

Dheivasigamani Thangaraju

List of Publications by Year in descending order

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51
papers

785
citations

471061

17
h-index

552369

26
g-index

52
all docs

52
docs citations

52
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-step synthesis and catalytic activity of structure-controlled nickel sulfide nanoparticles. CrystEngComm, 2015, 17, 5431-5439.	1.3	110
2	Sol-gel synthesis and photoluminescence analysis of Sm ³⁺ :NaGd(WO ₄) ₂ phosphors. Journal of Luminescence, 2016, 170, 743-748.	1.5	48
3	Solvent influenced synthesis of single-phase SnS ₂ nanosheets for solution-processed photodiode fabrication. CrystEngComm, 2020, 22, 525-533.	1.3	40
4	Shape controlled synthesis of hierarchical nickel sulfide by the hydrothermal method. Dalton Transactions, 2014, 43, 17445-17452.	1.6	38
5	Sol-gel synthesis and characterizations of crystalline NaGd(WO ₄) ₂ powder for anisotropic transparent ceramic laser application. Optical Materials, 2013, 35, 740-743.	1.7	37
6	One-dollar microfluidic paper-based analytical devices: Do-It-Yourself approaches. Microchemical Journal, 2021, 165, 106126.	2.3	33
7	Photosensitive activity of fabricated core-shell composite nanostructured p-CuO@CuS/n-Si diode for photodetection applications. Sensors and Actuators A: Physical, 2021, 317, 112373.	2.0	31
8	Growth and optical properties of Cu ₂ ZnSnS ₄ decorated reduced graphene oxide nanocomposites. Dalton Transactions, 2015, 44, 15031-15041.	1.6	30
9	Luminescence characterization of sol-gel derived Pr ³⁺ doped NaGd(WO ₄) ₂ phosphors for solid state lighting applications. Materials Chemistry and Physics, 2016, 179, 295-303.	2.0	27
10	Influence of pH and microwave calcination on the morphology of KGd(WO ₄) ₂ particles derived by Pechini Sol-Gel method. Journal of Sol-Gel Science and Technology, 2011, 58, 419-426.	1.1	26
11	Novel KGd _{1-x-y} Eu _x Bi _y (W _{1-z} Mo _z O ₄) ₂ nanocrystalline red phosphors for tricolor white LEDs. Journal of Luminescence, 2013, 134, 244-250.	1.5	25
12	Photoluminescence properties of sub-micron NaGd _{1-x} Eu _x (WO ₄) ₂ red phosphor for solid state lightings application: Derived by different synthesis routes. Superlattices and Microstructures, 2016, 93, 308-321.	1.4	23
13	A facile co-precipitation synthesis of novel WO ₃ /NiWO ₄ nanocomposite with improved photocatalytic activity. Materials Science in Semiconductor Processing, 2021, 133, 105970.	1.9	22
14	SiO ₂ /KGd(WO ₄) ₂ :Eu ³⁺ composite luminescent nanoparticles: Synthesis and characterization. Materials Chemistry and Physics, 2012, 135, 1115-1121.	2.0	19
15	UV-visible and near-infrared active NaGdF ₄ :Yb:Er/Ag/TiO ₂ nanocomposite for enhanced photocatalytic applications. RSC Advances, 2016, 6, 80655-80665.	1.7	18
16	WO ₃ /CoWO ₄ nanocomposite synthesis using a facile co-precipitation method for enhanced photocatalytic applications. Journal of Physics and Chemistry of Solids, 2021, 154, 110066.	1.9	18
17	Synthesis and characterization of monoclinic KGd(WO ₄) ₂ particles for non-cubic transparent ceramics. Optical Materials, 2013, 35, 753-756.	1.7	17
18	Effect of Erbium on the Photocatalytic Activity of TiO ₂ /Ag Nanocomposites under Visible Light Irradiation. ChemPhysChem, 2015, 16, 3084-3092.	1.0	16

