

# Venkatesan Rangarajan

List of Publications by Year  
in descending order

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75  
papers

1,488  
citations

394421

19  
h-index

361022

35  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1820  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Nonlinear optical properties of covalently linked graphene-metal porphyrin composite materials. Applied Physics Letters, 2011, 98, .	3.3	109
3	Efficient degradation of azo dyes using Ag and Au nanoparticles stabilized on graphene oxide functionalized with PAMAM dendrimers. New Journal of Chemistry, 2014, 38, 1551.	2.8	103
4	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. Physical Chemistry Chemical Physics, 2015, 17, 11329-11340.	2.8	96
5	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
6	Induced crystallization and physical properties of $\text{Li}_2\text{O}-\text{CaF}_2-\text{P}_2\text{O}_5:\text{TiO}_2$ glass system. Journal of Alloys and Compounds, 2008, 450, 486-493.	5.5	42
7	Induced crystallization and physical properties of $\text{Li}_2\text{O}-\text{CaF}_2-\text{P}_2\text{O}_5:\text{TiO}_2$ glass system. Journal of Alloys and Compounds, 2008, 450, 477-485.	5.5	36
8	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. ACS Applied Materials & Interfaces, 2018, 10, 21541-21555.	8.0	36
9	Magnetic, catalytic, EPR and electrochemical studies on binuclear copper(II) complexes derived from 3,4-disubstituted phenol. Journal of Chemical Sciences, 2003, 115, 1-14.	1.5	34
10	Graphene oxide supported copper oxide nanoneedles: An efficient hybrid material for removal of toxic azo dyes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 166, 49-55.	3.9	34
11	Single crystal EPR study of VO(II)-doped magnesium potassium Tuttonâ€™s salt â€” Part 4. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 2617-2625.	3.9	32
12	Synthesis, characterization and in vitro biological activity studies of $\text{Cu}^{\text{II}}-\text{M}$ ( $\text{M}=\text{Cu}^{2+}, \text{Co}^{2+}, \text{Ni}^{2+},$ ) Tj ETQqO O O rgBT /Overlock 10 Tf 5	8.5	32
13	Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrateâ€”Part I: $\text{Cu}(\text{II})$ â€”a case of orthorhombic symmetry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2781-2787.	3.9	26
14	Single crystal EPR studies of $\text{Cu}(\text{II})$ doped in cadmium sodium sulphate hexahydrate: a case of low hyperfine coupling constant. Solid State Communications, 2003, 128, 137-142.	1.9	26
15	Preparation and properties of a triply bridged antiferromagnetically coupled binuclear copper(II) complex $[\text{Cu}_2\text{L}(\text{OAc})_2]\text{ClO}_4$ $\{\text{L}=2,6\text{-bis}[(\text{N-methyl piperazin-1-yl}) \text{methyl}]-4\text{-bromo phenol}\}$ . Polyhedron, 1999, 18, 3085-3091.	2.2	24
16	Layer-by-layer assembled gold nanoparticles/lower-generation ( $\text{Gn}\approx 3$ ) polyamidoamine dendrimers-grafted reduced graphene oxide nanohybrids with 3D fractal architecture for fast, ultra-trace, and label-free electrochemical gene nanobiosensors. Biosensors and Bioelectronics, 2018, 120, 55-63.	10.1	24
17	$\text{MoS}_2$ anchored carbon nitride based mesoporous material as a polysulfide barrier for high capacity lithium-sulfur battery. Journal of Electroanalytical Chemistry, 2019, 843, 37-46.	3.8	22
18	Single crystal EPR and optical studies of paramagnetic ions doped zinc potassium phosphate hexahydrateâ€”Part II: VO(II)â€”a case of substitutional site. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2789-2794.	3.9	21

