Rajamani Nagarajan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Polyaminocarboxylate promoted synthesis of Hafnium/ Zirconium substituted anion excess In2O3: Structure, optical and electrical conductivity properties. Ceramics International, 2022, 48, 6707-6715.	4.8	5
2	Boosting defects through divalent ion substitution to tailor the optical, textural, catalytic, and photocatalytic properties of Th4+-stabilized δ-Bi2O3. Materials Science in Semiconductor Processing, 2022, 141, 106441.	4.0	1
3	Tuning the thiophilicity of Pr6O11 (PrO1.833) through Pb-substitution to append efficient adsorption characteristics. Applied Surface Science, 2022, 591, 153111.	6.1	3
4	Chemical pressure-induced structural, optical, and magnetic property transformations of PrAlO3. Ceramics International, 2022, , .	4.8	0
5	Microstructural changes caused by Ba and Pr doping in nanosized Bi ₂ Ce ₂ O ₇ leading to interesting optical, magnetic, and catalytic properties. CrystEngComm, 2021, 23, 986-999.	2.6	1
6	KLa _(0.95â^²x) Gd _x F ₄ :Eu ³⁺ hexagonal phase nanoparticles as luminescent probes for <i>in vitro</i> Huh-7 cancer cell imaging. Dalton Transactions, 2021, 50, 5197-5207.	3.3	3
7	Microspherical core-shell MoO2-graphitic C3N4 heterojunction promoted integration leading to Kröhnke pyridines and degradation of xylenol orange. Materials Today Communications, 2021, 26, 102117.	1.9	5
8	Oxygen ion conductivity studies of bismuth and bismuth-calcium co-doped ThO2. Ceramics International, 2021, 47, 21498-21508.	4.8	2
9	Iron substitution in PrAlO3 perovskite leading to structural transformation and multiferroicity. Ceramics International, 2021, 47, 22957-22964.	4.8	2
10	Morphology controlled green synthesis of photoluminescent LaPO4: Ce3+-Tb3+ nanorods. Chemical Physics Letters, 2021, 776, 138704.	2.6	3
11	Anatase Nanocrystals Covalently Functionalized with EDTA-diol: Interaction with Aromatic Sulfur. Langmuir, 2021, 37, 11142-11152.	3.5	0
12	Spin glass behavior and oxidative catalytic property of Zn2MnO4 from a metathesis driven metastable precursor. Journal of Physics and Chemistry of Solids, 2021, 157, 110206.	4.0	3
13	Enhanced surface adsorption of Congo red dye by the metastable α-LiAlO2 over LiAl2(OH)7â‹2H2O. Solid State Sciences, 2021, 120, 106724.	3.2	4
14	Visible light photocatalysis promoted by homogenously doped (non-metals) anatase from a chelated titanium precursor. Materials Science in Semiconductor Processing, 2021, 134, 106039.	4.0	3
15	Optical, electrical, and catalytic (photo-and sono-) properties of indium doped Î ³ -Bi2O3 with Sillenite structure. Journal of Alloys and Compounds, 2021, 887, 161466.	5.5	5
16	Ordered LiGa5O8 loaded with redox capable Cu2+, Cr3+ ions to manifest interesting optical, magnetic, and catalytic properties. Journal of Materials Science, 2021, 56, 20111.	3.7	4
17	Highly ordered polyaniline: synthesis, characterization and electrochemical properties. Polymer Bulletin, 2020, 77, 3277-3286.	3.3	10
18	Luminescence properties of Eu ³⁺ ―and Tb ³⁺ â€doped <i>î´</i> â€Bi ₂ O ₃ stabilized by Th ⁴⁺ substitution. Journal of the American Ceramic Society, 2020, 103, 1027-1036.	3.8	6

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19	Polyol intercalation in copper substituted zinc hydroxide acetate and evaluation of its adsorptive role towards Congo red dye. Applied Clay Science, 2020, 185, 105411.	5.2	8
20	Facile synthesis of α-Zn2V2O7 and its catalytic role for the photo mediated conversion of benzyl alcohol. Materials Letters, 2020, 280, 128559.	2.6	6
21	Black TiO2-graphitic carbon nanocomposite from a single source precursor and its interaction with colored and colorless contaminants under visible radiation. Materials Research Bulletin, 2020, 132, 110983.	5.2	4
22	Effect of trivalent ions containing layered hydroxide acetate on the thermal stability and flame retardancy of poly (methyl methacrylate) composite. AIP Conference Proceedings, 2020, , .	0.4	0
