

Zbigniew Sniadecki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tuning the magnetocaloric response of Gd _{7-x} Y _x Pd ₃ (2 \hat{A} % \hat{A} x \hat{A} % \hat{A} 6) alloys by microstructural modifications. Journal of Magnetism and Magnetic Materials, 2022, 547, 168829.	2.3	0
2	Tunable magnetocaloric effect in amorphous Gd-Fe-Co-Al-Si alloys. Journal of Materials Science, 2022, 57, 553-562.	3.7	4
3	Structural transformation and magnetic properties of (Fe _{0.7} Co _{0.3}) ₂ B alloys doped with 5d elements: A combined first-principles and experimental study. Journal of Alloys and Compounds, 2022, 921, 166047.	5.5	1
4	The Influence of 3d and 4d Transition Metals on the Glass Forming Ability of Ternary FeCo-Based Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1861-1868.	2.2	2
5	Energetic Validation of Various Crystal Structures in Zr ₂ CoZ (Z = Al, Ga, In) Heusler Alloys. Crystal Growth and Design, 2021, 21, 2222-2232.	3.0	3
6	Influence of carbon catalysts on the improvement of hydrogen storage properties in a body-centered cubic solid solution alloy. Carbon, 2021, 182, 422-434.	10.3	9
7	Effective processes of phenol degradation on Fe ₃ O ₄ @TiO ₂ nanostructured magnetic photocatalyst. Journal of Physics and Chemistry of Solids, 2020, 136, 109178.	4.0	35
8	Glass-Forming Ability of Fe-Ni Alloys Substituted by Group V and VI Transition Metals (V, Nb, Cr, Mo) Studied by Thermodynamic Modeling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4777-4785.	2.2	5
9	Intermediate valence of CeNi ₂ Al ₃ compound and its evidences: Theoretical and experimental approach. Journal of Physics and Chemistry of Solids, 2020, 145, 109576.	4.0	1
10	Magnetic properties of Hf ₂ (Fe _x Co _{1-x}) ₁₁ B (x=0.2, 0.4) alloys synthesized from structurally metastable phases. Journal of Magnetism and Magnetic Materials, 2020, 514, 167008.	2.3	1
11	Structural transformations and magnetic properties of plastically deformed FeNi-based alloys synthesized from meteoritic matter. Journal of Magnetism and Magnetic Materials, 2020, 502, 166577.	2.3	6
12	Evolution of the magnetic and magnetocaloric properties of Gd ₆ YPd ₃ alloys originating from structural modifications. Journal of Magnetism and Magnetic Materials, 2020, 511, 167000.	2.3	2
13	Electronic specific heat coefficient and magnetic properties of YCo_2Fe_2 Laves phases: A combined experimental and first-principles study. Physical Review B, 2019, 100, 104411.	3.2	2
14	Structure, magnetocaloric properties and thermodynamic modeling of enthalpies of formation of (Mn,X)-Co-Ge (X=Zr, Pd) alloys. Journal of Alloys and Compounds, 2019, 796, 153-159.	5.5	14
15	Tuning of the magnetic properties of Hf ₂ Co ₁₁ B alloys through a combined high pressure torsion and annealing treatment. Journal of Alloys and Compounds, 2019, 787, 794-800.	5.5	6
16	The Influence of Thickness and Number of Layers on Selected Properties of Cu/Ni Systems. Acta Physica Polonica A, 2019, 135, 172-176.	0.5	2
17	Efficient synthesis of PMMA@Co _{0.5} Ni _{0.5} Fe ₂ O ₄ organic-inorganic hybrids containing hyamine 1622 and their physicochemical properties, cytotoxic assessment and antimicrobial activity. Materials Science and Engineering C, 2018, 90, 248-256.	7.3	5
18	Influence of structural disorder on the magnetic properties and electronic structure of YCo_2Mn_2 . Physical Review B, 2018, 98, 080401.	2.2	6

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19	Normal and inverse magnetocaloric effects in structurally disordered Laves phase Y _{1-x} Gd _x Co ₂ (0 ≤ x ≤ 1) compounds. Journal of Alloys and Compounds, 2017, 702, 258-265.	5.5	16
