Maciej Szczerba

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4998179/publications.pdf

Version: 2024-02-01

49 papers	1,035 citations	361413 20 h-index	454955 30 g-index
49 all docs	49 docs citations	49 times ranked	786 citing authors

#	Article	IF	Citations
1	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
2	Materials studies of copper oxides obtained by low temperature oxidation of copper sheets. Materials Science in Semiconductor Processing, 2021, 121, 105368.	4.0	10
3	The effect of Re addition on the thermal stability and structure of Niâ€“P electroless coatings. Materials Characterization, 2021, 171, 110811.	4.4	12
4	On the Disintegration of A1050/Ni201 Explosively Welded Clads Induced by Long-Term Annealing. Materials, 2021, 14, 2931.	2.9	6
5	Giant magnetic-field-induced bending effect in Ni-Mn-Ga-Co-Cu melt-spun ribbons. Scripta Materialia, 2021, 205, 114203.	5.2	1
6	Orientation dependent stress-induced intermartensitic transformations in Ni50.3Mn28.7Ga21.0 single crystal. Journal of Applied Physics, 2021, 130, 205102.	2.5	1
7	Martensitic transformation, crystal structure and shape memory effect in Ni_{55â”x}Mn₂₅Ga₂₀Co_x alloys. Materials Science and Technology, 2020, 36, 961-965.	1.6	4
8	The effect of heat treatment on the microstructural changes in electrodeposited Ni-Mo coatings. Journal of Materials Processing Technology, 2020, 276, 116397.	6.3	22
9	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
10	A study on crystal plasticity of face-centered cubic structures induced by deformation twinning. Acta Materialia, 2020, 197, 146-162.	7.9	11
11	Heat treatment of ultrasonic electrodeposited Ni-W/ZrO2 nanocomposites. Surface and Coatings Technology, 2020, 393, 125779.	4.8	26
12	Performance improvement of TiO2/CuO by increasing oxygen flow rates and substrate temperature using DC reactive magnetron sputtering method. Optik, 2020, 206, 164297.	2.9	4
13	Microstructure and wear of thermal sprayed composite NiAl-based coatings. Archives of Civil and Mechanical Engineering, 2019, 19, 1095-1103.	3.8	15
14	Composition dependence of martensitic transformation and crystal structure in Ni50Mn25Ga25-xCux Heusler alloys. Intermetallics, 2019, 109, 157-161.	3.9	9
15	Electroless deposition of Niâ€“P and Niâ€“Pâ€“Re alloys from acidic hypophosphite baths. Electrochimica Acta, 2019, 303, 157-166.	5.2	23
16	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
17	Optimisation of the electrodeposition process of Ni-W/ZrO 2 nanocomposites. Journal of Electroanalytical Chemistry, 2018, 813, 39-51.	3.8	54
18	Magnetoâ€Structural Properties of Multielement Niâ€“Cuâ€“Coâ€“Mnâ€“Sn Heusler Bulk Alloys. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800358.	1.8	1

