# Hidemi Kato

List of Publications by Year
in descending order

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|---|---|---|---|
| 333 papers | 9,383 citations | 50170 46 h-index | 58464 82 g-index |
| 344 all docs | 344 docs citations | 344 times ranked | 4748 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Inhomogeneous dealloying kinetics along grain boundaries during liquid metal dealloying. Journal of Materials Science and Technology, 2022, 106, 41-48. | 5.6 | 4 |
| 2 | Nanoimprinting of magnetic FeCo-based metallic glass thin films. Journal of Magnetism and Magnetic Materials, 2022, 542, 168455. | 1.0 | 5 |
| 3 | Analysis of the anelastic deformation of high-entropy Pd20Pt20Cu20Ni20P20 metallic glass under stress relaxation and recovery. Journal of Materials Science and Technology, 2022, 107, 82-91. | 5.6 | 8 |
| 4 | Solid solution induced back-stress in multi-principal element alloys: Experiment and modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142621. | 2.6 | 8 |
| 5 | Metalloid substitution elevates simultaneously the strength and ductility of face-centered-cubic high-entropy alloys. Acta Materialia, 2022, 225, 117571. | 3.8 | 64 |
| 6 | Development of Porous Metals by Liquid Metal Dealloying. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, 27-33. | 0.1 | 0 |
| 7 | Harnessing elastic anisotropy to achieve low-modulus refractory high-entropy alloys for biomedical applications. Materials and Design, 2022, 215, 110430. | 3.3 | 16 |
| 8 | Composition design, synthesis and hydrogen storage ability of multi-principal-component alloy TiVZrNbTa. Journal of Alloys and Compounds, 2022, 901, 163638. | 2.8 | 14 |
| 9 | Effect of physical aging and cyclic loading on power-law creep of high-entropy metallic glass. Journal of Materials Science and Technology, 2022, 115, 1-9. | 5.6 | 6 |
| 10 | Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. Scripta Materialia, 2022, 214, 114673. | 2.6 | 11 |
| 11 | 3D interconnected nanoporous FeCo soft magnetic materials synthesized by liquid metal dealloying. Journal of Alloys and Compounds, 2022, 908, 164688. | 2.8 | 4 |
| 12 | Regulation of strength and ductility of single-phase twinning-induced plasticity high-entropy alloys. Scripta Materialia, 2022, 216, 114738. | 2.6 | 24 |
| 13 | High-entropy design and its influence on glass-forming ability in Zrâ€“Cu-based metallic glass. Journal of Alloys and Compounds, 2022, 915, 165366. | 2.8 | 6 |
| 14 | Role of Fe substitution for Co on thermal stability and glass-forming ability of soft magnetic Co-based Co-Fe-B-P-C metallic glasses. Intermetallics, 2022, 147, 107598. | 1.8 | 7 |
| 15 | Strengthening of high-entropy alloys via modulation of cryo-pre-straining-induced defects. Journal of Materials Science and Technology, 2022, 129, 251-260. | 5.6 | 20 |
| 16 | Microstructure evolution and deformation mechanism of Î±+Î² dual-phase Ti-xNb-yTa-2Zr alloys with high performance. Journal of Materials Science and Technology, 2022, 131, 68-81. | 5.6 | 28 |
| 17 | Detailed structural analysis of amorphous Pd40Cu40P20: Comparison with the metallic glass Pd40Ni40P20 from the viewpoint of glass forming ability. Journal of Non-Crystalline Solids, 2021, 555, 120536. | 1.5 | 5 |
| 18 | Anomalous compliance of interpenetrating-phase composite of Ti and Mg synthesized by liquid metal dealloying. Scripta Materialia, 2021, 194, 113660. | 2.6 | 17 |

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|---|---|---|---|
| 19 | Inelastic deformation of metallic glasses under dynamic cyclic loading. Scripta Materialia, 2021, 194, 113675. | 2.6 | 6 |
| 20 | Effect of the synthesis conditions of Ce0.9Gd0.1O1.95 powder on its morphology and characteristics of the oxygen ion-conducting ceramics obtained by spark plasma sintering. Ceramics International, 2021, 47, 2557-2564. | 2.3 | 3 |
