

Hidemi Kato

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

331
papers

7,187
citations

44
h-index

72
g-index

344
ext. papers

8,293
ext. citations

4.1
avg, IF

6.19
L-index

#	Paper	IF	Citations
331	Development of Porous Metals by Liquid Metal Dealloying. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2022 , 69, 27-33	0.2	
330	Harnessing elastic anisotropy to achieve low-modulus refractory high-entropy alloys for biomedical applications. <i>Materials and Design</i> , 2022 , 215, 110430	8.1	1
329	Composition design, synthesis and hydrogen storage ability of multi-principal-component alloy TiVZrNbTa. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163638	5.7	0
328	Effect of physical aging and cyclic loading on power-law creep of high-entropy metallic glass. <i>Journal of Materials Science and Technology</i> , 2022 , 115, 1-9	9.1	0
327	Solid solution induced back-stress in multi-principal element alloys: Experiment and modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 835, 142621	5.3	2
326	Metalloid substitution elevates simultaneously the strength and ductility of face-centered-cubic high-entropy alloys. <i>Acta Materialia</i> , 2022 , 225, 117571	8.4	7
325	Nanoimprinting of magnetic FeCo-based metallic glass thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 542, 168455	2.8	2
324	Analysis of the anelastic deformation of high-entropy Pd ₂₀ Pt ₂₀ Cu ₂₀ Ni ₂₀ P ₂₀ metallic glass under stress relaxation and recovery. <i>Journal of Materials Science and Technology</i> , 2022 , 107, 82-91	9.1	1
323	Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. <i>Scripta Materialia</i> , 2022 , 214, 114673	5.6	1
322	3D interconnected nanoporous FeCo soft magnetic materials synthesized by liquid metal dealloying. <i>Journal of Alloys and Compounds</i> , 2022 , 908, 164688	5.7	1
321	Regulation of strength and ductility of single-phase twinning-induced plasticity high-entropy alloys. <i>Scripta Materialia</i> , 2022 , 216, 114738	5.6	1
320	High-entropy design and its influence on glass-forming ability in ZrCu-based metallic glass. <i>Journal of Alloys and Compounds</i> , 2022 , 165366	5.7	0
319	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. <i>Intermetallics</i> , 2022 , 147, 107598	3.5	0
318	Evolution of microstructural complex transitions in low-modulus E-type Ti-35Nb-2Ta-3Zr alloy manufactured by laser powder bed fusion. <i>Additive Manufacturing</i> , 2021 , 48, 102376	6.1	0
317	Hierarchical heterostructured FeCr(MgMg ₂ Ni) composite with 3D interconnected and lamellar structures synthesized by liquid metal dealloying. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 4573-4579	5.5	0
316	Microstructure Refinement of a Transformation-Induced Plasticity High-Entropy Alloy. <i>Materials</i> , 2021 , 14,	3.5	7
315	Relaxation Behavior and Heterogeneous Structures of Metallic Glasses. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2021 , 70, 374-380	0.1	

