

Venkatesan Rangarajan

List of Publications by Year
in descending order

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75
papers

1,488
citations

394421

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361022

35
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76
all docs

76
docs citations

76
times ranked

1820
citing authors

#	ARTICLE	IF	CITATIONS
1	The Si ₃ N ₄ /MoS ₂ hetero-structure as an effective polysulfide regulator for high-performance lithium-sulfur battery. <i>Applied Materials Today</i> , 2021, 22, 100916.	4.3	11
2	One-pot hydrothermal synthesis of nitrogen-doped reduced graphene oxide for the highly sensitive and simultaneous determination of dihydroxy benzene isomers. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1189.	2.9	10
3	Improving the capacity, redox activities of Li-ion batteries through Si ₃ N ₄ @MoS ₂ hetero-structure design. <i>Journal of Materials Science</i> , 2021, 56, 18592-18607.	3.7	0
4	Electrochemical performance evaluation of carbon nitride synthesized at different temperatures as an anode material for lithium-ion batteries. <i>Ionics</i> , 2020, 26, 3863-3873.	2.4	9
5	MoS ₂ mediated nitrogen enriched composite material for high and fast Li-ion storage. <i>Applied Surface Science</i> , 2020, 525, 146437.	6.1	12
6	Identification of novel inhibitors of signal transducer and activator of transcription 3 over signal transducer and activator of transcription 1 for the treatment of breast cancer by in-silico and in-vitro approach. <i>Process Biochemistry</i> , 2019, 82, 153-166.	3.7	9
7	MoS ₂ anchored carbon nitride based mesoporous material as a polysulfide barrier for high capacity lithium-sulfur battery. <i>Journal of Electroanalytical Chemistry</i> , 2019, 843, 37-46.	3.8	22
8	Layer-by-layer assembled gold nanoparticles/lower-generation (Gn ³) polyamidoamine dendrimers-grafted reduced graphene oxide nanohybrids with 3D fractal architecture for fast, ultra-trace, and label-free electrochemical gene nanobiosensors. <i>Biosensors and Bioelectronics</i> , 2018, 120, 55-63.	10.1	24
9	Layer-by-Layer-Assembled AuNPs-Decorated First-Generation Poly(amidoamine) Dendrimer with Reduced Graphene Oxide Core as Highly Sensitive Biosensing Platform with Controllable 3D Nanoarchitecture for Rapid Voltammetric Analysis of Ultratrace DNA Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21541-21555.	8.0	36
10	Graphene oxide supported copper oxide nanoneedles: An efficient hybrid material for removal of toxic azo dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 166, 49-55.	3.9	34
11	Third order optical nonlinear studies and its use to estimate thickness of sandwiched films of tetra-phenyl porphyrin derivatives. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2016, 25, 1650039.	1.8	17
12	Study of spatial rings in TPPOH ₄ doped in boric acid glass. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 73, 012023.	0.6	1
13	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11329-11340.	2.8	96
14	Synthesis, Magnetic and Surface Properties of Reduced Graphene Oxide Supported Nickel Oxide Hybrid Nanomaterials. <i>Advanced Materials Research</i> , 2014, 938, 91-96.	0.3	0
15	Efficient degradation of azo dyes using Ag and Au nanoparticles stabilized on graphene oxide functionalized with PAMAM dendrimers. <i>New Journal of Chemistry</i> , 2014, 38, 1551.	2.8	103
16	Study of Electronic and Magnetic Properties of Nitrogen Doped Graphene Oxide. <i>Advanced Materials Research</i> , 2014, 938, 97-102.	0.3	1
17	Facile synthesis of highly stable BF ₃ -induced meso-tetrakis (4-sulfonato phenyl) porphyrin (TPPS ₄)-J-aggregates: structure, photophysical and electrochemical properties. <i>New Journal of Chemistry</i> , 2013, 37, 3745.	2.8	11
18	Graphene-PAMAM Dendrimer-Gold Nanoparticle Composite for Electrochemical DNA Hybridization Detection. <i>Methods in Molecular Biology</i> , 2013, 1039, 201-219.	0.9	9

