Vetha Potheher I

List of Publications by Year
in descending order

53	1,290	361296	377752
papers	citations	20 h-index	34 g-index

54	54	54	1199
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of ZnO nanoparticles using leaf extract of Tectona grandis (L.) and their anti-bacterial, anti-arthritic, anti-oxidant and in vitro cytotoxicity activities. New Journal of Chemistry, 2017, 41, 10347-10356.	1.4	169
2	Synthesis and characterization of Zinc Oxide nanoparticles using marine Streptomyces sp. with its investigations on anticancer and antibacterial activity. Research on Chemical Intermediates, 2017, 43, 2367-2376.	1.3	79
3	Growth and characterization of a novel NLO crystal bis-glycine hydrogen chloride (BGHC). Journal of Crystal Growth, 2006, 286, 440-444.	0.7	66
4	Two step synthesis of ZnO/Ag and ZnO/Au core/shell nanocomposites: Structural, optical and electrical property analysis. Journal of Alloys and Compounds, 2018, 750, 171-181.	2.8	65
5	Growth and characterization of a new nonlinear optical l-histidine acetate single crystals. Optical Materials, 2007, 29, 1211-1216.	1.7	62
6	ZnO/Ni(OH)2 core-shell nanoparticles: Synthesis, optical, electrical and photoacoustic property analysis. Journal of Alloys and Compounds, 2017, 703, 624-632.	2.8	54
7	A study on the synthesis and characterization of CoMn2O4 electrode material for supercapacitor applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 4653-4658.	1.1	49
8	A study on the electrical, magnetic and optical limiting behaviour of Pure and Cd-Fe co-doped CuO NPs. Journal of Alloys and Compounds, 2021, 878, 160332.	2.8	41
9	Studies on electrochemical properties of hetarolite (ZnMn2O4) nanostructure for supercapacitor application. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 121-126.	1.3	40
10	Solvothermal synthesis of magnetically separable reduced graphene oxide/Fe3O4 hybrid nanocomposites with enhanced photocatalytic properties. Physica B: Condensed Matter, 2020, 580, 411752.	1.3	37
11	Synthesis of ZnO nanorods by one step microwave-assisted hydrothermal route for electronic device applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 2927-2938.	1.1	33
12	Equilibrium studies on removal of lead (II) ions from aqueous solution by adsorption using modified red mud. International Journal of Environmental Science and Technology, 2018, 15, 1687-1698.	1.8	32
13	A comparative analysis on the dye degradation efficiency of pure, Co, Ni and Mn-doped CuO nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 19043-19059.	1.1	32
14	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
15	Generation of 532 nm laser radiation and phase matching properties of organic nonlinear optical material. Optik, 2014, 125, 164-169.	1.4	31
16	Growth, thermal, dielectric and mechanical properties of L-phenylalanineâ€“benzoic acid: A nonlinear optical single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 114, 19-26.	2.0	30
17	Characterization, antibacterial, anti-arthritic and in-vitro cytotoxic potentials of biosynthesized Magnesium Oxide nanomaterial. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 231, 121-127.	1.7	27
18	Synthesis of flower-like copper oxide microstructure and its photocatalytic property. Physica B: Condensed Matter, 2019, 566, 96-102.	1.3	27

