

Pramod Kumar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

484
citations

13
h-index

19
g-index

51
ext. papers

577
ext. citations

3.1
avg. IF

3.59
L-index

#	Paper	IF	Citations
48	Charge transfer induced symmetry breaking in GaN/Bi ₂ Se ₃ topological heterostructure device. <i>Npj 2D Materials and Applications</i> , 2022 , 6,	8.8	2
47	Modifications in the magnetocaloric effect owing to composition changes in Gd ₂ In _{1-x} Gex (0 ≤ x ≤ 0.2) system of compounds. <i>AIP Advances</i> , 2022 , 12, 035127	1.5	0
46	Lab-on-paper strip chemical sensor: Reversible visible sensor for detection of acids using naphthalenediimide derivative. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	
45	Critical analysis of chemical and hydrostatic pressure-induced Gd ₅ Si ₂ Ge ₂ alloy. <i>Materials Today Communications</i> , 2021 , 26, 102091	2.5	2
44	Electrical properties of a metal-germanium-topological insulator (metal/n-Ge/p-Bi ₂ Te ₃) heterostructure devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 8106-8121	2.1	1
43	Effect of different concentration of functionalized graphene on charging time reduction in thermal energy storage system. <i>Materials Today: Proceedings</i> , 2021 , 44, 146-152	1.4	2
42	Selective wavelength optical filters from mixed polymorph and binary integration of MoO ₃ multilayer structures. <i>Optical Materials</i> , 2021 , 111, 110709	3.3	2
41	Dual-quadrant photodetection in topological insulator and silicon-based heterojunction (n-Bi ₂ Te ₂ Se/p-Si). <i>Applied Surface Science</i> , 2021 , 565, 150497	6.7	2
40	XPS analysis of Gd ₅ Ge ₂ Si ₂ and its Co-substituted alloy. <i>Materials Today: Proceedings</i> , 2021 , 46, 10597-10599		
39	Heterogeneous integration of TiO ₂ epitaxial growth for one-dimensional photonic crystal: An experimental and theoretical analysis. <i>Materials Today Communications</i> , 2020 , 25, 101367	2.5	1
38	Material Study of Co ₂ CrAl Heusler Alloy Magnetic Thin Film and Co ₂ CrAl/n-Si Schottky Junction Device. <i>Journal of Electronic Materials</i> , 2020 , 49, 3652-3658	1.9	3
37	Flexible perylenediimide/GaN organic-inorganic hybrid system with exciting optical and interfacial properties. <i>Scientific Reports</i> , 2020 , 10, 10480	4.9	5
36	A comparative study on magnetocaloric effect in NdRu ₂ Si ₂ and NdRu ₂ Ge ₂ . <i>Materials Today: Proceedings</i> , 2020 , 28, 149-152	1.4	2
35	Anomalous magnetic properties in LaFeAl. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3425-3433	3.6	3
34	Effect of Different Metallic Contacts on the Device Performance of a p-n Heterostructure of a Topological Insulator and Silicon (p-Bi ₂ Te ₃ /n-Si). <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5388-5393	3.9	5
33	Facile h-MoO ₃ synthesis for NH ₃ gas sensing application at moderate operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128974	8.5	21
32	Synthesis of graphene oxide with a lower band gap and study of charge transfer interactions with perylenediimide. <i>New Journal of Chemistry</i> , 2020 , 44, 12704-12714	3.6	4