#	Article	IF	Citations
19	Structure and inverse magnetocaloric effect in Ni-Co-Mn-Sn(Si) Heusler alloys. Intermetallics, 2018, 100, 88-94.	3.9	13
20	Self-accommodated and pre-strained martensitic microstructure in single-crystalline, metamagnetic Niâ€“Mnâ€“Sn Heusler alloy. Journal of Materials Science, 2017, 52, 5600-5610.	3.7	16
21	Slip versus twinning in low and very low stacking-fault energy Cu-Al alloy single crystals. Acta Materialia, 2017, 133, 109-119.	7.9	20
22	Microstructure, magneto-structural transformations and mechanical properties of Ni50Mn37.5Sn12.5-xInx (x=0, 2, 4, 6 % at.) metamagnetic shape memory alloys sintered by vacuum hot pressing. Journal of Alloys and Compounds, 2017, 715, 445-453.	5.5	11
23	Ultrasound-assisted electrodeposition of Ni and Ni-Mo coatings from a citrate-ammonia electrolyte solution. Journal of Alloys and Compounds, 2017, 726, 410-416.	5.5	37
24	Transformation behavior and inverse caloric effects in magnetic shape memory Ni44-xCuxCo6Mn39Sn11 ribbons. Journal of Alloys and Compounds, 2017, 721, 172-181.	5.5	25
25	Magnetostructural transition and magnetocaloric effect in highly textured Ni-Mn-Sn alloy. Journal of Applied Physics, 2016, 119, .	2.5	22
26	Microstructure characteristics and phase transformations of the Ni-P and Ni-P-Re electroless deposited coatings after heat treatment. Electrochimica Acta, 2016, 209, 183-191.	5.2	44
27	Effect of hydrodynamic conditions of electrodeposition process on microstructure and functional properties of Ni-W/ZrO2 nanocomposites. Journal of Electroanalytical Chemistry, 2016, 775, 27-36.	3.8	41
28	Martensitic transition, structure and magnetic anisotropy ofÂmartensite in Ni-Mn-Sn single crystal. Acta Materialia, 2016, 118, 213-220.	7.9	35
29	Asymmetric distribution of martensitic variants in non-modulated NiMnGa single crystals. Journal of Materials Science, 2016, 51, 10943-10948.	3.7	7
30	Influence of phosphorous content on microstructure development at the Ni-P Plating/SAC interface. Electronic Materials Letters, 2016, 12, 178-185.	2.2	10
31	Orientation relationship between austenite and non-modulated martensite in Niâ€“Mnâ€“Ga single crystals. Acta Materialia, 2016, 103, 836-843.	7.9	29
32	Tuning magneto-structural properties of Ni44Co6Mn39Sn11 Heusler alloy ribbons by Fe-doping. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 209, 23-29.	3.5	13
33	Effect of current density on properties of Niâ€“W nanocomposite coatings reinforced with zirconia particles. Materials Chemistry and Physics, 2016, 173, 524-533.	4.0	43
34	Detwinning of face-centered cubic deformation twins via the correspondence matrix approach. Acta Materialia, 2016, 102, 162-168.	7.9	10
35	Experimental studies on detwinning of face-centered cubic deformation twins. Acta Materialia, 2016, 104, 52-61.	7.9	21
36	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

#	Article	IF	Citations
37	Non-Modulated Martensite Microstructure With Internal Nanotwins In Ni-Mn-Ga Alloys. Archives of Metallurgy and Materials, 2015, 60, 2267-2270.	0.6	2
38	Large magnetic field-induced work output in a NiMnGa seven-layered modulated martensite. Applied Physics Letters, 2015, 107, .	3.3	49
39	Niâ€“W/ZrO2 nanocomposites obtained by ultrasonic DC electrodeposition. Materials & Design, 2015, 80, 1-11.	5.1	95
40	Structural behavior and magnetic properties of a Niâ€“Mnâ€“Ga single crystal across the martensite/austenite two-phase region. Acta Materialia, 2015, 89, 32-40.	7.9	11
41	Detwinning of a non-modulated Niâ€“Mnâ€“Ga martensite: From self-accommodated microstructure to single crystal. Acta Materialia, 2015, 85, 67-73.	7.9	37
42	Over 7% magnetic field-induced strain in a Ni-Mn-Ga five-layered martensite. Applied Physics Letters, 2014, 105, .	3.3	82
43	Effect of initial plastic strain on mechanical training of non-modulated Niâ€“Mnâ€“Ga martensite structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 313-319.	5.6	12
44	Influence of Ni/Mn concentration ratio on microstructure and martensitic transformation in melt spun Niâ€“Mnâ€“Sn Heusler alloy ribbons. Journal of Alloys and Compounds, 2014, 615, S173-S177.	5.5	20
45	High-temperature magnetic shape memory actuation in a Niâ€“Mnâ€“Ga single crystal. Scripta Materialia, 2014, 83, 29-32.	5.2	43
46	Room temperature magneto-structural transition in Al for Sn substituted Niâ€“Mnâ€“Sn melt spun ribbons. Journal of Magnetism and Magnetic Materials, 2013, 348, 8-16.	2.3	32
47	Electrodeposition and Properties of Nanocrystalline Ni-Based Alloys with Refractory Metal from Citrate Baths / Elektroosadzanie I WÅ‚asciwosci Nanokrystalicznych StopÃ³w Na Osnowie Niklu Z Trudnotopliwym Metalem Z Kapieli Cytrynianowych. Archives of Metallurgy and Materials, 2013, 58, 247-253.	0.6	8
48	On the reverse mode of fcc deformation twinning. Acta Materialia, 2012, 60, 6413-6420.	7.9	16
49	Microstructure Design and Tribological Properties of Cr/CrN and TiN/CrN Multilayer Films. Advanced Engineering Materials, 2008, 10, 617-621.	3.5	15