#	ARTICLE	IF	CITATIONS
19	Single crystal EPR study of Cu <sup>2+</sup> 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
20	Features of the local structural disorder in Li <sub>2</sub> O-CaF <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glass-ceramics with Cr <sub>2</sub> O <sub>3</sub> as nucleating agent. <i>Physica B: Condensed Matter</i> , 2008, 403, 702-710.	2.7	20
21	Optical and luminescence investigations of hydroxy substituted porphyrins in borate glasses. <i>Solid State Sciences</i> , 2011, 13, 616-624.	3.2	20
22	Synthesis and room temperature single crystal EPR studies of a dinickel complex having an Ni <sub>2</sub> ( $\mu$ -4-phenoxide) <sub>2</sub> 2+ unit supported by a macrocyclic ligand environment [Ni <sub>2</sub> (L) <sub>2</sub> (OCIO <sub>3</sub> ) <sub>2</sub> ] [L = 2-[(4-methyl-pyridin-2-ylimino)-methyl]-phenol]. <i>Journal of Chemical Sciences</i> , 2003, 115, 91-102.	1.5	19
23	Spectral Studies on VO <sup>2+</sup> doped MPPH Crystals. <i>Crystal Research and Technology</i> , 2000, 35, 1203-1207.	1.3	18
24	Single crystal EPR study of VO(II)-doped cadmium potassium phosphate hexahydrate: A substitutional incorporation. <i>Journal of Chemical Sciences</i> , 2002, 114, 473-479.	1.5	18
25	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
26	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
27	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
28	Single crystal EPR of studies Ni(II) in hexaimidazole zinc(II)dichloride tetrahydrate: a case of rhombic distortion. <i>Solid State Communications</i> , 2002, 122, 15-19.	1.9	16
29	Variable temperature EPR study for confirming dynamic Jahn-Teller distortion in Cu(II) doped zinc ammonium phosphate hexahydrate. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1139-1146.	4.0	16
30	Electron paramagnetic resonance of vanadyl ions in cadmium sodium phosphate hexahydrate single crystals: two locations for VO(II). <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1231-1236.	4.0	15
31	Identification of VO(II) at Substitutional and Interstitial Locations in Magnesium Ammonium Phosphate Hexahydrate: A Single Crystal EPR Study. <i>Physica Scripta</i> , 2003, 67, 153-156.	2.5	15
32	Synthesis and characterization of [Cu <sub>2</sub> (L) <sub>2</sub> (OCOCH <sub>3</sub> )(OCH <sub>3</sub> )]ClO <sub>4</sub> {L=2-[(4-methyl-pyridin-2-ylimino)-methyl]-phenol}: EPR and X-ray studies. <i>Polyhedron</i> , 2004, 23, 1115-1123.	2.2	15
33	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
34	2,2'-Bipyridyl based copper complexes down regulate expression of pro-inflammatory cytokines and suppress MAPKs in mitogen induced Peripheral blood mononuclear cells. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 2141-2146.	5.5	15
35	Exogenous bridging and nonbridging in Cu(II) complexes of Mannich base ligands: Synthesis and physical properties. <i>Journal of Chemical Sciences</i> , 2000, 112, 559-572.	1.5	14
36	New unsymmetrical $\mu$ -4-phenoxo bridged binuclear copper(II) complexes. <i>Transition Metal Chemistry</i> , 2003, 28, 447-454.	1.4	14

