# Konstantin P Skokov

List of Publications by Year
in descending order



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|---|---|---|---|
| 231 papers | 7,809 citations | 57758 44 h-index | 60623 81 g-index |
| 235 all docs | 235 docs citations | 235 times ranked | 3613 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Giant magnetocaloric effect driven by structural transitions. Nature Materials, 2012, 11, 620-626. | 27.5 | 1,266 |
| 2 | A quantitative criterion for determining the order of magnetic phase transitions using the magnetocaloric effect. Nature Communications, 2018, 9, 2680. | 12.8 | 273 |
| 3 | Mastering hysteresis in magnetocaloric materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150308. | 3.4 | 210 |
| 4 | Large reversible magnetocaloric effect in Ni-Mn-In-Co. Applied Physics Letters, 2015, 106, . | 3.3 | 181 |
| 5 | Systematic study of the microstructure, entropy change and adiabatic temperature change in optimized Laâ€“Feâ€“Si alloys. Acta Materialia, 2011, 59, 3602-3611. | 7.9 | 177 |
| 6 | A multicaloric cooling cycle that exploits thermal hysteresis. Nature Materials, 2018, 17, 929-934. | 27.5 | 158 |
| 7 | Exploring La(Fe,Si)13-based magnetic refrigerants towards application. Scripta Materialia, 2012, 67, 584-589. | 5.2 | 157 |
| 8 | Heavy rare earth free, free rare earth and rare earth free magnets - Vision and reality. Scripta Materialia, 2018, 154, 289-294. | 5.2 | 149 |
| 9 | Giant adiabatic temperature change in FeRh alloys evidenced by direct measurements under cyclic conditions. Acta Materialia, 2016, 106, 15-21. | 7.9 | 145 |
| 10 | Making a Cool Choice: The Materials Library of Magnetic Refrigeration. Advanced Energy Materials, 2019, 9, 1901322. | 19.5 | 140 |
| 11 | High-field magnetization of Ho<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>17</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Re | 3.2 | 127 |
| 12 | Hysteresis and magnetocaloric effect at the magnetostructural phase transition of Ni-Mn-Ga and Ni-Mn-Co-Sn Heusler alloys. Physical Review B, 2012, 85, . | 3.2 | 119 |
| 13 | Contradictory role of the magnetic contribution in inverse magnetocaloric Heusler materials. Physical Review B, 2016, 93, . | 3.2 | 112 |
| 14 | Giant Rotating Magnetocaloric Effect in the Region of Spin-Reorientation Transition in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>NdCo</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>Single Crystal. Physical Review Letters, 2010, 105, 137205. | 7.8 | 111 |
| 15 | Selective laser melting of La(Fe,Co,Si)13 geometries for magnetic refrigeration. Journal of Applied Physics, 2013, 114, . | 2.5 | 111 |
| 16 | Grain boundary diffusion of different rare earth elements in Nd-Fe-B sintered magnets by experiment and FEM simulation. Acta Materialia, 2017, 124, 421-429. | 7.9 | 111 |
| 17 | Systematic investigation of Mn substituted La(Fe,Si)13 alloys and their hydrides for room-temperature magnetocaloric application. Journal of Alloys and Compounds, 2014, 598, 27-32. | 5.5 | 107 |
| 18 | Peculiarities of the magnetocaloric properties in Ni-Mn-Sn ferromagnetic shape memory alloys. Physical Review B, 2010, 81, . | 3.2 | 96 |

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| 19 | Microstructural and magnetic properties of Mn-Fe-P-Si (Fe2 P-type) magnetocaloric compounds. Acta Materialia, 2017, 132, 222-229. | 7.9 | 92 |
| 20 | Towards high-performance permanent magnets without rare earths. Journal of Physics Condensed Matter, 2014, 26, 064205. | 1.8 | 91 |
| 21 | Epoxy-bonded Laâ€“Feâ€“Coâ€“Si magnetocaloric plates. Journal of Magnetism and Magnetic Materials, 2015, 375, 65-73. | 2.3 | 82 |