| 21 | Electrochemically synthesized liquid-sulfur/sulfide composite materials for high-rate magnesium battery cathodes. Journal of Materials Chemistry A, 2021, 9, 16585-16593. | 5.2 | 5 |
| 22 | Experimental and molecular dynamics studies of phase transformations during cryogenic thermal cycling in complex TiNi-based crystalline/amorphous alloys. Journal of Alloys and Compounds, 2021, 854, 155379. | 2.8 | 10 |
| 23 | Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. Metals, 2021, 11, 238. | 1.0 | 16 |
| 24 | Microstructure Refinement of a Transformation-Induced Plasticity High-Entropy Alloy. Materials, 2021, 14, 1196. | 1.3 | 12 |
| 25 | Relaxation Behavior and Heterogeneous Structures of Metallic Glasses. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 374-380. | 0.1 | 0 |
| 26 | Decoupling between calorimetric and dynamical glass transitions in high-entropy metallic glasses. Nature Communications, 2021, 12, 3843. | 5.8 | 24 |
| 27 | Temperature- and strain-dependent thermally-activated deformation mechanism of a ferrous medium-entropy alloy. Intermetallics, 2021, 134, 107202. | 1.8 | 10 |
| 28 | A strategy for enhancing the mechanical property of the precipitation-strengthened medium-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141390. | 2.6 | 30 |
| 29 | Identifying the high entropy characteristic in La-based metallic glasses. Applied Physics Letters, 2021, 119, . | 1.5 | 3 |
| 30 | In situ observation of liquid metal dealloying and etching of porous FeCr by X-ray tomography and X-ray diffraction. Materialia, 2021, 18, 101125. | 1.3 | 0 |
| 31 | Dynamic mechanical relaxation behavior of Zr35Hf17.5Ti5.5Al12.5Co7.5Ni12Cu10 high entropy bulk metallic glass. Journal of Materials Science and Technology, 2021, 83, 248-255. | 5.6 | 32 |
| 32 | New Ti/Î²-Ti alloy laminated composite processed by powder metallurgy: Microstructural evolution and mechanical property. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141702. | 2.6 | 7 |
| 33 | Stress relaxation in high-entropy Pd20Pt20Cu20Ni20P20 metallic glass: Experiments, modeling and theory. Mechanics of Materials, 2021, 160, 103959. | 1.7 | 5 |
| 34 | Unusual two-step dealloying mechanism of nanoporous TiVNbMoTa high-entropy alloy during liquid metal dealloying. Journal of Materials Research and Technology, 2021, 14, 2945-2953. | 2.6 | 6 |
| 35 | Evolution of 3D interconnected composites of high-entropy TiVNbMoTa alloys and Mg during liquid metal dealloying. Composites Part B: Engineering, 2021, 222, 109044. | 5.9 | 13 |
| 36 | Superior phase transformation-assisted mechanical properties of a metastable medium-entropy ferrous alloy with heterogeneous microstructure. Materials Letters, 2021, 302, 130391. | 1.3 | 13 |

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|---|---|---|---|
| 37 | Microstructure and corrosion study of Fe-based bulk metallic glass obtained by spark plasma sintering. Journal of Alloys and Compounds, 2021, 880, 160399. | 2.8 | 11 |
| 38 | 2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. Scripta Materialia, 2021, 204, 114157. | 2.6 | 26 |
| 39 | Beyond strength-ductility trade-off: 3D interconnected heterostructured composites by liquid metal dealloying. Composites Part B: Engineering, 2021, 225, 109266. | 5.9 | 21 |
| 40 | Response to the commentary by Robert Tournier and Michael Ojovan on our publication entitled â€œImproving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactionsâ€. Scripta Materialia, 2021, 205, 114035. | 2.6 | 3 |
| 41 | Evolution of microstructural complex transitions in low-modulus Î²-type Ti-35Nb-2Ta-3Zr alloy manufactured by laser powder bed fusion. Additive Manufacturing, 2021, 48, 102376. | 1.7 | 2 |