23	Magnetic and photocatalytic properties of nano-sized sulfur-doped trirutile oxide, CuSb2O6. Materials Science in Semiconductor Processing, 2020, 119, 105226.	4.0	7
24	Role of the solvent medium in the wet-chemical synthesis of CuSbS2, Cu3SbS3, and bismuth substituted Cu3SbS3. Journal of Chemical Sciences, 2020, 132, 1.	1.5	4
25	The emergence of bifunctional catalytic properties by the introduction of Bi ³⁺ in defect fluorite-structured PrO _{1.833} . Dalton Transactions, 2020, 49, 12707-12715.	3.3	6
26	Energy Upconversion in Rareâ€Earthâ€Doped Tinâ€Based Double Halo Perovskites, A 2 SnCl 6 (A = K, Rb, and) 1	[j ETQq0 0 2:0	0 rgBT /Over
27	Consequences of Bi3+ introduction for Pr3+ in PrAlO3. Journal of Materials Science, 2020, 55, 15415-15425.	3.7	4
28	Modulating the optical and magnetic properties of geometrically frustrated ZnV ₂ O ₄ by the introduction of indium (nonmagnetic ions), iron, and chromium (magnetic ions). Dalton Transactions, 2020, 49, 15810-15820.	3.3	6
29	Strong structural phase sensitive rare-earth photoluminescence color flips in KLaF ₄ :RE ³⁺ (RE ³⁺ = Eu ³⁺ ,) Tj ETQq1 1 0.784314 rgBT /Ov	verloacts 10	Tf 5 ւ թ337 Td
30	Optical property evaluation of thoria doped with heavier rareâ€earth oxides LnO _{1.5} (Ln =) Tj ETQq Ceramic Society, 2019, 102, 1832-1842.	0 0 0 rgBT 3.8	⁻ /Overlock 10 6
31	Thorium doped and thorium-carbon co doped metastable β-Bi2O3. Solid State Sciences, 2019, 95, 105938.	3.2	10
32	Catalytic applications of mesoporous CaBi2O4 obtained from a single source precursor. Research on Chemical Intermediates, 2019, 45, 2457-2470.	2.7	3
33	Correlating oxide ion conductivity with ionic size of dopant and defect structures in ThO2-LnO1.5 (Ln =†Y, La and Gd) prepared by modified epoxide gel method. Solid State Ionics, 2019, 329, 67-73.	2.7	3
34	Color-Tunable Upconversion in Er ³⁺ /Yb ³⁺ -Codoped KLaF ₄ Nanophosphors by Incorporation of Tm ³⁺ Ions for Biological Applications. ACS Omega, 2019, 4, 2275-2282.	3.5	17
35	Enhancement in Photocatalytic Activity of SrTiO ₃ byÂTailoring Particle Size and Defects. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900294.	1.8	17
	Rapid and One-Step Transformation of LiAlH4 to Inorganic and Organic Anion Intercalated Li-Al		

Rapid and One-Step Transformation of LiAlH4 to Inorganic and Organic Anion Intercalated Li-Al Layered Double Hydroxides. European Journal of Inorganic Chemistry, 2019, 2019, 2412-2418.

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37	Luminescent properties of K2SbF5: Ln (Ln = Eu3+, Tb3+, Er3+) obtained by a facile room temperature mechanochemical synthesis. Journal of Luminescence, 2019, 210, 392-396.	3.1	9
38	Consequences of lead incorporation in fluorite structured thoria. Ceramics International, 2019, 45, 11709-11716.	4.8	5
39	Implications of including a magnetic ion (Cr3+ and Fe3+) at the vanadium site in a geometrically frustrated spinel MgV2O4: magnetic and catalytic properties. Dalton Transactions, 2019, 48, 16661-16670.	3.3	7
40	Influencing Optical and Magnetic Properties of NiCr2O4 by the Incorporation of Fe(III) for Cr(III) For Cr(III) Following Epoxide Gel Synthesis. Journal of Electronic Materials, 2019, 48, 1139-1146.	2.2	3
41	Fine tuning bifunctional properties of Y0.5Gd0.5BO3 by doping with Ce3+ and co-doping with Li+,Ca2+ and Al3+ following an epoxide mediated gel approach. Materials Today Chemistry, 2018, 7, 15-24.	3.5	6
42	Mechanochemical transformation of ZnO2 to highly defective ZnO. Materials Letters, 2018, 212, 178-181.	2.6	9
43	Emergence of defect fluorite structure in nanoâ€sized thoria through doping with some divalent transitionâ€metal ions. Journal of the American Ceramic Society, 2018, 101, 562-568.	3.8	4
44	Metastable Bi ₂ Zr ₂ O ₇ with Pyrochlore-like Structure: Stabilization, Oxygen Ion Conductivity, and Catalytic Properties. Inorganic Chemistry, 2018, 57, 13667-13678.	4.0	46
45	Double Perovskite K3 InF6 as an Upconversion Phosphor and Its Structural Transformation Through Rubidium Substitution. European Journal of Inorganic Chemistry, 2018, 2018, 4826-4833.	2.0	7