| 22 | On the S(T) diagram of magnetocaloric materials with first-order transition: Kinetic and cyclic effects of Heusler alloys. Acta Materialia, 2016, 107, 1-8. | 7.9 | 82 |
| 23 | Hysteresis Design of Magnetocaloric Materialsâ€"From Basic Mechanisms to Applications. Energy Technology, 2018, 6, 1397-1428. | 3.8 | 79 |
| 24 | The effect of the thermal decomposition reaction on the mechanical and magnetocaloric properties of La(Fe,Si,Co)13. Acta Materialia, 2012, 60, 4268-4276. | 7.9 | 76 |
| 25 | On the preparation of La(Fe,Mn,Si)13H polymer-composites with optimized magnetocaloric properties. Journal of Magnetism and Magnetic Materials, 2015, 396, 228-236. | 2.3 | 73 |
| 26 | Reversibility and irreversibility of magnetocaloric effect in a metamagnetic shape memory alloy under cyclic action of a magnetic field. Applied Physics Letters, 2010, 97, 052503. | 3.3 | 71 |
| 27 | High-performance solid-state cooling materials: Balancing magnetocaloric and non-magnetic properties in dual phase La-Fe-Si. Acta Materialia, 2017, 125, 506-512. | 7.9 | 71 |
| 28 | Influence of thermal hysteresis and field cycling on the magnetocaloric effect in LaFe11.6Si1.4. Journal of Alloys and Compounds, 2013, 552, 310-317. | 5.5 | 70 |
| 29 | Production and properties of metal-bonded La(Fe,Mn,Si)13H composite material. Acta Materialia, 2017, 127, 389-399. | 7.9 | 70 |
| 30 | Dynamical Effects of the Martensitic Transition in Magnetocaloric Heusler Alloys from Direct<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î"</mml:mi><mml:msub><mml:mi>T</mml:mi><mml:mi>ad</mml:mi></mml:msub></mml:math>Measurements under Different Magnetic-Field-Sweep Rates. Physical Review Applied, 2016, 5, . | 3.8 | 68 |
| 31 | Heat exchangers made of polymer-bonded La(Fe,Si)13. Journal of Applied Physics, 2014, 115, . | 2.5 | 66 |
| 32 | Microstructure and magnetic properties of Mnâ€“Alâ€“C alloy powders prepared by ball milling. Journal of Alloys and Compounds, 2015, 622, 524-528. | 5.5 | 65 |
| 33 | Tailoring magnetocaloric effect in all-d-metal Ni-Co-Mn-Ti Heusler alloys: a combined experimental and theoretical study. Acta Materialia, 2020, 201, 425-434. | 7.9 | 65 |
| 34 | Magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:m[illegible] /><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">B</mml:mi></mml:mrow></mml:math>alloys and the effect of doping by<mml:math xmlns:mml="http://www.w3.org/1998/Mat. Physical Review B, 2015, 92, . | 3.2 | 62 |
| 35 | Assessment of the magnetocaloric effect in La,Pr(Fe,Si) under cycling. Journal of Magnetism and Magnetic Materials, 2016, 406, 259-265. | 2.3 | 62 |
| 36 | Magnetocaloric effect of gadolinium in high magnetic fields. Physical Review B, 2019, 99, . | 3.2 | 60 |

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| 37 | Adiabatic temperature change at first-order magnetic phase transitions:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>2.19</m a case study. Physical Review B, 2008, 78, . | 3.2 | 59 |
| 38 | A new type of La(Fe,Si)13-based magnetocaloric composite with amorphous metallic matrix. Scripta Materialia, 2015, 95, 50-53. | 5.2 | 57 |
| 39 | A Matter of Size and Stress: Understanding the Firstâ€Order Transition in Materials for Solidâ€State Refrigeration. Advanced Functional Materials, 2017, 27, 1606735. | 14.9 | 55 |
| 40 | 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 |
| 41 | Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si)<sub>13</sub>. Physica Status Solidi - Rapid Research Letters, 2015, 9, 136-140. | 2.4 | 54 |
| 42 | Magnetostructural transition and adiabatic temperature change in Mnâ€“Coâ€“Ge magnetic refrigerants. Scripta Materialia, 2012, 66, 642-645. | 5.2 | 53 |
