

P Thangadurai

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,487
citations

430874

18
h-index

302126

39
g-index

46
all docs

46
docs citations

46
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Metal and Metal Oxides for the Removal of Water Pollutants. Environmental Chemistry for A Sustainable World, 2022, , 99-130.	0.5	0
2	Conduction mechanisms responsible for leakage currents in RF sputtered HfO ₂ high- ϵ^r gate-oxide thin film MOS capacitors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 114999.	3.5	4
3	Nanomaterials with Different Morphologies for Photocatalysis. Environmental Chemistry for A Sustainable World, 2020, , 47-87.	0.5	2
4	Influence of Nb ion doping on the electrical properties of nanocrystalline NiTiO ₃ ceramics and their universal behavior. Ionics, 2020, 26, 939-952.	2.4	5
5	Surface analysis, gate leakage currents and electrical characteristics of Mn ions incorporated into ZrO ₂ gate dielectric layer in silicon MOS capacitors. Materials Science in Semiconductor Processing, 2020, 119, 105171.	4.0	5
6	Tuning electrical properties of nanocrystalline Y ₂ Zr ₂ O ₇ pyrochlores by engineering the size of their particles. Ionics, 2019, 25, 5949-5961.	2.4	3
7	Direct sunlight responsive ZnO photocatalyst: Highly efficient photodegradation of methylene blue. AIP Conference Proceedings, 2019, , .	0.4	1
8	Performance enhanced photodegradation of organic dyes by Ag loaded ZnO-graphene ternary nanocomposite. AIP Conference Proceedings, 2019, , .	0.4	0
9	Study on the effect of copper ion doping in zinc oxide nanomaterials for photocatalytic applications. Materials Chemistry and Physics, 2019, 230, 162-171.	4.0	33
10	Emerging Nanomaterials in Energy and Environmental Science: An Overview. Environmental Chemistry for A Sustainable World, 2019, , 1-49.	0.5	1
11	Influence of Mg ion concentration in ZrO ₂ gate dielectric layered silicon based MOS capacitors for memory applications: Thorough understanding of conduction processes. Materials Science in Semiconductor Processing, 2019, 89, 85-96.	4.0	7
12	Crystalline phase dependent electrical properties of Mg incorporated tetragonal phase stabilized ZrO ₂ high- ϵ^r dielectric layer in Si based MOS capacitors. Materials Science in Semiconductor Processing, 2018, 81, 7-16.	4.0	10
13	Influence of Sn ion doping on the photocatalytic performance of V ₂ O ₅ nanorods prepared by hydrothermal method. Materials Research Express, 2018, 5, 025507.	1.6	20
14	A detailed study on Sn ⁴⁺ doped ZnO for enhanced photocatalytic degradation. Applied Surface Science, 2018, 433, 887-898.	6.1	78
15	Effect of Sn doping in ZnO on the photocatalytic activity of ZnO-Graphene nanocomposite with improved activity. Journal of Environmental Chemical Engineering, 2018, 6, 5087-5100.	6.7	43
16	Structural evolution and electrical properties of the biphasic compound ϵ -Al ₂ O ₃ :MgAl ₂ O ₄ . Materials Research Bulletin, 2017, 90, 244-252.	5.2	7
17	Structural, optical and photocatalytic properties of graphene-ZnO nanocomposites for varied compositions. Journal of Physics and Chemistry of Solids, 2017, 102, 168-177.	4.0	83
18	Structural and photocatalytic studies on pure and Sn ion doped ZnO-graphene nanocomposites. AIP Conference Proceedings, 2016, , .	0.4	0