20	Glass forming ability of (Hf,Cr) Co B alloys: Computational and experimental studies. Materials Characterization, 2017, 132, 46-52.	4.4	7
21	Cu-Zr nanoglasses: Atomic structure, thermal stability and indentation properties. Acta Materialia, 2017, 136, 181-189.	7.9	78
22	Thermal stability and glass forming ability of amorphous Hf ₂ Co ₁₁ B alloy. Materials and Design, 2017, 114, 404-409.	7.0	17
23	Formation of metastable cubic phase in Ce _{100-x} Al _x (x=45, 50) alloys and their thermal and magnetic properties. Journal of Magnetism and Magnetic Materials, 2017, 421, 82-85.	2.3	2
24	Development of Magnetic Properties during Annealing of Hf ₂ Co ₁₁ B Amorphous Alloy. Acta Physica Polonica A, 2017, 131, 786-788.	0.5	1
25	Critical Behavior near the Ferromagnetic to Paramagnetic Phase Transition in Y ₈ Co ₆₂ B ₃₀ Amorphous Alloy. Acta Physica Polonica A, 2017, 131, 967-969.	0.5	4
26	The influence of oxidation process on exchange bias in egg-shaped FeO/Fe ₃ O ₄ core/shell nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 416, 269-274.	2.3	29
27	Competitive formation of intermetallic phases in Y _{0.7} (Nb,Ti) _{0.3} Co ₂ system: Experiment and thermodynamic modeling. Materials Letters, 2016, 182, 90-93.	2.6	0
28	White and red emitting LaF ₃ nanocrystals doped with Eu ²⁺ and Eu ³⁺ ions: Spectroscopic and magnetic studies. Journal of Alloys and Compounds, 2016, 686, 489-495.	5.5	18
29	Nanoscale morphology of Ni ₅₀ Ti ₄₅ Cu ₅ nanoglass. Materials Characterization, 2016, 113, 26-33.	4.4	49
30	Magnetism of coexisting rhombohedral and orthorhombic Hf ₂ Co ₁₁ phases in rapidly quenched Hf ₂ Co ₁₁ B. Journal of Alloys and Compounds, 2016, 665, 93-99.	5.5	9
31	Synthesis, Structural Features, Cytotoxicity, and Magnetic Properties of Colloidal Ferrite Spinel Co _{1-x} Ni _x Fe ₂ O ₄ (0.1 ≤ x ≤ 0.9) Nanoparticles. European Journal of Inorganic Chemistry, 2015, 2015, 4750-4760.	16.0	160.9
32	Magnetic percolation and inequivalence of Fe sites in YFe _x Co _{2-x} (x=0.03 and 1) Laves phase compounds. Applied Physics A: Materials Science and Processing, 2015, 118, 1273-1277.	2.3	3
33	Synthesis, characterization, and cytotoxicity in human erythrocytes of multifunctional, magnetic, and luminescent nanocrystalline rare earth fluorides. Journal of Nanoparticle Research, 2015, 17, 399.	1.9	38
34	Structural and magnetic properties of melt-spun Y _{1-x} Gd _x Co ₂ (0 ≤ x ≤ 1) alloys. Journal of Alloys and Compounds, 2015, 618, 258-262.	5.5	5
35	Crystallization Processes of R _{4.5} Fe ₇₇ B _{18.5} (R = Pr, Nd) Amorphous Alloys. Acta Physica Polonica A, 2014, 126, 316-317.	0.5	0
36	Semi-Empirical Modelling of Glass Forming Ranges for Y-Co-Si System. Acta Physica Polonica A, 2014, 126, 62-63.	0.5	1

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37	Induced magnetic ordering in alloyed compounds based on Pauli paramagnet YCo ₂ . Journal of Applied Physics, 2014, 115, .	2.5	14
38	Structural, Spectroscopic, and Magnetic Properties of Eu ³⁺ -Doped GdVO ₄ Nanocrystals Synthesized by a Hydrothermal Method. Inorganic Chemistry, 2014, 53, 12243-12252.	4.0	71
39	Magnetocaloric Effect of Amorphous Gd ₆₅ Fe ₁₀ Co ₁₀ Al ₁₀ X ₅ (X = Al, Si, B) Alloys. IEEE Transactions on Magnetics, 2014, 50, 1-3.	2.1	23
40	Glassy state formation and magnetic properties of Co-rich ternary RE-Co-B (RE=Y, Tb, Ho) amorphous alloys. Journal of Alloys and Compounds, 2014, 584, 477-482.	5.5	13