314	Decoupling between calorimetric and dynamical glass transitions in high-entropy metallic glasses. <i>Nature Communications</i> , 2021 , 12, 3843	17.4	5
313	Temperature- and strain-dependent thermally-activated deformation mechanism of a ferrous medium-entropy alloy. <i>Intermetallics</i> , 2021 , 134, 107202	3.5	5
312	Detailed structural analysis of amorphous Pd ₄₀ Cu ₄₀ P ₂₀ : Comparison with the metallic glass Pd ₄₀ Ni ₄₀ P ₂₀ from the viewpoint of glass forming ability. <i>Journal of Non-Crystalline Solids</i> , 2021 , 555, 120536	3.9	1
311	Anomalous compliance of interpenetrating-phase composite of Ti and Mg synthesized by liquid metal dealloying. <i>Scripta Materialia</i> , 2021 , 194, 113660	5.6	8
310	Inelastic deformation of metallic glasses under dynamic cyclic loading. <i>Scripta Materialia</i> , 2021 , 194, 113675	5.7	2
309	Effect of the synthesis conditions of Ce _{0.9} Gd _{0.1} O _{1.95} powder on its morphology and characteristics of the oxygen ion-conducting ceramics obtained by spark plasma sintering. <i>Ceramics International</i> , 2021 , 47, 2557-2564	5.1	1
308	Electrochemically synthesized liquid-sulfur/sulfide composite materials for high-rate magnesium battery cathodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16585-16593	13	2
307	Experimental and molecular dynamics studies of phase transformations during cryogenic thermal cycling in complex TiNi-based crystalline/amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 155379	5.7	3
306	Novel Co-Cu-Based Immiscible Medium-Entropy Alloys with Promising Mechanical Properties. <i>Metals</i> , 2021 , 11, 238	2.3	5
305	A strategy for enhancing the mechanical property of the precipitation-strengthened medium-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141390	5.3	5
304	Identifying the high entropy characteristic in La-based metallic glasses. <i>Applied Physics Letters</i> , 2021 , 119, 051905	3.4	2
303	In situ observation of liquid metal dealloying and etching of porous FeCr by X-ray tomography and X-ray diffraction. <i>Materialia</i> , 2021 , 18, 101125	3.2	
302	Dynamic mechanical relaxation behavior of Zr ₃₅ Hf _{17.5} Ti _{5.5} Al _{12.5} Co _{7.5} Ni ₂ Cu ₁₀ high entropy bulk metallic glass. <i>Journal of Materials Science and Technology</i> , 2021 , 83, 248-255	9.1	17
301	New Ti/ETi alloy laminated composite processed by powder metallurgy: Microstructural evolution and mechanical property. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141702	5.3	1
300	Inhomogeneous dealloying kinetics along grain boundaries during liquid metal dealloying. <i>Journal of Materials Science and Technology</i> , 2021 , 106, 41-41	9.1	0
299	Stress relaxation in high-entropy Pd ₂₀ Pt ₂₀ Cu ₂₀ Ni ₂₀ P ₂₀ metallic glass: Experiments, modeling and theory. <i>Mechanics of Materials</i> , 2021 , 160, 103959	3.3	1
298	Unusual two-step dealloying mechanism of nanoporous TiVNbMoTa high-entropy alloy during liquid metal dealloying. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 2945-2953	5.5	2
297	Evolution of 3D interconnected composites of high-entropy TiVNbMoTa alloys and Mg during liquid metal dealloying. <i>Composites Part B: Engineering</i> , 2021 , 222, 109044	10	4

296	Superior phase transformation-assisted mechanical properties of a metastable medium-entropy ferrous alloy with heterogeneous microstructure. <i>Materials Letters</i> , 2021 , 302, 130391	3.3	3
295	Microstructure and corrosion study of Fe-based bulk metallic glass obtained by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2021 , 880, 160399	5.7	4
294	2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. <i>Scripta Materialia</i> , 2021 , 204, 114157	5.6	4
293	Beyond strength-ductility trade-off: 3D interconnected heterostructured composites by liquid metal dealloying. <i>Composites Part B: Engineering</i> , 2021 , 225, 109266	10	3
292	Response to the commentary by Robert Tournier and Michael Ojovan on our publication entitled Improving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactions□ <i>Scripta Materialia</i> , 2021 , 205, 114035	5.6	2
291	Surface Modification by Liquid Metal Dealloying. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2021 , 72, 610-615	0.1	
290	Mechanical properties and microstructural change in (CuBe) immiscible metal matrix composite: Effect of Mg on secondary phase separation. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15989-15995	5.5	6
289	Nanoporous High-Entropy Alloy by Liquid Metal Dealloying. <i>Metals</i> , 2020 , 10, 1396	2.3	14
288	Effect of dealloying rate on transformation behavior during liquid metal dealloying. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154733	5.7	8
287	X-ray elastography by visualizing propagating shear waves. <i>Applied Physics Express</i> , 2020 , 13, 042004	2.4	4
286	Mechanical Properties of FeCr-Based Composite Materials Elaborated by Liquid Metal Dealloying towards Bioapplication. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000381	3.5	5
285	Effect of alloying elements on the microstructure and corrosion behavior of TiZr-based bulk metallic glasses. <i>Corrosion Science</i> , 2020 , 177, 108854	6.8	13
284	Corrosion resistance of porous ferritic stainless steel produced by liquid metal dealloying of Incoloy 800. <i>Corrosion Science</i> , 2020 , 166, 108468	6.8	13
283	Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. <i>Materials Today Communications</i> , 2020 , 24, 101120	2.5	9
282	Fabrication of multi-blade crystals for hard-X-ray multi-beam imaging system. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 092001	1.4	2
281	Microstructures and mechanical properties of TiC-particulate-reinforced TiMoAl intermetallic matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139523	5.3	8
280	Selective deposition of platinum hemispheres on the {100} facets of synthetic diamond. <i>Diamond and Related Materials</i> , 2020 , 101, 107620	3.5	1
279	Soot-combustion catalyst of Pd/ZrO ₂ composites prepared from Zr ₆₅ Pd ₃₅ amorphous alloy by oxidation treatment. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SAAC06	1.4	1

