

# Reza Gholamipour

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

647  
citations

471509

17  
h-index

642732

23  
g-index

52  
all docs

52  
docs citations

52  
times ranked

454  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Microstructural and mechanical characterization of high energy ball milled and sintered WC-10wt%Co-TaC nano powders. International Journal of Refractory Metals and Hard Materials, 2009, 27, 801-805.  | 3.8 | 42        |
| 2  | Sintering of WC-10%Co nano powders containing TaC and VC grain growth inhibitors. Transactions of Nonferrous Metals Society of China, 2011, 21, 1080-1084.  | 4.2 | 38        |
| 3  | Role of tensile elastostatic loading on atomic structure and mechanical properties of Zr <sub>55</sub> Cu <sub>30</sub> Ni <sub>5</sub> Al <sub>10</sub> bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 218-223. | 5.6 | 37        |
| 4  | Extra rejuvenation of Zr <sub>55</sub> Cu <sub>30</sub> Al <sub>10</sub> Ni <sub>5</sub> bulk metallic glass using elastostatic loading and cryothermal treatment interaction. Journal of Non-Crystalline Solids, 2019, 506, 39-45.   | 3.1 | 34        |
| 5  | Discovery of novel quaternary bulk metallic glasses using a developed correlation-based neural network approach. Computational Materials Science, 2021, 186, 110025.  | 3.0 | 34        |
| 6  | Microstructure and mechanical properties of a Cu-Zr based bulk metallic glass containing atomic scale chemical heterogeneities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 433-438.   | 5.6 | 29        |
| 7  | Correlation study of structural, optical and electrical properties of amorphous carbon thin films prepared by ion beam sputtering deposition technique. Applied Surface Science, 2016, 360, 52-58.  | 6.1 | 28        |
| 8  | Effect of Si addition on glass-forming ability and mechanical properties of Cu-Zr-Al bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7192-7196.   | 5.6 | 26        |
| 9  | Crystallization kinetics of Cu <sub>47</sub> Zr <sub>47</sub> Al <sub>6</sub> and (Cu <sub>47</sub> Zr <sub>47</sub> Al <sub>6</sub> ) <sub>99</sub> Sn <sub>1</sub> bulk metallic glasses. Journal of Non-Crystalline Solids, 2018, 498, 272-280.  | 3.1 | 26        |
| 10 | Correlation Between Plasticity and Atomic Structure Evolution of a Rejuvenated Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4743-4749.   | 2.2 | 25        |
| 11 | Microstructural Evaluation during dissimilar transient liquid phase bonding of TiAl/Ni-based superalloy. Journal of Alloys and Compounds, 2020, 825, 153999.  | 5.5 | 23        |
| 12 | Effect of Ge addition on mechanical properties and fracture behavior of Cu-Zr-Al bulk metallic glass. Journal of Alloys and Compounds, 2009, 484, 708-711.  | 5.5 | 22        |
| 13 | Effect of vanadium substitution for zirconium on the glass forming ability and mechanical properties of a Zr <sub>65</sub> Cu <sub>17.5</sub> Ni <sub>10</sub> Al <sub>7.5</sub> bulk metallic glass. Journal of Alloys and Compounds, 2013, 546, 41-47.  | 5.5 | 21        |
| 14 | Effects of Nb minor addition on atomic structure and glass forming ability of Zr <sub>55</sub> Cu <sub>30</sub> Ni <sub>5</sub> Al <sub>10</sub> bulk metallic glass. Materials Research Express, 2019, 6, 065202.  | 1.6 | 20        |
| 15 | Fabrication and mechanical properties of a tungsten wire reinforced Cu-Zr-Al bulk metallic glass composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3079-3084.   | 5.6 | 19        |
| 16 | Planar Flow Casting of Fe <sub>71</sub> Si <sub>13.5</sub> B <sub>9</sub> Nb <sub>3</sub> Cu <sub>1</sub> Al <sub>1.5</sub> Ge <sub>1</sub> Ribbons. Journal of Materials Engineering and Performance, 2013, 22, 2185-2190.   | 2.5 | 18        |
| 17 | Giant size effect on compressive plasticity of (Zr <sub>55</sub> Cu <sub>30</sub> Al <sub>10</sub> Ni <sub>5</sub> ) <sub>99</sub> Nb <sub>1</sub> bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 968-975.       | 5.6 | 18        |
| 18 | Inherent relation between atomic-level stresses and nanoscale heterogeneity in Zr-based bulk metallic glass under a rejuvenation process. Physica B: Condensed Matter, 2020, 595, 412390.   | 2.7 | 17        |