41	Glass-forming ability for selected quasi-ternary metallic system: Magnetism and heat capacity. Journal of Non-Crystalline Solids, 2014, 383, 2-5.	3.1	3
42	Influence of transition metal on glass formability of Y-TM-B (TM=Fe, Ni) system. Journal of Alloys and Compounds, 2014, 615, S40-S44.	5.5	7
43	Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic MFe ₂ O ₄ (M=Mn ²⁺ , Fe ²⁺ , Co ²⁺ , Ni ²⁺) ferrite spinel by a modified Bradley reaction. RSC Advances, 2013, 3, 12230.	3.6	46
44	Magnetism influenced by structural disorder in melt-spun DyMn ₆ Ge ₆ Fe _x Al _x (x = 2.5, 3). Hyperfine Interactions, 2013, 219, 69-74.	0.5	0
45	Mechanical properties of amorphous and partially crystallized Y ₅₀ Cu ₄₂ Al ₈ alloys. Intermetallics, 2012, 21, 75-79.	3.9	8
46	Calculation of glass forming ranges in the ternary Y-Cu-Al system and its sub-binaries based on geometric and Miedema's models. Intermetallics, 2012, 26, 72-77.	3.9	21
47	Multifunctionality of GdPO ₄ :Yb ³⁺ ,Tb ³⁺ nanocrystals - luminescence and magnetic behaviour. Journal of Materials Chemistry, 2012, 22, 22989.	6.7	77
48	Magnetism influenced by structural disorder in melt-spun DyMn ₆ Ge ₆ Fe _x Al _x (x = 2.5, 3). , 2012, 387-392.		0
49	Magnetic behavior, transport properties and nanocrystallization of melt-spun Y _x Ce _{50-x} Cu ₄₂ Al ₈ (0 ≤ x ≤ 50) amorphous system. Journal of Non-Crystalline Solids, 2011, 357, 3717-3721.	3.1	4
50	Mictomagnetic behavior of structurally disordered melt-spun DyMn _{6-x} Ge _{6-x} Fe _x Al _x (0 ≤ x ≤ 6) alloys. Journal of Applied Physics, 2011, 109, .	2.5	7
51	Mechanism of amorphous state formation, crystalline structure, and hyperfine interactions in DyMn _{6-x} Ge ₆ Fe _x (0 ≤ x ≤ 6) alloys. Journal of Applied Physics, 2010, 108, 073516.	2.5	5
52	Current-Voltage Characteristics of Nanowires Formed at the Co-Ge _{99.99} Ga _{0.01} Interface. Acta Physica Polonica A, 2010, 118, 375-378.	0.5	6
53	Crystallisation of Amorphous Y ₅₀ Cu ₄₂ Al ₈ Alloy. Acta Physica Polonica A, 2009, 115, 147-149.	0.5	3
54	Activation Energies of Crystallization in Amorphous RMn _{4.5} Ge _{4.5} Fe _{1.5} Al _{1.5} (R = La, Y, Dy) Alloys. Acta Physica Polonica A, 2009, 115, 409-412.	0.5	2

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55	Calorimetric study and Kissinger analysis of melt-spun $\text{DyMn}_{6-x}\text{Ge}_6\text{Fe}_x\text{Al}_x$ ($1 \leq x \leq 2.5$) alloys. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5159-5161.	3.1	8
56	Independence of magnetic behavior for different structural states in melt-spun $\text{DyMn}_{6-x}\text{Ge}_{6-x}\text{Fe}_x\text{Al}_x$ ($0 \leq x \leq 6$). <i>Journal of Physics Condensed Matter</i> , 2008, 20, 425212.	1.8	0
57	Amorphous states of melt-spun alloys in the system $\text{Dy}^{1-x}(\text{Mn,Fe})_6\text{Ge}_6(\text{Ge,Al})_6$. <i>Applied Physics Letters</i> , 2007, 90, 031903.	3.3	12
58	The point-contact spectroscopy of hexagonal $\text{DyGe}_6\text{Fe}_3\text{Mn}_3$ compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1764-1766.	2.3	0
59	The point-contact spectroscopy of DyMn_6Ge_6 and DyFe_6Ge_6 . <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e396-e399.	2.3	0
60	Magneto-resistance and magnetization processes in the helimagnetic compound DyMn_6Ge_6 and in related alloys $\text{Dy}(\text{Mn}_6\text{Ge}_6)_x(\text{Fe}_6\text{Al}_6)_x$. <i>Journal of Alloys and Compounds</i> , 2006, 423, 232-235.	5.5	1
61	Structural changes in amorphous $\text{Fe}_{41}\text{Ni}_{40}\text{Zr}_7\text{B}_{12}$ alloy under heat treatment. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 621-625.	1.5	3