

Vasundhara Mutta

List of Publications by Year in descending order

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67
papers

1,606
citations

257450

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docs citations

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times ranked

1856
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Nd-deficiency in Nd _{0.67} Ba _{0.33} MnO ₃ manganites on structural, magnetic and electrical transport properties. Journal of Magnetism and Magnetic Materials, 2022, 542, 168595.	2.3	7
2	Evidence for canonical spin glass behaviour in polycrystalline Mn _{1.5} Fe _{1.5} Al Heusler alloy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168752.	2.3	8
3	Effects of Cr,Co,Ni substitution at Mn-site on structural, magnetic properties and critical behaviour in Nd _{0.67} Ba _{0.33} MnO ₃ mixed-valent manganite. Journal of Magnetism and Magnetic Materials, 2022, 548, 168980.	2.3	7
4	Optical and Low-Temperature Magnetocaloric Properties of HoCr _{0.5} Mn _{0.5} O ₃ Compound. Journal of Superconductivity and Novel Magnetism, 2022, 35, 625-633.	1.8	3
5	Effects of Bi doping on structural and magnetic properties of cobalt ferrite perovskite oxide LaCo _{0.5} Fe _{0.5} O ₃ . Ceramics International, 2022, 48, 16348-16356.	4.8	13
6	Influence of Ba-Deficient Content on Structural, Magnetic and Magnetocaloric Properties in Nd _{0.67} Ba _{0.33} MnO ₃ Mixed-Valent Manganites. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1709-1718.	1.8	1
7	Structural and optical properties of multilayered un-doped and cobalt doped TiO ₂ thin films. Applied Surface Science, 2021, 536, 147830.	6.1	18
8	Tailoring the NIR range optical absorption, band-gap narrowing and ferromagnetic response in defect modulated TiO ₂ nanocrystals by varying the annealing conditions. Vacuum, 2021, 184, 109955.	3.5	10
9	Cinnamomum tamala Leaf Extract Stabilized Zinc Oxide Nanoparticles: A Promising Photocatalyst for Methylene Blue Degradation. Nanomaterials, 2021, 11, 1558.	4.1	34
10	Low-temperature magnetization behaviors of superparamagnetic MnZn ferrites nanoparticles. Physica B: Condensed Matter, 2020, 582, 411963.	2.7	25
11	Tailoring the magnetic entropy change towards room temperature in Sr-site deficient La _{0.6} Dy _{0.07} Sr _{0.33} MnO ₃ manganite. New Journal of Chemistry, 2020, 44, 13480-13487.	2.8	8
12	Structural, Magnetic, and Magneto-Caloric Properties of Cu-Substituted Nd _{0.67} Ba _{0.33} MnO ₃ Manganites. Physics of the Solid State, 2020, 62, 902-911.	0.6	1
13	Observation of enhanced magnetic entropy change near room temperature in Sr-site deficient La _{0.67} Sr _{0.33} MnO ₃ manganite. RSC Advances, 2019, 9, 23598-23606.	3.6	19
14	Effect of annealing conditions on particle size, magnetic and optical properties of Gd ₂ O ₃ nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	6
15	Impact of Mn-dopant concentration in observing narrowing of band-gap, urbach tail and paramagnetism in anatase TiO ₂ nanocrystals. New Journal of Chemistry, 2019, 43, 14786-14799.	2.8	20
16	Structural, optical and magnetic behavior of sol-gel derived Ni-doped dilute magnetic semiconductor TiO ₂ nanocrystals for advanced functional applications. Physical Chemistry Chemical Physics, 2019, 21, 2519-2532.	2.8	37
17	Visible range optical absorption, Urbach energy estimation and paramagnetic response in Cr-doped TiO ₂ nanocrystals derived by a sol-gel method. Physical Chemistry Chemical Physics, 2019, 21, 12991-13004.	2.8	137
18	Impact of Nd and Sr-site deficiencies on the structural, magnetic and electrical transport properties in Nd _{0.67-x} Sr _{0.33} MnO ₃ (x = 0.09, 0.17, 0.25, 0.33) and Nd _{0.67} Sr _{0.33-y} MnO ₃ (y = 0.09, 0.17) manganites. Journal of Magnetism and Magnetic Materials, 2019, 489, 165418.	2.8	8

