R Sasikala

List of Publications by Year
in descending order

48 papers	1,823 citations	236925 25 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	2785 citing authors

#	Article	IF	Citations
1	Enhanced photocatalytic degradation of methyl red and thymol blue using titaniaâ€“aluminaâ€“zinc ferrite nanocomposite. Applied Catalysis B: Environmental, 2011, 107, 333-339.	20.2	152
2	Highly dispersed phase of SnO2 on TiO2 nanoparticles synthesized by polyol-mediated route: Photocatalytic activity for hydrogen generation. International Journal of Hydrogen Energy, 2009, 34, 3621-3630.	7.1	148
3	Temperature-programmed reduction and CO oxidation studies over Ceâ€“Sn mixed oxides. Catalysis Letters, 2001, 71, 69-73.	2.6	119
4	Photochemical Hydrogen Generation Using Nitrogen-Doped TiO₂â€“Pd Nanoparticles: Facile Synthesis and Effect of Ti³⁺ Incorporation. Journal of Physical Chemistry C, 2012, 116, 12462-12467.	3.1	105
5	Enhanced photocatalytic activity of indium and nitrogen co-doped TiO2â€“Pd nanocomposites for hydrogen generation. Applied Catalysis A: General, 2010, 377, 47-54.	4.3	84
6	Enhanced photocatalytic activity of multi-doped TiO2 for the degradation of methyl orange. Applied Catalysis A: General, 2012, 443-444, 96-102.	4.3	74
7	Effect of Ce, N and S multi-doping on the photocatalytic activity of TiO2. Applied Surface Science, 2013, 282, 408-414.	6.1	73
8	Investigation of structural and magnetic properties of nanocrystalline manganese substituted lithium ferrites. Journal of Solid State Chemistry, 2009, 182, 3217-3221.	2.9	69
9	Photocatalytic and photo electrochemical properties of cadmium zinc sulfide solid solution in the presence of Pt and RuS2 dual co-catalysts. Applied Catalysis A: General, 2016, 517, 91-99.	4.3	59
10	Modification of the photocatalytic properties of self doped TiO2nanoparticles for hydrogen generation using sunlight type radiation. International Journal of Hydrogen Energy, 2009, 34, 6105-6113.	7.1	57
11	Synthesis, dielectric behavior and impedance measurement studies of Cr-substituted Znâ€“Mn ferrites. Materials Research Bulletin, 2011, 46, 447-452.	5.2	52
12	CdOâ€“CdS nanocomposites with enhanced photocatalytic activity for hydrogen generation from water. International Journal of Hydrogen Energy, 2013, 38, 15012-15018.	7.1	52
13	In2S3 nanoparticles dispersed on g-C3N4 nanosheets: role of heterojunctions in photoinduced charge transfer and photoelectrochemical and photocatalytic performance. Journal of Materials Science, 2017, 52, 7077-7090.	3.7	51
14	Synthesis and characterization of nanocrystalline Ti-substituted Zn ferrite. Journal of Alloys and Compounds, 2011, 509, 2160-2163.	5.5	50
15	Role of support on the photocatalytic activity of titanium oxide. Applied Catalysis A: General, 2010, 390, 245-252.	4.3	49
16	Solâ€“gel synthesized TiO2â€“CeO2 nanocomposite: an efficient photocatalyst for degradation of methyl orange under sunlight. Journal of Materials Science: Materials in Electronics, 2016, 27, 825-833.	2.2	47
17	Lanthanum loaded CuO nanoparticles: synthesis and characterization of a recyclable catalyst for the synthesis of 1,4-disubstituted 1,2,3-triazoles and propargylamines. RSC Advances, 2015, 5, 56507-56517.	3.6	46
18	Magnetic, dielectric and complex impedance spectroscopic studies of nanocrystalline Cr substituted Li-ferrite. Journal of Magnetism and Magnetic Materials, 2010, 322, 2629-2633.	2.3	41