46	Interplay between Defects and Cation Nonstoichiometry in Lithium-Substituted CdGa ₂ O ₄ Leading to Multifunctional Behavior. Journal of Physical Chemistry C, 2018, 122, 22094-22105.	3.1	7
47	Efficient Use of a Polyamine Carboxylate Ligand to Probe the Extent of Incorporation of Stereochemically Active Bi ³⁺ in ThO ₂ . ChemistrySelect, 2018, 3, 5005-5012.	1.5	3
48	Critical role of annealing atmosphere on solid solution formation between PrO2-Î′ and ThO2. Solid State Sciences, 2018, 84, 1-7.	3.2	3
49	Evaluation of solid solution formation between ThO2 and δ-Bi2O3 by molecular precursor route. Materials Research Bulletin, 2018, 107, 66-73.	5.2	8
50	Catalytic Application of Oxygen Vacancies Induced by Bi ³⁺ Incorporation in ThO ₂ Samples Obtained by Solution Combustion Synthesis. ACS Omega, 2018, 3, 7171-7181.	3.5	26
51	Site preference for luminescent activator ions in doped fluoroperovskite RbZnF3. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 201, 339-345.	3.9	4
52	Correlating the Influence of Two Magnetic Ions at the A-Site with the Electronic, Magnetic, and Catalytic Properties in Gd _{1–<i>x</i>} Dy _{<i>x</i>} CrO ₃ . ACS Omega, 2017, 2, 2657-2664.	3.5	16
53	Wet-chemical synthesis, structural characterization and optical properties of rare-earth doped halo perovskite K 3 GaF 6. Journal of Fluorine Chemistry, 2017, 200, 1-7.	1.7	16
54	Ammonium fluoride mediated mechano chemical synthesis of A2PdF6 (A = K, Rb) along with their catalytic role in environmental remediation. Journal of Environmental Chemical Engineering, 2017, 5, 5460-5468.	6.7	5

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55	Fabrication and Microhardness Analysis of MWCNT/MnO2 Nanocomposite. Journal of Materials, 2016, 2016, 1-10.	0.1	9
56	Rapid Synthesis of Mesoporous, Nano‣ized MgCr ₂ O ₄ and Its Catalytic Properties. Journal of the American Ceramic Society, 2016, 99, 814-818.	3.8	25
57	Sol–Gel Synthesis of High-Purity Actinide Oxide ThO ₂ and Its Solid Solutions with Technologically Important Tin and Zinc Ions. Inorganic Chemistry, 2016, 55, 12798-12806.	4.0	24
58	A smart switchable module for the detection of multiple ions via turn-on dual-optical readout and their cell imaging studies. Dalton Transactions, 2016, 45, 8272-8277.	3.3	8
59	Magnetically separable, bifunctional catalyst MgFe2O4 obtained by epoxide mediated synthesis. Advanced Powder Technology, 2016, 27, 1251-1256.	4.1	20
60	An ethylene glycol intercalated monometallic layered double hydroxide based on iron as an efficient bifunctional catalyst. Dalton Transactions, 2016, 45, 17508-17520.	3.3	17
61	Effect of uniaxial pressure on the Raman spectra of fluoro perovskites containing manganese with sodium or potassium. Spectroscopy Letters, 2016, 49, 444-446.	1.0	0
62	Determination of solubility limit of Sn4+in fluorite structured terbia with simultaneous evaluation of photocatalytic function. Dalton Transactions, 2016, 45, 11191-11197.	3.3	1
63	Facile synthesis and optical properties of pure and Ni ²⁺ , Co ²⁺ , Bi ³⁺ , Sb ³⁺ substituted Cu ₃ SnS ₄ . RSC Advances, 2015, 5, 43202-43208.	3.6	17
64	A sequential logic gate-based "smart probe―for selective monitoring of Cu ²⁺ , Fe ³⁺ and CN ^{â^'} /F ^{â^'} via differential analyses. Dalton Transactions, 2015, 44, 19786-19790.	3.3	15
65	Topochemical Oxidation of Perovskite KCoF ₃ to a K ₂ PtCl ₆ Structure-Type Oxyfluoride. Inorganic Chemistry, 2015, 54, 10105-10107.	4.0	7
66	A light/pH/multiple ion-driven smart switchable module for computing sequential logic operations via a resettable dual-optical readout. Journal of Materials Chemistry C, 2015, 3, 12123-12129.	5.5	15
67	Reducing Strength Prevailing at Root Surface of Plants Promotes Reduction of Ag+ and Generation of Ag0/Ag2O Nanoparticles Exogenously in Aqueous Phase. PLoS ONE, 2014, 9, e106715.	2.5	26
