

Arun V Salker

List of Publications by Year in descending order

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51
papers

1,069
citations

516710

16
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414414

32
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52
all docs

52
docs citations

52
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Change in the magnetostructural properties of rare earth doped cobalt ferrites relative to the magnetic anisotropy. <i>Journal of Materials Chemistry</i> , 2012, 22, 2740-2750.	6.7	205
2	Influence of Co ²⁺ distribution and spin-orbit coupling on the resultant magnetic properties of spinel cobalt ferrite nanocrystals. <i>Journal of Alloys and Compounds</i> , 2013, 566, 54-61.	5.5	123
3	Catalytic behaviour of metal based ZSM-5 catalysts for NO _x reduction with NH ₃ in dry and humid conditions. <i>Applied Catalysis A: General</i> , 2000, 203, 221-229.	4.3	58
4	Electronic and catalytic studies on Co _{1-x} Cu _x Mn ₂ O ₄ for CO oxidation. <i>Journal of Materials Science</i> , 2000, 35, 4713-4719.	3.7	55
5	Solid state studies on cobalt and copper tungstates nano materials. <i>Solid State Sciences</i> , 2010, 12, 2065-2072.	3.2	54
6	Catalytic activity and mechanistic approach of NO reduction by CO over M _{0.05} Co _{2.95} O ₄ (M = Rh, Pd) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	8.1	44
7	Antibacterial activity of silver-doped manganese dioxide nanoparticles on multidrug-resistant bacteria. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 873-877.	3.2	41
8	Variation in the magnetic moment of Indium doped Ce _{0.1} Y _{2.9} Fe ₅ O ₁₂ garnet relative to the site inversion. <i>Journal of Alloys and Compounds</i> , 2014, 600, 137-145.	5.5	35
9	Antibacterial action of doped CoFe ₂ O ₄ nanocrystals on multidrug resistant bacterial strains. <i>Materials Science and Engineering C</i> , 2015, 52, 282-287.	7.3	33
10	Enhancement in the magnetic moment with Cr ³⁺ doping and its effect on the magneto-structural properties of Ce _{0.1} Y _{2.9} Fe ₅ O ₁₂ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10032.	2.8	29
11	Palladium doped manganese dioxide catalysts for low temperature carbon monoxide oxidation. <i>Catalysis Communications</i> , 2009, 10, 1776-1780.	3.3	27
12	Tailoring the super-paramagnetic nature of MgFe ₂ O ₄ nanoparticles by In ³⁺ incorporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 211, 37-44.	3.5	27
13	Mechanistic study of acidic and basic sites for CO oxidation over nano based Co _{2-x} Fe _x WO ₆ catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 246-254.	20.2	24
14	Preparation, characterization and photoluminescent studies of Cr and Nd co-doped Ce:YAG compounds. <i>Journal of Luminescence</i> , 2015, 161, 335-342.	3.1	21
15	Low-temperature nitric oxide reduction over silver-substituted cobalt oxide spinels. <i>Catalysis Science and Technology</i> , 2016, 6, 430-433.	4.1	21
16	Activity of Pd doped and supported Mn ₂ O ₃ nanomaterials for CO oxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012, 106, 395-405.	1.7	18
17	Effect of Cu ²⁺ substitution on structural, magnetic and dielectric properties of cobalt ferrite with its enhanced antimicrobial property. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14746-14761.	2.2	18
18	Thermal studies of cobalt, iron and tin metalloporphyrins. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 809-813.	3.6	16

