

# 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	Ag <sub>2</sub> VO <sub>4</sub> Nanorods: Synthesis, Characterization, Photoactivity and Antibacterial activity. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2022, 648, .	1.2	3
2	Biosynthesis of CMC-Guar gum-Ag <sub>0</sub> nanocomposites for inactivation of food pathogenic microbes and its effect on the shelf life of strawberries. Carbohydrate Polymers, 2020, 236, 116053.	10.2	57
3	Carbon nanospheres supported visible-light-driven ZnSb <sub>2</sub> O <sub>6</sub> : synthesis, characterization and photocatalytic degradation studies. SN Applied Sciences, 2019, 1, 1.	2.9	7
4	Ion exchange synthesis of Ag <sup>+</sup> incorporated LiAlO <sub>2</sub> and its application in photodegradation of organic dyes. SN Applied Sciences, 2019, 1, 1.	2.9	1
5	Fabrication of Novel Ag/AgBr/Cs <sub>2</sub> Nb <sub>4</sub> O <sub>11</sub> Ternary Composite for Visible-Light Driven Photocatalysis. Catalysis Letters, 2019, 149, 2332-2346.	2.6	8
6	Nanostructured KTaTeO <sub>6</sub> and Ag-doped KTaTeO <sub>6</sub> Defect Pyrochlores: Promising Photocatalysts for Dye Degradation and Water Splitting. Electronic Materials Letters, 2018, 14, 446-460.	2.2	20
7	Aurivillius family of layered perovskites, BiREWO <sub>6</sub> (RE = La, Pr, Gd, and Dy): Synthesis, characterization, and photocatalytic studies. Comptes Rendus Chimie, 2018, 21, 547-552.	0.5	11
8	Transition (Mn, Fe) and rare earth (La, Pr) metal doped ceria solid solutions for high performance photocatalysis: Effect of metal doping on catalytic activity. Research on Chemical Intermediates, 2018, 44, 2523-2543.	2.7	34
9	Tailoring the luminescence and photocatalytic activity of KMn <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> by Anions (N <sup>3-</sup> and S <sup>2-</sup> ) doping. Journal of Chemical Technology and Biotechnology, 2017, 92, 2746-2759.	3.2	8
10	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 $\text{Eu}$ ): photodegradation and Luminescence studies. Journal of Chemical Sciences, 2017, 129, 1193-1203.	1.5	9
11	Nanostructured Titania-Supported Ceria-Samarium Solid Solutions: Structural Characterization and CO Oxidation Activity. Catalysis Letters, 2017, 147, 2028-2044.	2.6	10
12	Cation- and Anion-Substituted Potassium Manganese Phosphate, $\text{KMn}_3\text{O}_9$ : Luminescence and Photocatalytic Studies. Photochemistry and Photobiology, 2017, 93, 569-578.	2.5	4
13	Fabrication and Visible-light induced Photocatalytic Activity of NaNbO <sub>3</sub> -Oriented Composite Photocatalyst Coupled with N-NaNbO <sub>3</sub> and V-NaNbO <sub>3</sub> . ChemistrySelect, 2016, 1, 2783-2791.	1.5	8
14	Enhanced photoactivity of antimony phosphates by substitution of H <sup>+</sup> , Cu <sup>2+</sup> and N <sup>3-</sup> in the K <sub>3</sub> Sb <sub>3</sub> P <sub>2</sub> O <sub>14</sub> ·xH <sub>2</sub> O crystal lattice. Research on Chemical Intermediates, 2016, 42, 5765-5777.	2.7	6
15	Degradation of Methylene Blue and Rhodamine B Using a New Visible Light-Responsive Photocatalyst, K <sub>2</sub> Sb <sub>2</sub> PO <sub>8</sub> ·xN <sub>y</sub> . Acta Metallurgica Sinica (English Letters), 2016, 29, 335-343.	2.9	6
16	Preparation, characterization and photocatalytic studies of Cu <sup>2+</sup> , Sn <sup>2+</sup> and N <sup>3-</sup> substituted K <sub>5</sub> Sb <sub>5</sub> P <sub>2</sub> O <sub>20</sub> . Journal of Chemical Sciences, 2016, 128, 663-670.	1.5	7