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19	Synthesis and structural, spectroscopic and nonlinear optical measurements of graphene oxide and its composites with metal and metal free porphyrins. Journal of Materials Chemistry, 2012, 22, 3059.	6.7	156
20	Enhanced Stokes shift of S ₂ S ₀ emission and structural investigations of Sn(IV)Porphyrins doped hybrid borate glasses. Journal of Alloys and Compounds, 2012, 513, 318-323.	5.5	9
21	Encapsulation of silver nanoparticles into graphite grafted with hyperbranched poly(amidoamine) dendrimer and their catalytic activity towards reduction of nitro aromatics. Journal of Molecular Catalysis A, 2012, 359, 88-96.	4.8	78
22	Spectroscopic and dielectric studies of meso-tetrakis(p-sulfonatophenyl) porphyrin doped hybrid borate glasses. Journal of Alloys and Compounds, 2011, 509, 2797-2803.	5.5	11
23	Optical and luminescence investigations of hydroxy substituted porphyrins in borate glasses. Solid State Sciences, 2011, 13, 616-624.	3.2	20
24	Porphyrin based hybrid borate glasses: Structure and photophysical investigation. Materials Chemistry and Physics, 2011, 125, 729-738.	4.0	9
25	Environment effect on the optical and photophysical investigation of Al(III)Porphyrins doped hybrid borate glasses. Materials Chemistry and Physics, 2011, 130, 134-139.	4.0	4
26	Optical and photophysical investigation of Meso, Proto and Hematoporphyrin(IX)dimethylester doped hybrid borate glasses. Physica B: Condensed Matter, 2011, 406, 556-561.	2.7	2
27	Nonlinear optical properties of graphene- (OH, Sn) porphyrin composites in picosecond regime. , 2011, , .		7
28	Nonlinear optical properties of covalently linked graphene-metal porphyrin composite materials. Applied Physics Letters, 2011, 98, .	3.3	109
29	2,2'-Bipyridyl based copper complexes down regulate expression of pro-inflammatory cytokines and suppress MAPKs in mitogen induced Peripheral blood mononuclear cells. European Journal of Medicinal Chemistry, 2010, 45, 2141-2146.	5.5	15
30	Features of the local structural disorder in Li ₂ O-CaF ₂ -P ₂ O ₅ glass-ceramics with Cr ₂ O ₃ as nucleating agent. Physica B: Condensed Matter, 2008, 403, 702-710.	2.7	20
31	Induced crystallization and physical properties of Li ₂ O-CaF ₂ -P ₂ O ₅ :TiO ₂ glass system. Journal of Alloys and Compounds, 2008, 450, 486-493.	5.5	42
32	Induced crystallization and physical properties of Li ₂ O-CaF ₂ -P ₂ O ₅ :TiO ₂ glass system. Journal of Alloys and Compounds, 2008, 450, 477-485.	5.5	36
33	Single-crystal EPR studies of a perchlorate-bridged dimeric copper(II) complex with 2-[(4-methyl-pyridin-2-ylimino)-methyl]-phenol. Physica Status Solidi (B): Basic Research, 2007, 244, 3789-3800.	1.5	0
34	Synthesis, characterization and in vitro biological activity studies of Cu-M (M=Cu ²⁺ , Co ²⁺ , Ni ²⁺ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.5	32
35	Synthesis, physico-chemical and DNA interaction studies of homo- and hetero-trinuclear complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 64, 178-187.	3.9	6
36	Spectroscopic and electrochemical studies of hetero-bimetallic copper complexes with Schiff's base ligand. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 64, 823-829.	3.9	3