| 42 | Hierarchical heterostructured FeCrâ€“(Mgâ€“Mg2Ni) composite with 3D interconnected and lamellar structures synthesized by liquid metal dealloying. Journal of Materials Research and Technology, 2021, 15, 4573-4579. | 2.6 | 8 |
| 43 | Surface Modification by Liquid Metal Dealloying. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 610-615. | 0.1 | 0 |
| 44 | Transformation mechanisms and governing orientation relationships through selective dissolution of Ni via liquid metal dealloying from (FeCo)xNi100â^'x precursors. Materials and Design, 2020, 185, 108271. | 3.3 | 16 |
| 45 | Ordering kinetics of nanoporous FeCo during liquid metal dealloying and the development of nanofacets. Scripta Materialia, 2020, 177, 38-43. | 2.6 | 15 |
| 46 | Selective deposition of platinum hemispheres on the {100} facets of synthetic diamond. Diamond and Related Materials, 2020, 101, 107620. | 1.8 | 2 |
| 47 | Soot-combustion catalyst of Pd/ZrO2 composites prepared from Zr65Pd35 amorphous alloy by oxidation treatment. Japanese Journal of Applied Physics, 2020, 59, SAAC06. | 0.8 | 1 |
| 48 | The atomic structure of a bulk metallic glass resolved by scanning tunneling microscopy and ab-initio molecular dynamics simulation. Journal of Alloys and Compounds, 2020, 816, 152680. | 2.8 | 10 |
| 49 | Characterization of nanoscale detonation carbon produced in a pulse gas-detonation device. Diamond and Related Materials, 2020, 101, 107553. | 1.8 | 17 |
| 50 | High-temperature mechanical behavior of B2-ordered Tiâ€“Moâ€“Al alloys. Intermetallics, 2020, 117, 106675. | 1.8 | 8 |
| 51 | Beating Thermal Coarsening in Nanoporous Materials via Highâ€Entropy Design. Advanced Materials, 2020, 32, e1906160. | 11.1 | 61 |
| 52 | Novel Î± + Î² Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. Metals, 2020, 10, 34. | 1.0 | 3 |
| 53 | Improving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactions. Acta Materialia, 2020, 200, 710-719. | 3.8 | 16 |
| 54 | Hot Deformation and Dynamic Recrystallization Behavior of CoCrNi and (CoCrNi)94Ti3Al3 Medium Entropy Alloys. Metals, 2020, 10, 1341. | 1.0 | 21 |

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|---|---|---|---|
| 55 | Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. Metals, 2020, 10, 867. | 1.0 | 10 |
| 56 | Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. Nanomaterials, 2020, 10, 1479. | 1.9 | 19 |
| 57 | Mechanical properties and microstructural change in (Cuâ€"Fe) immiscible metal matrix composite: Effect of Mg on secondary phase separation. Journal of Materials Research and Technology, 2020, 9, 15989-15995. | 2.6 | 18 |
| 58 | Nanoporous High-Entropy Alloy by Liquid Metal Dealloying. Metals, 2020, 10, 1396. | 1.0 | 26 |
| 59 | Effect of dealloying rate on transformation behavior during liquid metal dealloying. Journal of Alloys and Compounds, 2020, 831, 154733. | 2.8 | 12 |
| 60 | X-ray elastography by visualizing propagating shear waves. Applied Physics Express, 2020, 13, 042004. | 1.1 | 6 |
| 61 | Mechanical Properties of FeCrâ€Based Composite Materials Elaborated by Liquid Metal Dealloying towards Bioapplication. Advanced Engineering Materials, 2020, 22, 2000381. | 1.6 | 8 |
| 62 | Effect of alloying elements on the microstructure and corrosion behavior of TiZr-based bulk metallic glasses. Corrosion Science, 2020, 177, 108854. | 3.0 | 34 |
| 63 | Corrosion resistance of porous ferritic stainless steel produced by liquid metal dealloying of Incoloy 800. Corrosion Science, 2020, 166, 108468. | 3.0 | 20 |
| 64 | Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. Materials Today Communications, 2020, 24, 101120. | 0.9 | 13 |