278	The atomic structure of a bulk metallic glass resolved by scanning tunneling microscopy and ab-initio molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152680	5.7	8
277	Characterization of nanoscale detonation carbon produced in a pulse gas-detonation device. <i>Diamond and Related Materials</i> , 2020 , 101, 107553	3.5	9
276	High-temperature mechanical behavior of B2-ordered TiMoAl alloys. <i>Intermetallics</i> , 2020 , 117, 106675	3.5	3
275	Beating Thermal Coarsening in Nanoporous Materials via High-Entropy Design. <i>Advanced Materials</i> , 2020 , 32, e1906160	24	36
274	Novel BCC-type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. <i>Metals</i> , 2020 , 10, 34	2.3	1
273	Improving glass forming ability of off-eutectic metallic glass formers by manipulating primary crystallization reactions. <i>Acta Materialia</i> , 2020 , 200, 710-719	8.4	7
272	Hot Deformation and Dynamic Recrystallization Behavior of CoCrNi and (CoCrNi) ₉₄ Ti ₃ Al ₃ Medium Entropy Alloys. <i>Metals</i> , 2020 , 10, 1341	2.3	10
271	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. <i>Metals</i> , 2020 , 10, 867	2.3	5
270	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
269	Transformation mechanisms and governing orientation relationships through selective dissolution of Ni via liquid metal dealloying from (FeCo) _x Ni _{100-x} precursors. <i>Materials and Design</i> , 2020 , 185, 108271	8.1	9
268	Ordering kinetics of nanoporous FeCo during liquid metal dealloying and the development of nanofacets. <i>Scripta Materialia</i> , 2020 , 177, 38-43	5.6	12
267	Partial structure investigation of the traditional bulk metallic glass Pd ₄₀ Ni ₄₀ P ₂₀ . <i>Physical Review B</i> , 2019 , 100,	3.3	15
266	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , 2019 , 181, 318-330	8.4	67
265	Anomalously low modulus of the interpenetrating-phase composite of Fe and Mg obtained by liquid metal dealloying. <i>Scripta Materialia</i> , 2019 , 163, 133-136	5.6	25
264	High-Entropy Alloys with Hexagonal Close-Packed Structure in Ir ₂₆ Mo ₂₀ Rh _{22.5} Ru ₂₀ W _{11.5} and Ir _{25.5} Mo ₂₀ Rh ₂₀ Ru ₂₅ W _{9.5} Alloys Designed by Sandwich Strategy for the Valence Electron Concentration of Constituent Elements in the Periodic Chart. <i>Materials Transactions</i> , 2019 , 60, 1666-1673	1.3	17
263	Development of porous FeCo by liquid metal dealloying: Evolution of porous morphology and effect of interaction between ligaments and melt. <i>Materials and Design</i> , 2019 , 180, 107908	8.1	20
262	Septenary Zr ₄₀ Ti ₁₀ Al ₁₀ Co ₁₀ Ni ₁₀ Cu high-entropy bulk metallic glasses with centimeter-scale glass-forming ability. <i>Materialia</i> , 2019 , 7, 100372	3.2	15
261	On microstructural homogenization and mechanical properties optimization of biomedical Co-Cr-Mo alloy additively manufactured by using electron beam melting. <i>Additive Manufacturing</i> , 2019 , 28, 215-227	6.1	28

