

Anil Aryal

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Multifunctional properties related to magnetostructural transitions in ternary and quaternary Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 383, 186-189. | 2.3 | 63 |
| 2 | Magnetostructural phase transitions and magnetocaloric effects in as-cast Mn _{1-x} Al _x CoGe compounds. Journal of Alloys and Compounds, 2017, 709, 142-146. | 5.5 | 43 |
| 3 | Magnetic, transport, and magnetocaloric properties of boron doped Ni-Mn-In alloys. Journal of Applied Physics, 2015, 117, . | 2.5 | 39 |
| 4 | Giant reversible inverse magnetocaloric effects in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloys. Journal of Alloys and Compounds, 2016, 683, 139-142. | 5.5 | 34 |
| 5 | Magnetocaloric effect in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloy in low and high magnetic fields. JETP Letters, 2015, 101, 385-389. | 1.4 | 31 |
| 6 | Inverse magnetocaloric effects in metamagnetic Ni-Mn-In-based alloys in high magnetic fields. Journal of Alloys and Compounds, 2017, 695, 3348-3352. | 5.5 | 27 |
| 7 | Large Inverse Magnetocaloric Effects and Giant Magnetoresistance in Ni-Mn-Cr-Sn Heusler Alloys. Magnetochemistry, 2017, 3, 3. | 2.4 | 25 |
| 8 | Effects of magnetic and structural phase transitions on the normal and anomalous Hall effects in Ni-Mn-In-B Heusler alloys. Physical Review B, 2020, 101, . | 3.2 | 24 |
| 9 | Mn ₂ FeSi: An antiferromagnetic inverse-Heusler alloy. Journal of Alloys and Compounds, 2020, 823, 153770. | 5.5 | 22 |
| 10 | Giant field-induced adiabatic temperature changes in In-based off-stoichiometric Heusler alloys. Journal of Applied Physics, 2017, 121, . | 2.5 | 20 |
| 11 | The effects of substituting Ag for In on the magnetoresistance and magnetocaloric properties of Ni-Mn-In Heusler alloys. AIP Advances, 2016, 6, . | 1.3 | 17 |
| 12 | Effects of annealing on the magnetic properties and magnetocaloric effects of B doped Ni-Mn-In melt-spun ribbons. Journal of Alloys and Compounds, 2018, 731, 678-684. | 5.5 | 17 |
| 13 | Phase transitions and magnetocaloric and transport properties in off-stoichiometric GdNi ₂ Mnx. Journal of Applied Physics, 2016, 119, . | 2.5 | 15 |
| 14 | Magnetocaloric effects and transport properties of rare-earth (R=La, Pr, Sm) doped Ni _{50-x} R _x Mn ₃₅ Sn ₁₅ Heusler alloys. Journal of Alloys and Compounds, 2017, 717, 254-259. | 5.5 | 15 |
| 15 | Magnetocaloric, thermal, and magnetotransport properties of Ni ₅₀ Mn ₃₅ In _{13.9} B _{1.1} Heusler alloy. Journal of Magnetism and Magnetic Materials, 2017, 444, 98-101. | 2.3 | 14 |
| 16 | Thermosensitive Ni-based magnetic particles for self-controlled hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2017, 427, 200-205. | 2.3 | 13 |
| 17 | Comparing magnetostructural transitions in Ni ₅₀ Mn _{18.75} Cu _{6.25} Ga ₂₅ and Ni _{49.80} Mn _{34.66} In _{15.54} Heusler alloys. Journal of Magnetism and Magnetic Materials, 2016, 401, 1145-1149. | 2.3 | 12 |
| 18 | Phase Transitions and Magnetocaloric Properties in MnCo _{1-x} Zr _x Ge Compounds. Advances in Condensed Matter Physics, 2017, 2017, 1-6. | 1.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | The effects of hydrostatic pressure on the martensitic transition, magnetic, and magnetocaloric effects of Ni ₄₅ Mn ₄₃ CoSn ₁₁ . MRS Communications, 2017, 7, 885-890. | 1.8 | 9 |
| 20 | Large reversible magnetic entropy change in rapidly solidified Ni _{0.895} Cr _{0.105} MnGe _{1.05} melt-spun ribbons. Intermetallics, 2018, 97, 89-94. | 3.9 | 9 |
| 21 | Influence of copper substitution on the magnetic and magnetocaloric properties of NiMnInB alloys. Journal of Applied Physics, 2015, 117, . | 2.5 | 8 |