| 43 | Magnetocaloric materials with first-order phase transition: thermal and magnetic hysteresis in LaFe11.8Si1.2 and Ni2.21Mn0.77Ga1.02 (invited). Journal of Applied Physics, 2012, 111, . | 2.5 | 50 |
| 44 | Large entropy change, adiabatic temperature change, and small hysteresis in La(Fe,Mn)11.6Si1.4 strip-cast flakes. Journal of Magnetism and Magnetic Materials, 2015, 377, 90-94. | 2.3 | 46 |
| 45 | A Comparative Study on the Magnetocaloric Properties of Niâ€Mnâ€X(â€Co) Heusler Alloys. Physica Status Solidi (B): Basic Research, 2018, 255, 1700331. | 1.5 | 45 |
| 46 | The role of Ni in modifying the order of the phase transition of La(Fe,Ni,Si)13. Acta Materialia, 2018, 160, 137-146. | 7.9 | 45 |
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| 48 | Reversible solid-state hydrogen-pump driven by magnetostructural transformation in the prototype system La(Fe,Si)13H<i>y</i>. Journal of Applied Physics, 2012, 112, . | 2.5 | 44 |
| 49 | Reversibility of minor hysteresis loops in magnetocaloric Heusler alloys. Applied Physics Letters, 2017, 110, . | 3.3 | 42 |
| 50 | Effect of carbon on magnetocaloric effect of LaFe11.6Si1.4 compounds and on the thermal stability of its hydrides. Journal of Applied Physics, 2012, 111, . | 2.5 | 41 |
| 51 | Database of novel magnetic materials for high-performance permanent magnet development. Computational Materials Science, 2019, 168, 188-202. | 3.0 | 41 |
| 52 | Magnetic field dependence of the maximum adiabatic temperature change. Applied Physics Letters, 2011, 99, . | 3.3 | 39 |
| 53 | Predicting the tricritical point composition of a series of LaFeSi magnetocaloric alloys via universal scaling. Journal Physics D: Applied Physics, 2017, 50, 414004. | 2.8 | 38 |
| 54 | Giant induced anisotropy ruins the magnetocaloric effect in gadolinium. Journal of Magnetism and Magnetic Materials, 2013, 331, 33-36. | 2.3 | 34 |

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| 55 | Twins â€“ A weak link in the magnetic hardening of ThMn12-type permanent magnets. Acta Materialia, 2021, 214, 116968. | 7.9 | 31 |
| 56 | Magnetocaloric and magnetic properties of Ni2Mn1âˆ’<i>x</i>Cu<i>x</i>Ga Heusler alloys: An insight from the direct measurements and <i>ab initio</i> and Monte Carlo calculations. Journal of Applied Physics, 2013, 114, . | 2.5 | 30 |
| 57 | First-Order Reversal Curve (FORC) Analysis of Magnetocaloric Heusler-Type Alloys. IEEE Magnetics Letters, 2016, 7, 1-4. | 1.1 | 30 |
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| 59 | Consolidation of cobalt nanorods: A new route for rare-earth free nanostructured permanent magnets. Acta Materialia, 2018, 145, 290-297. | 7.9 | 30 |
| 60 | Microstructure engineering of metamagnetic Ni-Mn-based Heusler compounds by Fe-doping: A roadmap towards excellent cyclic stability combined with large elastocaloric and magnetocaloric effects. Acta Materialia, 2021, 221, 117390. | 7.9 | 30 |
| 61 | Spin reorientation in high magnetic fields and the Co-Gd exchange field inGdCo5. Physical Review B, 2004, 70, . | 3.2 | 29 |
| 62 | The maximal cooling power of magnetic and thermoelectric refrigerators with La(FeCoSi)13 alloys. Journal of Applied Physics, 2013, 113, . | 2.5 | 29 |
| 63 | Magnetostriction and magnetic anisotropy in TbFe11TiHX (x=0, 1) single crystals. Journal of Alloys and Compounds, 2001, 322, 42-44. | 5.5 | 28 |
| 64 | High-field magnetization measurements onEr2Fe17single crystals. Physical Review B, 2007, 75, . | 3.2 | 28 |
| 65 | Polymer-Bonded La(Fe,Mn,Si)<sub>13</sub>H<sub> <i>x</i> </sub> Plates for Heat Exchangers. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 28 |
