

Dmitri V Louzguine-Luzgin

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#	Paper	IF	Citations
408	Rejuvenation of metallic glasses by non-affine thermal strain. <i>Nature</i> , 2015 , 524, 200-3	50.4	408
407	Rapid Degradation of Azo Dye by Fe-Based Metallic Glass Powder. <i>Advanced Functional Materials</i> , 2012 , 22, 2567-2570	15.6	214
406	Experimental and theoretical study of Ti ₂₀ Zr ₂₀ Hf ₂₀ Nb ₂₀ X ₂₀ (X=V or Cr) refractory high-entropy alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014 , 47, 131-138	4.1	157
405	Investigation of Ti-Fe-Co bulk alloys with high strength and enhanced ductility. <i>Acta Materialia</i> , 2005 , 53, 2009-2017	8.4	125
404	Formation and properties of Au-based nanograined metallic glasses. <i>Acta Materialia</i> , 2011 , 59, 6433-6448	4.4	119
403	Fabrication of porous Zr-Ti-Al-Ni bulk metallic glass by spark plasma sintering process. <i>Scripta Materialia</i> , 2006 , 55, 687-690	5.6	102
402	Excellent capability in degrading azo dyes by MgZn-based metallic glass powders. <i>Scientific Reports</i> , 2012 , 2, 418	4.9	99
401	Toughness, extrinsic effects and Poisson's ratio of bulk metallic glasses. <i>Acta Materialia</i> , 2012 , 60, 4800-4809	4.9	94
400	An assessment of binary metallic glasses: correlations between structure, glass forming ability and stability. <i>International Materials Reviews</i> , 2010 , 55, 218-256	16.1	90
399	Nearly full density Ni _{52.5} Nb ₁₀ Zr ₁₅ Ti ₁₅ Pt _{7.5} bulk metallic glass obtained by spark plasma sintering of gas atomized powders. <i>Applied Physics Letters</i> , 2007 , 90, 241902	3.4	87
398	Fabrication of Ni-free Ti-based bulk-metallic glassy alloy having potential for application as biomaterial, and investigation of its mechanical properties, corrosion, and crystallization behavior. <i>Journal of Materials Research</i> , 2007 , 22, 1346-1353	2.5	84
397	Crystallization behaviour of Al-based metallic glasses below and above the glass-transition temperature. <i>Journal of Non-Crystalline Solids</i> , 2002 , 311, 281-293	3.9	82
396	The ultrastable kinetic behavior of an Au-based nanoglass. <i>Acta Materialia</i> , 2014 , 79, 30-36	8.4	81
395	High-strength binary Ti-Fe bulk alloys with enhanced ductility. <i>Journal of Materials Research</i> , 2004 , 19, 3600-3606	2.5	79
394	Enhanced mechanical properties due to structural changes induced by devitrification in Fe ₇₀ B ₅ Si ₁₀ Nb bulk metallic glass. <i>Acta Materialia</i> , 2010 , 58, 6256-6266	8.4	78
393	Nano-devitrification of glassy alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 999-1014	1.3	72
392	Hybrid nanostructured aluminum alloy with super-high strength. <i>NPG Asia Materials</i> , 2015 , 7, e229-e229	10.3	70

391	Investigation of glass-forming ability, deformation and corrosion behavior of Ni-free Ti-based BMG alloys designed for application as dental implants. <i>Materials Science and Engineering C</i> , 2009 , 29, 322-327	8.3	65
390	High-strength Cu-based crystal-glassy composite with enhanced ductility. <i>Applied Physics Letters</i> , 2004 , 84, 1088-1089	3.4	65
389	Microstructure and mechanical behavior of metallic glass fiber-reinforced Al alloy matrix composites. <i>Scientific Reports</i> , 2016 , 6, 24384	4.9	62
388	High strength and ductile binary TiBe composite alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 384, L1-L3	5.7	62
