

# Karl G Sandeman

## List of Publications by Year in descending order

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Version: 2024-02-01

37

papers

2,118

citations

257450

24

h-index

361022

35

g-index

37

all docs

37

docs citations

37

times ranked

2131

citing authors

#	ARTICLE	IF	CITATIONS
1	A bimetallic iron( $\text{Fe}_{1-x}\text{Mn}_x$ ) catalyst for CO <sub>2</sub> /epoxide coupling. Chemical Communications, 2011, 47, 212-214.	4.1	390
2	Magnetocaloric materials: The search for new systems. Scripta Materialia, 2012, 67, 566-571.	5.2	259
3	Solid-state cooling with caloric materials. Physics Today, 2015, 68, 48-54.	0.3	149
4	Negative magnetocaloric effect from highly sensitive metamagnetism in $\text{CoMnSi}_{1-x}\text{Ge}_x$ . Physical Review B, 2006, 74, .	3.2	121
5	Ferromagnetic Superconductivity Driven by Changing Fermi Surface Topology. Physical Review Letters, 2003, 90, 167005.	7.8	106
6	Giant Magnetoelastic Coupling in a Metallic Helical Metamagnet. Physical Review Letters, 2010, 104, 247202.	7.8	84
7	Reducing extrinsic hysteresis in first-order $\text{La}(\text{Fe},\text{Co},\text{Si})_{13}$ magnetocaloric systems. Applied Physics Letters, 2009, 95, .	3.3	83
8	Phase diagram and magnetocaloric effect of $\text{CoMnGe}$ . Journal of Magnetism and Magnetic Materials, 2009, 321, 3535-3540.	2.3	77
9	Giant Barocaloric Effect at the Spin Crossover Transition of a Molecular Crystal. Advanced Materials, 2019, 31, e1807334.	21.0	75
10	Structurally driven metamagnetism in MnP and related compounds. Physical Review B, 2010, 81, .	3.2	63
11	Capturing first- and second-order behavior in magnetocaloric materials. Physical Review B, 2009, 79, .	3.2	59
12	Evaluation of the reliability of the measurement of key magnetocaloric properties: A round robin study of $\text{La}(\text{Fe},\text{Si},\text{Mn})\text{H}_3$ conducted by the SSEEC consortium of European laboratories. International Journal of Refrigeration, 2012, 35, 1528-1536.	3.4	54
13	Piezomagnetism as a counterpart of the magnetovolume effect in magnetically frustrated Mn-based antiperovskite nitrides. Physical Review B, 2017, 96, .	3.2	51
14	Frustrated magnetism and caloric effects in Mn-based antiperovskite nitrides: <i>Ab initio</i> theory. Physical Review B, 2017, 95, .	3.2	48
15	Magnetoelastic effects in doped Fe <sub>1-x</sub> Mn <sub>x</sub> . Physical Review B, 2013, 88, .	3.2	40
16	Spontaneous magnetization above T <sub>C</sub> in polycrystalline $\text{La}_0.7\text{Ca}_0.3\text{MnO}_3$ and $\text{La}_0.7\text{Ba}_0.3\text{MnO}_3$ . Physical Review B, 2014, 90, .	3.2	37
17	Measurement of the magnetocaloric properties of $\text{CoMn}_{1-x}\text{Fe}_x$ . Physical Review B, 2008, 78, .	3.2	36

#	ARTICLE		IF	CITATIONS
19	Magnetoelastic coupling and competing entropy changes in substituted CoMnSi metamagnets. Physical Review B, 2013, 87, .		3.2	36
20	Tuning the metamagnetism of an antiferromagnetic metal. Physical Review B, 2013, 87, .		3.2	34
21	Research Update: The mechanocaloric potential of spin crossover compounds. APL Materials, 2016, 4, .		5.1	32
22	Contributions to the entropy change in melt-spun LaFe <sub>11.6</sub> Si <sub>1.4</sub> . Journal Physics D: Applied Physics, 2010, 43, 132001.		2.8	28
23	History dependence of directly observed magnetocaloric effects in (Mn, Fe)As. Applied Physics Letters, 2012, 100, .		3.3	26
24	Model of anisotropic scattering in a quasi-two-dimensional metal. Physical Review B, 2001, 63, .		3.2	25
25	The magnetocaloric performance in pure and mixed magnetic phase CoMnSi. Journal Physics D: Applied Physics, 2010, 43, 195001.		2.8	21
26	Magnetic refrigeration: phase transitions, itinerant magnetism and spin fluctuations. Philosophical Magazine, 2012, 92, 292-303.		1.6	21
27	Microstructural control and tuning of thermal conductivity in La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> . Scripta Materialia, 2013, 68, 510-513.		5.2	21
28	The dynamics of spontaneous hydrogen segregation in LaFe <sub>13</sub> . Journal of Applied Physics, 2014, 115, .		2.5	19
29	Extraordinary induction heating effect near the first order Curie transition. Applied Physics Letters, 2014, 105, .		3.3	19
30	Electronic structure, metamagnetism and thermopower of LaSiFe <sub>12</sub> and interstitially doped LaSiFe <sub>12</sub> . Journal Physics D: Applied Physics, 2018, 51, 034003.		2.8	18
31	Room temperature dielectric bistability in solution-processed spin crossover polymer thin films. Journal of Materials Chemistry C, 2016, 4, 6240-6248.		5.5	17
32	The normal-state resistivity of grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . Applied Physics Letters, 2004, 84, 4089-4091.		3.3	11
33	Effect of direct-current magnetic field on the specific absorption rate of metamagnetic CoMnSi: A potential approach to switchable hyperthermia therapy. AIP Advances, 2020, 10, 015128.		1.3	6
34	Contributions to the entropy change in melt-spun LaFe <sub>11.6</sub> Si <sub>1.4</sub> . Journal Physics D: Applied Physics, 2012, 45, 179501.		2.8	2
35	Fabrication of magnetocaloric La(Fe,Si) <sub>13</sub> thick films. Journal of Applied Physics, 2020, 127, 215103.		2.5	2
36	Magnetocaloric Materials and Applications. , 2021, , 1-38.			2

# ARTICLE

IF CITATIONS

37 Magnetocaloric Materials and Applications. , 2021, , 1489-1526.

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