# Karl G Sandeman

List of Publications by Year
in descending order



| 37 | 2,118 | 257450 24 | 361022 35 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 37 | 37 | 37 | 2131 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetocaloric Materials and Applications. , 2021, , 1-38. | | 2 |
| 2 | Magnetocaloric Materials and Applications. , 2021, , 1489-1526. | | 0 |
| 3 | Fabrication of magnetocaloric La(Fe,Si)13 thick films. Journal of Applied Physics, 2020, 127, 215103. | 2.5 | 2 |
| 4 | 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 |
| 5 | Giant Barocaloric Effect at the Spin Crossover Transition of a Molecular Crystal. Advanced Materials, 2019, 31, e1807334. | 21.0 | 75 |
| 6 | 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 |
| 7 | Piezomagnetism as a counterpart of the magnetovolume effect in magnetically frustrated Mn-based antiperovskite nitrides. Physical Review B, 2017, 96, . | 3.2 | 51 |
| 8 | Frustrated magnetism and caloric effects in Mn-based antiperovskite nitrides: Ab initio theory. Physical Review B, 2017, 95, . | 3.2 | 43 |
| 9 | Research Update: The mechanocaloric potential of spin crossover compounds. APL Materials, 2016, 4, . | 5.1 | 32 |
| 10 | Room temperature dielectric bistability in solution-processed spin crossover polymer thin films. Journal of Materials Chemistry C, 2016, 4, 6240-6248. | 5.5 | 17 |
| 11 | Solid-state cooling with caloric materials. Physics Today, 2015, 68, 48-54. | 0.3 | 149 |
| 12 | The dynamics of spontaneous hydrogen segregation in LaFe13âˆ’xSixHy. Journal of Applied Physics, 2014, 115, . | 2.5 | 19 |
| 13 | Extraordinary induction heating effect near the first order Curie transition. Applied Physics Letters, 2014, 105, . | 3.3 | 19 |
| 14 | Spontaneous magnetization aboveTCin polycrystallineLa0.7Ca0.3MnO3andLa0.7Ba0.3MnO3. Physical Review B, 2014, 90, . | 3.2 | 37 |
| 15 | Magnetoelastic effects in doped Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>P. Physical Review B, 2013, 88, . | 3.2 | 40 |
| 16 | Microstructural control and tuning of thermal conductivity in La0.67Ca0.33MnO3Â±Î´. Scripta Materialia, 2013, 68, 510-513. | 5.2 | 21 |
| 17 | Tuning the metamagnetism of an antiferromagnetic metal. Physical Review B, 2013, 87, . | 3.2 | 34 |
| 18 | Magnetoelastic coupling and competing entropy changes in substituted CoMnSi metamagnets. Physical Review B, 2013, 87, . | 3.2 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetic refrigeration: phase transitions, itinerant magnetism and spin fluctuations. Philosophical Magazine, 2012, 92, 292-303. | 1.6 | 21 |
| 20 | Evaluation of the reliability of the measurement of key magnetocaloric properties: A round robin study of La(Fe,Si,Mn)HÎ´ conducted by the SSEEC consortium of European laboratories. International Journal of Refrigeration, 2012, 35, 1528-1536. | 3.4 | 54 |
| 21 | 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 |
| 22 | Magnetocaloric materials: The search for new systems. Scripta Materialia, 2012, 67, 566-571. | 5.2 | 259 |
| 23 | History dependence of directly observed magnetocaloric effects in (Mn, Fe)As. Applied Physics Letters, 2012, 100, . | 3.3 | 26 |
| 24 | A bimetallic iron(<scp>iii</scp>) catalyst for CO<sub>2</sub>/epoxide coupling. Chemical Communications, 2011, 47, 212-214. | 4.1 | 390 |
| 25 | Designed tricritical magnetism in CoMnSi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Revi | 3.2 | 51 |
| 26 | 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 |
| 27 | The magnetocaloric performance in pure and mixed magnetic phase CoMnSi. Journal Physics D: Applied Physics, 2010, 43, 195001. | 2.8 | 21 |
| 28 | Giant Magnetoelastic Coupling in a Metallic Helical Metamagnet. Physical Review Letters, 2010, 104, 247202. | 7.8 | 84 |
| 29 | Structurally driven metamagnetism in MnP and related<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>P</mml:mi><mml:mi>n</mml:mi><mml:mi>m</mml:mi><mml:mi>a</mml:mi></mml:mrow></m Physical Review B, 2010, 81, . | 3.2 | 63 |
| 30 | Capturing first- and second-order behavior in magnetocaloric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CoMnSi</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.92< Physical Review B, 2009, 79, . | 3.2 | 59 |
| 31 | Reducing extrinsic hysteresis in first-order La(Fe,Co,Si)13 magnetocaloric systems. Applied Physics Letters, 2009, 95, . | 3.3 | 83 |
| 32 | Phase diagram and magnetocaloric effect of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>CoMnGe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo Journal of Magnetism and Magnetic Materials, 2009, 321, 3535-3540. | 2.3 | 77 |
| 33 | Measurement of the magnetocaloric properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CoMn</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.95 Large change with Fe substitution. Physical Review B, 2008, 78, . | 3.2 | 36 |
| 34 | Negative magnetocaloric effect from highly sensitive metamagnetism inCoMnSi1â^’xGex. Physical Review B, 2006, 74, . | 3.2 | 121 |
| 35 | The normal-state resistivity of grain boundaries in YBa2Cu3O7â^’Î´. Applied Physics Letters, 2004, 84, 4089-4091. | 3.3 | 11 |
| 36 | Ferromagnetic Superconductivity Driven by Changing Fermi Surface Topology. Physical Review Letters, 2003, 90, 167005. | 7.8 | 106 |

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|---|---|---|---|
| 37 | Model of anisotropic scattering in a quasi-two-dimensional metal. Physical Review B, 2001, 63, . | 3.2 | 25 |