#	Article	IF	Citations
19	Effect of zinc substitution on structural and magnetic properties of copper ferrite. Journal of Alloys and Compounds, 2010, 501, 37-41.	5.5	38
20	Nanohybrid MoS2-PANI-CdS photocatalyst for hydrogen evolution from water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 481, 485-492.	4.7	36
21	Microflowers of Pd doped ZnS for visible light photocatalytic and photoelectrochemical applications. Materials Science in Semiconductor Processing, 2018, 86, 139-145.	4.0	34
22	Photocatalytic performance of Pd decorated TiO2â€“CdO composite: Role of in situ formed CdS in the photocatalytic activity. International Journal of Hydrogen Energy, 2015, 40, 13431-13442.	7.1	32
23	The dual role of palladium in enhancing the photocatalytic activity of CdS dispersed on NaY-zeolite. Physical Chemistry Chemical Physics, 2015, 17, 6896-6904.	2.8	30
24	Enhanced photodegradation of dyes on Bi2O3 microflakes: Effect of GeO2 addition on photocatalytic activity. Separation and Purification Technology, 2014, 133, 438-442.	7.9	29
25	Photocatalytic performance of magnetically separable Fe, N co-doped TiO2-cobalt ferrite nanocomposite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 205, 40-45.	3.5	28
26	Enhanced hydrogen generation by particles during sonochemical decomposition of water. Ultrasonics Sonochemistry, 2007, 14, 153-156.	8.2	20
27	Photocatalytic hydrogen generation from water using a hybrid of graphene nanoplatelets and self doped TiO₂â€“Pd. RSC Advances, 2014, 4, 13469-13476.	3.6	18
28	Visible light active N doped GeO2 for the photodegradation of both anionic and cationic dyes. Catalysis Communications, 2013, 40, 9-12.	3.3	17
29	Studies on hydrogen storage material FeTi: Effect of Sn substitution. Materials Research Bulletin, 1988, 23, 333-340.	5.2	16
30	Reduction behavior of Ce-Y mixed oxides. Journal of Materials Science Letters, 2001, 20, 1131-1133.	0.5	16
31	Pdâ€“TiO₂â€“SrIn₂O₄heterojunction photocatalyst: enhanced photocatalytic activity for hydrogen generation and degradation of methylene blue. RSC Advances, 2014, 4, 55539-55547.	3.6	16
32	Synergistic effects during CO oxidation over mixed oxides. Study of (Fe2O3+SnO2) and (Mn2O3+SnO2) systems. Catalysis Letters, 1996, 37, 181-185.	2.6	15
33	27Al NMR studies of Ceâ€“Al mixed oxides: origin of 40ppm peak. Journal of Solid State Chemistry, 2002, 169, 113-117.	2.9	15
34	Temperature programmed reduction studies of spillover effect in Pd impregnated metal oxide catalysts. Journal of Thermal Analysis and Calorimetry, 2004, 78, 723-729.	3.6	14
35	Study of superparamagnetic clusters in Co2+-exchanged NaY zeolite. Journal of Applied Physics, 2006, 99, 034310.	2.5	14
36	Photoelectrochemical properties of porous silicon based novel photoelectrodes. Progress in Photovoltaics: Research and Applications, 2011, 19, 266-274.	8.1	13

#	Article	IF	Citations
37	Effect of Indium doping on the photoelectrochemical and photocatalytic properties of zinc sulphide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 226, 57-63.	3.5	13
38	Photocatalytic degradation of trypan blue and methyl orange azo dyes by cerium loaded CuO nanoparticles. Environmental Nanotechnology, Monitoring and Management, 2016, 6, 45-53.	2.9	12
39	In situ formation of surface sulfide species and its role in enhancing the photocatalytic and photoelectrochemical properties of wide bandgap ZrO2. Molecular Catalysis, 2017, 435, 128-134.	2.0	12
40	Carbon monoxide methanation over FeTi1+x intermetallics. Journal of Catalysis, 1987, 107, 510-521.	6.2	11
41	Improvement of photocatalytic activity of TiO2-WO3 nanocomposite by the anionically substituted N and S. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 804-811.	4.7	11
42	Magnetic properties of Ni2+ clusters in NaY zeolite. Journal of Applied Physics, 2007, 102, 103902.	2.5	9
43	On activation of FeTi: Surface effects. Materials Research Bulletin, 1989, 24, 545-550.	5.2	5
44	Effects of Ti substitution on structural and magnetic properties of Znâ€"Mn ferrospinels. Materials Research Bulletin, 2013, 48, 1791-1795.	5.2	5
45	Synthesis, Characterization and Recyclable Cerium Loaded CuO Nanocatalyst for the Synthesis of 1, 4-Disubstituted 1, 2, 3-Triazoles and Propargylamines. Silicon, 2018, 10, 1095-1101.	3.3	5
46	Carbon monoxide methanation over FeTi1-x Sn x intermetallics: Role of second phase. Catalysis Letters, 1990, 4, 129-138.	2.6	4
47	Temperature programmed reduction studies of spillover effect in Pd impregnated metal oxide catalysts. Journal of Thermal Analysis and Calorimetry, 2004, 78, 723-729.	3.6	4
48	Catalytic behaviour of FeTi for CO methanation: Effect of Fe substitution with Mn and Ni. Journal of Molecular Catalysis, 1991, 67, 259-266.	1.2	3