| 65 | Microstructures and mechanical properties of TiC-particulate-reinforced Tiâ€"Moâ€"Al intermetallic matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139523. | 2.6 | 19 |
| 66 | Fabrication of multi-blade crystals for hard-X-ray multi-beam imaging system. Japanese Journal of Applied Physics, 2020, 59, 092001. | 0.8 | 7 |
| 67 | Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. Metals, 2019, 9, 846. | 1.0 | 16 |
| 68 | Introducing dislocations locally in Al-supersaturated Î±2-Ti3Al single crystal via nanoscale wedge indentation. Intermetallics, 2019, 113, 106557. | 1.8 | 2 |
| 69 | Partial structure investigation of the traditional bulk metallic glass <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pd</mml:mi><mml:mn>40</mml:mn></m mathvariant="normal">P</mml:mi><mml:mn>20</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, . | 1.1 | 31 |
| 70 | Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. Acta Materialia, 2019, 181, 318-330. | 3.8 | 134 |
| 71 | Anomalously low modulus of the interpenetrating-phase composite of Fe and Mg obtained by liquid metal dealloying. Scripta Materialia, 2019, 163, 133-136. | 2.6 | 36 |
| 72 | High-Entropy Alloys with Hexagonal Close-Packed Structure in Ir<sub>26</sub>Mo<sub>20</sub>Rh<sub>22.5</sub>Ru<sub>20</sub>W<sub>11.5& and Ir<sub>25.5</sub>Mo<sub>20</sub>Rh<sub>20</sub>Ru<sub>25</sub>W<sub>9.5&l Alloys Designed by Sandwich Strategy for the Valence Electron Concentration of Constituent Elements in the Periodic Chart. Materials Transactions, 2019, 60, 1666-1673. | 0.4 | 32 |

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|---|---|---|---|
| 73 | Development of porous FeCo by liquid metal dealloying: Evolution of porous morphology and effect of interaction between ligaments and melt. Materials and Design, 2019, 180, 107908. | 3.3 | 28 |
| 74 | Septenary Zrâ€“Hfâ€“Tiâ€“Alâ€“Coâ€“Niâ€“Cu high-entropy bulk metallic glasses with centimeter-scale glass-forming ability. Materialia, 2019, 7, 100372. | 1.3 | 32 |
| 75 | On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. Additive Manufacturing, 2019, 28, 215-227. | 1.7 | 38 |
| 76 | Interaction of a Tiâ€“Cu Alloy with Carbon: Synthesis of Composites and Model Experiments. Materials, 2019, 12, 1482. | 1.3 | 15 |
| 77 | Decreasing activation energy of fast relaxation processes in a metallic glass during aging. Physical Review B, 2019, 99, . | 1.1 | 10 |
| 78 | Structural heterogeneities and mechanical behavior of amorphous alloys. Progress in Materials Science, 2019, 104, 250-329. | 16.0 | 428 |
| 79 | Nano-imprinting potential of magnetic FeCo-based metallic glass. Nanotechnology, 2019, 30, 305302. | 1.3 | 6 |
| 80 | Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. Scripta Materialia, 2019, 165, 39-43. | 2.6 | 200 |
| 81 | Synthesis of Nano-Sized TiB2 and TiC Particles During Spark Plasma Sintering of Ball-Milled Ti-Cu Alloy + B(C) and Ti+Cu+B mixtures. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012012. | 0.3 | 1 |
| 82 | Solid Solutions with bcc, hcp, and fcc Structures Formed in a Composition Line in Multicomponent Irâ€“Rhâ€“Ruâ€“Wâ€“Mo System. Materials Transactions, 2019, 60, 2267-2276. | 0.4 | 31 |
| 83 | Porous Ti-based bulk metallic glass with excellent mechanical properties and good biocompatibility. Intermetallics, 2019, 105, 153-162. | 1.8 | 41 |
| 84 | Structure and mechanical properties of Ti-Based alloys containing Ag subjected to a thermomechanical treatment. Journal of Alloys and Compounds, 2019, 781, 1182-1188. | 2.8 | 5 |
| 85 | Novel Co-rich high entropy alloys with superior tensile properties. Materials Research Letters, 2019, 7, 82-88. | 4.1 | 139 |