17	Defect pyrochlore oxides: as photocatalyst materials for environmental and energy applications - a review. Journal of Chemical Technology and Biotechnology, 2015, 90, 1937-1948.	3.2	63
18	Synthesis and Catalytic Performance of Na <sub>2</sub> HfM(PO <sub>4</sub> ) <sub>3</sub> and Ag <sub>2</sub> ·xNa <sub>x</sub> HfM(PO <sub>4</sub> ) <sub>3</sub> (M = Fe and Al and 0.07) Tj ETQq0 0 0 rgBT /Overlo 730-739.	0.6	1

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19	Effect of Simultaneous Doping of Pr and Sm on Electrical Conductivity and Relaxation Process in BLSF-SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> . <i>Ferroelectrics</i> , 2015, 474, 83-98.	0.6	7
20	New photocatalyst for allylic aliphatic C-H bond activation and degradation of organic pollutants: Schiff base Ti( $\text{scp}$ ) complexes. <i>RSC Advances</i> , 2015, 5, 58504-58513.	3.6	14
21	Synthesis, characterisation and photocatalytic activity of Ag <sup>+</sup> - and Sn <sup>2+</sup> -substituted KSbTeO <sub>6</sub> . <i>Chemical Papers</i> , 2015, 69, .	2.2	2
22	Synthesis, characterization, photocatalytic and conductivity studies of defect pyrochlore KM <sub>0.33</sub> Te <sub>1.67</sub> O <sub>6</sub> (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
23	Photocatalytic degradation of organic dyes with Sn <sup>2+</sup> - and Ag <sup>+</sup> -substituted K <sub>3</sub> Nb <sub>3</sub> WO <sub>9</sub> (PO <sub>4</sub> ) <sub>2</sub> under visible light irradiation. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 224-234.	2.4	6
24	Photocatalytic Performance of Nitrogen-Doped and Cu <sup>2+</sup> and Ag <sup>+</sup> Co-Doped Sodium Triticantate. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 700-710.	2.1	5
25	Enhanced Photocatalytic Activity of N-doped Li <sub>2</sub> VPO <sub>6</sub> Under Visible Light Irradiation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 216-222.	2.9	5
26	Photocatalytic degradation of methylene blue on nitrogen doped layered perovskites, CsM <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> (M=Ba and Sr). <i>Ceramics International</i> , 2015, 41, 2869-2875.	4.8	23
27	Preparation, characterization and photocatalytic studies of N, Sn-doped defect pyrochlore oxide KTi <sub>0.5</sub> W <sub>1.5</sub> O <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , 2015, 618, 815-823.	5.5	20
28	Relaxation in BaBi <sub>x</sub> Ti <sub>(1-x)</sub> O <sub>3</sub> Disordered Dielectric Composite Materials. <i>Ferroelectrics</i> , 2014, 460, 162-172.	0.6	1
29	Antimony potassium tartrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1321-1327.	3.6	11
30	Enhanced photoactivity in nitrogen-doped KM <sub>0.33</sub> W <sub>1.67</sub> O <sub>6</sub> (M = Al and Cr). <i>Micro and Nano Letters</i> , 2014, 9, 11-15.	1.3	5
31	Synthesis of Cu <sup>2+</sup> and Ag <sup>+</sup> doped Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> by a facile ion-exchange method as visible-light-driven photocatalysts. <i>Ceramics International</i> , 2013, 39, 8429-8439.	4.8	40
32	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
33	Dielectric relaxation in NBT-ST ceramic composite materials. <i>Ionics</i> , 2013, 19, 1751-1760.	2.4	25
34	Characterization, conductivity and photocatalytic studies of AHfM(PO <sub>4</sub> ) <sub>3</sub> (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
