

Maciej Szczerba

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,035
citations

361413

20
h-index

454955

30
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49
all docs

49
docs citations

49
times ranked

786
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Ni-W/ZrO ₂ nanocomposites obtained by ultrasonic DC electrodeposition. <i>Materials & Design</i> , 2015, 80, 1-11. | 5.1 | 95 |
| 2 | Over 7% magnetic field-induced strain in a Ni-Mn-Ga five-layered martensite. <i>Applied Physics Letters</i> , 2014, 105, . | 3.3 | 82 |
| 3 | Optimisation of the electrodeposition process of Ni-W/ZrO ₂ nanocomposites. <i>Journal of Electroanalytical Chemistry</i> , 2018, 813, 39-51. | 3.8 | 54 |
| 4 | Large magnetic field-induced work output in a NiMnGa seven-layered modulated martensite. <i>Applied Physics Letters</i> , 2015, 107, . | 3.3 | 49 |
| 5 | Microstructure characteristics and phase transformations of the Ni-P and Ni-P-Re electroless deposited coatings after heat treatment. <i>Electrochimica Acta</i> , 2016, 209, 183-191. | 5.2 | 44 |
| 6 | High-temperature magnetic shape memory actuation in a Ni-Mn-Ga single crystal. <i>Scripta Materialia</i> , 2014, 83, 29-32. | 5.2 | 43 |
| 7 | Effect of current density on properties of Ni-W nanocomposite coatings reinforced with zirconia particles. <i>Materials Chemistry and Physics</i> , 2016, 173, 524-533. | 4.0 | 43 |
| 8 | Effect of hydrodynamic conditions of electrodeposition process on microstructure and functional properties of Ni-W/ZrO ₂ nanocomposites. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 27-36. | 3.8 | 41 |
| 9 | Detwinning of a non-modulated Ni-Mn-Ga martensite: From self-accommodated microstructure to single crystal. <i>Acta Materialia</i> , 2015, 85, 67-73. | 7.9 | 37 |
| 10 | Ultrasound-assisted electrodeposition of Ni and Ni-Mo coatings from a citrate-ammonia electrolyte solution. <i>Journal of Alloys and Compounds</i> , 2017, 726, 410-416. | 5.5 | 37 |
| 11 | Martensitic transition, structure and magnetic anisotropy of martensite in Ni-Mn-Sn single crystal. <i>Acta Materialia</i> , 2016, 118, 213-220. | 7.9 | 35 |
| 12 | Room temperature magneto-structural transition in Al for Sn substituted Ni-Mn-Sn melt spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 8-16. | 2.3 | 32 |
| 13 | Orientation relationship between austenite and non-modulated martensite in Ni-Mn-Ga single crystals. <i>Acta Materialia</i> , 2016, 103, 836-843. | 7.9 | 29 |
| 14 | Heat treatment of ultrasonic electrodeposited Ni-W/ZrO ₂ nanocomposites. <i>Surface and Coatings Technology</i> , 2020, 393, 125779. | 4.8 | 26 |
| 15 | Transformation behavior and inverse caloric effects in magnetic shape memory Ni _{44-x} Cu _x Co ₆ Mn ₃₉ Sn ₁₁ ribbons. <i>Journal of Alloys and Compounds</i> , 2017, 721, 172-181. | 5.5 | 25 |
| 16 | Electroless deposition of Ni-P and Ni-P-Re alloys from acidic hypophosphite baths. <i>Electrochimica Acta</i> , 2019, 303, 157-166. | 5.2 | 23 |
| 17 | Magnetostructural transition and magnetocaloric effect in highly textured Ni-Mn-Sn alloy. <i>Journal of Applied Physics</i> , 2016, 119, . | 2.5 | 22 |
| 18 | The effect of heat treatment on the microstructural changes in electrodeposited Ni-Mo coatings. <i>Journal of Materials Processing Technology</i> , 2020, 276, 116397. | 6.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Experimental studies on detwinning of face-centered cubic deformation twins. <i>Acta Materialia</i> , 2016, 104, 52-61. | 7.9 | 21 |
| 20 | Influence of Ni/Mn concentration ratio on microstructure and martensitic transformation in melt spun Ni ₄₄ Mn ₃₉ Sn Heusler alloy ribbons. <i>Journal of Alloys and Compounds</i> , 2014, 615, S173-S177. | 5.5 | 20 |
| 21 | Slip versus twinning in low and very low stacking-fault energy Cu-Al alloy single crystals. <i>Acta Materialia</i> , 2017, 133, 109-119. | 7.9 | 20 |
| 22 | On the reverse mode of fcc deformation twinning. <i>Acta Materialia</i> , 2012, 60, 6413-6420. | 7.9 | 16 |
| 23 | Self-accommodated and pre-strained martensitic microstructure in single-crystalline, metamagnetic Ni ₄₄ Mn ₃₉ Sn Heusler alloy. <i>Journal of Materials Science</i> , 2017, 52, 5600-5610. | 3.7 | 16 |
| 24 | Microstructure Design and Tribological Properties of Cr/CrN and TiN/CrN Multilayer Films. <i>Advanced Engineering Materials</i> , 2008, 10, 617-621. | 3.5 | 15 |
| 25 | Microstructure and wear of thermal sprayed composite NiAl-based coatings. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 1095-1103. | 3.8 | 15 |