260	Interaction of a Ti-Cu Alloy with Carbon: Synthesis of Composites and Model Experiments. <i>Materials</i> , 2019 , 12,	3.5	10
259	Decreasing activation energy of fast relaxation processes in a metallic glass during aging. <i>Physical Review B</i> , 2019 , 99,	3.3	3
258	Structural heterogeneities and mechanical behavior of amorphous alloys. <i>Progress in Materials Science</i> , 2019 , 104, 250-329	42.2	248
257	Nano-imprinting potential of magnetic FeCo-based metallic glass. <i>Nanotechnology</i> , 2019 , 30, 305302	3.4	4
256	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. <i>Scripta Materialia</i> , 2019 , 165, 39-43	5.6	108
255	Formation of Metallic Glass Coatings by Detonation Spraying of a Fe66Cr10Nb5B19 Powder. <i>Metals</i> , 2019 , 9, 846	2.3	11
254	Introducing dislocations locally in Al-supersaturated α -Ti3Al single crystal via nanoscale wedge indentation. <i>Intermetallics</i> , 2019 , 113, 106557	3.5	1
253	Phase-field investigation of the coarsening of porous structures by surface diffusion. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
252	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. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 678, 012012	0.4	1
251	Solid Solutions with bcc, hcp, and fcc Structures Formed in a Composition Line in Multicomponent IrRhRuWMo System. <i>Materials Transactions</i> , 2019 , 60, 2267-2276	1.3	14
250	Porous Ti-based bulk metallic glass with excellent mechanical properties and good biocompatibility. <i>Intermetallics</i> , 2019 , 105, 153-162	3.5	20
249	Structure and mechanical properties of Ti-Based alloys containing Ag subjected to a thermomechanical treatment. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 1182-1188	5.7	4
248	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , 2019 , 7, 82-88	7.4	80
247	Low cost high specific surface architected nanoporous metal with corrosion resistance produced by liquid metal dealloying from commercial nickel superalloy. <i>Scripta Materialia</i> , 2019 , 163, 5-8	5.6	9
246	Formation of TiC-Cu nanocomposites by a reaction between Ti25Cu75 melt-spun alloy and carbon. <i>Materials Letters</i> , 2019 , 235, 104-106	3.3	11
245	Viscoelasticity of Cu- and La-based bulk metallic glasses: Interpretation based on the quasi-point defects theory. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 719, 164-170	5.3	11
244	Structural Characterization of Carbon-Based Materials Obtained by Spark Plasma Sintering of Non-Graphitic Carbon with Nickel and Iron as Catalysts and Space Holders. <i>Ceramic Transactions</i> , 2018 , 117-126	0.1	1
243	Open porous dealloying-based biomaterials as a novel biomaterial platform. <i>Materials Science and Engineering C</i> , 2018 , 88, 95-103	8.3	47