68	Soft chemical synthesis of Ag 3 SbS 3 with efficient and recyclable visible light photocatalytic properties. Materials Research Bulletin, 2014, 60, 872-875.	5.2	15
69	Anion (Fluoride)-Doped Ceria Nanocrystals: Synthesis, Characterization, and Its Catalytic Application to Oxidative Coupling of Benzylamines. Inorganic Chemistry, 2014, 53, 2030-2039.	4.0	55
70	A simple one pot synthesis of cubic Cu5FeS4. RSC Advances, 2014, 4, 52633-52636.	3.6	15
71	Root system of live plants is a powerful resource for the green synthesis of Au-nanoparticles. RSC Advances, 2014, 4, 7361.	3.6	20
72	Mechanochemical synthesis of layered perovskite structured fluorides A2MF4 (A=K, Rb; M=Co, Cu, Mg) and their transformation to AMF3 phase by mechanical activation. Journal of Fluorine Chemistry, 2014, 165, 43-48.	1.7	4

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73	Novel Fluorite Structured Superparamagnetic RbGdF4 Nanocrystals as Versatile Upconversion Host. Inorganic Chemistry, 2014, 53, 10257-10265.	4.0	15
74	Wurtzite CuInS2: solution based one pot direct synthesis and its doping studies with non-magnetic Ga3+ and magnetic Fe3+ ions. RSC Advances, 2013, 3, 18863.	3.6	28
75	Optical properties of Tb3+ doped KLaF4 in cubic and hexagonal symmetries. Optical Materials, 2013, 36, 396-401.	3.6	23
76	Raman Spectroscopic Analysis of Perovskite-Structured Alkali Metal Fluorides Containing Nickel and Copper Ions. Spectroscopy Letters, 2012, 45, 237-239.	1.0	2
77	Hexagonally Ordered KLaF ₄ Host: Phase-Controlled Synthesis and Luminescence Studies. Inorganic Chemistry, 2012, 51, 12748-12754.	4.0	46
78	Electrophoretically fabricated core-shell CNT-DNA biowires for biosensing. Journal of Materials Chemistry, 2012, 22, 2727-2732.	6.7	12
79	Application of KZnF ₃ as a Single Source Precursor for the Synthesis of Nanocrystals of ZnO ₂ :F and ZnO:F; Synthesis, Characterization, Optical, and Photocatalytic Properties. Journal of Physical Chemistry C, 2011, 115, 10131-10139.	3.1	27
80	Optical and Photocatalytic Properties of Heavily F [–] -Doped SnO ₂ Nanocrystals by a Novel Single-Source Precursor Approach. Inorganic Chemistry, 2011, 50, 5637-5645.	4.0	130
81	Zirconia grafted carbon nanotubes based biosensor for <i>M. Tuberculosis</i> detection. Applied Physics Letters, 2011, 99, .	3.3	41
82	Synthesis of Cu _{1.8} S and CuS from Copper-Thiourea Containing Precursors; Anionic (Cl ^{â^'} , NO ₃ ^{â^'} , SO ₄ ^{2â^'}) Influence on the Product Stoichiometry. Inorganic Chemistry, 2011, 50, 3065-3070.	4.0	118
83	Synthesis of high surface area transitional alumina from Al(OPh)3. Journal of Sol-Gel Science and Technology, 2011, 57, 12-15.	2.4	6
84	Synthesis and optical characterization of strong red light emitting KLaF4:Eu3+ nanophosphors. Chemical Physics Letters, 2011, 508, 117-120.	2.6	68
85	Effect of phenyl group on the structure and formation of transitional alumina from Al (OPh)3. Journal of Sol-Gel Science and Technology, 2010, 53, 293-299.	2.4	9
86	KLaF4:Er an efficient upconversion phosphor. Optical Materials, 2010, 33, 42-47.	3.6	38
87	Room temperature optical absorption and intrinsic photoluminescence in KZnF3. Chemical Physics Letters, 2010, 494, 284-286.	2.6	12
88	Reactivity of Copper(I) Halides CuCl, CuI with Double Alkoxides <i>M</i> Al(<i>i</i> OPr) ₄ (<i>M</i> = Na, K). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 2394-2397.	1.2	2
89	Zirconia based nucleic acid sensor for <i>Mycobacterium tuberculosis</i> detection. Applied Physics Letters, 2010, 96, .	3.3	70
90	Synthesis of CuAl2(acac)4(OiPr)4, its hydrolysis and formation of bulk CuAl2O4 from the hydrolyzed gels; a case study of molecules to materials. Dalton Transactions, 2010, 39, 6056.	3.3	19

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91	Comments on "Visible-Light-Induced Photocatalyst Based on Nickel Titanate Nanoparticles― Industrial & Engineering Chemistry Research, 2010, 49, 1995-1996.	3.7	6
92	Synthesis of nanocrystalline mixed metal fluorides in nonaqueous medium. Bulletin of Materials Science, 2009, 32, 583-587.	1.7	14