

Vithal Muga

List of Publications by Year in descending order

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51
papers

1,116
citations

623734

14
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	A wide-ranging review on Nasicon type materials. <i>Journal of Materials Science</i> , 2011, 46, 2821-2837.	3.7	418
2	Structural, Optical, and Magnetic Properties of Nanocrystalline Co Doped SnO ₂ Based Diluted Magnetic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3543-3552.	3.1	114
3	Defect pyrochlore oxides: as photocatalyst materials for environmental and energy applications –a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1937-1948.	3.2	63
4	Biosynthesis of CMC-Guar gum-AgO nanocomposites for inactivation of food pathogenic microbes and its effect on the shelf life of strawberries. <i>Carbohydrate Polymers</i> , 2020, 236, 116053.	10.2	57
5	Synthesis of Cu ²⁺ and Ag ⁺ doped Na ₂ Ti ₃ O ₇ by a facile ion-exchange method as visible-light-driven photocatalysts. <i>Ceramics International</i> , 2013, 39, 8429-8439.	4.8	40
6	Transition (Mn, Fe) and rare earth (La, Pr) metal doped ceria solid solutions for high performance photocatalysis: Effect of metal doping on catalytic activity. <i>Research on Chemical Intermediates</i> , 2018, 44, 2523-2543.	2.7	34
7	Dielectric relaxation in NBT-ST ceramic composite materials. <i>Ionics</i> , 2013, 19, 1751-1760.	2.4	25
8	Photocatalytic degradation of methylene blue on nitrogen doped layered perovskites, CsM ₂ Nb ₃ O ₁₀ (M=Ba and Sr). <i>Ceramics International</i> , 2015, 41, 2869-2875.	4.8	23
9	Luminescence (M=Mn ²⁺ , Cu ²⁺) and ESR (M=Gd ³⁺ , Mn ²⁺ , Cu ²⁺) of Na ₂ Zn ₂ P ₂ O ₇ : M. <i>Physica B: Condensed Matter</i> , 2012, 407, 2094-2099.	2.7	20
10	Synthesis, characterization, photocatalytic and conductivity studies of defect pyrochlore KMO.33Te1.67O ₆ (M=Al, Cr and Fe). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 198, 1-9.	3.5	20
11	Preparation, characterization and photocatalytic studies of N, Sn-doped defect pyrochlore oxide KTi _{0.5} W _{1.5} O ₆ . <i>Journal of Alloys and Compounds</i> , 2015, 618, 815-823.	5.5	20
12	Nanostructured KTaTeO ₆ and Ag-doped KTaTeO ₆ Defect Pyrochlores: Promising Photocatalysts for Dye Degradation and Water Splitting. <i>Electronic Materials Letters</i> , 2018, 14, 446-460.	2.2	20
13	Effect of simultaneous double doping in Ba and Ti sites on dielectric and ferroelectric properties of sol-gel synthesized nano-BaTiO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1855-1864.	2.2	17
14	Preparation, optical, and photocatalytic studies of defect pyrochlores: KCr _{0.33} W _{1.67} O ₆ and A _x Cr _{0.33} W _{1.67} O ₆ ·nH ₂ O. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	16
15	Preparation, characterization, emission (Eu ³⁺), and electron spin resonance (Gd ³⁺) studies of Y _{2-x} Ln _x Ti ₂ O ₇ (Ln=Eu and Gd, x=0.0,0.05). <i>Journal of Applied Physics</i> , 2010, 108, 044906.	2.5	14
16	New photocatalyst for allylic aliphatic C-H bond activation and degradation of organic pollutants: Schiff base Ti(IV) complexes. <i>RSC Advances</i> , 2015, 5, 58504-58513.	3.6	14
17	Preparation, characterization and conductivity studies of Li _{3-2x} Al _{2+x} Sb _x (PO ₄) ₃ . <i>Bulletin of Materials Science</i> , 2008, 31, 133-138.	1.7	12
18	Title is missing!. <i>Journal of Materials Science Letters</i> , 1999, 18, 1771-1773.	0.5	11

