

Vetha Potheher I

List of Publications by Year in descending order

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53
papers

1,290
citations

361296

20
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377752

34
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all docs

54
docs citations

54
times ranked

1199
citing authors

#	ARTICLE	IF	CITATIONS
1	Samarium hydroxide nanorolls anchored graphitic carbon nitride nanosheets: An active electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164541.	2.8	5
2	Green and sustainable preparation of flower-like ZnO nanostructures via soft bio-template approach for the enhancement of biomedical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	14
3	A comparative analysis on electrical and nonlinear optical properties of pure and Co&Ni co-doped SnO ₂ nanoparticles. <i>Optical Materials</i> , 2022, 130, 112546.	1.7	7
4	Facile synthesis of 2D Ni(OH) ₂ anchored g-C ₃ N ₄ as electrode material for high-performance supercapacitor. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108704.	1.8	12
5	Novel Nanostructured Nd(OH) ₃ /g-C ₃ N ₄ Nanocomposites (Nanorolls Anchored on Nanosheets) as Reliable Electrode Material for Supercapacitors. <i>Energy & Fuels</i> , 2021, 35, 15205-15212.	2.5	7
6	A study on the electrical, magnetic and optical limiting behaviour of Pure and Cd-Fe co-doped CuO NPs. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160332.	2.8	41
7	Sensitivity enhancement in rGO/Mn ₃ O ₄ hybrid nanocomposites: A modified glassy carbon electrode for the simultaneous detection of dopamine and uric acid. <i>Synthetic Metals</i> , 2021, 280, 116859.	2.1	8
8	2-Methyl-4-Nitroaniline Derived Novel Organic NLO crystal: Experimental and Theoretical Analysis. <i>Journal of Molecular Structure</i> , 2021, 1243, 130905.	1.8	5
9	Solvothermal synthesis of magnetically separable reduced graphene oxide/Fe ₃ O ₄ hybrid nanocomposites with enhanced photocatalytic properties. <i>Physica B: Condensed Matter</i> , 2020, 580, 411752.	1.3	37
10	A comparative analysis on the dye degradation efficiency of pure, Co, Ni and Mn-doped CuO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19043-19059.	1.1	32
11	Synthesis of flower-like copper oxide microstructure and its photocatalytic property. <i>Physica B: Condensed Matter</i> , 2019, 566, 96-102.	1.3	27
12	Synthesis of reduced graphene oxide/Co ₃ O ₄ nanocomposite electrode material for sensor application. <i>Research on Chemical Intermediates</i> , 2019, 45, 3033-3051.	1.3	9
13	Studies on optical, electrical, mechanical and theoretical investigation of 4-nitro-benzoic acid (3-ethoxy-2-hydroxy-benzylidene)-hydrazide: A novel Schiff base organic NLO material. <i>Journal of Molecular Structure</i> , 2019, 1181, 348-359.	1.8	15
14	Studies on structural and optical properties of pure and transition metals (Ni, Fe and co-doped Ni&Fe) doped tin oxide (SnO ₂) nanoparticles for anti-microbial activity. <i>Research on Chemical Intermediates</i> , 2019, 45, 1929-1941.	1.3	19
15	Studies on electrochemical properties of heterolite (ZnMn ₂ O ₄) nanostructure for supercapacitor application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 106, 121-126.	1.3	40
16	A comparative analysis on optical, photo luminescence and laser damage properties of conventional and uniaxial method grown semi organic nonlinear optical material "sodium potassium tartrate tetrahydrate. <i>Materials Research Innovations</i> , 2019, 23, 172-181.	1.0	0
17	Two step synthesis of ZnO/Ag and ZnO/Au core/shell nanocomposites: Structural, optical and electrical property analysis. <i>Journal of Alloys and Compounds</i> , 2018, 750, 171-181.	2.8	65
18	Studies on optical and electrical properties of green synthesized TiO ₂ @Ag core-shell nanocomposite material. <i>Materials Research Express</i> , 2018, 5, 045020.	0.8	13