| 86 | Low cost high specific surface architectured nanoporous metal with corrosion resistance produced by liquid metal dealloying from commercial nickel superalloy. Scripta Materialia, 2019, 163, 5-8. | 2.6 | 13 |
| 87 | Formation of TiC-Cu nanocomposites by a reaction between Ti25Cu75 melt-spun alloy and carbon. Materials Letters, 2019, 235, 104-106. | 1.3 | 14 |
| 88 | Phase-field investigation of the coarsening of porous structures by surface diffusion. Physical Review Materials, 2019, 3, . | 0.9 | 13 |
| 89 | Viscoelasticity of Cu- and La-based bulk metallic glasses: Interpretation based on the quasi-point defects theory. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 719, 164-170. | 2.6 | 15 |
| 90 | Open porous dealloying-based biomaterials as a novel biomaterial platform. Materials Science and Engineering C, 2018, 88, 95-103. | 3.8 | 60 |

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| 91 | Preparation of hierarchical porous metals by two-step liquid metal dealloying. Scripta Materialia, 2018, 142, 101-105. | 2.6 | 51 |
| 92 | A new, toxic element-free Mg-based metallic glass for biomedical applications. Journal of Non-Crystalline Solids, 2018, 481, 397-402. | 1.5 | 13 |
| 93 | Mechanical properties, electrochemical behavior and biocompatibility of the Ti-based low-alloys containing a minor fraction of noble metals. Journal of Alloys and Compounds, 2018, 732, 915-921. | 2.8 | 11 |
| 94 | Optimizing Imprinting Condition for High Aspect Grating of Pd-based Metallic Glass. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 52-56. | 0.1 | 0 |
| 95 | Porous NiTi Particle Dispersed Mg-Zn-Ca Bulk Metallic Glass Matrix Composites. Materials, 2018, 11, 1959. | 1.3 | 16 |
| 96 | Nanoporous magnesium. Nano Research, 2018, 11, 6428-6435. | 5.8 | 46 |
| 97 | A Ni-, Al-, Be-free Zr-based metallic glass for biomedical applications. Journal of Non-Crystalline Solids, 2018, 500, 78-83. | 1.5 | 11 |
| 98 | Microstructure characterization by X-ray tomography and EBSD of porous FeCr produced by liquid metal dealloying. Materials Characterization, 2018, 144, 166-172. | 1.9 | 19 |
| 99 | Electronic structures and heterogeneity of Zr-Cu-Ag metallic glasses. Journal of Non-Crystalline Solids, 2018, 498, 281-287. | 1.5 | 2 |
| 100 | On the Potential of Bulk Metallic Glasses for Dental Implantology: Case Study on Ti40Zr10Cu36Pd14. Materials, 2018, 11, 249. | 1.3 | 30 |
| 101 | Imaging of 3D morphological evolution of nanoporous silicon anode in lithium ion battery by X-ray nano-tomography. Nano Energy, 2018, 52, 381-390. | 8.2 | 101 |
| 102 | The mechanical cycling behavior of TiNi based crystal/glassy alloy in the superelastic mode. Journal of Alloys and Compounds, 2018, 768, 176-180. | 2.8 | 7 |
| 103 | Effect of substituting elements on thermal stability and glass-forming ability of an Al-based Al Ni Er metallic glass. Journal of Alloys and Compounds, 2017, 707, 97-101. | 2.8 | 17 |
| 104 | Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 122-133. | 2.6 | 166 |
| 105 | Development of in-situ Î²-Ti reinforced Be-free Tiâ€“based bulk metallic glass matrix composites. Journal of Alloys and Compounds, 2017, 714, 120-125. | 2.8 | 18 |
| 106 | Multiwalled carbon nanotube forests grown on the surface of synthetic diamond crystals. Ceramics International, 2017, 43, 10606-10609. | 2.3 | 7 |
| 107 | Structure and properties of ultrafine-grained CoCrFeMnNi high-entropy alloys produced by mechanical alloying and spark plasma sintering. Journal of Alloys and Compounds, 2017, 698, 591-604. | 2.8 | 165 |
| 108 | The influence of the formation of Fe3C on graphitization in a carbon-rich iron-amorphous carbon mixture processed by Spark Plasma Sintering and annealing. Ceramics International, 2017, 43, 11902-11906. | 2.3 | 21 |