387	Enhance the thermal stability and glass forming ability of Al-based metallic glass by Ca minor-alloying. <i>Intermetallics</i> , 2012 , 29, 35-40	3.5	61
386	Nanocrystallization of Cu(Zr or Hf)Ti metallic glasses. <i>Journal of Materials Research</i> , 2002 , 17, 2112-2120	2.5	60
385	Heating of metallic powders by microwaves: Experiment and theory. <i>Journal of Applied Physics</i> , 2008 , 104, 113505	2.5	59
384	Synthesis and magnetic properties of FePtB nanocomposite permanent magnets with low Pt concentrations. <i>Applied Physics Letters</i> , 2004 , 85, 4998-5000	3.4	59
383	Ultrahigh strength Al-based amorphous alloys containing Sc. <i>Journal of Materials Research</i> , 2004 , 19, 1539-1543	2.5	56
382	Structural and magnetic properties of (In _{1-x} Fe _x) ₂ O ₃ (0.0 ≤ x ≤ 0.25) system: Prepared by gel combustion method. <i>Applied Physics Letters</i> , 2007 , 91, 052504	3.4	55
381	Formation and Properties of Quasicrystals. <i>Annual Review of Materials Research</i> , 2008 , 38, 403-423	12.8	53
380	Electronegativity of the constituent rare-earth metals as a factor stabilizing the supercooled liquid region in Al-based metallic glasses. <i>Applied Physics Letters</i> , 2001 , 79, 3410-3412	3.4	53
379	A novel Ti-based nanoglass composite with submicron-nanometer-sized hierarchical structures to modulate osteoblast behaviors. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2568-2574	7.3	52
378	Stable flowing of localized shear bands in soft bulk metallic glasses. <i>Acta Materialia</i> , 2010 , 58, 904-909	8.4	52
377	Localized shear deformation and softening of bulk metallic glass: stress or temperature driven?. <i>Scientific Reports</i> , 2013 , 3, 2798	4.9	51
376	Evaluation of the thermal stability of a Cu ₆₀ Hf ₂₅ Ti ₁₅ metallic glass. <i>Applied Physics Letters</i> , 2002 , 81, 2561-2562	3.4	51
375	On cryothermal cycling as a method for inducing structural changes in metallic glasses. <i>NPG Asia Materials</i> , 2018 , 10, 137-145	10.3	50
374	Atomic structure of ZrCu glassy alloys and detection of deviations from ideal solution behavior with Al addition by x-ray diffraction using synchrotron light in transmission. <i>Applied Physics Letters</i> , 2009 , 94, 191912	3.4	50

373	Nanoparticles with icosahedral symmetry in Cu-based bulk glass former induced by Pd addition. <i>Scripta Materialia</i> , 2003 , 48, 1325-1329	5.6	50
372	Strong and light metal matrix composites with metallic glass particulate reinforcement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 325-330	5.3	49
371	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. <i>Nature Communications</i> , 2016 , 7, 13497	17.4	48
370	Synchrotron X-ray radiation diffraction studies of thermal expansion, free volume change and glass transition phenomenon in Cu-based glassy and nanocomposite alloys on heating. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 1639-1645	3.9	46
369	Comparison of the long-term thermal stability of various metallic glasses under continuous heating. <i>Scripta Materialia</i> , 2002 , 47, 887-891	5.6	46
368	Mechanical Properties and Deformation Behavior of Bulk Metallic Glasses. <i>Metals</i> , 2013 , 3, 1-22	2.3	45
367	Influence of minor Si addition on the glass-forming ability and mechanical properties of Pd40Ni40P20 alloy. <i>Acta Materialia</i> , 2009 , 57, 2775-2780	8.4	44