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19	Impression of magnetic clusters, critical behavior and magnetocaloric effect in Fe ₃ Al alloys. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10823-10833.	2.8	24
20	Structural, Electronic, Optical, and Magnetic Properties of Fe ₃ Al Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2995-3000.	1.8	5
21	Significant reduction in the optical band-gap and defect assisted magnetic response in Fe-doped anatase TiO ₂ nanocrystals as dilute magnetic semiconductors. <i>New Journal of Chemistry</i> , 2019, 43, 6048-6062.	2.8	32
22	Structural, electrical, optical and magnetic properties of SmCrO ₃ chromites: Influence of Gd and Mn co-doping. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1122-1131.	5.5	21
23	Comparison of structural, magnetic and electrical transport behavior in bulk and nanocrystalline Nd-lacunar Nd _{0.67} Sr _{0.33} MnO ₃ manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 472, 74-85.	2.3	28
24	Structural and magnetic properties of Nd _{0.67} Ba _{0.33} MnO ₃ manganites with partial replacement of Fe and Cu at Mn-site. <i>Physica B: Condensed Matter</i> , 2018, 539, 14-20.	2.7	20
25	Observation of magnetization reversal behavior in Sm _{0.9} Gd _{0.1} Cr _{0.85} Mn _{0.15} O ₃ orthochromites. <i>AIP Advances</i> , 2018, 8, 055818.	1.3	9
26	Structural and magnetic study of undoped and cobalt doped TiO ₂ nanoparticles. <i>RSC Advances</i> , 2018, 8, 10939-10947.	3.6	118
27	Investigation on the structural, magnetic and magnetocaloric properties of nanocrystalline Pr-deficient Pr _{1-x} Sr _x MnO ₃ manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 448, 322-331.	2.3	25
28	Electrical, magnetic, and magnetotransport behavior of inhomogeneous Nd _{1-x} CaxMnO ₃ (0.0 ≤ x ≤ 0.8) manganites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 448, 250-256.	2.3	10
29	Standardization of media and nutrient concentration for coleus (<i>Plectranthus barbatus</i> Andr.) under substrate culture. <i>Journal of Plant Nutrition</i> , 2018, 41, 445-452.	1.9	2
30	The Structure of Electronic States and Optical Properties of Cr ₈₀ Al ₂₀ Compound. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018, 125, 195-198.	0.6	0
31	Observation of enhanced magnetocaloric properties with A-site deficiency in La _{0.67} Sr _{0.33} MnO ₃ manganite. <i>Dalton Transactions</i> , 2018, 47, 15512-15522.	3.3	34
32	Defect mediated mechanism in undoped, Cu and Zn-doped TiO ₂ nanocrystals for tailoring the band gap and magnetic properties. <i>RSC Advances</i> , 2018, 8, 41994-42008.	3.6	47
33	Observation of Optical Band-Gap Narrowing and Enhanced Magnetic Moment in Co-Doped Sol-Gel-Derived Anatase TiO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26592-26604.	3.1	49
34	Investigation on structural, morphological and optical properties of Co-doped ZnO thin films. <i>Physica B: Condensed Matter</i> , 2018, 550, 303-310.	2.7	16
35	Structural and magnetic behavior of (Ni, Cu) substituted Nd _{0.67} Sr _{0.33} MnO ₃ perovskite compounds. <i>AIP Conference Proceedings</i> , 2018, .	0.4	0
36	Surfactant-Induced Structural Phase Transitions and Enhanced Room Temperature Thermoelectric Performance in n-Type Bi ₂ Te ₃ Nanostructures Synthesized via Chemical Route. <i>ACS Applied Nano Materials</i> , 2018, 1, 3236-3250.	5.0	13