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| 109 | Formation of extremely high-aspect Si sub-micron patterns with smooth wall for MEMS and X-ray devices. , 2017, , . | | 0 |
| 110 | Development of Multi-colored Neutron Talbotâ€"Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. Journal of the Physical Society of Japan, 2017, 86, 044001. | 0.7 | 13 |
| 111 | Mechanical Properties and Biocompatibility of the Ti-Based Low-Alloys Minor Alloying by the Noble Metals. Nano Hybrids and Composites, 2017, 13, 63-68. | 0.8 | 2 |
| 112 | Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. Materials Characterization, 2017, 124, 165-170. | 1.9 | 7 |
| 113 | Electrochemical behavior and biocompatibility of Ti-Fe-Cu alloy with high strength and ductility. Journal of Alloys and Compounds, 2017, 707, 291-297. | 2.8 | 22 |
| 114 | Cold-rolling influence on microstructure and mechanical properties of NiCr - Ag composites and porous NiCr obtained by liquid metal dealloying. Journal of Alloys and Compounds, 2017, 707, 251-256. | 2.8 | 11 |
| 115 | Edge-illumination x-ray phase contrast imaging with Pt-based metallic glass masks. Review of Scientific Instruments, 2017, 88, 063705. | 0.6 | 5 |
| 116 | Three-Dimensional Morphological and Chemical Evolution of Nanoporous Stainless Steel by Liquid Metal Dealloying. ACS Applied Materials & Interfaces, 2017, 9, 34172-34184. | 4.0 | 41 |
| 117 | Effect of the cooling rate on the mechanical properties of Ti-Ni-Cu-Zr-based crystal/glassy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 147-153. | 2.6 | 11 |
| 118 | Morphological features of W- and Ni-containing coatings on diamond crystals and properties of diamond-copper composites obtained by Spark Plasma Sintering. Materials Today: Proceedings, 2017, 4, 11396-11401. | 0.9 | 2 |
| 119 | Preparation of Nanoporous Si by Dealloying in Metallic Melt and Its Application for Negative Electrode of Lithium Ion Battery. Materials Today: Proceedings, 2017, 4, 11465-11469. | 0.9 | 4 |
| 120 | A novel method of surface modification by electrochemical deoxidation: Effect on surface characteristics and initial bioactivity of zirconia. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2641-2652. | 1.6 | 4 |
| 121 | Fabrication and mechanical properties of bulk metallic glass matrix composites by in-situ dealloying method. Journal of Alloys and Compounds, 2017, 707, 332-336. | 2.8 | 19 |
| 122 | Effect of B2-ordered phase on the deformation behavior of Ti-Mo-Al alloys at elevated temperature. Journal of Alloys and Compounds, 2017, 696, 130-135. | 2.8 | 12 |
| 123 | Mechanical properties, structure, and biocompatibility of dual-axially forged Ti 94 Fe 3 Au 3 , Ti 94 Fe 3 Nb 3 , and Ti 94 Au 3 Nb 3 alloys. Journal of Alloys and Compounds, 2017, 707, 269-274. | 2.8 | 6 |
| 124 | Electrochemical Performance and Volume Change of Lithium Ion Secondary Battery Negative Electrode Made with Bicontinuous Nanoporous Si. Materia Japan, 2017, 56, 438-442. | 0.1 | 0 |
| 125 | X-ray phase imaging using a Gd-based absorption grating fabricated by imprinting technique. Japanese Journal of Applied Physics, 2016, 55, 048003. | 0.8 | 8 |
| 126 | Evolution of a bicontinuous nanostructure via a solid-state interfacial dealloying reaction. Scripta Materialia, 2016, 118, 33-36. | 2.6 | 46 |

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| 127 | Enhanced wear resistivity of a Zr-based bulk metallic glass processed by high-pressure torsion under reciprocating dry conditions. Metals and Materials International, 2016, 22, 383-390. | 1.8 | 11 |
| 128 | Selective growth of silver particles on the facets of synthetic diamond. CrystEngComm, 2016, 18, 7430-7434. | 1.3 | 10 |
