

Amir Hossein Taghvaei

List of Publications by Year in descending order

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papers

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840776

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, thermodynamic analysis and magnetic study of novel ball- milled Co ₅₀ Fe ₂₅ Ta ₅ Si ₅ C ₁₅ glassy powders with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162509.	5.5	3
2	Fabrication and characterization of novel soft magnetic [(Fe _{0.7} Co _{0.3}) _{71.2} B ₂₄ Y _{4.8}] ₉₆ Nb ₄ /V ₂ O ₅ bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156427.	5.5	8
3	Phase transformation, thermal behavior and magnetic study of new Co _{80-x} Ta _x Si ₅ C ₁₅ (x = 0, 5) glassy/nanocrystalline alloys prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155913.	5.5	7
4	Development and characterization of new Co-Fe-Hf-B bulk metallic glass with high thermal stability and superior soft magnetic performance. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153890.	5.5	9
5	Characterization, thermodynamic analysis and magnetic investigation of new soft magnetic amorphous/nanocrystalline Co ₅₀ Fe ₂₁ Ti ₁₉ Ta ₅ B ₅ powders produced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2018, 742, 887-896.	5.5	23
6	Thermal behavior, structural relaxation and magnetic study of a new Hf-microalloyed Co-based glassy alloy with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2018, 748, 553-560.	5.5	9
7	Characterization and magnetic properties of nanocrystalline Mg ₁ -Cd Fe ₂ O ₄ (x = 0.0-0.8) ferrites synthesized by glycine-nitrate autocombustion method. <i>Ceramics International</i> , 2018, 44, 17209-17217.	4.8	10
8	The effect of metalloid content on glass forming ability, thermal stability and magnetic properties of Fe-Ta-Si-C powders prepared by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 110-120.	3.1	5
9	Microstructure and corrosion behavior of electrodeposited Ni-based nanocomposite coatings reinforced with Ni ₆₀ Cr ₁₀ Ta ₁₀ P ₁₆ B ₄ metallic glass particles. <i>Journal of Alloys and Compounds</i> , 2017, 714, 530-536.	5.5	21
10	Synthesis of nanocrystalline Mg _{0.6} Cd _{0.4} Fe ₂ O ₄ ferrite by glycine-nitrate auto-combustion method and investigation of its microstructure and magnetic properties. <i>Ceramics International</i> , 2017, 43, 16693-16702.	4.8	5
11	Glass formation and magnetic study of new Fe ₇₀ Ta ₅ Si ₁₀ C ₁₅ powders prepared by mechanical alloying with high thermal stability. <i>Powder Technology</i> , 2017, 322, 241-249.	4.2	8
12	Characterization of Al/crystallized Al-based metallic glass composites produced by repeated roll bonding process. <i>Metals and Materials International</i> , 2017, 23, 823-830.	3.4	2
13	A comparative study on the isochronal and isothermal crystallization kinetics of Co _{46.45} Fe _{25.55} Ta ₈ B ₂₀ soft magnetic metallic glass with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2016, 675, 223-230.	5.5	33
14	Atomic structure and thermal behavior of (Co _{0.65} ,Fe _{0.35}) ₇₂ Ta ₈ B ₂₀ metallic glass with excellent soft magnetic properties. <i>Intermetallics</i> , 2016, 69, 21-27.	3.9	11
15	Microstructure and mechanical properties of Al-based metal matrix composites reinforced with Al ₈₄ Gd ₆ Ni ₇ Co ₃ glassy particles produced by accumulative roll bonding. <i>Materials and Design</i> , 2016, 90, 137-144.	7.0	38
16	Influence of annealing on microstructure and magnetic properties of cobalt-based amorphous/nanocrystalline powders synthesized by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2015, 632, 296-302.	5.5	12
17	Fabrication and characterization of Co ₄₀ Fe ₂₂ Ta _{8-x} Y _x B ₃₀ (x = 0, 2.5, 4, 6, and 8) metallic glasses with high thermal stability and good soft magnetic properties. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	4
18	Influence of ball milling on atomic structure and magnetic properties of Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy alloy. <i>Materials Characterization</i> , 2014, 92, 96-105.	4.4	3

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19	Crystallization kinetics of Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy alloy with high thermal stability and soft magnetic properties. Journal of Alloys and Compounds, 2014, 605, 199-207.	5.5	20
20	Thermal and soft magnetic properties of Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy particles: <i>In-situ</i> X-ray diffraction and magnetometry studies. Journal of Applied Physics, 2014, 116, .	2.5	12
21	Structural and magnetic properties of Fe-Al ₂ O ₃ soft magnetic composites prepared using the sol-gel method. International Journal of Materials Research, 2014, 105, 474-479.	0.3	8
22	Effect of heat treatment on magnetic properties of iron-based soft magnetic composites with Al ₂ O ₃ insulation coating produced by sol-gel method. Journal of Alloys and Compounds, 2013, 581, 293-297.	5.5	148
23	DSC, XRD and TEM characterization of glassy Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ alloy with very high thermal stability. Materials Letters, 2013, 93, 322-325.	2.6	13
24	Microstructural characterization and amorphous phase formation in Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ powders produced by mechanical alloying. Journal of Alloys and Compounds, 2012, 512, 85-93.	5.5	26
25	Microstructure and magnetic properties of amorphous/nanocrystalline Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ alloy produced by mechanical alloying. Materials Chemistry and Physics, 2012, 134, 1214-1224.	4.0	54