242	Preparation of hierarchical porous metals by two-step liquid metal dealloying. <i>Scripta Materialia</i> , 2018 , 142, 101-105	5.6	36
241	Microstructure characterization by X-ray tomography and EBSD of porous FeCr produced by liquid metal dealloying. <i>Materials Characterization</i> , 2018 , 144, 166-172	3.9	13
240	Electronic structures and heterogeneity of Zr-Cu-Ag metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 498, 281-287	3.9	2
239	On the Potential of Bulk Metallic Glasses for Dental Implantology: Case Study on TiZrCuPd. <i>Materials</i> , 2018 , 11,	3.5	16
238	Imaging of 3D morphological evolution of nanoporous silicon anode in lithium ion battery by X-ray nano-tomography. <i>Nano Energy</i> , 2018 , 52, 381-390	17.1	65
237	The mechanical cycling behavior of TiNi based crystal/glassy alloy in the superelastic mode. <i>Journal of Alloys and Compounds</i> , 2018 , 768, 176-180	5.7	5
236	A new, toxic element-free Mg-based metallic glass for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 397-402	3.9	10
235	Mechanical properties, electrochemical behavior and biocompatibility of the Ti-based low-alloys containing a minor fraction of noble metals. <i>Journal of Alloys and Compounds</i> , 2018 , 732, 915-921	5.7	10
234	Optimizing Imprinting Condition for High Aspect Grating of Pd-based Metallic Glass. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 52-56	0.2	
233	Porous NiTi Particle Dispersed Mg-Zn-Ca Bulk Metallic Glass Matrix Composites. <i>Materials</i> , 2018 , 11,	3.5	13
232	Nanoporous magnesium. <i>Nano Research</i> , 2018 , 11, 6428-6435	10	33
231	A Ni-, Al-, Be-free Zr-based metallic glass for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , 2018 , 500, 78-83	3.9	7
230	Effect of substituting elements on thermal stability and glass-forming ability of an Al-based Al Ni Er metallic glass. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 97-101	5.7	13
229	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 122-133	5.3	109
228	Development of in-situ Ti reinforced Be-free TiBased bulk metallic glass matrix composites. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 120-125	5.7	15
227	Multiwalled carbon nanotube forests grown on the surface of synthetic diamond crystals. <i>Ceramics International</i> , 2017 , 43, 10606-10609	5.1	5
226	Structure and properties of ultrafine-grained CoCrFeMnNi high-entropy alloys produced by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 591-604	5.7	125
225	The influence of the formation of Fe ₃ C on graphitization in a carbon-rich iron-amorphous carbon mixture processed by Spark Plasma Sintering and annealing. <i>Ceramics International</i> , 2017 , 43, 11902-11906	5.1	17

224	Development of Multi-colored Neutron Talbot-Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 044001	1.5	13
223	Mechanical Properties and Biocompatibility of the Ti-Based Low-Alloys Minor Alloying by the Noble Metals. <i>Nano Hybrids and Composites</i> , 2017 , 13, 63-68	0.7	2
222	Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. <i>Materials Characterization</i> , 2017 , 124, 165-170	3.9	6
221	Electrochemical behavior and biocompatibility of Ti-Fe-Cu alloy with high strength and ductility. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 291-297	5.7	17
220	Cold-rolling influence on microstructure and mechanical properties of NiCr - Ag composites and porous NiCr obtained by liquid metal dealloying. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 251-256	5.7	9
219	Glass-Forming Ability, Recent Trends, and Synthesis Methods of Metallic Glasses 2017 , 319-350		
218	Edge-illumination x-ray phase contrast imaging with Pt-based metallic glass masks. <i>Review of Scientific Instruments</i> , 2017 , 88, 063705	1.7	4
217	Electrochemical Performance and Volume Change of Lithium Ion Secondary Battery Negative Electrode Made with Bicontinuous Nanoporous Si. <i>Materia Japan</i> , 2017 , 56, 438-442	0.1	
216	Three-Dimensional Morphological and Chemical Evolution of Nanoporous Stainless Steel by Liquid Metal Dealloying. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34172-34184	9.5	28
215	Effect of the cooling rate on the mechanical properties of Ti-Ni-Cu-Zr-based crystal/glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 147-153	5.3	10
214	Morphological features of W- and Ni-containing coatings on diamond crystals and properties of diamond-copper composites obtained by Spark Plasma Sintering. <i>Materials Today: Proceedings</i> , 2017 , 4, 11396-11401	1.4	2
213	Preparation of Nanoporous Si by Dealloying in Metallic Melt and Its Application for Negative Electrode of Lithium Ion Battery. <i>Materials Today: Proceedings</i> , 2017 , 4, 11465-11469	1.4	2
212	A novel method of surface modification by electrochemical deoxidation: Effect on surface characteristics and initial bioactivity of zirconia. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2641-2652	3.5	1
211	Fabrication and mechanical properties of bulk metallic glass matrix composites by in-situ dealloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 332-336	5.7	14
210	Effect of B2-ordered phase on the deformation behavior of Ti-Mo-Al alloys at elevated temperature. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 130-135	5.7	10
209	Mechanical properties, structure, and biocompatibility of dual-axially forged Ti94Fe3Au3, Ti94Fe3Nb3, and Ti94Au3Nb3 alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 269-274	5.7	6
208	Dealloying Toxic Ni from SUS316L Surface 2017 , 35-46		1
207	Work-hardenable Mg-based bulk metallic glass matrix composites reinforced by ex-situ porous shape-memory-alloy particles. <i>Materials Letters</i> , 2016 , 183, 454-458	3.3	26