| 66 | Direct Measurement of the Magnetocaloric Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>La</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>Fe</mml:mi><mml:mo>,</mml:mo><mml:mi>Si</mml:mi><mml:mo>,</mml:mo><mml:mi>Co</ in Pulsed Magnetic Fields. Physical Review Applied, 2017, 8, . | 3.8 | 28 |
| 67 | Microstructural origin of hysteresis in Ni-Mn-In based magnetocaloric compounds. Acta Materialia, 2018, 147, 342-349. | 7.9 | 28 |
| 68 | Magnetocrystalline anisotropy of R2Fe17Hx (x=0, 3) single crystals. Journal of Alloys and Compounds, 2003, 350, 264-270. | 5.5 | 27 |
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| 72 | Nanocrystalline Sm-based 1:12 magnets. Acta Materialia, 2020, 200, 652-658. | 7.9 | 26 |

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| 73 | Influence of sample geometry on determination of magnetocaloric effect for Gd60Co30Al10 glassy ribbons using direct and indirect methods. Journal of Magnetism and Magnetic Materials, 2011, 323, 1782-1786. | 2.3 | 25 |
| 74 | Magnetocaloric effect in GdNi2 for cryogenic gas liquefaction studied in magnetic fields up to 50â€‰T. Journal of Applied Physics, 2020, 127, . | 2.5 | 25 |
| 75 | Dependence of the inverse magnetocaloric effect on the field-change rate in Mn3GaC and its relationship to the kinetics of the phase transition. Journal of Applied Physics, 2015, 117, 233902. | 2.5 | 24 |
| 76 | Rapid solidification of Nd1+XFe11Ti compounds: Phase formation and magnetic properties. Acta Materialia, 2019, 180, 15-23. | 7.9 | 24 |
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| 78 | Effect of severe plastic deformation on the specific heat and magnetic properties of cold rolled Gd sheets. Journal of Applied Physics, 2015, 117, . | 2.5 | 23 |
| 79 | Magnetic, magnetocaloric and structural properties of manganese based monoborides doped with iron and cobalt â€“ A candidate for thermomagnetic generators. Acta Materialia, 2016, 113, 213-220. | 7.9 | 23 |
| 80 | Influence of thermal treatment on magnetocaloric properties of Gd cold rolled ribbons. Journal of Applied Physics, 2013, 113, 17A933. | 2.5 | 22 |
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| 82 | Pressure Dependence of Magnetic Properties in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>La</mml:mi><mml:mo>(</mml:mo><mml:mi>Fe</mml:mi><mml:mo>,</mml:mo : Multistimulus Responsiveness of Caloric Effects by Modeling and Experiment. Physical Review Applied, 2020, 13, . | 3.8 | 22 |
| 83 | Bulk combinatorial analysis for searching new rare-earth free permanent magnets: Reactive crucible melting applied to the Fe-Sn binary system. Acta Materialia, 2017, 141, 434-443. | 7.9 | 21 |
| 84 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mr rare-earth-free permanent magnets: The effects of twinning versus dislocations in Mn-Al magnets. Physical Review Materials, 2020, 4, . | 2.4 | 21 |
| 85 | Plastically deformed Gd-X (Xâ€¯=â€¯Y, In, Zr, Ga, B) solid solutions for magnetocaloric regenerator of parallel plate geometry. Journal of Alloys and Compounds, 2018, 754, 207-214. | 5.5 | 19 |
| 86 | Design and Qualification of Prâ€“Feâ€“Cuâ€“B Alloys for the Additive Manufacturing of Permanent Magnets. Advanced Functional Materials, 2021, 31, 2102148. | 14.9 | 19 |
| 87 | Influence of microstructure on the application of Ni-Mn-In Heusler compounds for multicaloric cooling using magnetic field and uniaxial stress. Acta Materialia, 2021, 217, 117157. | 7.9 | 18 |
