

# Amir Hossein Taghvaei

## List of Publications by Year in descending order

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25  
papers

492  
citations

840776

11  
h-index

677142

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

388  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effect of heat treatment on magnetic properties of iron-based soft magnetic composites with Al <sub>2</sub> O <sub>3</sub> insulation coating produced by sol-gel method. Journal of Alloys and Compounds, 2013, 581, 293-297.   | 5.5 | 148       |
| 2  | Microstructure and magnetic properties of amorphous/nanocrystalline Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> alloy produced by mechanical alloying. Materials Chemistry and Physics, 2012, 134, 1214-1224.  | 4.0 | 54        |
| 3  | Microstructure and mechanical properties of Al-based metal matrix composites reinforced with Al <sub>84</sub> Cd <sub>6</sub> Ni <sub>7</sub> Co <sub>3</sub> glassy particles produced by accumulative roll bonding. Materials and Design, 2016, 90, 137-144.   | 7.0 | 38        |
| 4  | A comparative study on the isochronal and isothermal crystallization kinetics of Co <sub>46.45</sub> Fe <sub>25.55</sub> Ta <sub>8</sub> B <sub>20</sub> soft magnetic metallic glass with high thermal stability. Journal of Alloys and Compounds, 2016, 675, 223-230.  | 5.5 | 33        |
| 5  | Microstructural characterization and amorphous phase formation in Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> powders produced by mechanical alloying. Journal of Alloys and Compounds, 2012, 512, 85-93.  | 5.5 | 26        |
| 6  | Characterization, thermodynamic analysis and magnetic investigation of new soft magnetic amorphous/nanocrystalline Co <sub>50</sub> Fe <sub>21</sub> Ti <sub>19</sub> Ta <sub>5</sub> B <sub>5</sub> powders produced by mechanical alloying. Journal of Alloys and Compounds, 2018, 742, 887-896.   | 5.5 | 23        |
| 7  | Microstructure and corrosion behavior of electrodeposited Ni-based nanocomposite coatings reinforced with Ni <sub>60</sub> Cr <sub>10</sub> Ta <sub>10</sub> P <sub>16</sub> B <sub>4</sub> metallic glass particles. Journal of Alloys and Compounds, 2017, 714, 530-536.   | 5.5 | 21        |
| 8  | Crystallization kinetics of Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> glassy alloy with high thermal stability and soft magnetic properties. Journal of Alloys and Compounds, 2014, 605, 199-207.  | 5.5 | 20        |
| 9  | DSC, XRD and TEM characterization of glassy Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> alloy with very high thermal stability. Materials Letters, 2013, 93, 322-325.  | 2.6 | 13        |
| 10 | Thermal and soft magnetic properties of Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> glassy particles: <i>In-situ</i> X-ray diffraction and magnetometry studies. Journal of Applied Physics, 2014, 116, .  | 2.5 | 12        |
| 11 | Influence of annealing on microstructure and magnetic properties of cobalt-based amorphous/nanocrystalline powders synthesized by mechanical alloying. Journal of Alloys and Compounds, 2015, 632, 296-302.  | 5.5 | 12        |
| 12 | Atomic structure and thermal behavior of (Co <sub>0.65</sub> ,Fe <sub>0.35</sub> ) <sub>72</sub> Ta <sub>8</sub> B <sub>20</sub> metallic glass with excellent soft magnetic properties. Intermetallics, 2016, 69, 21-27.  | 3.9 | 11        |
| 13 | Characterization and magnetic properties of nanocrystalline Mg <sub>1</sub> -Cd Fe <sub>2</sub> O <sub>4</sub> (x=0.0-0.8) ferrites synthesized by glycine-nitrate autocombustion method. Ceramics International, 2018, 44, 17209-17217.   | 4.8 | 10        |
| 14 | Thermal behavior, structural relaxation and magnetic study of a new Hf-microalloyed Co-based glassy alloy with high thermal stability. Journal of Alloys and Compounds, 2018, 748, 553-560.  | 5.5 | 9         |
| 15 | Development and characterization of new Co-Fe-Hf-B bulk metallic glass with high thermal stability and superior soft magnetic performance. Journal of Alloys and Compounds, 2020, 823, 153890.   | 5.5 | 9         |
| 16 | Structural and magnetic properties of Fe-Al <sub>2</sub> O <sub>3</sub> soft magnetic composites prepared using the sol-gel method. International Journal of Materials Research, 2014, 105, 474-479.   | 0.3 | 8         |
| 17 | Glass formation and magnetic study of new Fe <sub>70</sub> Ta <sub>5</sub> Si <sub>10</sub> C <sub>15</sub> powders prepared by mechanical alloying with high thermal stability. Powder Technology, 2017, 322, 241-249.  | 4.2 | 8         |
| 18 | Fabrication and characterization of novel soft magnetic [(Fe <sub>0.7</sub> Co <sub>0.3</sub> ) <sub>71.2</sub> B <sub>24</sub> Y <sub>4.8</sub> ] <sub>96</sub> Nb <sub>4</sub> /V <sub>2</sub> O <sub>5</sub> bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. Journal of Alloys and Compounds, 2020, 846, 156427. | 5.5 | 8         |

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|----|--|-----|-----------|
| 19 | Phase transformation, thermal behavior and magnetic study of new $\text{Co}_{80-x}\text{Ta}_x\text{Si}_5\text{C}_{15}$ ( $x=0, 5$ ) glassy/nanocrystalline alloys prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155913.                 | 5.5 | 7         |
| 20 | Synthesis of nanocrystalline $\text{Mg}_{0.6}\text{Cd}_{0.4}\text{Fe}_2\text{O}_4$ 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         |
| 21 | 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         |
| 22 | Fabrication and characterization of $\text{Co}_{40}\text{Fe}_{22}\text{Ta}_{8-x}\text{Y}_x\text{B}_{30}$ ( $x=0, 2.5, 4, 6, \text{ and } 8$ ) metallic glasses with high thermal stability and good soft magnetic properties. <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 4         |
| 23 | Influence of ball milling on atomic structure and magnetic properties of $\text{Co}_{40}\text{Fe}_{22}\text{Ta}_8\text{B}_{30}$ glassy alloy. <i>Materials Characterization</i> , 2014, 92, 96-105.  | 4.4 | 3         |
| 24 | Synthesis, thermodynamic analysis and magnetic study of novel ball- milled $\text{Co}_{50}\text{Fe}_{25}\text{Ta}_5\text{Si}_5\text{C}_{15}$ glassy powders with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162509.                           | 5.5 | 3         |
| 25 | 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         |