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19	Equilibrium studies on removal of lead (II) ions from aqueous solution by adsorption using modified red mud. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 1687-1698.	1.8	32
20	Synthesis of ZnO nanorods by one step microwave-assisted hydrothermal route for electronic device applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2927-2938.	1.1	33
21	Characterization, antibacterial, anti-arthritis and in-vitro cytotoxic potentials of biosynthesized Magnesium Oxide nanomaterial. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 231, 121-127.	1.7	27
22	Synthesis, crystal growth, thermal and laser damage threshold properties of new Schiff base NLO material 4-Nitro-benzoic acid (3-ethoxy-2-hydroxy-benzylidene)-hydrazide. <i>Materials Letters</i> , 2018, 232, 113-117.	1.3	14
23	Green mediated synthesis of plasmonic nanoparticle (Ag) for antireflection coating in bare mono silicon solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12744-12753.	1.1	22
24	ZnO/Ni(OH) ₂ core-shell nanoparticles: Synthesis, optical, electrical and photoacoustic property analysis. <i>Journal of Alloys and Compounds</i> , 2017, 703, 624-632.	2.8	54
25	1-((4-methylpiperazin-1-yl)(phenyl)methyl)naphthalen-2-ol: A novel Mannich base organic NLO crystal for the analysis of electro-optic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 7802-7810.	1.1	6
26	A study on the L-lysine-iodic acid: semi organic non linear optical single crystals for electro-optic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5154-5164.	1.1	11
27	Synthesis of ZnO nanoparticles using leaf extract of <i>Tectona grandis</i> (L.) and their anti-bacterial, anti-arthritis, anti-oxidant and in vitro cytotoxicity activities. <i>New Journal of Chemistry</i> , 2017, 41, 10347-10356.	1.4	169
28	Synthesis, growth, physicochemical properties and DFT calculations of 2-naphthol substituted Mannich base 1-(morpholino(phenyl) methyl) naphthalen-2-ol: A non linear optical single crystal. <i>Journal of Molecular Structure</i> , 2017, 1147, 763-775.	1.8	9
29	Synthesis and characterization of Zinc Oxide nanoparticles using marine <i>Streptomyces</i> sp. with its investigations on anticancer and antibacterial activity. <i>Research on Chemical Intermediates</i> , 2017, 43, 2367-2376.	1.3	79
30	Synthesis, growth, optical and DFT calculation of 2-naphthol derived Mannich base organic non linear optical single crystal for frequency conversion applications. <i>Physica B: Condensed Matter</i> , 2016, 501, 45-56.	1.3	13
31	Growth, optical and electrical properties of L-lysine-L-tartaric acid (LLLT) nonlinear optical single crystals for electro-optic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12719-12728.	1.1	2
32	Synthesis, growth and characterization of (tri) glycine barium chloride single crystal for applications in the domain of optoelectronics and photonics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10113-10121.	1.1	12
33	A study on the synthesis and characterization of CoMn ₂ O ₄ electrode material for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 4653-4658.	1.1	49
34	Growth and characterization of amino based organic nonlinear optical L-lysine-L-Aspartate (LLA) single crystal for electro-optic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5006-5015.	1.1	24
35	A comparative analysis on growth and physicochemical properties of pure and impurity added NH ₄ SbF ₄ single crystals: a novel electro-optic material. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6419-6426.	1.1	4
36	Generation of 532 nm laser radiation and phase matching properties of organic nonlinear optical material. <i>Optik</i> , 2014, 125, 164-169.	1.4	31

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37	Growth, optical, thermal, and conductivity behavior of nonlinear optical single crystals of CdHg(SCN) ₄ (CH ₃ OC ₂ H ₅ O). Journal of Thermal Analysis and Calorimetry, 2013, 111, 1491-1497.	2.0	17
38	Synthesis, structural characterisation, bio-potential efficiency and DNA cleavage applications of nicotinamide metal complexes. Journal of Molecular Structure, 2013, 1040, 192-205.	1.8	16
39	Growth, thermal, and optical properties of l-asparagine monohydrate NLO single crystal. Journal of Thermal Analysis and Calorimetry, 2013, 114, 1153-1159.	2.0	31
40	Growth, thermal, dielectric and mechanical properties of L-phenylalanine- α -benzoic acid: A nonlinear optical single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 114, 19-26.	2.0	30
41	Growth and comparison of physicochemical properties of pure, Ca ²⁺ and Sr ²⁺ doped NH ₄ Sb ₃ F ₁₀ single crystals for electro optic applications. Optik, 2013, 124, 3618-3622.	1.4	2
42	Growth and physicochemical properties of l-phenylalaninium maleate: A novel nonlinear optical crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 95, 369-373.	2.0	17
43	Investigation on the optical and electrical properties of MMTG crystal: A Lewis base adduct. Physica B: Condensed Matter, 2011, 406, 3210-3214.	1.3	9
44	Growth and characterization of diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrrolidone (CMTWMP) single crystals. Journal of Crystal Growth, 2008, 310, 124-130.	0.7	13
45	Investigations on the nucleation kinetics of Tetrathiourea mercury(II) tetrathiocyanato zinc(II) single crystals. Materials Letters, 2008, 62, 4480-4482.	1.3	0
46	Growth and Optical Studies of a Novel Organometallic Complex NLO Crystal: Tetrathiourea Cadmium(II) Tetrathiocyanato Zinc(II). Materials and Manufacturing Processes, 2007, 22, 370-374.	2.7	19
47	Thermal, Optical, and Electrical Properties of Gel Grown ZMTC. Materials and Manufacturing Processes, 2007, 22, 351-356.	2.7	5
48	Growth and characterization of a new nonlinear optical l-histidine acetate single crystals. Optical Materials, 2007, 29, 1211-1216.	1.7	62
49	Growth, optical, dielectric and ESR studies on tetrathiourea mercury(II) tetrathiocyanato manganate(II): An organometallic complex NLO crystal. Journal of Physics and Chemistry of Solids, 2007, 68, 2370-2375.	1.9	25
50	Growth and characterization of organometallic nonlinear optical TMTM single crystals. Journal of Crystal Growth, 2007, 304, 435-440.	0.7	14
51	Growth and characterization of a novel NLO crystal bis-glycine hydrogen chloride (BGHC). Journal of Crystal Growth, 2006, 286, 440-444.	0.7	66
52	Optical, dielectric and photoconductivity studies of bis(dimethylsulfoxide) tetrathiocyanato-cadmium(II) mercury(II) NLO single crystals. Optical Materials, 2006, 28, 1187-1191.	1.7	17
53	Optical and electrical properties of pure and doped tin oxide nanoparticles. Particulate Science and Technology, 0, , 1-9.	1.1	0