206	Phonon Excitations in Pd ₄₀ Ni ₄₀ P ₂₀ Bulk Metallic Glass by Inelastic X-Ray Scattering. <i>Materials Science Forum</i> , 2016 , 879, 767-772	0.4	2
205	Enlarging the surface area of an electrolytic capacitor of porous niobium by Mg Ce eutectic liquid dealloying. <i>Scripta Materialia</i> , 2016 , 122, 68-71	5.6	6
204	Ti-Ag-Pd alloy with good mechanical properties and high potential for biological applications. <i>Scientific Reports</i> , 2016 , 6, 25142	4.9	14
203	FeCrMg composite and porous FeCr obtained by dealloying in metallic melt bath by Xray tomography and SEM 2016 , 87-88		
202	Bicontinuous Porous Metals by Dealloying in Metallic Melts. <i>Materia Japan</i> , 2016 , 55, 519-527	0.1	2
201	Formation of Porous Layer with Low Ni Content on NiTi Substrate by Dealloying in Metallic Melts. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016 , 63, 766-770	0.2	
200	Effects of Noble Metal Additons on Plastic Deformation of Zr-Cu-Ni-Al Based Bulk Metallic Glasses. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016 , 63, 230-238	0.2	1
199	Fracture and Fatigue Characteristics under Torsional Stressing in Zr-Based Bulk Metallic Glass. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016 , 63, 223-229	0.2	
198	Early science commissioning results of the sub-micron resolution X-ray spectroscopy beamline (SRX) in the field of materials science and engineering 2016 ,		14
197	Preparation of three-dimensional nanoporous Si using dealloying by metallic melt and application as a lithium-ion rechargeable battery negative electrode. <i>Journal of Power Sources</i> , 2016 , 306, 8-16	8.9	71
196	Three-dimensional bicontinuous porous graphite generated in low temperature metallic liquid. <i>Carbon</i> , 2016 , 96, 403-410	10.4	49
195	X-ray phase imaging using a Gd-based absorption grating fabricated by imprinting technique. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 048003	1.4	7
194	Evolution of a bicontinuous nanostructure via a solid-state interfacial dealloying reaction. <i>Scripta Materialia</i> , 2016 , 118, 33-36	5.6	29
193	Enhanced wear resistivity of a Zr-based bulk metallic glass processed by high-pressure torsion under reciprocating dry conditions. <i>Metals and Materials International</i> , 2016 , 22, 383-390	2.4	7
192	Selective growth of silver particles on the facets of synthetic diamond. <i>CrystEngComm</i> , 2016 , 18, 7430-7434	3.3	3
191	High aspect ratio grating by isochronal imprinting of less viscous workable Gd-based metallic glass for neutron phase imaging. <i>Intermetallics</i> , 2016 , 78, 55-63	3.5	9
190	Development and microstructure optimization of Mg-based metallic glass matrix composites with in situ B ₂ -NiTi dispersoids. <i>Materials and Design</i> , 2015 , 83, 238-248	8.1	30
189	Work-hardening induced tensile ductility of bulk metallic glasses via high-pressure torsion. <i>Scientific Reports</i> , 2015 , 5, 9660	4.9	64