| 129 | High aspect ratio grating by isochronal imprinting of less viscous workable Gd-based metallic glass for neutron phase imaging. Intermetallics, 2016, 78, 55-63. | 1.8 | 12 |
| 130 | Work-hardenable Mg-based bulk metallic glass matrix composites reinforced by ex-situ porous shape-memory-alloy particles. Materials Letters, 2016, 183, 454-458. | 1.3 | 29 |
| 131 | Enlarging the surface area of an electrolytic capacitor of porous niobium by Mg Ce eutectic liquid dealloying. Scripta Materialia, 2016, 122, 68-71. | 2.6 | 8 |
| 132 | Tiâ€“Agâ€“Pd alloy with good mechanical properties and high potential for biological applications. Scientific Reports, 2016, 6, 25142. | 1.6 | 17 |
| 133 | Bicontinuous Porous Metals by Dealloying in Metallic Melts. Materia Japan, 2016, 55, 519-527. | 0.1 | 2 |
| 134 | Formation of Porous Layer with Low Ni Content on NiTi Substrate by Dealloying in Metallic Melts. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 766-770. | 0.1 | 0 |
| 135 | Effects of Noble Metal Additons on Plastic Deformation of Zr-Cu-Ni-Al Based Bulk Metallic Glasses. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 230-238. | 0.1 | 1 |
| 136 | Fracture and Fatigue Characteristics under Torsional Stressing in Zr-Based Bulk Metallic Glass. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 223-229. | 0.1 | 0 |
| 137 | Early science commissioning results of the sub-micron resolution X-ray spectroscopy beamline (SRX) in the field of materials science and engineering. AIP Conference Proceedings, 2016, , . | 0.3 | 16 |
| 138 | Preparation of three-dimensional nanoporous Si using dealloying by metallic melt and application as a lithium-ion rechargeable battery negative electrode. Journal of Power Sources, 2016, 306, 8-16. | 4.0 | 81 |
| 139 | Three-dimensional bicontinuous porous graphite generated in low temperature metallic liquid. Carbon, 2016, 96, 403-410. | 5.4 | 56 |
| 140 | A Combination of Anomalous X-ray Scattering and Neutron Diffraction for Structural Characterizations of Zr<sub>45</sub>Cu<sub>45</sub>Ag<sub>10</sub> Metallic Glass. , 2015, , . | | 0 |
| 141 | Investigation of structureâ€“mechanical properties relations of dual-axially forged Ti-based low-alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 88-95. | 2.6 | 12 |
| 142 | Development of a high-damping NiTi shape-memory-alloy-based composite. Materials Letters, 2015, 158, 1-4. | 1.3 | 35 |
| 143 | Insight on the process ability of bulk metallic glasses by thermo-mechanical analysis and dynamic mechanical analysis. Journal of Alloys and Compounds, 2015, 628, 357-363. | 2.8 | 12 |
| 144 | Development and microstructure optimization of Mg-based metallic glass matrix composites with in situ B2-NiTi dispersoids. Materials and Design, 2015, 83, 238-248. | 3.3 | 33 |

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| 145 | Work-Hardening Induced Tensile Ductility of Bulk Metallic Glasses via High-Pressure Torsion. Scientific Reports, 2015, 5, 9660. | 1.6 | 80 |
| 146 | Submicron-porous NiTi and NiTiNb shape memory alloys with high damping capacity fabricated by a new top-down process. Materials & Design, 2015, 78, 74-79. | 5.1 | 30 |
| 147 | Optimizing niobium dealloying with metallic melt to fabricate porous structure for electrolytic capacitors. Acta Materialia, 2015, 84, 497-505. | 3.8 | 72 |
| 148 | The effect of size and volume fraction of the reinforcement on mechanical property and deformation mechanism of the bulk metallic glassy composite. Journal of Alloys and Compounds, 2015, 644, 25-29. | 2.8 | 4 |
| 149 | Bulk metallic glasses based on precious metals: Thermal treatments and mechanical properties. Intermetallics, 2015, 63, 73-79. | 1.8 | 15 |
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