

Mahmoud A Hamad

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.

101
papers

2,053
citations

29
h-index

38
g-index

107
ext. papers

2,348
ext. citations

2.4
avg, IF

6.46
L-index

#	Paper	IF	Citations
101	Room temperature magnetocaloric effect of Ce _{0.65} Mg _{0.35} Co ₃ . <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	1
100	Investigations on Strong-Tuned Magnetocaloric Effect in La _{0.5} Ca _{0.1} Ag _{0.4} MnO ₃ . <i>Frontiers in Materials</i> , 2022 , 9,	4	2
99	Magnetocaloric Effect in ϵ MnB Nanoparticles. <i>Russian Journal of Physical Chemistry A</i> , 2022 , 96, S101-S104	4	0
98	BiFeO ₃ Layer Thicknesses Effect on Magnetocaloric Effect in BiFeO ₃ La _{0.7} Sr _{0.3} MnO ₃ Thin Films. <i>Physics of the Solid State</i> , 2021 , 63, 709	0.8	3
97	Tuning Magnetocaloric Properties for La _{1-x} Sr _x CoO ₃ . <i>Physics of the Solid State</i> , 2021 , 63, 1601	0.8	4
96	Enhancement of the dielectric properties of low density polyethylene grad (LA071) via γ radiation. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 247-251	5.5	1
95	Synthesis and optical properties of alizarin yellow GG-Cu(II)-PVA nanocomposite film as a selective filter for optical applications. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 33-39	5.5	4
94	Strong tailoring magnetocaloric effect in highly (001)-oriented La _{0.7} Sr _{0.3} MnO ₃ thin films. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1356-1361	5.5	8
93	Dielectric properties and potential applications of alizarin yellow GG-Cu(II) complex film blended with polyvinyl alcohol. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1799-1805	5.5	1
92	Extremely relative cooling power of Cu _{0.35} Zn _{0.65} Fe ₂ O ₄ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 394, 127204	2.3	9
91	Environmentally Friendly Energy Harvesting Using Magnetocaloric Solid-State Nanoparticles as Magnetic Refrigerator. <i>Journal of Low Temperature Physics</i> , 2021 , 204, 57-63	1.3	7
90	Investigations on Thermomagnetic Properties of YbFe ₂ As ₂ . <i>Journal of Low Temperature Physics</i> , 2021 , 202, 121-127	1.3	7
89	Hysteresis Energy Loss of Nanocrystalline CoFe ₂ O ₄ Synthesized by Modified Citrate-Gel Method. <i>Physics of the Solid State</i> , 2021 , 63, 1332-1336	0.8	3
88	Investigation of the Magnetocaloric Properties in Cu _{1.5} [Fe(CN) ₆]·H ₂ O and Mn _{1.5} [Fe(CN) ₆]·zH ₂ O. <i>Physics of Metals and Metallography</i> , 2021 , 122, 1458-1462	1.2	2
87	Investigation on Magnetocaloric Effect in Sc Doped Th ₂ NiC ₂ Superconductors. <i>Physics of Metals and Metallography</i> , 2021 , 122, 1454-1457	1.2	2
86	Characterization of excessive Sm ³⁺ -containing barium titanate prepared by tartrate precursor method. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15214-15221	5.5	3
85	The Simulated Magnetocaloric Properties for Ni _{0.5} Cu _{0.25} Zn _{0.25} Fe ₂ O ₄ Nanoferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 2521-2525	1.5	14