#	Article	IF	Citations
19	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
20	Growth and characterization of amino based organic nonlinear optical l-Lysine-l-Aspartate (LLA) single crystal for electo-optic applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 5006-5015.	1.1	24
21	Green mediated synthesis of plasmonic nanoparticle (Ag) for antireflection coating in bare mono silicon solar cell. Journal of Materials Science: Materials in Electronics, 2018, 29, 12744-12753.	1.1	22
22	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
23	Studies on structural and optical properties of pure and transition metals (Ni, Fe and co-doped Niâ€“Fe) doped tin oxide (SnO2) nanoparticles for anti-microbial activity. Research on Chemical Intermediates, 2019, 45, 1929-1941.	1.3	19
24	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
25	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
26	Growth, optical, thermal, and conductivity behavior of nonlinear optical single crystals of CdHg(SCN)4(CH3OC2H5O). Journal of Thermal Analysis and Calorimetry, 2013, 111, 1491-1497.	2.0	17
27	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
28	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. Journal of Molecular Structure, 2019, 1181, 348-359.	1.8	15
29	Growth and characterization of organometallic nonlinear optical TMTM single crystals. Journal of Crystal Growth, 2007, 304, 435-440.	0.7	14
30	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. Materials Letters, 2018, 232, 113-117.	1.3	14
31	Green and sustainable preparation of flower-like ZnO nanostructures via soft bio-template approach for the enhancement of biomedical applications. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	14
32	Growth and characterization of diaquatetrakis (thiocyanato) cobalt (II) mercury (II) N-methyl-2-pyrolidone (CMTWMP) single crystals. Journal of Crystal Growth, 2008, 310, 124-130.	0.7	13
33	Synthesis, growth, optical and DFT calculation of 2-naphthol derived Mannich base organic non linear optical single crystal for frequency conversion applications. Physica B: Condensed Matter, 2016, 501, 45-56.	1.3	13
34	Studies on optical and electrical properties of green synthesized TiO₂@Ag core-shell nanocomposite material. Materials Research Express, 2018, 5, 045020.	0.8	13
35	Synthesis, growth and characterization of (tri) glycine barium chloride single crystal for applications in the domain of optoelectronics and photonics. Journal of Materials Science: Materials in Electronics, 2016, 27, 10113-10121.	1.1	12
36	Facile synthesis of 2D Ni(OH)2 anchored g-C3N4 as electrode material for high-performance supercapacitor. Inorganic Chemistry Communication, 2021, 130, 108704.	1.8	12

#	Article	IF	Citations
37	A study on the l-lysine-iodic acid: semi organic non linear optical single crystals for electro-optic applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 5154-5164.	1.1	11
38	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
39	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. Journal of Molecular Structure, 2017, 1147, 763-775.	1.8	9
40	Synthesis of reduced graphene oxide/Co3O4 nanocomposite electrode material for sensor application. Research on Chemical Intermediates, 2019, 45, 3033-3051.	1.3	9
41	Sensitivity enhancement in rGO/Mn3O4 hybrid nanocomposites: A modified glassy carbon electrode for the simultaneous detection of dopamine and uric acid. Synthetic Metals, 2021, 280, 116859.	2.1	8
42	Novel Nanostructured Nd(OH)₃/g-C₃N₄ Nanocomposites (Nanorolls Anchored on Nanosheets) as Reliable Electrode Material for Supercapacitors. Energy & Fuels, 2021, 35, 15205-15212.	2.5	7
43	A comparative analysis on electrical and nonlinear optical properties of pure and Coâ€“Ni co-doped SnO2 nanoparticles. Optical Materials, 2022, 130, 112546.	1.7	7
44	1-((4-methylpiperazin-1-yl)(phenyl)methyl)naphthalen-2-ol: A novel Mannich base organic NLO crystal for the analysis of electro-optic applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 7802-7810.	1.1	6
45	Thermal, Optical, and Electrical Properties of Gel Grown ZMTC. Materials and Manufacturing Processes, 2007, 22, 351-356.	2.7	5
46	2-Methyl-4-Nitroaniline Derived Novel Organic NLO crystal: Experimental and Theoretical Analysis. Journal of Molecular Structure, 2021, 1243, 130905.	1.8	5
47	Samarium hydroxide nanorolls anchored graphitic carbon nitride nanosheets: An active electrode material for supercapacitors. Journal of Alloys and Compounds, 2022, 908, 164541.	2.8	5
48	A comparative analysis on growth and physicochemical properties of pure and impurity added NH4SbF4 single crystals: a novel electro-optic material. Journal of Materials Science: Materials in Electronics, 2015, 26, 6419-6426.	1.1	4
49	Growth and comparison of physicochemical properties of pure, Ca2+ and Sr2+ doped NH4Sb3F10 single crystals for electro optic applications. Optik, 2013, 124, 3618-3622.	1.4	2
50	Growth, optical and electrical properties of l-lysine-L-tartaric acid (LLLT) nonlinear optical single crystals for electro-optic applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 12719-12728.	1.1	2
51	Investigations on the nucleation kinetics of Tetrathiourea mercury(II) tetrathiocyanato zinc(II) single crystals. Materials Letters, 2008, 62, 4480-4482.	1.3	0
52	A comparative analysis on optical, photo luminescence and laser damage properties of conventional and uniaxial method grown semi organic nonlinear optical material â€“ sodium potassium tartrate tetrahydrate. Materials Research Innovations, 2019, 23, 172-181.	1.0	0
53	Optical and electrical properties of pure and doped tin oxide nanoparticles. Particulate Science and Technology, 0, , 1-9.	1.1	0