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37	Single crystal EPR studies of Mn(II) doped into zinc ammonium phosphate hexahydrate (ZnNH <sub>4</sub> PO <sub>4</sub> ·6H <sub>2</sub> O): A case of interstitial site for bio-mineral analogue. <i>Pramana - Journal of Physics</i> , 2004, 62, 77-86.	1.8	12
38	MoS <sub>2</sub> mediated nitrogen enriched composite material for high and fast Li-ion storage. <i>Applied Surface Science</i> , 2020, 525, 146437.	6.1	12
39	Spectroscopic and dielectric studies of meso-tetrakis(p-sulfonatophenyl) porphyrin doped hybrid borate glasses. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2797-2803.	5.5	11
40	Facile synthesis of highly stable BF <sub>3</sub> -induced meso-tetrakis (4-sulfonato phenyl) porphyrin (TPPS <sub>4</sub> )-J-aggregates: structure, photophysical and electrochemical properties. <i>New Journal of Chemistry</i> , 2013, 37, 3745.	2.8	11
41	The Si <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> hetero-structure as an effective polysulfide regulator for high-performance lithium-sulfur battery. <i>Applied Materials Today</i> , 2021, 22, 100916.	4.3	11
42	Single crystal EPR studies of Mn(II) doped zinc sodium sulphate hexahydrate: a case of interstitial substitution. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 2329-2335.	4.0	10
43	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
44	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
45	Title is missing!. <i>Transition Metal Chemistry</i> , 2002, 27, 512-519.	1.4	9
46	Porphyrin based hybrid borate glasses: Structure and photophysical investigation. <i>Materials Chemistry and Physics</i> , 2011, 125, 729-738.	4.0	9
47	Enhanced Stokes shift of S <sub>2</sub> →S <sub>0</sub> emission and structural investigations of Sn(IV)Porphyrins doped hybrid borate glasses. <i>Journal of Alloys and Compounds</i> , 2012, 513, 318-323.	5.5	9
48	Graphene-PAMAM Dendrimer-Gold Nanoparticle Composite for Electrochemical DNA Hybridization Detection. <i>Methods in Molecular Biology</i> , 2013, 1039, 201-219.	0.9	9
49	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
50	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
51	Host Lattice Effect on Paramagnetic Impurity: Single Crystal EPR Study of VO(II)-Doped Biomineral Cadmium Ammonium Phosphate Hexahydrate. <i>Crystal Research and Technology</i> , 2002, 37, 841.	1.3	8
52	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 644-649.	1.4	8
53	Dynamical Jahn-Teller distortion in single crystals of Cu(II) doped magnesium potassium phosphate hexahydrate: a variable temperature EPR study. <i>Solid State Communications</i> , 2003, 126, 285-289.	1.9	8
54	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

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55	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
56	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
57	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
58	Synthesis of a new binucleating ligand and its binuclear Cu(II) complex: X-ray crystal structure, spectral and electrochemical properties. <i>Polyhedron</i> , 1998, 17, 3427-3432.	2.2	7
59	Nonlinear optical properties of graphene- (OH, Sn) porphyrin composites in picosecond regime. , 2011, , .		7
60	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 280-287.	1.4	6
61	Synthesis, physico-chemical and DNA interaction studies of homo- and hetero-trinuclear complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 178-187.	3.9	6
62	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
63	Synthesis and physiochemical studies on binuclear Cu(II) complexes derived from 2,6-[(N-phenylpiperazin-1-yl)methyl]-4-substituted phenols. <i>Journal of Chemical Sciences</i> , 2001, 113, 245-256.	1.5	4
64	Single Crystal EPR Study of Mn(II)-Doped Biomineral: Cadmium Ammonium Phosphate Hexahydrate. <i>Physica Scripta</i> , 2002, 66, 183-186.	2.5	4
65	Environment effect on the optical and photophysical investigation of Al(III)Porphyrins doped hybrid borate glasses. <i>Materials Chemistry and Physics</i> , 2011, 130, 134-139.	4.0	4
66	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
67	Spectroscopic and electrochemical studies of hetero-bimetallic copper complexes with Schiff's base ligand. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 823-829.	3.9	3
68	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
69	Optical and photophysical investigation of Meso, Proto and Hematoporphyrin(IX)dimethylester doped hybrid borate glasses. <i>Physica B: Condensed Matter</i> , 2011, 406, 556-561.	2.7	2
70	Crystal Structure of Dimeric Cu(II) Complex $\{[\frac{1}{4}, \frac{1}{4}']\text{-acetato O,O bis [N-salicylidene-2-amino-pyridine-methanolato N,N,O]}\}$ : perchlorate. <i>Crystal Research and Technology</i> , 2002, 37, 1018-1028.	1.3	1
71	Study of Electronic and Magnetic Properties of Nitrogen Doped Graphene Oxide. <i>Advanced Materials Research</i> , 2014, 938, 97-102.	0.3	1
72	Study of spatial rings in TPPOH4 doped in boric acid glass. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 73, 012023.	0.6	1

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73	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
74	Synthesis, Magnetic and Surface Properties of Reduced Graphene Oxide Supported Nickel Oxide Hybrid Nanomaterials. Advanced Materials Research, 2014, 938, 91-96.	0.3	0
75	Improving the capacity, redox activities of Li-ion batteries through Si <sub>3</sub> N <sub>4</sub> @MoS <sub>2</sub> hetero-structure design. Journal of Materials Science, 2021, 56, 18592-18607.	3.7	0