84	Investigations on Enhancing Thermomagnetic Properties in $\text{Co}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 2753-2757	1.5	12
83	Electrical properties and positron annihilation studies of nano-crystalline $\text{Co}_{1-x}\text{La}_x\text{Fe}_2\text{O}_4$ prepared by ceramic method. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	6
82	The dielectric and magnetic properties of RTV-silicon rubber Ni_xZr ferrite composites. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	12
81	The role of flash auto-combustion method and Mn doping in improving dielectric and magnetic properties of CoFe_2O_4 . <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	2
80	Magnetocaloric Effect for NaFeO_2 Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 3853-3856	1.5	8
79	The Enhancement of Thermomagnetic Properties for $\text{BaFe}_{12}\text{O}_{19}$ by Trivalent Ion Substitutions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 769-773	1.5	15
78	Tailoring optical transmittance of polyvinyl alcohol by FeCl_3 -doping for photovoltaic application. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	7
77	Thermomagnetic properties of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ nanofibers. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	13
76	The effect of Zr content on the thermal stability, dielectric and pyroelectric behavior for lead zirconate prepared by tartrate precursor method. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	5
75	Tailoring thermomagnetic properties in $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3\text{Ni}_{(1-x)}\text{Zn}_x\text{Fe}_2\text{O}_4$. <i>Phase Transitions</i> , 2019 , 92, 517-524	1.3	18
74	Physical modifications of polyvinyl alcohol films containing CoCl_2 . <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	8
73	Nickle Concentration Effect on Low Magnetic Field Magnetocaloric Properties for $\text{Ni}_{2+x}\text{Mn}_{1-x}\text{Ge}$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 1447-1450	1.5	16
72	Phenomenological Modeling of Magnetocaloric Effect in $\text{La}_{0.7}\text{Sr}_x\text{MnO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 3357-3360	1.5	16
71	Strong Correlation Between the Magnetocaloric Properties of Nanotubes of $\text{La}_{0.325}\text{Pr}_{0.3}\text{Ca}_{0.375}\text{MnO}_3$ and their Diameters. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 4091-4094	1.5	14
70	Simulated Hysteretic Loops for $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 3163-3166	1.5	2
69	Magnetocaloric Effect in $\text{La}_{1-x}\text{Li}_x\text{MnO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 4167-4171	1.5	16
68	Tailoring Magnetocaloric Effect in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3\text{TiO}_2$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 337-340	1.5	21
67	Tailored dielectric, magnetic and magnetoelectric properties of $\text{Cu}_{0.6}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4\text{-BaTiO}_3$ composites. <i>Materials Research Express</i> , 2018 , 5, 076102	1.7	12

66	Electrical properties and positron annihilation studies for $\text{La}_x\text{CoFe}_{2-x}\text{O}_4$. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	10
65	Phenomenological Modeling of Magnetocaloric Effect for $\text{Ni}_{58}\text{Fe}_{26}\text{Ga}_{16}$ Alloy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1895-1898	1.5	22
64	Characterization and microstructure study of Eriochrome black T- Co (II)- PVA composite film for photovoltaic application. <i>Synthetic Metals</i> , 2018 , 245, 202-208	3.6	8
63	ESR, thermoelectrical and positron annihilation Doppler broadening studies of $\text{CuZnFe}_2\text{O}_4$ - BaTiO_3 composite. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 429, 124-128	2.8	14
62	Large magnetocaloric effect of $\text{La}_{0.67}\text{Pb}_{0.33}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ in small magnetic field variation. <i>Ceramics International</i> , 2017 , 43, 7660-7662	5.1	28
61	Optical and Magnetic Properties of Polyvinyl Alcohol Films Filled with CoCl_2 , NiCl_2 , and FeCl_3 . <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2927-2931	1.5	7
60	Strong Correlations Between Positron Annihilation Spectroscopy and ESR for $\text{Mn}_{0.1}\text{Mg}_{x}\text{Zn}_{0.9-x}\text{Fe}_2\text{O}_4$ Ceramics. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 3143-3154	1.5	9
59	Calculations on Hard Ferroelectric $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ Dynamic Hysteresis. <i>Journal of Electronic Materials</i> , 2017 , 46, 888-894	1.9	3
58	Superior values of the initial permeability for electrodeposited NiCoB - $\text{BaFe}_{12}\text{O}_{19}$ composite films. <i>Phase Transitions</i> , 2017 , 90, 325-334	1.3	9
57	Magnetocaloric properties of $\text{La}_{0.666}\text{Sr}_{0.373}\text{Mn}_{0.943}\text{Cu}_{0.018}\text{O}_3$. <i>Processing and Application of Ceramics</i> , 2017 , 11, 225-228	1.4	10
56	Magnetocaloric Effect in $\text{Fe}_{3.5}\text{Co}_{66.5}\text{Si}_{12-x}\text{Ge}_x\text{B}_{18}$ Ribbons. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 2867-2871	1.5	20
55	Strong coercivity reduction and high initial permeability in NiCoP coated $\text{BaFe}_{12}\text{O}_{19}$ /Polystyrene bilayer composite. <i>Materials Research Express</i> , 2016 , 3, 036104	1.7	23
54	Initial Magnetic Permeability of M-Type $\text{BaFe}_{12}\text{O}_{19}$ -Polystyrene Composite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 2085-2088	1.5	19
53	Low Magnetic Field Magnetocaloric Effect in $(\text{Gd}_{1-x}\text{Eu}_x)_2\text{Ge}_4$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1539-1543	1.5	22
52	Greatly enhanced magnetic properties of electrodeposited NiCoB - $\text{BaFe}_{12}\text{O}_{19}$ composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 402, 105-109	2.8	20
51	Simulated magnetocaloric properties of MnCr_2O_4 spinel. <i>Processing and Application of Ceramics</i> , 2016 , 10, 33-36	1.4	23
50	Simulation of Wasp-Waisted Magnetic Hysteresis Loop for NiCoP -Coated $\text{BaFe}_{12}\text{O}_{19}$ /Polystyrene Bilayer Composite Film. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 2451-2453	1.5	15
49	Improvement of the thermal properties of a polystyrene via inclusion of barium hexaferrite particles. <i>Materials Research Express</i> , 2016 , 3, 075302	1.7	13