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19	Room temperature complete reduction of nitroarenes over a novel Cu/SiO ₂ @NiFe ₂ O ₄ nano-catalyst in an aqueous medium – a kinetic and mechanistic study. RSC Advances, 2016, 6, 108458-108467.	3.6	14
20	Investigation of the effect of fractional In ³⁺ ion substitution on the structural, magnetic, and dielectric properties of Co-Cu ferrite. Journal of Physics and Chemistry of Solids, 2019, 133, 151-162.	4.0	14
21	Synthesis, purification and thermal behaviour of sulfonated metalloporphyrins. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1487-1492.	3.6	13
22	Vapor phase methylation of phenol on Fe-substituted ZrO ₂ catalyst. Chinese Journal of Catalysis, 2016, 37, 1991-1996.	14.0	13
23	Evaluation of silver-doped indium oxide nanoparticles as in vitro α -amylase and α -glucosidase inhibitors. Medicinal Chemistry Research, 2016, 25, 381-389.	2.4	13
24	Synthesis and evaluation of antibacterial activity of water-soluble copper, nickel and zinc tetra (n-carboxylacrylic) aminophthalocyanines. Medicinal Chemistry Research, 2013, 22, 4300-4307.	2.4	12
25	Effect Cr ³⁺ Ion Substitution on the Structural, Magnetic, and Dielectric Behavior of Co-Cu Ferrite. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3655-3669.	1.8	11
26	A systematic study of cobalt doped In ₂ O ₃ nanoparticles and their applications. Materials Research Innovations, 2017, 21, 237-243.	2.3	10
27	Effect of indium doping on magnetic properties of cerium oxide nanoparticles. Materials Chemistry and Physics, 2018, 212, 336-342.	4.0	10
28	Effect of fractional substitution of Sb ³⁺ ions on structural, magnetic and electrical properties of cobalt ferrite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 258, 114574.	3.5	10
29	Efficiently synthesized Co doped Cu ₃ TeO ₆ accounted for its anomalous behaviour in electronic properties. New Journal of Chemistry, 2017, 41, 13974-13982.	2.8	9
30	Structural, magnetic and dielectric properties of Dy ³⁺ and Sm ³⁺ substituted Co-Cu ferrite. Materials Research Express, 2019, 6, 066112.	1.6	9
31	Highly tuned cobalt-doped MnO ₂ nanozyme as remarkably efficient uricase mimic. Applied Nanoscience (Switzerland), 2020, 10, 317-328.	3.1	9
32	Significant effect of multi-doped cerium oxide for carbon monoxide oxidation studies. Materials Chemistry and Physics, 2020, 253, 123326.	4.0	9
33	A Route to Develop the Synergy Between CeO ₂ and CuO for Low Temperature CO Oxidation. Catalysis Letters, 2020, 150, 2774-2783.	2.6	9
34	Al ³⁺ -Doped FeVO ₄ Nanoparticles for Vapour Phase Methylation of Phenol. ChemistrySelect, 2018, 3, 7602-7607.	1.5	7
35	Low temperature CO oxidation over nano-sized Cu-Pd doped MnO ₂ catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2013, 108, 173.	1.7	6
36	Tailoring magnetic and dielectric properties of Co _{0.9} Cu _{0.1} Fe ₂ O ₄ with substitution of small fractions of Gd ³⁺ ions. Journal of Materials Science: Materials in Electronics, 2018, 29, 5380-5390.	2.2	6

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37	Nitric oxide reduction by carbon monoxide and carbon monoxide oxidation by O ₂ over Co-Mn composite oxide material. Applied Nanoscience (Switzerland), 2020, 10, 141-149.	3.1	5
38	Synergistic effect of modified Pd-based cobalt chromite and manganese oxide system towards NO-CO redox detoxification reaction. Environmental Science and Pollution Research, 2020, 27, 27061-27071.	5.3	5
39	Promising effect of Ag/Rh paired mesoporous composite-oxide for low temperature NO CO reaction. Catalysis Communications, 2021, 149, 106257.	3.3	4
40	Insulator-semiconductor transitions and photo-luminescent behaviour in doped copper tellurates. Materials Science in Semiconductor Processing, 2020, 105, 104758.	4.0	3
41	Fractional substitution of Mn ions in cobalt-copper ferrite: Effect on its magnetic, dielectric and microstructural properties. Inorganic Chemistry Communication, 2022, 142, 109684.	3.9	3
42	Detoxification of NO and CO gases over effectively substituted Pd and Rh in cupric oxide catalysts. International Journal of Environmental Science and Technology, 2019, 16, 1541-1550.	3.5	2
43	An incredible magnetic Pd/CuFe ₂ O ₄ catalyst for low-temperature aqueous Suzuki-Miyaura coupling. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	2
44	In ³⁺ doped magnesium ferrite an efficient magnetic catalyst for the synthesis of functionalized quinazolinone and Henry reaction. Journal of Chemical Sciences, 2022, 134, 1.	1.5	2
45	Thermal studies of metalloporphyrins with metals in different oxidation states. Journal of Thermal Analysis and Calorimetry, 2013, 112, 11-15.	3.6	1
46	Zirconium diselenite microstructures, formation and mechanism. Materials Research Express, 2018, 5, 045023.	1.6	1
47	Complete detoxification reaction by NO reduction with CO over nano-sized copper-substituted Cr ₂ O ₃ . Surface and Interface Analysis, 2018, 50, 1343-1348.	1.8	1
48	Reactivity of NO with NH ₃ in the Presence of O ₂ over Ce-ZSM5 with and without Moisture. Reaction Kinetics and Catalysis Letters, 2001, 73, 209-216.	0.6	0
49	Influence of Cobalt Substitution in LaMnO ₃ on Catalytic Propylene Oxidation. Indonesian Journal of Chemistry, 2021, 21, 1244.	0.8	0
50	Photodegradation of Rhodamine B using Aqueous Free-Base Porphyrin and Metalloporphyrins of Divalent Metal Ions. Asian Journal of Chemistry, 2021, 34, 147-154.	0.3	0
51	Low temperature simultaneous detoxification of NO and CO over precious metal-free nanocomposite metal oxides. New Journal of Chemistry, 0, , .	2.8	0