188	Submicron-porous NiTi and NiTiNb shape memory alloys with high damping capacity fabricated by a new top-down process. <i>Materials & Design</i> , 2015 , 78, 74-79		20
187	Optimizing niobium dealloying with metallic melt to fabricate porous structure for electrolytic capacitors. <i>Acta Materialia</i> , 2015 , 84, 497-505	8.4	53
186	The effect of size and volume fraction of the reinforcement on mechanical property and deformation mechanism of the bulk metallic glassy composite. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 25-29	5.7	3
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161	Surface-activated supercooled liquid brazing. <i>Scripta Materialia</i> , 2013 , 68, 699-702	5.6 2
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49	Heat of evolution and structural analysis on the non-Newtonian viscous flow of Pd ₄₀ Ni ₄₀ P ₂₀ glassy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 444-448	5.3	9
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47	Effects of a small amount of Si or Ge addition on stability and hydrogen-induced internal friction of Ti ₃₄ Zr ₁₁ Cu ₄₇ Ni ₈ glassy alloys. <i>Acta Materialia</i> , 2004 , 52, 1799-1806	8.4	18
46	Finite element analysis of compressive deformation of bulk metallic glasses. <i>Acta Materialia</i> , 2004 , 52, 3813-3823	8.4	21
45	High-strength binary Ti-Fe bulk alloys with enhanced ductility. <i>Journal of Materials Research</i> , 2004 , 19, 3600-3606	2.5	79

44	Influences of hydrostatic pressure during casting and Pd content on as-cast phase in Zr-Al-Ni-Cu-Pd bulk alloys. <i>Applied Physics Letters</i> , 2004 , 85, 2205-2207	3.4	20
43	Stability and hydrogen-induced internal friction of Ti-rich multicomponent glassy alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 116-120	5.7	11
42	High strength and ductile bulk TiNiCuNb alloy with submicron-size structure units obtained by arc-melting. <i>Journal of Alloys and Compounds</i> , 2004 , 375, 171-174	5.7	11
41	High strength and ductile binary TiBe composite alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 384, L1-L35.7	5.7	62
40	Hydrogen-induced internal friction of Zr-based bulk glassy alloys in a rod shape above 90 K. <i>Journal of Alloys and Compounds</i> , 2004 , 365, 221-227	5.7	16
39	Microforming of Bulk Metallic Glasses: Constitutive Modelling and Applications. <i>Materials Transactions</i> , 2004 , 45, 1228-1232	1.3	10
38	Influence of In-Situ Nanoprecipitation on Constant Load Deformation in the Glass Transition Region of a Cu ₆₀ Zr ₃₀ Ti ₁₀ Bulk Metallic Glass. <i>Materials Transactions</i> , 2004 , 45, 2383-2388	1.3	
37	Effect of H-ZrC Dispersoids and Nanoprecipitates on Mechanical Properties of CuZrTi Bulk Glasses. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2003 , 15-16, 161-166	0.2	3
36	In Situ Observation of Stress-Induced Structural Disorder and Fictive Stress in a Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ Glassy Alloy. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 6504-6507	1.4	5
35	Investigation of mechanical properties and devitrification of Cu-based bulk glass formers alloyed with noble metals. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 327-331	7.1	15
34	Cobalt-based bulk glassy alloy with ultrahigh strength and soft magnetic properties. <i>Nature Materials</i> , 2003 , 2, 661-3	27	446
33	Damping properties of hydrogen-absorbed rod metallic glasses. <i>Journal of Alloys and Compounds</i> , 2003 , 355, 37-41	5.7	15
32	Formation of 28 nm size pre-precipitates of cF96 phase in a Hf ₄₀ Al glassy alloy. <i>Journal of Alloys and Compounds</i> , 2003 , 359, 198-201	5.7	14
31	Determination of density and vacancy concentration in rapidly solidified FeAl ribbons. <i>Intermetallics</i> , 2003 , 11, 707-711	3.5	24
30	Strengthening Mechanism of Zr-Based Devitrified Amorphous Nanocomposites with Quasicrystalline Phases. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2003 , 15-16, 205-208	0.2	
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28	Heating and structural disordering effects of the nonlinear viscous flow in a Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ bulk metallic glass. <i>Applied Physics Letters</i> , 2003 , 83, 5401-5403	3.4	23
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17	Newtonian and non-Newtonian viscosity of supercooled liquid in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 674-678	5.3	84
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