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|----|--|-----|-----------|
| 19 | Effect of Nb minor addition on the crystallization kinetics of Zr-Cu-Al-Ni metallic glass. Journal of Non-Crystalline Solids, 2021, 560, 120731.   | 3.1 | 16        |
| 20 | Characterization of nanoscale structural heterogeneity in metallic glasses: A machine learning study. Journal of Non-Crystalline Solids, 2022, 578, 121344.  | 3.1 | 13        |
| 21 | Effect of quenching wheel speed on the structure, magnetic properties and magnetoimpedance effect in $\text{Co}_{64}\text{Fe}_{4}\text{Ni}_{2}\text{B}_{19}\text{Si}_x\text{Cr}_3\text{Al}_x$ ( $x=0, 1$ and $2$ ) melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2010, 322, 2680-2683. | 2.3 | 11        |
| 22 | Study on microstructure and fracture behavior of tungsten wire reinforced Cu-based and Zr-based bulk metallic glass matrix composites. Journal of Non-Crystalline Solids, 2013, 365, 75-84.  | 3.1 | 11        |
| 23 | Cu effects on coercivity and microstructural features in nanocrystalline $\text{Nd-Fe-Co-B}$ annealed melt-spun ribbons. Physica B: Condensed Matter, 2007, 398, 51-54.  | 2.7 | 10        |
| 24 | Corrosion behavior of $\text{Nd}_{9.4}\text{Pr}_{0.6}\text{Fe}_{bal}\text{Co}_{6}\text{B}_6\text{Ga}_{0.5}\text{Ti}_x\text{C}_x$ ( $x=0, 1.5, 3, 6$ ) nanocomposites annealed melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2009, 321, 3391-3395.                                      | 2.3 | 10        |
| 25 | Formation of bulk metallic glass in situ nanocomposite in $(\text{Cu}_{50}\text{Zr}_{43}\text{Al}_7)_{99}\text{Si}_1$ alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 553, 10-13.   | 5.6 | 10        |
| 26 | Glass forming ability and mechanical properties of Nb-containing $\text{Cu-Zr-Al}$ based bulk metallic glasses. Transactions of Nonferrous Metals Society of China, 2013, 23, 2037-2041.   | 4.2 | 10        |
| 27 | Ion beam energy dependence of surface and structural properties of amorphous carbon films deposited by IBSD method on $\text{Ni-Cu}$ alloy. Journal of Materials Research, 2017, 32, 1258-1266.  | 2.6 | 9         |
| 28 | Statistical weibull analysis of compressive fracture strength of $(\text{Zr}_{55}\text{Cu}_{30}\text{Al}_{10}\text{Ni}_5)_{99}\text{Nb}_1$ bulk metallic glass. Journal of Alloys and Compounds, 2017, 695, 2740-2744.   | 5.5 | 8         |
| 29 | Tailoring hardness and toughness in $\text{WC-13%Co-x Ti-C-y TiN}$ ( $x=5, 7.5$ & $y=5, 7.5$ ) functional gradient hardmetals (FGHMs). International Journal of Refractory Metals and Hard Materials, 2013, 38, 92-101.  | 3.8 | 6         |
| 30 | Effect of Nb Content on Mechanical Behavior and Structural Properties of $\text{W}/(\text{Zr}_{55}\text{Cu}_{30}\text{Al}_{10}\text{Ni}_5)_{100-x}\text{Nb}_x$ Composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2496-2503.                    | 2.2 | 6         |
| 31 | Silica-Free Zirconia-Based Primary Slurry for Titanium Investment Casting. International Journal of Metalcasting, 2020, 14, 92-97.   | 1.9 | 6         |
| 32 | Effects of Ti and C additions on the nanostructure and magnetic properties of $(\text{Nd, Pr})\text{-Fe, Co, Ga-B}$ melt-spun nanocomposite ribbons. Physica B: Condensed Matter, 2010, 405, 3838-3841.  | 2.7 | 5         |
| 33 | Effects of infiltration parameters on mechanical and microstructural properties of tungsten wire reinforced $\text{Cu}_{47}\text{Ti}_{33}\text{Zr}_{11}\text{Ni}_6\text{Sn}_2\text{Si}_1$ metallic glass matrix composites. Transactions of Nonferrous Metals Society of China, 2013, 23, 1314-1321.     | 4.2 | 5         |
| 34 | High-temperature compressive behavior and kinetics analysis of $\text{Al}_{<sub>0.4</sub>\text{MnCrCoFeNi}$ high entropy alloy. Materials Research Express, 2021, 8, 066505.   | 1.6 | 5         |
| 35 | Effect of melt infiltration parameters on microstructure and mechanical properties of tungsten wire reinforced $(\text{Cu}_{50}\text{Zr}_{43}\text{Al}_7)_{99.5}\text{Si}_{0.5}$ metallic glass matrix composite. Transactions of Nonferrous Metals Society of China, 2015, 25, 2624-2629.               | 4.2 | 4         |
| 36 | Glass transition kinetics and fragility of $\text{ZrCuAlNi(Nb)}$ metallic glasses. Intermetallics, 2022, 145, 107532.  | 3.9 | 4         |