| 26 | Tuning magneto-structural properties of Ni ₄₄ Co ₆ Mn ₃₉ Sn ₁₁ Heusler alloy ribbons by Fe-doping. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 209, 23-29. | 3.5 | 13 |
| 27 | Structure and inverse magnetocaloric effect in Ni-Co-Mn-Sn(Si) Heusler alloys. <i>Intermetallics</i> , 2018, 100, 88-94. | 3.9 | 13 |
| 28 | Effect of initial plastic strain on mechanical training of non-modulated Ni ₄₄ Mn ₃₉ Ga martensite structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 313-319. | 5.6 | 12 |
| 29 | The effect of Re addition on the thermal stability and structure of Ni ₄₄ P electroless coatings. <i>Materials Characterization</i> , 2021, 171, 110811. | 4.4 | 12 |
| 30 | Structural behavior and magnetic properties of a Ni ₄₄ Mn ₃₉ Ga single crystal across the martensite/austenite two-phase region. <i>Acta Materialia</i> , 2015, 89, 32-40. | 7.9 | 11 |
| 31 | Microstructure, magneto-structural transformations and mechanical properties of Ni ₅₀ Mn _{37.5} Sn _{12.5-x} In _x (x=0, 2, 4, 6 % at.) metamagnetic shape memory alloys sintered by vacuum hot pressing. <i>Journal of Alloys and Compounds</i> , 2017, 715, 445-453. | 5.5 | 11 |
| 32 | A study on crystal plasticity of face-centered cubic structures induced by deformation twinning. <i>Acta Materialia</i> , 2020, 197, 146-162. | 7.9 | 11 |
| 33 | Influence of phosphorous content on microstructure development at the Ni-P Plating/SAC interface. <i>Electronic Materials Letters</i> , 2016, 12, 178-185. | 2.2 | 10 |
| 34 | Detwinning of face-centered cubic deformation twins via the correspondence matrix approach. <i>Acta Materialia</i> , 2016, 102, 162-168. | 7.9 | 10 |
| 35 | Materials studies of copper oxides obtained by low temperature oxidation of copper sheets. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105368. | 4.0 | 10 |
| 36 | Composition dependence of martensitic transformation and crystal structure in Ni ₅₀ Mn ₂₅ Ga _{25-x} Cu _x Heusler alloys. <i>Intermetallics</i> , 2019, 109, 157-161. | 3.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Electrodeposition and Properties of Nanocrystalline Ni-Based Alloys with Refractory Metal from Citrate Baths / Elektroosadzanie I Właściwości Nanokrystalicznych Stopów Na Ośniewie Niklu Z Trudnotopliwym Metalem Z Kapieli Cytrynianowych. Archives of Metallurgy and Materials, 2013, 58, 247-253. | 0.6 | 8 |
| 38 | Asymmetric distribution of martensitic variants in non-modulated NiMnGa single crystals. Journal of Materials Science, 2016, 51, 10943-10948. | 3.7 | 7 |
| 39 | On the Disintegration of Al050/Ni201 Explosively Welded Clads Induced by Long-Term Annealing. Materials, 2021, 14, 2931. | 2.9 | 6 |
| 40 | Influence of Fe Addition on the Martensitic Transformation, Structure and Magnetic Properties of Metamagnetic Ni-Co-Mn-Sn Alloys. Acta Physica Polonica A, 2016, 130, 1026-1028. | 0.5 | 6 |
| 41 | Detwinning-twinning behavior during compression of face-centered cubic twin-matrix layered microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139960. | 5.6 | 5 |
| 42 | Microstructural anisotropy, phase composition and magnetic properties of as-cast and annealed Ni-Mn-Ga-Co-Cu melt-spun ribbons. Journal of Alloys and Compounds, 2019, 776, 319-325. | 5.5 | 4 |
| 43 | Martensitic transformation, crystal structure and shape memory effect in Ni ₅₅ Mn ₂₅ Ga ₂₀ Co alloys. Materials Science and Technology, 2020, 36, 961-965. | 1.6 | 4 |
| 44 | Performance improvement of TiO ₂ /CuO by increasing oxygen flow rates and substrate temperature using DC reactive magnetron sputtering method. Optik, 2020, 206, 164297. | 2.9 | 4 |
| 45 | Non-Modulated Martensite Microstructure With Internal Nanotwins In Ni-Mn-Ga Alloys. Archives of Metallurgy and Materials, 2015, 60, 2267-2270. | 0.6 | 2 |
| 46 | Detwinning of face-centered cubic deformation twins at liquid nitrogen temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142395. | 5.6 | 2 |
| 47 | Magnetostructural Properties of Multielement Ni-Cu-Co-Mn-Sn Heusler Bulk Alloys. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800358. | 1.8 | 1 |
| 48 | Giant magnetic-field-induced bending effect in Ni-Mn-Ga-Co-Cu melt-spun ribbons. Scripta Materialia, 2021, 205, 114203. | 5.2 | 1 |
| 49 | Orientation dependent stress-induced intermartensitic transformations in Ni _{50.3} Mn _{28.7} Ga _{21.0} single crystal. Journal of Applied Physics, 2021, 130, 205102. | 2.5 | 1 |