35	Preparation, optical, and photocatalytic studies of defect pyrochlores: KCr <sub>0.33</sub> W <sub>1.67</sub> O <sub>6</sub> and A <sub>x</sub> Cr <sub>0.33</sub> W <sub>1.67</sub> O <sub>6</sub> ·nH <sub>2</sub> O. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	16
36	Preparation, Characterization, Photocatalytic Activity and Conductivity Studies of YLn <sub>2</sub> O <sub>7</sub> (Ln = Nd, Sm, Eu and Gd). <i>Transactions of the Indian Ceramic Society</i> , 2013, 72, 241-251.	1.0	3

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37	Photocatalytic and Conductivity Studies of Bi <sup>3+</sup> Substituted La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> . International Journal of Green Nanotechnology, 2012, 4, 360-367.	0.3	5
38	Luminescence (M=Mn <sup>2+</sup> , Cu <sup>2+</sup> ) and ESR (M=Gd <sup>3+</sup> , Mn <sup>2+</sup> , Cu <sup>2+</sup> ) of Na <sub>2</sub> ZnP <sub>2</sub> O <sub>7</sub> : M. Physica B: Condensed Matter, 2012, 407, 2094-2099.	2.7	20
39	Synthesis and Dielectric Properties of Novel BaBi <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> Ceramics. Ferroelectrics, 2011, 413, 357-370.	0.6	0
40	Solid-State Syntheses of Rare-Earth Doped Sr <sub>1-x</sub> Ln <sub>2x/3</sub> MgP <sub>2</sub> O <sub>7</sub> (Ln=Gd, Eu, Dy, Sm, Pr, and Nd; x=0.05) by Metathesis Reactions and their Spectroscopic Characterization. Spectroscopy Letters, 2011, 44, 258-266.	1.0	10
41	A wide-ranging review on Nasicon type materials. Journal of Materials Science, 2011, 46, 2821-2837.	3.7	418
42	Effect of simultaneous double doping in Ba and Ti sites on dielectric and ferroelectric properties of sol-gel synthesized nano-BaTiO <sub>3</sub> . Journal of Materials Science: Materials in Electronics, 2011, 22, 1855-1864.	2.2	17
43	Electrical Impedance Characterization of Bi Doped BaTiO <sub>3</sub> Prepared through Chemical Route. Integrated Ferroelectrics, 2010, 116, 151-160.	0.7	3
44	Low Temperature Sol-Gel Synthesis of Bulk and Nano-sized NbTi(PO <sub>4</sub> ) <sub>3</sub> . Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2010, 40, 883-887.	0.6	1
45	Preparation, characterization, emission (Eu <sup>3+</sup> ), and electron spin resonance (Gd <sup>3+</sup> ) studies of Y <sub>2-x</sub> Ln <sub>x</sub> Ti <sub>2</sub> O <sub>7</sub> (Ln=Eu and Gd, x=0.0,0.05). Journal of Applied Physics, 2010, 108, 044906.	2.5	14
46	Preparation and characterization studies of metaborates, Cu <sub>1-x</sub> M <sub>x</sub> B <sub>2</sub> O <sub>4</sub> (M = Ni, Co and Mn; x = 0, 0.1) Tj ETQq 0 0 rgBT /Overloc	1.7	2
47	Structural, Optical, and Magnetic Properties of Nanocrystalline Co Doped SnO <sub>2</sub> Based Diluted Magnetic Semiconductors. Journal of Physical Chemistry C, 2009, 113, 3543-3552.	3.1	114
48	Preparation, characterization and conductivity studies of Li <sub>3-2x</sub> Al <sub>2+x</sub> Sb <sub>x</sub> (PO <sub>4</sub> ) <sub>3</sub> . Bulletin of Materials Science, 2008, 31, 133-138.	1.7	12
49	Preparation, characterization and conductivity studies of a Nasicon system Ag <sub>3-x</sub> Ta <sub>x</sub> Al <sub>2-x</sub> (PO <sub>4</sub> ) <sub>3</sub> (x = 0.6-1.4). Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3454-3462.	1.8	4
50	Effect of Partial Replacement of Bi on Electrical Properties of Layer Structured Strontium Bismuth Titanate. Ferroelectrics, 2005, 324, 145-151.	0.6	6
51	Title is missing!. Journal of Materials Science Letters, 1999, 18, 1771-1773.	0.5	11