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37	Low temperature magnetic and magnetocaloric studies in YCr _{0.85} Mn _{0.15} O ₃ ceramic. Physica B: Condensed Matter, 2018, 545, 352-357.	2.7	10
38	Magnetically induced electrical transport and dielectric properties of 3d transition elemental substitution at the Mn-site in Nd _{0.67} Ba _{0.33} MnO ₃ manganites. AIP Conference Proceedings, 2018, , .	0.4	0
39	The Influence of Copper Impurity on the Electronic Structure and Optical Properties of TmNi ₅ Compound. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 784-788.	0.6	0
40	Magnetic properties of biocompatible CoFe_2O_4 nanoparticles using a facile synthesis. Nano Structures Nano Objects, 2018, 16, 69-76.	0.5	0
41	Effects of Mn site substitution on magnetic ordering and critical behavior in Nd _{0.67} Sr _{0.33} MnO ₃ manganite. Journal of Physics and Chemistry of Solids, 2018, 123, 327-335.	4.0	19
42	Effect of annealing temperature on the size and magnetic properties of CoFe ₂ O ₄ nanoparticle. AIP Conference Proceedings, 2018, , .	0.4	1
43	Magnetization reversal behavior and magnetocaloric effect in SmCr _{0.85} Mn _{0.15} O ₃ chromites. Journal of Applied Physics, 2017, 121, .	2.5	34
44	Single step hydrothermal synthesis of mixed valent V ₆ O ₁₃ nano-architectures: A case study of the possible applications in electrochemical energy conversion. Journal of Alloys and Compounds, 2017, 706, 562-567.	5.5	19
45	Tailoring Thermoelectric Properties through Structure and Morphology in Chemically Synthesized n-Type Bismuth Telluride Nanostructures. Inorganic Chemistry, 2017, 56, 6264-6274.	4.0	34
46	Observation of magnetization reversal and magnetocaloric effect in manganese modified EuCrO ₃ orthochromites. Physica B: Condensed Matter, 2017, 519, 69-75.	2.7	28
47	Structural, magnetic, magnetocaloric and specific heat investigations on Mn doped PrCrO ₃ orthochromites. Journal of Physics Condensed Matter, 2017, 29, 195802.	1.8	28
48	Observation of complex magnetic behaviour in calcium doped neodymium manganites. Journal Physics D: Applied Physics, 2017, 50, 065004.	2.8	24
49	Mixed rare earth oxides derived from monazite sand as an inexpensive precursor material for room temperature magnetic refrigeration applications. Materials Research Bulletin, 2017, 94, 537-543.	5.2	24
50	Study of structural, optical and magnetic properties of cobalt doped ZnO nanorods. RSC Advances, 2017, 7, 50527-50536.	3.6	150
51	Facile hydrothermal synthesis of economically viable VO ₂ (M1) counter electrode for dye sensitized solar cells. Materials Research Bulletin, 2016, 83, 135-140.	5.2	27
52	Sol-gel spin coated well adhered MoO ₃ thin films as an alternative counter electrode for dye sensitized solar cells. Solid State Sciences, 2016, 61, 84-88.	3.2	32
53	Comparative Study of Magnetic Ordering and Electrical Transport in Bulk and Nano-Grained Nd _{0.67} Sr _{0.33} MnO ₃ Manganites. Journal of Magnetism and Magnetic Materials, 2016, 418, 265-272.	2.3	39
54	High field magnetic behavior in Boron doped Fe ₂ VAl Heusler alloys. Journal of Magnetism and Magnetic Materials, 2016, 418, 128-136.	2.3	1

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55	Structure and magnetic properties of ZnO coated MnZn ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 418, 112-117.	2.3	17
56	V_2O_5 as an inexpensive counter electrode for dye sensitized solar cells. Materials Research Express, 2016, 3, 035501.	1.6	23
57	The Effect of Cationic Disorder on Low Temperature Magnetic Properties of MnZn Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
58	Structural, magnetic and dielectric properties of rare earth based double perovskites RE ₂ NiMnO ₆ (RE=La, pr, Sm, Tb). Physica B: Condensed Matter, 2014, 448, 285-289.	2.7	27
59	Co-existence of magnetocaloric effect and magnetoresistance in Co substituted La _{0.67} Sr _{0.33} MnO ₃ at room temperature. Journal of Applied Physics, 2013, 114, .	2.5	25
60	Re-entrant spin glass behaviour and magneto-dielectric effect in insulating Sm ₂ NiMnO ₆ double perovskite. Journal of Materials Chemistry C, 2013, 1, 6565.	5.5	45
61	Evidence for cluster glass behavior in $Fe_{2/3}Mn_{1/3}$ alloys. Physical Review B, 2008, 78, .	3.2	72
62	Electronic transport in Heusler-type $Fe_{2/3}Mn_{1/3}$ alloys. Physical Review B, 2008, 77, .	3.2	72
63	Magnetic And Transport Properties Of Fe ₂ VB Heusler Alloy: A New Report. AIP Conference Proceedings, 2008, , .	0.4	0
64	Evidence for the enhanced magnetic order in In substituted Fe ₂ VAl Heusler-like alloy. , 2006, , .		1
65	Evidence for the Enhanced Magnetic Order in In-Substituted Fe ₂ VAl Heusler-Like Alloy. IEEE Transactions on Magnetics, 2006, 42, 3105-3107.	2.1	3
66	Low-temperature electrical transport in Heusler-type Fe ₂ V (AlSi) alloys. Journal of Physics Condensed Matter, 2005, 17, 6025-6036.	1.8	35
67	Adiabatic polaron transport in La _{0.9} Pb _{0.1} MnO ₃ manganites. Physica Status Solidi (B): Basic Research, 2004, 241, 1482-1485.	1.5	0