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19	Low-temperature photoluminescence behaviour of Ag decorated ZnO Nanorods. Journal of Applied Physics, 2016, 120, .	2.5	15
20	Structural and gas sensing properties of ex-situ oxidized Sn grown by thermal evaporation. Applied Surface Science, 2016, 360, 731-737.	6.1	9
21	Methane gas sensing at relatively low operating temperature by hydrothermally prepared SnO ₂ nanorods. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	35
22	A facile bio-replicated synthesis of SnO ₂ motifs with porous surface by using pollen grains of Peltophorum pterocarpum as a template. Microporous and Mesoporous Materials, 2015, 212, 91-99.	4.4	24
23	Structural and photoluminescence studies of Eu ³⁺ doped cubic Y ₂ O ₃ nanophosphors. Journal of Luminescence, 2014, 145, 997-1003.	3.1	56
24	A facile green synthesis of reduced graphene oxide by using pollen grains of Peltophorum pterocarpum and study of its electrochemical behavior. RSC Advances, 2014, 4, 56910-56917.	3.6	28
25	Mn ²⁺ ion influenced optical and photocatalytic behaviour of Mn ²⁺ -ZnS quantum dots prepared by a microwave assisted technique. RSC Advances, 2014, 4, 44592-44599.	3.6	75
26	Effect of Pd ion doping in the band gap of SnO ₂ nanoparticles: structural and optical studies. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	37
27	ZnO/Ag nanocomposite: An efficient catalyst for degradation studies of textile effluents under visible light. Materials Science and Engineering C, 2013, 33, 2235-2244.	7.3	525
28	Structural phase analysis of nanocrystalline Mg:ZrO ₂ . , 2013, , .		2
29	Structural and optical studies of Pd doped tin oxide nanoparticles prepared by chemical co-precipitation method. , 2012, , .		0
30	Synchrotron based XRD study on nano crystalline SnO ₂ under pressure. Journal of Physics: Conference Series, 2012, 377, 012022.	0.4	0
31	The correlation of the electrical properties with electron irradiation and constant voltage stress for MIS devices based on high-k double layer (HfTiSiO:N and HfTiO:N) dielectrics. Microelectronic Engineering, 2010, 87, 1728-1734.	2.4	9
32	Microstructure and chemical analysis of Hf-based high-k dielectric layers in metal-insulator-metal capacitors. Thin Solid Films, 2010, 518, 4467-4472.	1.8	3
33	The influence of electron-beam irradiation on electrical characteristics of metal-insulator-semiconductor capacitors based on a high-k dielectric stack of HfTiSiO(N) and HfTiO(N) layers. Microelectronics Reliability, 2009, 49, 716-720.	1.7	17
34	Peculiarities of electrical properties of metal-insulator-semiconductor capacitors based on high-k dielectric stack containing HfTiSiO:N and HfTiO:N films. , 2009, , .		0
35	TEM specimen preparation of semiconductor-PMMA-metal interfaces. Materials Characterization, 2008, 59, 1623-1629.	4.4	28
36	High capacitance density metal-insulator-metal structures based on a high-k HfN _x O _y -SiO ₂ -HfTiO _y laminate stack. Applied Physics Letters, 2008, 92, .	3.3	14

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37	The use of nanolaminates to obtain structurally stable high-K films with superior electrical properties: HfNO ₂ /HfTiO ₂ . Journal of Applied Physics, 2008, 103, 114106.	2.5	19
38	Grain size dependent electrical studies on nanocrystalline SnO ₂ . Materials Chemistry and Physics, 2006, 95, 72-78.	4.0	62
39	HIGH PRESSURE EFFECTS ON ELECTRICAL RESISTIVITY AND DIELECTRIC PROPERTIES OF NANOCRYSTALLINE SnO ₂ . International Journal of Nanoscience, 2006, 05, 471-477.	0.7	1
40	High Pressure effects on electrical resistivity and dielectric properties of nanocrystalline SnO ₂ . Journal of Physics and Chemistry of Solids, 2005, 66, 1621-1627.	4.0	33
41	EPR study of Mn ²⁺ doped nanocrystalline PbF ₂ . European Physical Journal B, 2005, 44, 447-454.	1.5	2
42	Recent study of nanomaterials prepared by inert gas condensation using ultra high vacuum chamber. Pramana - Journal of Physics, 2005, 65, 881-891.	1.8	6
43	Raman studies in nanocrystalline lead (II) fluoride. Journal of Physics Condensed Matter, 2005, 17, 863-874.	1.8	16
44	²⁰⁷ Pb MAS NMR and conductivity identified anomalous phase transition in nanostructured PbF ₂ . European Physical Journal B, 2004, 37, 425-432.	1.5	13
45	Grain size effect on the universality of AC conductivity in SnO ₂ . Journal of Physics and Chemistry of Solids, 2003, 64, 659-663.	4.0	52
46	Synthesis and characterization of nanocrystalline SnO ₂ and fabrication of lithium cell using nano-SnO ₂ . Journal of Power Sources, 2002, 107, 138-141.	7.8	104