366	Influence of nanoprecipitation on strength of Cu60Zr30Ti10 glass containing H-ZrC particle reinforcements. <i>Scripta Materialia</i> , 2004 , 51, 577-581	5.6	44
365	Nanostructured Zr-Pd metallic glass thin film for biochemical applications. <i>Scientific Reports</i> , 2015 , 5, 7799	4.9	43
364	Role of Alloying Additions in Glass Formation and Properties of Bulk Metallic Glasses. <i>Materials</i> , 2010 , 3, 5320-5339	3.5	42
363	Variations in atomic structural features of a supercooled PdNiCuP glass forming liquid during in situ vitrification. <i>Acta Materialia</i> , 2011 , 59, 708-716	8.4	42
362	Structural investigation and mechanical properties of a representative of a new class of materials: nanograined metallic glasses. <i>Nanotechnology</i> , 2013 , 24, 045610	3.4	41
361	High-strength and ductile glassy-crystal NiCuZrTi composite exhibiting stress-induced martensitic transformation. <i>Philosophical Magazine</i> , 2009 , 89, 2887-2901	1.6	41
360	Structural and thermal investigations of a high-strength Cu-Zr-Ti-Co bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2003 , 83, 191-201	1	41
359	Large-size ultrahigh strength Ni-based bulk metallic glassy matrix composites with enhanced ductility fabricated by spark plasma sintering. <i>Applied Physics Letters</i> , 2008 , 92, 121907	3.4	40
358	High-strength hypereutectic TiBeCo bulk alloy with good ductility. <i>Philosophical Magazine Letters</i> , 2004 , 84, 359-364	1	40
357	Crystallization behavior of Ti50Ni25Cu25 amorphous alloy. <i>Journal of Materials Science</i> , 2000 , 35, 4159-4164	4.64	40
356	Nanoquasicrystalline phase produced by devitrification of HfPdNiAl metallic glass. <i>Applied Physics Letters</i> , 2000 , 76, 3424-3426	3.4	40

355	Elastic and viscoelastic properties of glassy, quasicrystalline and crystalline phases in Zr ₆₅ Cu ₅ Ni ₁₀ Al _{7.5} Pd _{12.5} alloys. <i>Acta Materialia</i> , 2011 , 59, 2797-2806	8.4	39
354	Propagation of shear bands in metallic glasses and transition from serrated to non-serrated plastic flow at low temperatures. <i>Acta Materialia</i> , 2010 , 58, 6736-6743	8.4	39
353	Quantitative Nanomechanical Investigation on Deformation of Poly(lactic acid). <i>Macromolecules</i> , 2012 , 45, 8770-8779	5.5	38
352	Effect of Fe on the glass-forming ability, structure and devitrification behavior of Zr ₄₀ Ti ₄₀ Al bulk glass-forming alloys. <i>Philosophical Magazine</i> , 2010 , 90, 1955-1968	1.6	38
351	Ni-based bulk glassy alloys with large supercooled liquid region exceeding 90K. <i>Intermetallics</i> , 2005 , 13, 1166-1171	3.5	37
350	Comparative study of the effect of cold rolling on the structure of Al _{100-RE} Ni ₁₀ Co (RE=rare-earth metals) amorphous and glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3903-3909	3.9	37
349	Bulk metallic glassy surface native oxide: Its atomic structure, growth rate and electrical properties. <i>Acta Materialia</i> , 2015 , 97, 282-290	8.4	36
348	Comparative analysis of glass-formation in binary, ternary, and multicomponent alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 103511	2.5	36
347	Preparation of Zr-based metallic glass nanowires and nanoparticles by selective etching. <i>Scripta Materialia</i> , 2007 , 57, 901-904	5.6	36
346	Nanocrystallization of Ti-Ni-Cu-Sn amorphous alloy. <i>Scripta Materialia</i> , 2000 , 43, 371-376	5.6	36