48	Magnetocaloric effect in $\text{La}_{1-x}\text{Ce}_x\text{MnO}_3$. <i>Journal of Advanced Ceramics</i> , 2015 , 4, 206-210	10.7	30
47	Great Magnetocaloric Effect of $\text{La}_{0.27}\text{Nd}_{0.4}\text{Ca}_{0.33}\text{MnO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3365-3369	1.5	19
46	Effects of Addition of Rare Earth on Magnetocaloric Effect in $\text{Fe}_{82}\text{Nb}_2\text{B}_{14}$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3111-3115	1.5	25
45	Lanthanum Concentration Effect of Magnetocaloric Properties in La_xMnO_3 . <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 173-178	1.5	24
44	Calculations of the Low-Field Magnetocaloric Effect in $\text{Fe}_4\text{MnSi}_3\text{B}_x$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 2223-2227	1.5	27
43	Theoretical Work on Effect of Pressure on Magnetocaloric Properties of $(\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3)$. <i>International Journal of Thermophysics</i> , 2015 , 36, 2748-2754	2.1	18
42	Synthesis and Characterization of Semi-crystalline NiCoP Film. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3629-3632	1.5	15
41	Remarkable magnetic enhancement of type-M hexaferrite of barium in polystyrene polymer. <i>AIP Advances</i> , 2015 , 5, 107131	1.5	39
40	Magnetocaloric Effect in $(\text{Pr}_{1-x}\text{Bi}_x)_{0.6}\text{Sr}_{0.4}\text{MnO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3329-3333	1.5	22
39	Monte Carlo Calculations of Magnetic Heat Capacity of $\text{La}_{0.7}\text{Sr}_{0.3-x}\text{MnO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 2525-2528	1.5	23
38	Magnetocaloric effect in $\text{Sr}_2\text{FeMoO}_6/\text{Ag}$ composites. <i>Processing and Application of Ceramics</i> , 2015 , 9, 11-15	1.4	34
37	Magnetocaloric effect in $\text{La}_{1.25}\text{Sr}_{0.75}\text{MnCoO}_6$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 523-526	4.1	38
36	NiCoMoTi Maraging Steel Hysteretic Loops Calculations. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 569-574		13
35	Magnetocaloric Effect in $\text{Sr}_{0.4}\text{Ba}_{1.6-x}\text{La}_x\text{FeMoO}_6$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 1777-1780	1.5	30
34	Calculation of Hysteresis Losses for Ferroelectric Soft Lead Zirconate Titanate Ceramics. <i>Journal of Electronic Materials</i> , 2014 , 43, 522-527	1.9	6
33	Giant isothermal entropy change in (111)-oriented PMNBT thin film. <i>Journal of Advanced Dielectrics</i> , 2014 , 04, 1450026	1.3	21
32	Simulation of Magnetocaloric Properties of Antiperovskite Structural $\text{Ga}_{1-x}\text{Al}_x\text{CMn}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 2569-2572	1.5	32
31	Magnetocaloric Effect of Perovskite $\text{Eu}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 277-280	1.5	33