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19	Antimony potassium tartrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1321-1327.	3.6	11
20	Aurivillius family of layered perovskites, BiREWO ₆ (RE = La, Pr, Gd, and Dy): Synthesis, characterization, and photocatalytic studies. <i>Comptes Rendus Chimie</i> , 2018, 21, 547-552.	0.5	11
21	Solid-State Syntheses of Rare-Earth Doped Sr _{1-x} Ln _{2x/3} MgP ₂ O ₇ (Ln = Gd, Eu, Dy, Sm, Pr, and Nd; x = 0.05) by Metathesis Reactions and their Spectroscopic Characterization. <i>Spectroscopy Letters</i> , 2011, 44, 258-266.	1.0	10
22	Nanostructured Titania-Supported Ceria-Samarium Solid Solutions: Structural Characterization and CO Oxidation Activity. <i>Catalysis Letters</i> , 2017, 147, 2028-2044.	2.6	10
23	Low temperature synthesis of fluorite-type Ce-based oxides of composition $\text{Ln}_2\text{Ce}_2\text{O}_7$ ($\text{Ln} = \text{Pr}, \text{Nd}$ and Eu): photodegradation and Luminescence studies. <i>Journal of Chemical Sciences</i> , 2017, 129, 1193-1203.	1.5	9
24	Effect of Simultaneous Substitution of Sm and Pr Ions on Dielectric and Ferroelectric Properties of Strontium Bismuth Titanate. <i>Ferroelectrics</i> , 2013, 445, 121-135.	0.6	8
25	Fabrication and Visible-light induced Photocatalytic Activity of NaNbO ₃ -Oriented Composite Photocatalyst Coupled with N-NaNbO ₃ and V-NaNbO ₃ . <i>ChemistrySelect</i> , 2016, 1, 2783-2791.	1.5	8
26	Tailoring the luminescence and photocatalytic activity of KMnO ₄ (PO ₄) ₃ by Anions (N ³⁻ and S ²⁻) doping. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2746-2759.	3.2	8
27	Fabrication of Novel Ag/AgBr/Cs ₂ Nb ₄ O ₁₁ Ternary Composite for Visible-Light Driven Photocatalysis. <i>Catalysis Letters</i> , 2019, 149, 2332-2346.	2.6	8
28	Effect of Simultaneous Doping of Pr and Sm on Electrical Conductivity and Relaxation Process in BLSF-SrBi ₄ Ti ₄ O ₁₅ . <i>Ferroelectrics</i> , 2015, 474, 83-98.	0.6	7
29	Preparation, characterization and photocatalytic studies of Cu ²⁺ , Sn ²⁺ and N ³⁻ substituted K ₅ Sb ₅ P ₂ O ₂₀ . <i>Journal of Chemical Sciences</i> , 2016, 128, 663-670.	1.5	7
30	Carbon nanospheres supported visible-light-driven ZnSb ₂ O ₆ : synthesis, characterization and photocatalytic degradation studies. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	7
31	Effect of Partial Replacement of Bi on Electrical Properties of Layer Structured Strontium Bismuth Titanate. <i>Ferroelectrics</i> , 2005, 324, 145-151.	0.6	6
32	Photocatalytic degradation of organic dyes with Sn ²⁺ - and Ag ⁺ -substituted K ₃ Nb ₃ WO ₉ (PO ₄) ₂ under visible light irradiation. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 224-234.	2.4	6
33	Enhanced photoactivity of antimony phosphates by substitution of H ⁺ , Cu ²⁺ and N ³⁻ in the K ₃ Sb ₃ P ₂ O ₁₄ ·xH ₂ O crystal lattice. <i>Research on Chemical Intermediates</i> , 2016, 42, 5765-5777.	2.7	6
34	Degradation of Methylene Blue and Rhodamine B Using a New Visible Light-Responsive Photocatalyst, K ₅ Sb ₅ P ₂ O ₂₀ ·x N y. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 335-343.	2.9	6
35	Photocatalytic and Conductivity Studies of Bi ³⁺ -Substituted La ₂ Zr ₂ O ₇ . <i>International Journal of Green Nanotechnology</i> , 2012, 4, 360-367.	0.3	5
36	Characterization, conductivity and photocatalytic studies of AHfM(PO ₄) ₃ (A = Na and Ag; M = Ti and Zr) powders synthesized by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 507-518.	2.4	5

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37	Enhanced photoactivity in nitrogen-doped KM _{0.33} W _{1.67} O ₆ (M = Al and Cr). <i>Micro and Nano Letters</i> , 2014, 9, 11-15.	1.3	5
38	Photocatalytic Performance of Nitrogen-Doped and Cu ²⁺ and Ag ⁺ Co-Doped Sodium Trititanate. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 700-710.	2.1	5
39	Enhanced Photocatalytic Activity of N-doped Li ₂ VPO ₆ Under Visible Light Irradiation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 216-222.	2.9	5
40	Preparation, characterization and conductivity studies of a Nasicon system Ag _{3-2x} TaxAl _{2x} (PO ₄) ₃ (x = 0.6-1.4). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3454-3462.	1.8	4
41	Cation- and Anion-Substituted Potassium Manganese Phosphate, K _{1-x} N _{3-x} O ₉ : Luminescence and Photocatalytic Studies. <i>Photochemistry and Photobiology</i> , 2017, 93, 569-578.	2.5	4
42	Electrical Impedance Characterization of Bi Doped BaTiO ₃ Prepared through Chemical Route. <i>Integrated Ferroelectrics</i> , 2010, 116, 151-160.	0.7	3
43	Preparation, Characterization, Photocatalytic Activity and Conductivity Studies of YLnTi ₂ O ₇ (Ln = Nd, Sm, Eu and Gd). <i>Transactions of the Indian Ceramic Society</i> , 2013, 72, 241-251.	1.0	3
44	Ag ₂ VO ₂ PO ₄ Nanorods: Synthesis, Characterization, Photoactivity and Antibacterial activity. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2022, 648, .	1.2	3
45	Preparation and characterization studies of metaborates, Cu ¹⁺ x M x B ₂ O ₄ (M = Ni, Co and Mn; x = 0, 0.1) <i>Tj ETQq1 1 0.784314 rg</i>	1.7	2
46	Synthesis, characterisation and photocatalytic activity of Ag ⁺ and Sn ²⁺ -substituted KSbTeO ₆ . <i>Chemical Papers</i> , 2015, 69, .	2.2	2
47	Low Temperature Sol-Gel Synthesis of Bulk and Nano-sized NbTi(PO ₄) ₃ . <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010, 40, 883-887.	0.6	1
48	Relaxation in BaBi _x Ti _(1-x) O ₃ -Disordered Dielectric Composite Materials. <i>Ferroelectrics</i> , 2014, 460, 162-172.	0.6	1
49	Synthesis and Catalytic Performance of Na ₂ HfM(PO ₄) ₃ and Ag _{2x} NaxHfM(PO ₄) ₃ (M = Fe and Al and 0.07) <i>Tj ETQq1 1 0.784314 rg</i>	0.6	1
50	Ion exchange synthesis of Ag ⁺ incorporated LiAlO ₂ and its application in photodegradation of organic dyes. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	1
51	Synthesis and Dielectric Properties of Novel BaBi _x Ti _{1-x} O ₃ -Ceramics. <i>Ferroelectrics</i> , 2011, 413, 357-370.	0.6	0