345	Strong influence of supercooled liquid on crystallization of the Al ₈₅ Ni ₅ Y ₄ Nd ₄ Co ₂ metallic glass. <i>Applied Physics Letters</i> , 2001 , 78, 3061-3063	3.4	35
344	Formation of a nanoquasicrystalline phase in Zr ₄₀ Ti ₄₀ Ni ₂₀ metallic glass. <i>Applied Physics Letters</i> , 2001 , 78, 1841-1843	3.4	35
343	Oxygen embrittlement in a Cu ₄₀ Hf ₆₀ Al bulk metallic glass. <i>Scripta Materialia</i> , 2009 , 61, 540-543	5.6	34
342	Microstructure and properties of ceramic particulate reinforced metallic glassy matrix composites fabricated by spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 77-81	3.1	34
341	Multicomponent metastable phase formed by crystallization of Ti ₄₀ Ni ₄₀ Sn ₂₀ Zr amorphous alloy. <i>Journal of Materials Research</i> , 1999 , 14, 4426-4430	2.5	34
340	Structural basis for supercooled liquid fragility established by synchrotron-radiation method and computer simulation. <i>Journal of Applied Physics</i> , 2011 , 110, 043519	2.5	33
339	Double-stage glass transition in a metallic glass. <i>Physical Review B</i> , 2010 , 81,	3.3	33
338	Atomic structure of Zr ₄₀ Ti ₄₀ Al and Zr ₄₀ Ni ₄₀ Al amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 471, 70-73	5.7	33

- 337 Investigation of Structure and Properties of the Al₇₀Ni₁₀Co₁₀Cu Metallic Glasses. *Journal of Materials Research*, **2002**, 17, 1014-1018 2.5 33
- 336 On room-temperature quasi-elastic mechanical behaviour of bulk metallic glasses. *Acta Materialia*, **2017**, 129, 343-351 8.4 32
- 335 Corrosion behaviour of porous Ni-free Ti-based bulk metallic glass produced by spark plasma sintering in Hanks' solution. *Intermetallics*, **2014**, 44, 55-59 3.5 32
- 334 Structure vs chemistry: friction and wear of Pt-based metallic surfaces. *ACS Applied Materials & Interfaces*, **2013**, 5, 11341-7 9.5 32
- 333 Glass-forming ability and thermoplastic formability of a Pd₄₀Ni₄₀Si₄P₁₆ glassy alloy. *Journal of Materials Science*, **2011**, 46, 2091-2096 4.3 31
- 332 Deformation and strain rate sensitivity of a Zr₄₀Ti₁₀Be₁₀Al metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 3506-3512 5.3 31
- 331 Structure and transformation behaviour of a rapidly solidified Al₇₀Ni₁₀Co₁₀Pd alloy. *Journal of Alloys and Compounds*, **2005**, 399, 78-85 5.7 31
- 330 Influence of a supercooled liquid on crystallization behaviour of Al₇₀Ni₁₀Co metallic glass. *Materials Letters*, **2002**, 54, 75-80 3.3 31
- 329 Vitrification and devitrification processes in metallic glasses. *Journal of Alloys and Compounds*, **2014**, 586, S2-S8 5.7 30
- 328 Improved mechanical properties of bulk glassy alloys containing spherical pores. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 471, 144-150 5.3 30
- 327 Devitrification behavior and glass-forming ability of Cu₄₀Zr₄₀Ag alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 465, 146-152 5.3 30
- 326 Intrinsic and Extrinsic Factors Influencing the Glass-Forming Ability of Alloys. *Advanced Engineering Materials*, **2008**, 10, 1008-1015 3.5 30
- 325 New type of 1-FePt/Fe₂B exchange-coupled spring magnet obtained from Fe_{56.25}Pt_{18.75}B₂₅ amorphous alloy. *Scripta Materialia*, **2006**, 54, 431-435 5.6 30
- 324 Reduced electronegativity difference as a factor leading to the formation of Al-based glassy alloys with a large supercooled liquid region of 50K. *Applied Physics Letters*, **2006**, 88, 011911 3.4 30
