs/InP semiconductor alloys. Applied Surface Science, 2006, 253, 2657-2661.	6.1	0
96	Nanomechanical studies of doped InGaP/GaAs epilayers. , 2013, , .		0