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| 92 | Determining anisotropy constants from a first-order magnetization process in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Tb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>17</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, . | 3.2 | 17 |
| 93 | Er2Fe14B single crystal as magnetic refrigerant at the spin reorientation transition. Journal of Applied Physics, 2011, 109, . | 2.5 | 17 |
| 94 | The search for room temperature tetragonal phases of Fe-Mn-Ga: A reactive crucible melting approach. Journal of Alloys and Compounds, 2016, 683, 198-204. | 5.5 | 17 |
| 95 | Properties of magnetically semi-hard (FexCo1â^'x)3B compounds. Journal of Alloys and Compounds, 2017, 696, 543-547. | 5.5 | 17 |
| 96 | Tuning the magnetocrystalline anisotropy ofFe3Snby alloying. Physical Review B, 2019, 99, . | 3.2 | 17 |
| 97 | Magnetic Refrigeration with Recycled Permanent Magnets and Free Rareâ€Earth Magnetocaloric Laâ€"Feâ€"Si. Energy Technology, 2020, 8, 1901025. | 3.8 | 17 |
| 98 | Microstructure, coercivity and thermal stability of nanostructured (Nd,Ce)-(Fe,Co)-B hot-compacted permanent magnets. Acta Materialia, 2022, 235, 118062. | 7.9 | 17 |
| 99 | Magnetic Properties of (Fe,Co)<sub>2</sub>B Alloys With Easy-Axis Anisotropy. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 16 |
| 100 | Direct measurement of the magnetocaloric effect in cementite. Journal of Magnetism and Magnetic Materials, 2016, 410, 105-108. | 2.3 | 16 |
| 101 | The effect of plastic deformation on magnetic and magnetocaloric properties of Gd-B alloys. Journal of Magnetism and Magnetic Materials, 2017, 442, 360-363. | 2.3 | 16 |
| 102 | Giant voltage-induced modification of magnetism in micron-scale ferromagnetic metals by hydrogen charging. Nature Communications, 2020, 11, 4849. | 12.8 | 16 |
| 103 | Textured (Ce,La,Y)â€"Feâ€"B permanent magnets by hot deformation. Journal of Materials Research and Technology, 2022, 17, 1459-1468. | 5.8 | 16 |
| 104 | Spin-reorientation transitions and magnetic anisotropy in TbFe11â^'Co Ti compounds. Journal of Alloys and Compounds, 1998, 280, 20-25. | 5.5 | 15 |
| 105 | Heat Exchangers From Metal-Bonded La(Fe,Mn,Si)<sub>13</sub>H<sub><i>x</i></sub>Powder. IEEE Transactions on Magnetics, 2017, 53, 1-7. | 2.1 | 15 |
| 106 | Production of net-shape Mn-Al permanent magnets by electron beam melting. Additive Manufacturing, 2019, 30, 100787. | 3.0 | 15 |
| 107 | Structural and magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ce</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mm Acta Materialia, 2019, 172, 131-138. | 7.9 | 15 |
| 108 | Influence of hydrogenation on the vibrational density of states of magnetocaloric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>LaFe</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>11.4</mml:mn></mml:mrow></mml:msub><mml:mi>Si</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2020, | 3.2 | 15 |

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| 109 | Magnetic anisotropy of La2Co7. Journal of Applied Physics, 2015, 118, . | 2.5 | 14 |
| 110 | A unified approach to describe the thermal and magnetic hysteresis in Heusler alloys. Applied Physics Letters, 2016, 109, . | 3.3 | 14 |
| 111 | Experimental and computational analysis of binary Fe-Sn ferromagnetic compounds. Acta Materialia, 2019, 180, 126-140. | 7.9 | 14 |
| 112 | Magnetization of a Gd3Ni single crystal. Journal of Alloys and Compounds, 2002, 334, 40-44. | 5.5 | 13 |
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| 117 | Rotational Magnetocaloric Effect in the Er<sub>2</sub>Fe<sub>14</sub>B Single Crystal. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 13 |
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