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37	Single crystal EPR study of VO(II) in magnesium potassium phosphate hexahydrate: a case of two substitutional vanadyl ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2482-2487.	3.9	15
38	EPR of vanadyl impurity in zinc ammonium trihydrogen bis(orthophosphate) monohydrate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 153-156.	3.9	18
39	Identification of static JT in copper(II) doped hexaimidazole M(II) lattices: M=Co and Ni: An EPR study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 494-499.	3.9	3
40	Observation of three sites for vanadyl in a biomineral, zinc sodium phosphate hexahydrate: an EPR investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 15-20.	4.0	8
41	Single crystal EPR investigation on Mn(II) doped biomineral: cobalt potassium phosphate hexahydrate. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 876-881.	4.0	8
42	Effect of Jahn-Teller ion in zinc sodium sulphate hexahydrate: a case of low hyperfine coupling constant for Cu(II) ion. <i>Radiation Effects and Defects in Solids</i> , 2005, 160, 225-235.	1.2	8
43	Single crystal EPR studies of Mn(II) doped into zinc ammonium phosphate hexahydrate (ZnNH ₄ PO ₄ ·6H ₂ O): A case of interstitial site for bio-mineral analogue. <i>Pramana - Journal of Physics</i> , 2004, 62, 77-86.	1.8	12
44	Synthesis, spectral, electrochemical and magnetic properties of new asymmetric dicopper(II) complexes bearing chemically distinct coordination sites. <i>Transition Metal Chemistry</i> , 2004, 29, 623-629.	1.4	17
45	Interstitial substitutions of vanadyl ions doped in single crystals of hexaimidazole cobalt sulphate: An EPR study. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3014-3021.	1.5	5
46	Effect of lattice defects in divalent lattices by incorporating trivalent ions in biominerals: An EPR study of Cr(III) in zinc(II) potassium phosphate hexahydrate. <i>Crystal Research and Technology</i> , 2004, 39, 78-84.	1.3	2
47	Identification of crystal symmetry in Kramers and non-Kramers ions by optical absorption: Divalent copper and nickel ions in diamagnetic lattices. <i>Crystal Research and Technology</i> , 2004, 39, 448-453.	1.3	8
48	Single crystal EPR study of Cu ²⁺ in cobalt ammonium phosphate hexahydrate: a case of low hyperfine coupling constant and measurement of spin-lattice relaxation times. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 2653-2660.	3.9	21
49	Single crystal EPR studies of paramagnetic ions doped zinc potassium phosphate hexahydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 2661-2666.	3.9	10
50	Synthesis and characterization of [Cu ₂ (L) ₂ (OCOCH ₃)(OCH ₃)]ClO ₄ {L=2-[(4-methyl-pyridin-2-ylimino)-methyl]-phenol}: EPR and X-ray studies. <i>Polyhedron</i> , 2004, 23, 1115-1123.	2.2	15
51	New unsymmetrical 1/4-phenoxo bridged binuclear copper(II) complexes. <i>Transition Metal Chemistry</i> , 2003, 28, 447-454.	1.4	14
52	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 644-649.	1.4	8
53	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 280-287.	1.4	6
54	Magnetic, catalytic, EPR and electrochemical studies on binuclear copper(II) complexes derived from 3,4-disubstituted phenol. <i>Journal of Chemical Sciences</i> , 2003, 115, 1-14.	1.5	34