- 323 Evidence of the existence of two deformation stages in bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2014**, 396-397, 20-24 3.9 29
- 322 Deformation-induced transformations in Ti₆₀Fe₂₀Co₂₀ alloy. *Scripta Materialia*, **2007**, 57, 445-448 5.6 29
- 321 Nucleation and thermal stability of an icosahedral nanophase during the early crystallization stage in Zr-Co-Cu-Al metallic glasses. *Acta Materialia*, **2017**, 132, 298-306 8.4 28
- 320 New beta-type Ti-Fe-Sn-Nb alloys with superior mechanical strength. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 705, 348-351 5.3 28

319	Bulk Metallic Glasses: Formation, Structure, Properties, and Applications. <i>Handbook of Magnetic Materials</i> , 2013 , 21, 131-171	1.3	28
318	In situ visualization of NiNb bulk metallic glasses phase transition. <i>Acta Materialia</i> , 2013 , 61, 5216-5222	8.4	28
317	Effect of surface oxidation on the nm-scale wear behavior of a metallic glass. <i>Journal of Applied Physics</i> , 2011 , 109, 083515	2.5	28
316	Ni-Rich Ni-Pd-P Glassy Alloy with High Strength and Good Ductility. <i>Materials Transactions</i> , 2006 , 47, 175-178	1.3	28
315	A nanoglass alloying immiscible Fe and Cu at the nanoscale. <i>Nanoscale</i> , 2015 , 7, 6607-11	7.7	27
314	Crystallization behavior of Fe- and Co-based bulk metallic glasses and their glass-forming ability. <i>Materials Chemistry and Physics</i> , 2015 , 162, 197-206	4.4	27
313	Effect of iron content on the structure and mechanical properties of Al ₂₅ Ti ₂₅ Ni ₂₅ Cu ₂₅ and (AlTi) _{60-x} Ni ₂₀ Cu ₂₀ Fe _x (x=15, 20) high-entropy alloys. <i>Applied Surface Science</i> , 2015 , 358, 549-555	6.7	27
312	Flux-induced structural modification and phase transformations in a Pd ₄₀ Ni ₄₀ Si ₄ P ₁₆ bulk-glassy alloy. <i>Acta Materialia</i> , 2010 , 58, 5886-5897	8.4	27
311	Investigation of high strength metastable hypereutectic ternary TiBeCo and quaternary TiBeCo(V, Sn) alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 32-35	5.7	27
310	Deformation behavior of high strength metastable hypereutectic TiBeCo alloys. <i>Intermetallics</i> , 2007 , 15, 181-186	3.5	27
309	Nanocrystallization of Cu ₅₀ Zr ₄₅ Ti ₅ Metallic Glass Induced by Electron Irradiation. <i>Materials Transactions</i> , 2006 , 47, 1930-1933	1.3	27
308	Gold as an alloying element promoting formation of a nanicosahedral phase in a Cu-based alloy. <i>Journal of Alloys and Compounds</i> , 2003 , 361, 153-156	5.7	27
307	Full or partial replacement of Y by rare-earth and some other elements in the Al ₈₅ Y ₈ Ni ₅ Co ₂ alloy. <i>Journal of Light Metals</i> , 2001 , 1, 105-109		27
306	Improved thermal stability and ductility of flux-treated Pd ₄₀ Ni ₄₀ Si ₄ P ₁₆ BMG. <i>Scripta Materialia</i> , 2010 , 62, 17-20	5.6	26
305	An extended criterion for estimation of glass-forming ability of metals. <i>Journal of Materials Research</i> , 2007 , 22, 1378-1383	2.5	26
304	High-strength and ductile (TiNi)-(CuZr) crystalline/amorphous composite materials with superelasticity and TRIP effect. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 402-407	5.7	25
303	Structure and nano-mechanical characteristics of surface oxide layers on a metallic glass. <i>Nanotechnology</i> , 2011 , 22, 095704	3.4	25
302	Dual phase metallic glassy composites with large-size and ultra-high strength fabricated by spark plasma sintering. <i>Intermetallics</i> , 2009 , 17, 512-516	3.5	25