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|----|--|-----|-----------|
| 37 | Microstructural studies and micromagnetic analysis of nanocrystalline NdFeCoMB (M = Ga, Ge) melt-spun ribbon. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1581-1587.  | 2.2 | 3         |
| 38 | Effect of Al substitution for B on magnetic and structural properties of Co-based melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2008, 320, 2259-2261.  | 2.3 | 3         |
| 39 | Gas induced semi-solid process effects on microstructure and mechanical properties of 319 aluminum alloy. International Journal of Materials Research, 2015, 106, 1005-1009.   | 0.3 | 3         |
| 40 | Effect of Al on the Structure and Magnetic Properties of Nanocrystalline FeSiBPCu Melt-Spun Ribbons. Transactions of the Indian Institute of Metals, 2018, 71, 35-39.  | 1.5 | 3         |
| 41 | Microstructure and Interfacial Shear Strength in W/(Zr55Cu30Al10Ni5)100 <sup>x</sup> Nb x Composites. Journal of Materials Engineering and Performance, 2017, 26, 5571-5576.   | 2.5 | 2         |
| 42 | Tuning Glass Formation and Mechanical Properties of ZrCoAl(Nb) Bulk Metallic Glass with Nb Microalloying Process. Transactions of the Indian Institute of Metals, 2021, 74, 1603.  | 1.5 | 2         |
| 43 | Factors affecting strength of dissimilar TiAl/Ni <sup>49</sup> Si <sup>49</sup> B/Ni-based superalloy brazed joint. Journal of Materials Science, 2022, 57, 5275-5287.   | 3.7 | 2         |
| 44 | Microstructure-magnetic properties relationships in nanocrystalline Nd-Fe-Co-Ge-B annealed ribbons. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 287-293.  | 1.8 | 1         |
| 45 | Optimization of Pre-Rolling Homogenizing Heat Treatment for Cast Silicon Steel Ingots. Arabian Journal for Science and Engineering, 2012, 37, 1065-1076.   | 1.1 | 1         |
| 46 | The Microstructural Characterization, Physical and Dynamic Magnetic Properties of (Ni <sub>49</sub> Fe <sub>51</sub> ) <sub>100<sup>x</sup></sub> Cr <sub>x</sub> (x=0,3,7) Thin Sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 323-330. | 2.2 | 1         |
| 47 | A New Role of M1 Type Dopant for Nd-Rich Nd-Fe-Co-B Nanocrystalline Ribbons. Journal of Iron and Steel Research International, 2006, 13, 215-220.  | 2.8 | 0         |
| 48 | Magnetic and structural properties of rapidly quenched Nd-Fe-Co-Ge-B alloys. Physics of Metals and Metallography, 2006, 102, S24-S31.  | 1.0 | 0         |
| 49 | EFFECT OF NANOCRYSTALLIZATION ANNEALING ON MAGNETIC PROPERTIES AND MAGNETOIMPEDANCE OF CO-BASE RIBBONS. International Journal of Modern Physics Conference Series, 2012, 05, 841-846.  | 0.7 | 0         |
| 50 | Influence of Annealing Temperature on the Magnetic Properties of Rapidly Quenched (Nd,Pr) <sub>2</sub> -(Fe,Co,Ga,Ti,C) <sub>14</sub> B <sub>1±</sub> -Fe Nanocomposite Ribbons. Advances in Materials Science and Engineering, 2013, 2013, 1-5.   | 1.8 | 0         |
| 51 | Effect of Mischmetal Addition on Physical and Mechanical Properties of Al <sup>49</sup> Ni <sup>49</sup> Zr Melt-Spun Ribbons. Transactions of the Indian Institute of Metals, 2019, 72, 993-999.  | 1.5 | 0         |
| 52 | Effect of Silver Clusters Deposition on Wettability and Optical Properties of Diamond-like Carbon Films. International Journal of Engineering, Transactions B: Applications, 2021, 34, .   | 0.7 | 0         |