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55	Synthesis and room temperature single crystal EPR studies of a dinickel complex having an $\text{Ni}_2(\text{1/4-phenoxide})_2^{2+}$ unit supported by a macrocyclic ligand environment $[\text{Ni}_2(\text{L})_2(\text{OCIO}_3)_2]$ $[\text{L} = 2-[(4\text{-methyl-pyridin-2-ylimino)-methyl}]\text{-phenol}]$. Journal of Chemical Sciences, 2003, 115, 91-102.	1.5	19
56	Variable temperature EPR study for confirming dynamic Jahn-Teller distortion in Cu(II) doped zinc ammonium phosphate hexahydrate. Journal of Physics and Chemistry of Solids, 2003, 64, 1139-1146.	4.0	16
57	Dynamical Jahn-Teller distortion in single crystals of Cu(II) doped magnesium potassium phosphate hexahydrate: a variable temperature EPR study. Solid State Communications, 2003, 126, 285-289.	1.9	8
58	Single crystal EPR studies of Cu(II) doped in cadmium sodium sulphate hexahydrate: a case of low hyperfine coupling constant. Solid State Communications, 2003, 128, 137-142.	1.9	26
59	Electron paramagnetic resonance of vanadyl ions in cadmium sodium phosphate hexahydrate single crystals: two locations for VO(II). Journal of Physics and Chemistry of Solids, 2003, 64, 1231-1236.	4.0	15
60	Single crystal EPR studies of Mn(II) doped zinc sodium sulphate hexahydrate: a case of interstitial substitution. Journal of Physics and Chemistry of Solids, 2003, 64, 2329-2335.	4.0	10
61	Identification of VO(II) at Substitutional and Interstitial Locations in Magnesium Ammonium Phosphate Hexahydrate: A Single Crystal EPR Study. Physica Scripta, 2003, 67, 153-156.	2.5	15
62	Single Crystal EPR Study of Mn(II)-Doped Biomineral: Cadmium Ammonium Phosphate Hexahydrate. Physica Scripta, 2002, 66, 183-186.	2.5	4
63	Host Lattice Effect on Paramagnetic Impurity: Single Crystal EPR Study of VO(II)-Doped Biomineral Cadmium Ammonium Phosphate Hexahydrate. Crystal Research and Technology, 2002, 37, 841.	1.3	8
64	Crystal Structure of Dimeric Cu(II) Complex $\{\text{1/4,1/4'-acetato O,O bis [N-salicylidene-2-amino-pyridine-methanolato N,N,O]}\}$: perchlorate. Crystal Research and Technology, 2002, 37, 1018-1028.	1.3	1
65	Single crystal EPR study of VO(II)-doped cadmium potassium phosphate hexahydrate: A substitutional incorporation. Journal of Chemical Sciences, 2002, 114, 473-479.	1.5	18
66	Single crystal EPR of studies Ni(II) in hexaimidazole zinc(II)dichloride tetrahydrate: a case of rhombic distortion. Solid State Communications, 2002, 122, 15-19.	1.9	16
67	Title is missing!. Transition Metal Chemistry, 2002, 27, 512-519.	1.4	9
68	Synthesis and physiochemical studies on binuclear Cu(II) complexes derived from 2,6-[(N-phenylpiperazin-1-yl)methyl]-4-substituted phenols. Journal of Chemical Sciences, 2001, 113, 245-256.	1.5	4
69	Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrate-Part I: Cu(II)-a case of orthorhombic symmetry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2781-2787.	3.9	26
70	Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrate-Part II: VO(II)-a case of substitutional site. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2789-2794.	3.9	21
71	Spectral Studies on VO ²⁺ doped MPPH Crystals. Crystal Research and Technology, 2000, 35, 1203-1207.	1.3	18
72	Single crystal EPR study of VO(II)-doped magnesium potassium Tutton's salt - Part 4. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 2617-2625.	3.9	32

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73	Exogenous bridging and nonbridging in Cu(II) complexes of Mannich base ligands: Synthesis and physical properties. Journal of Chemical Sciences, 2000, 112, 559-572.	1.5	14
74	Preparation and properties of a triply bridged antiferromagnetically coupled binuclear copper(II) complex $[\text{Cu}_2\text{L}(\text{OAc})_2]\text{ClO}_4$ {L=2,6-bis[(N-methyl piperazin-1-yl) methyl]-4-bromo phenol}. Polyhedron, 1999, 18, 3085-3091.	2.2	24
75	Synthesis of a new binucleating ligand and its binuclear Cu(II) complex: X-ray crystal structure, spectral and electrochemical properties. Polyhedron, 1998, 17, 3427-3432.	2.2	7