31	Effect of Doping and Annealing on Thermoelectric Properties of Bismuth Telluride Thin Films. <i>Journal of Electronic Materials</i> , 2020 , 49, 4195-4202	1.9	9
30	Impression of magnetic clusters, critical behavior and magnetocaloric effect in FeAl alloys. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10823-10833	3.6	15
29	Fabrication of a p-n Heterojunction Using Topological Insulator Bi ₂ Te ₃ Bi and Its Annealing Response. <i>Journal of Electronic Materials</i> , 2018 , 47, 6972-6983	1.9	8
28	Unusual magneto-thermal properties in Sr ₄ Ru ₃ O ₁₀ . <i>Materials Research Express</i> , 2017 , 4, 026104	1.7	
27	Fullerene grafted graphene oxide with effective charge transfer interactions. <i>Carbon</i> , 2016 , 107, 765-773	3.4	19
26	Synthesis and ultrafast spectroscopic study of new [6,6]methanofullerenes. <i>RSC Advances</i> , 2016 , 6, 24889-24897	3.7	35
25	Bulk synthesis of highly conducting graphene oxide with long range ordering. <i>RSC Advances</i> , 2015 , 5, 35893-35898	3.7	35
24	Pressure dependent magnetic, AC susceptibility and electrical properties of Nd ₇ Pd ₃ . <i>RSC Advances</i> , 2015 , 5, 58928-58935	3.7	5
23	Magnetocaloric effect and refrigeration cooling power in amorphous Gd ₇ Ru ₃ alloys. <i>AIP Advances</i> , 2015 , 5, 077125	1.5	3
22	Stable graphite exfoliation by fullerene intercalation via aqueous route. <i>New Journal of Chemistry</i> , 2014 , 38, 4922-4930	3.6	9
21	Crystal structure and negative magnetization in Sm ₂ Al and Sm _{1.988} Gd _{0.012} Al compounds. <i>Physica B: Condensed Matter</i> , 2014 , 448, 6-8	2.8	2
20	Magnetothermal effect in Gd ₃ Rh. <i>Journal of Applied Physics</i> , 2011 , 109, 07A909	2.5	9
19	Large reversible magnetocaloric effect in Er ₃ Co compound. <i>Journal of Applied Physics</i> , 2010 , 107, 09A932	2.5	17
18	Magnetic, magnetocaloric and magnetoresistance properties of Nd ₇ Pd ₃ . <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 456004	1.8	6
17	Magnetic and magnetocaloric effect in melt spun La _{1-x} R _x Fe ₁₃ Al _y Cz (R= Pr and Nd) compounds. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 205003	3	5
16	Investigations on magnetic and magnetocaloric properties of the intermetallic compound TbAgAl. <i>Journal of Applied Physics</i> , 2009 , 105, 023901	2.5	19
15	Magnetocaloric and magnetotransport properties of R ₂ Ni ₂ Sn compounds (R=Ce, Nd, Sm, Gd, and Tb). <i>Physical Review B</i> , 2008 , 77,	3.3	43
14	Magnetism, heat capacity, magnetocaloric effect and magneto-transport in R ₂ Al (R= Nd, Gd, Tb) compounds. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 105007	3	30

13	Magnetic, magnetothermal, and magnetotransport properties in SmMn ₂ Si _{2-x} Gex compounds. <i>Journal of Applied Physics</i> , 2008 , 103, 013909	2.5	10
12	Large reversible magnetocaloric effect in RNi compounds. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 245006	3	33
11	Magnetic and magnetothermal properties of La _{1-x} NdxFe _{11.5} Al _{1.5} compounds. <i>Journal of Applied Physics</i> , 2008 , 103, 07B338	2.5	7
10	Pressure-induced changes in the magnetic and magnetocaloric properties of RMn ₂ Ge ₂ (R=Sm,Gd). <i>Physical Review B</i> , 2008 , 77,	3.3	35
9	Structural, magnetic and magnetocaloric properties of La _{0.8} Gd _{0.2} Fe _{11.4} Si _{1.6} . <i>Physica B: Condensed Matter</i> , 2008 , 403, 1015-1016	2.8	10
8	Heat capacity and magnetocaloric effect in polycrystalline Gd _{1-x} Sm _x Mn ₂ Si ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 319, 1-4	2.8	6
7	Multiple magnetic transitions and the magnetocaloric effect in Gd _{1-x} Sm _x Mn ₂ Ge ₂ compounds. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 386210	1.8	6
6	Effect of Ge substitution for Si on the anomalous magnetocaloric and magnetoresistance properties of GdMn ₂ Si ₂ compounds. <i>Journal of Applied Physics</i> , 2007 , 101, 013908	2.5	23
5	Measurement of pressure effects on the magnetic and the magnetocaloric properties of the intermetallic compounds DyCo ₂ and Er(Co _{1-x} Si _x) ₂ . <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 036213 ^{1.8}	1.8	28
4	Effect of Tm substitution on the magnetic and magnetocaloric properties in the intermetallic compounds (Tb _{1-x} Tm _x)Co ₂ . <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1620-1625	3	8
3	Anomalous magnetic and magnetocaloric properties of Er ₂ Ni ₁₇ . <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2691-2694	3	4
2	Magnetic and magnetocaloric properties of Sm _x Gd _{1-x} Mn ₂ Si ₂ . <i>Journal of Alloys and Compounds</i> , 2007 , 427, 42-45	5.7	16
1	Charging analysis and characterizations of COOH group functionalized graphene combined with paraffin wax as phase change material for thermal energy storage applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0