

K Mukherjee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Exchange bias in a mixed metal oxide based magnetocaloric compound $\text{YFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$. Journal of Magnetism and Magnetic Materials, 2016, 414, 116-121.	2.3	30
2	Evidence of large magnetic cooling power and double glass transition in Tb_5Pd_2 . Journal of Magnetism and Magnetic Materials, 2018, 466, 317-322.	2.3	28
3	Exotic magnetic behaviour and evidence of cluster glass and Griffiths like phase in Heusler alloys $\text{Fe}_{2-x}\text{Mn}_x\text{CrAl}$ ($0 \leq x \leq 1$). Scientific Reports, 2019, 9, 15888.	3.3	24
4	Glasslike ordering and spatial inhomogeneity of magnetic structure in Ba_2FeRu	3.2	22
5	Complex magnetic behaviour and evidence of a superspin glass state in the binary intermetallic compound $\text{Er}_{5-x}\text{Pd}_{2+x}$. Journal of Physics Condensed Matter, 2018, 30, 215803.	1.8	19
6	Atomic disorder and Berry phase driven anomalous Hall effect in a Heusler compound. Physical Review B, 2022, 105, .	3.2	19
7	Evolution of magnetic and dielectric properties in Sr-substituted high-temperature multiferroic YBaCuFeO_{5-x} . Europhysics Letters, 2017, 117, 67006.	2.0	18
8	Magnetic and universal magnetocaloric behavior of rare-earth substituted $\text{DyFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$. Journal of Magnetism and Magnetic Materials, 2017, 444, 178-183.	2.3	18
9	Nature of glassy magnetic state in magnetocaloric materials $\text{Dy}_5\text{Pd}_2\text{-xNi}_x$ ($x = 0$ and 1) and universal scaling analysis of R_5Pd_2 ($\text{R} = \text{Tb}, \text{Dy}$ and Er). Journal of Alloys and Compounds, 2019, 782, 10-16.	5.5	16
10	Magnetocaloric effect and spin-phonon correlations in $\text{RFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ ($\text{R} = \text{Er}$ and Yb) compounds. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126638.	2.1	14
11	Optical phonon mode assisted thermal conductivity in p-type ZrIrSb half-Heusler alloy: a combined experimental and computational study. Journal Physics D: Applied Physics, 2021, 54, 495303.	2.8	9
12	Effect of crystalline electric field on heat capacity of LnBaCuFeO_5 ($\text{Ln} = \text{Gd}, \text{Ho}, \text{Yb}$). Solid State Communications, 2018, 270, 130-134.	1.9	8
13	Spin lattice relaxation phenomena in the magnetic state of a suggested Weyl semimetal CeAlGe . Philosophical Magazine, 2020, 100, 1771-1787.	1.6	7
14	Entropic topography associated with field-induced quantum criticality in a magnetic insulator DyVO_4 . Scientific Reports, 2022, 12, 56.	3.3	7
15	Enhancement of magnetic ordering temperature and magnetodielectric coupling by hole doping in a multiferroic $\text{DyFe}_{0.5}\text{Cr}_{0.5}\text{O}_{3-x}$. Journal of Physics Condensed Matter, 2017, 29, 085801.	1.8	6
16	Evidence of partial gap opening and Ce-site dilution effects in a heavy fermion compound CeNiGe_2 . Philosophical Magazine, 2019, 99, 386-400.	1.6	6
17	Anomalous magnetoresistance and magneto-thermal properties of the half-Heuslers, RPdSi ($\text{R} = \text{Y}$), TjETQq1	1.8	5
18	Investigation of thermodynamic properties of multiferroic YBaCuFeO_5 . AIP Conference Proceedings, 2017, , .	0.4	4

#	ARTICLE	IF	CITATIONS
19	Effect of (Cu/Fe)O5 bipyramid size and separation on magnetic and dielectric properties of rare earth layered perovskite LaBaCuFeO5 and LuBaCuFeO5. Journal of Applied Physics, 2019, 126, 144101.	2.5	4
20	Possibility of a new order parameter driven by multipolar moment and Fermi surface evolution in CeGe. Scientific Reports, 2019, 9, 5131.	3.3	4
21	Effect of partial substitution of iso-valent Mo at Cr-site on electronic structure and physical properties of Fe2CrAl. Intermetallics, 2021, 133, 107153.	3.9	3
22	Coexistence of non-Fermi liquid behavior and biquadratic exchange coupling in La-substituted CeGe: Nonlinear susceptibility and DFT+DMFT study. Physical Review B, 2020, 102, .	3.2	3
23	Signature of partially frustrated moments and a new magnetic phase in CeNiGe 2. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3236-3240.	2.1	2
24	Spin-phonon coupling and exchange interaction in Gd substituted YFe0.5Cr0.5O3. Journal of Magnetism and Magnetic Materials, 2018, 447, 26-31.	2.3	2
25	Interplay between disorder-driven non-Fermi-liquid behavior and magnetism in the Ce0.24La0.76Ge compound. Europhysics Letters, 2019, 126, 57005.	2.0	2
26	Mott breakdown effect in spinel MgTi1.2V0.8O4. Physical Review B, 2021, 103, .	3.2	2
27	Unconventional critical behaviour in weak ferromagnets Fe2-xMnxCrAl (0 ≤ x ≤ 1). Scientific Reports, 2021, 11, 18742.	3.3	2
28	Anomalous dependence of thermoelectric parameters on carrier concentration and electronic structure in Mn-substituted Fe2CrAl Heusler alloy. Philosophical Magazine, 0, , 1-18.	1.6	2
29	Field induced nature and nonlinear DC susceptibility studies of Ni substituted Dy5Pd2 cluster glass system. Physica B: Condensed Matter, 2019, 572, 56-59.	2.7	1
30	Observation of field induced anomalous quantum criticality in Ce0.6Y0.4NiGe2 compound. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1057-1061.	2.1	1
31	Effect of doping of Co, Ni and Ga on magnetic and dielectric properties of layered perovskite multiferroic YBaCuFeO5. Journal of Magnetism and Magnetic Materials, 2020, 498, 166124.	2.3	1
32	Structure driven magnetic correlations and magnetodielectric coupling in 6H-perovskite Ba3DyRu2O9. Journal of Physics Condensed Matter, 2021, 33, 285801.	1.8	1
33	Unravelling the phonon scattering mechanism in half-Heusler alloys ZrCo _{1-x} Ir _x Sb (x = 0, 0.1 and 0.25). Journal of Physics Condensed Matter, 2022, 34, 035702.	1.8	1
34	Large magnetodielectric coupling in the vicinity of metamagnetic transition in 6H-perovskite Ba ₃ GdRu ₂ O ₉ . Journal of Physics Condensed Matter, 2022, 34, 145801.	1.8	1