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19	Investigation of structural and luminescent properties of Pr ³⁺ activated CsGd(WO ₄) ₂ by sol-gel synthesis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 762-767.	1.7	15
20	Fabrication of high-performance SiO ₂ @p-CuO/n-Si core-shell structure based photosensitive diode for photodetection application. <i>Surfaces and Interfaces</i> , 2020, 20, 100622.	1.5	15
21	Effect of dysprosium active ions on spectral properties of KGW single crystals. <i>Journal of Alloys and Compounds</i> , 2011, 509, 177-180.	2.8	14
22	Characterization of paramagnetic KHo(WO ₄) ₂ nanocrystals: Synthesized by polymeric mixed-metal precursor sol-gel method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9890-9896.	2.8	11
23	Structural, vibrational, morphological, optical and electrical properties of NiS and fabrication of SnS/NiS nanocomposite for photodetector applications. <i>Inorganic Chemistry Communication</i> , 2021, 133, 108882.	1.8	11
24	Growth of two-dimensional KGd(WO ₄) ₂ nanorods by modified sol-gel Pechini method. <i>Optical Materials</i> , 2010, 32, 1321-1324.	1.7	10
25	Multi-modal imaging of HeLa cells using a luminescent ZnS:Mn/NaGdF ₄ :Yb:Er nanocomposite with enhanced upconversion red emission. <i>RSC Advances</i> , 2016, 6, 33569-33579.	1.7	10
26	Growth, vibrational and luminescence analysis of monoclinic KGd(1-x)Prx(WO ₄) ₂ (x=0.005, 0.02, 0.05) single crystals. <i>Journal of Crystal Growth</i> , 2013, 362, 319-323.	0.7	9
27	Size controlled synthesis of silver sulfide nanostructures by multi-solvent thermal decomposition method. <i>Journal of Crystal Growth</i> , 2017, 468, 119-124.	0.7	9
28	Fabrication of strontium included hafnium oxide thin film based Al/Sr:HfO ₂ /n-Si MIS-Schottky barrier diodes for tuned electrical behavior. <i>New Journal of Chemistry</i> , 2021, 45, 19476-19486.	1.4	8
29	Fabrication and performance analysis of set standard natural dye-sensitized solar cell (N-DSSC) using extracted Terminalia kattapa (Red), Azadirachia indica (Green), and Clitoria ternatea (Blue) dyes with virgin Degussa p25 photo-anode. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 17331-17342.	1.1	8
30	Structural, Morphological, Vibrational, and Photoluminescence Study of Sol-Gel-Synthesized Tm ³⁺ :NaGd(WO ₄) ₂ Blue Phosphors. <i>Journal of Electronic Materials</i> , 2015, 44, 4199-4206.	1.0	7
31	Fabrication and Luminescence Characterization of a Silica Nanomatrix Embedded with NaYF ₄ :Yb:Er:Tm@NaGdF ₄ /Fe ₃ O ₄ Nanoparticles. <i>Journal of Electronic Materials</i> , 2018, 47, 4555-4560.	1.0	7
32	Development of Hybrid TiO ₂ /Paint Sludge Extracted Microbe Composite for Enhanced Photocatalytic Dye Degradation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2805-2813.	1.9	7
33	Facile synthesis and characterization of WO ₃ /CuWO ₄ nanocomposites for the removal of toxic methylene blue dye. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 952-965.	1.2	7
34	Embellishing 2-D MoS ₂ Nanosheets on Lotus Thread Devices for Enhanced Hydrophobicity and Antimicrobial Activity. <i>ACS Omega</i> , 2022, 7, 24606-24613.	1.6	7
35	Synthesis, structural and vibrational studies on mixed alkali metal gadolinium double tungstate, K _{1-x} Na _x Gd(WO ₄) ₂ . <i>Optical Materials</i> , 2013, 35, 735-739.	1.7	6
36	Fabrication of NiS decorated hollow SnS nano-belts based photodiode for enhanced optoelectronic applications. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	6

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37	Development of n-MoO ₃ @MoS ₂ /p-Si heterostructure diode using pre-synthesized core@shell nanocomposite for efficient light harvesting detector application. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106097.	1.9	6
38	<i>In situ</i> Growth of Phase-Controlled Nickel Sulfide Nanostructures on Reduced Graphene Oxide Nanosheets: A Improved Cost-Effective Catalyst for 4-Nitrophenol Reduction. <i>ChemistrySelect</i> , 2017, 2, 2187-2196.	0.7	5
39	Synthesis and emission characteristics of lead-free novel Cs ₄ SnBr ₆ /SiO ₂ nanocomposite. <i>Materials Letters</i> , 2020, 280, 128562.	1.3	5
40	Hydrothermal synthesis of self-assembled potassium-doped Graphene semiconducting nanoparticles for p-Si/n-Graphene junction diode applications. <i>Surfaces and Interfaces</i> , 2021, 26, 101408.	1.5	5
41	Fabrication of photoanodes using sol-gel synthesized Ag-doped TiO ₂ for enhanced DSSC efficiency. <i>Materials Today: Proceedings</i> , 2021, 37, 515-521.	0.9	4
42	Photothermally Active Upconversion Core-Shell NaGdF ₄ :Yb:Tm@Cu Nanostructures: Synthesis and Theranostic Properties. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800227.	1.2	3
43	Post-annealing effects on structural and magnetic properties of pulsed laser deposition grown Co-Ni-Al ferromagnetic shape memory alloys thin films. <i>Solid State Sciences</i> , 2021, 111, 106493.	1.5	3
44	Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108623.	1.8	3
45	Influence of In Doping on Physical Properties of Co-precipitation Synthesized CdO NPs and Fabrication of p-Si/n-CdIn ₂ O ₄ Junction Diodes for Enhanced Photodetection Applications. <i>Journal of Electronic Materials</i> , 2022, 51, 1759-1777.	1.0	3
46	Synthesis and Magnetic Characterization of Sol-Gel-Derived Submicrometer NaGd(WO ₄) ₂ . <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 876-883.	1.1	1
47	Top Seeded Solution Growth, Structural and Vibrational Analyses of K ^{1-x} Na ^x Gd(WO ₄) ₂ (0.0 ≤ x ≤ 0.2) Single Crystals. <i>Journal of Electronic Materials</i> , 2016, 45, 4460-4467.	1.0	1
48	Titanium dichalcogenide-decorated reduced graphene oxide nanocomposite for high-performance photovoltaic cell fabrication. <i>Journal of Materials Science: Materials in Electronics</i> , 0, 1.	1.1	1
49	Polymerized Complex Sol-Gel Synthesis, Structural and Optical Properties of Monoclinic Eu ³⁺ Doped KGd(WO ₄) ₂ Crystalline Red Phosphors. , 2011, , .		0
50	Synthesis structural and luminescence analysis of NaGd ^{1-x} Tb ^x (WO ₄) ₂ solid solution for white LED application. , 2013, , .		0
51	Synthesis and characterization of Eu ³⁺ :YAG nanopowder by precipitation method. , 2013, , .		0