| 22 | Magnetic and magneto-transport studies of substrate effect on the martensitic transformation in a NiMnIn shape memory alloy. AIP Advances, 2016, 6, . | 1.3 | 8 |
| 23 | Magnetostructural transitions and magnetocaloric effects in Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} ribbons. AIP Advances, 2018, 8, 056434. | 1.3 | 8 |
| 24 | Direct and indirect measurements of the magnetic and magnetocaloric properties of Ni _{0.895} Cr _{0.105} MnGe _{1.05} melt-spun ribbons in high magnetic fields. Journal of Magnetism and Magnetic Materials, 2019, 488, 165359. | 2.3 | 8 |
| 25 | Kinetic effects in the magnetic and magnetocaloric properties of metamagnetic Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} . Journal of Magnetism and Magnetic Materials, 2018, 459, 98-101. | 2.3 | 7 |
| 26 | Phase diagram and magnetocaloric effects in Ni _{1-x} Cr _x MnGe _{1.05} . Journal of Applied Physics, 2015, 117, . | 2.5 | 6 |
| 27 | Effects of the partial substitution of Ni by Cr on the transport, magnetic, and magnetocaloric properties of Ni ₅₀ Mn ₃₇ In ₁₃ . AIP Advances, 2017, 7, . | 1.3 | 6 |
| 28 | Effect of Bi substitution on the magnetic and magnetocaloric properties of Ni ₅₀ Mn ₃₅ In _{15-x} Bi _x Heusler alloys. AIP Advances, 2018, 8, 056409. | 1.3 | 6 |
| 29 | Relaxation phenomena in adiabatic temperature changes near magnetostructural transitions in Heusler alloys. Journal of Alloys and Compounds, 2020, 821, 153402. | 5.5 | 6 |
| 30 | Martensitic Phase Transition in Magnetic Thin Films Based on Inverse Mn ₂ FeSi Heusler Alloys. Journal of Experimental and Theoretical Physics, 2020, 130, 117-122. | 0.9 | 6 |
| 31 | Drastic violation of the basic correlation between the Hall effect and resistivity in the Heusler alloy Ni ₄₅ Cr ₅ Mn ₃₇ In ₁₃ . Journal of Magnetism and Magnetic Materials, 2019, 481, 25-28. | 2.3 | 5 |
| 32 | Magnetic and magnetocaloric properties of Ni-Mn-Cr-Sn Heusler alloys under the effects of hydrostatic pressure. AIP Advances, 2018, 8, . | 1.3 | 4 |
| 33 | Magnetostructural phase transitions and large magnetic entropy changes in Ag-doped Mn _{1-x} Ag _x CoGe intermetallic compounds. MRS Communications, 2019, 9, 315-320. | 1.8 | 4 |
| 34 | Magnetic, structural and magnetocaloric properties of Ni-Si and Ni-Al thermoseeds for self-controlled hyperthermia. International Journal of Hyperthermia, 2017, 33, 1-6. | 2.5 | 3 |
| 35 | Microwave absorption through the martensitic and Curie transitions in Ni ₄₅ Cr ₅ Mn ₃₇ In ₁₃ . AIP Advances, 2018, 8, . | 1.3 | 3 |
| 36 | Specific heat and the influence of hydrostatic pressure on the phase transitions in Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} . Journal of Magnetism and Magnetic Materials, 2018, 463, 19-22. | 2.3 | 3 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Adiabatic Temperature Changes at Structural and Magnetic Phase Transitions in Ni ₄₅ Mn ₄₃ CoSn ₁₁ at High Magnetic Fields. IEEE Transactions on Magnetics, 2019, 55, 1-4. | 2.1 | 3 |
| 38 | Effects of Rare-Earth (R = Pr, Gd, Ho, Er) Doping on Magnetostructural Phase Transitions and Magnetocaloric Properties in Ni ₄₃ R _x Mn ₄₆ Sn ₁₁ Shape Memory Alloys. IEEE Transactions on Magnetics, 2019, 55, 1-5. | 2.1 | 2 |
| 39 | Magnetic and martensitic transformations in Ni ₄₈ Co ₂ Mn ₃₅ In ₁₅ melt-spun ribbons. AIP Advances, 2018, 8, 101410. | 1.3 | 1 |
| 40 | Magnetic field dependence of the martensitic transition and magnetocaloric effects in Ni ₄₉ BiMn ₃₅ In ₁₅ . AIP Advances, 2020, 10, 015138. | 1.3 | 1 |
| 41 | NMR studies of the ground states of Ni _{50-x} CoxMn ₃₅ In ₁₅ (x=1, 2.5) and Ni ₄₅ Co ₅ Mn ₃₇ In ₁₃ Heusler alloys. AIP Advances, 2020, 10, 015328. | 1.3 | 0 |