30	Simulation of Magnetocaloric Effect in La _{0.7} Ca _{0.3} MnO ₃ Ceramics Fabricated by Fast Sintering Process. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 269-272	1.5	41
29	Magnetocaloric Effect in (001)-Oriented MnAs Thin Film. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 263-267	1.5	33
28	Magnetocaloric Effect in Nanopowders of Pr _{0.67} Ca _{0.33} Fe _x Mn _{1-x} O ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 223-227	1.5	35
27	Magnetocaloric effect in La _{0.65-x} EuxSr _{0.35} MnO ₃ . <i>Phase Transitions</i> , 2014 , 87, 460-467	1.3	43
26	Magnetocaloric Effect in La _{1-x} Cd _x MnO ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 3459-3462	1.5	33
25	Magnetocaloric Effect of Perovskite Manganites Ce _{0.67} Sr _{0.33} MnO ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 2981-2984	1.5	39
24	Magnetocaloric properties of La _{0.6} Ca _{0.4} MnO ₃ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 113, 609-613	4.1	29
23	Theoretical Investigations on Electrocaloric Properties of (PbZr _{0.95} Ti _{0.05} O ₃) Thin Film. <i>International Journal of Thermophysics</i> , 2013 , 34, 1158-1165	2.1	36
22	Giant electrocaloric effect of highly (1 0 0)-oriented 0.68PbMg _{1/3} Nb _{2/3} O ₃ ·0.32PbTiO ₃ thin film. <i>Philosophical Magazine Letters</i> , 2013 , 93, 346-355	1	27
21	Magnetocaloric Effect in Half-Metallic Double Perovskite Sr _(0.4-x) Ba _(1.6-x) Sr _x FeMoO ₆ . <i>International Journal of Thermophysics</i> , 2013 , 34, 2144-2151	2.1	27
20	Investigations on electrocaloric properties of [111]-oriented 0.955PbZn _{1/3} Nb _{2/3} O ₃ ·0.045PbTiO ₃ single crystals. <i>Phase Transitions</i> , 2013 , 86, 307-314	1.3	38
19	Calculations on Nanocrystalline CoFe ₂ O ₄ Prepared by Polymeric Precursor Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 669-673	1.5	31
18	Magneto-Caloric Effect in Ge _{0.95} Mn _{0.05} Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 449-453	1.5	37
17	Theoretical work on magnetocaloric effect in ceramic and sol-gel La _{0.67} Ca _{0.33} MnO ₃ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1251-1254	4.1	40
16	Room temperature giant electrocaloric properties of relaxor ferroelectric 0.93PMN-0.07PT thin film. <i>AIP Advances</i> , 2013 , 3, 032115	1.5	39
15	Magnetocaloric effect in La _{0.7} Sr _{0.3} MnO ₃ /Ta ₂ O ₅ composites. <i>Journal of Advanced Ceramics</i> , 2013 , 2, 213-217	10.7	33
14	Theoretical investigations on electrocaloric properties of (111)-oriented PbMg _{1/3} Nb _{2/3} O ₃ single crystal. <i>Journal of Advanced Ceramics</i> , 2013 , 2, 308-312	10.7	32
13	Investigations on electrocaloric properties of ferroelectric Pb(Mg _{0.067} Nb _{0.133} Zr _{0.8})O ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 142908	3.4	35

12	Detecting giant electrocaloric properties of ferroelectric SbSI at room temperature. <i>Journal of Advanced Dielectrics</i> , 2013 , 03, 1350008	1.3	40
11	Electrocaloric properties of Zr-modified Pb(Mg _{1/3} Nb _{2/3})O ₃ polycrystalline ceramics. <i>Journal of Advanced Dielectrics</i> , 2013 , 03, 1350029	1.3	23
10	Magnetocaloric effect in polycrystalline Gd _{1-x} CaxBaCo ₂ O _{5.5} . <i>Materials Letters</i> , 2012 , 82, 181-183	3.3	52
9	Detecting giant electrocaloric effect in Sr _x Ba _{1-x} Nb ₂ O ₆ single crystals. <i>Applied Physics Letters</i> , 2012 , 100, 192908	3.4	37
8	Prediction of thermomagnetic properties of La _{0.67} Ca _{0.33} MnO ₃ and La _{0.67} Sr _{0.33} MnO ₃ . <i>Phase Transitions</i> , 2012 , 85, 106-112	1.3	104
7	Calculation of electrocaloric properties of ferroelectric SrBi ₂ Ta ₂ O ₉ . <i>Phase Transitions</i> , 2012 , 85, 159-168	1.3	41
6	Theoretical investigations on electrocaloric properties of relaxor ferroelectric 0.9PbMg _{1/3} Nb _{2/3} O ₃ 0.1PbTiO ₃ thin film. <i>Journal of Computational Electronics</i> , 2012 , 11, 344-348	1.8	37
5	Theoretical work on magnetocaloric effect in La _{0.75} Ca _{0.25} MnO ₃ . <i>Journal of Advanced Ceramics</i> , 2012 , 1, 290-295	10.7	54
4	Prediction of Energy Loss of Ni _{0.58} Zn _{0.42} Fe ₂ O ₄ Nanocrystalline and Fe ₃ O ₄ Nanowire Arrays. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 085004	1.4	28
3	PMnO ₂ Nanorods Magnetocaloric Effect for Hydrogen Liquefaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 1	1.5	3
2	Investigation of thermomagnetic properties in Ca ₃ Co ₂ O ₆ over cryogenic temperature between 0 and 100 K. <i>Phase Transitions</i> , 1-7	1.3	7
1	Magnetocaloric Effect for La _{0.54} Sr _{0.27} Gd _{0.19} MnO ₃ Nanoparticles at Room and Cryogenic Temperatures. <i>Journal of Low Temperature Physics</i> , 1	1.3	0