301	Glass-forming ability and differences in the crystallization behavior of ribbons and rods of Cu ₃₆ Zr ₄₈ Al ₈ Ag ₈ bulk glass-forming alloy. <i>Journal of Materials Research</i> , 2009 , 24, 1886-1895	2.5	25
300	Influence of minor aluminum concentration changes in zirconium-based bulk metallic glasses on the elastic, anelastic, and plastic properties. <i>Acta Materialia</i> , 2010 , 58, 2004-2013	8.4	25
299	Formation, Structure, and Crystallization Behavior of Cu-Based Bulk Glass-Forming Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1664-1669	2.3	25
298	Formation ranges of icosahedral, amorphous and crystalline phases in rapidly solidified Ti ₄₀ Zr ₄₀ Ni ₂₀ alloys. <i>Acta Materialia</i> , 2005 , 53, 759-764	8.4	25
297	Crystal growth limitation as a critical factor for formation of Fe-based bulk metallic glasses. <i>Acta Materialia</i> , 2015 , 82, 396-402	8.4	24
296	Exceptionally high nanoscale wear resistance of a Cu ₄₇ Zr ₄₅ Al ₈ metallic glass with native and artificially grown oxide. <i>Intermetallics</i> , 2018 , 93, 312-317	3.5	24
295	On the atomic structure of Zr ₅₀ Ni and Zr ₅₀ Ni ₁₀ Al metallic glasses. <i>Journal of Applied Physics</i> , 2010 , 108, 023514	2.5	24
294	Microstructure and mechanical properties of crystalline particulates dispersed Ni-based metallic glassy composites fabricated by spark plasma sintering. <i>Intermetallics</i> , 2010 , 18, 851-858	3.5	24
293	Glass-transition behavior of Ni: Calculation, prediction, and experiment. <i>Journal of Applied Physics</i> , 2008 , 104, 123529	2.5	24
292	Effect of Ni on stabilization of the supercooled liquid and devitrification of Cu ₄₇ Zr ₄₅ Ni bulk glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2003 , 325, 187-192	3.9	24
291	Microwave-induced heating and sintering of metallic glasses. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 78-81	5.7	23
290	New La-based glass/crystal ex situ composites with enhanced toughness. <i>Scripta Materialia</i> , 2010 , 62, 210-213	5.6	23
289	Free volume and elastic properties changes in Cu ₄₇ Zr ₄₅ NiPd bulk glassy alloy on heating. <i>Journal of Alloys and Compounds</i> , 2007 , 431, 136-140	5.7	23
288	Devitrification behaviour of Cu-Zr-Ti-Pd bulk glassy alloys. <i>Philosophical Magazine</i> , 2003 , 83, 2989-3003	1.6	23
287	Effect of high-order multicomponent on formation and properties of Zr-based bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 197-203	5.7	22
286	Fe-based soft magnetic amorphous alloys with high saturation magnetization above 1.5 T and high corrosion resistance. <i>Intermetallics</i> , 2014 , 54, 169-175	3.5	22
285	A new class of non-crystalline materials: Nanogranular metallic glasses. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 371-378	5.7	22
284	Plastic deformation studies of Zr-based bulk metallic glassy samples with a low aspect ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 288-296	5.3	22

283	Ti-based nanostructured low-alloy with high strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 82-86	5.3	22
282	In situ phase separation and flow behavior in the glass transition region. <i>Intermetallics</i> , 2010 , 18, 1235-1239	3.9	22
281	Tensile deformation behaviour of Zr-based glassy alloys. <i>Philosophical Magazine Letters</i> , 2010 , 90, 139-148	5.7	22
280	Real-space structural studies of Cu ₅₀ Zr ₄₅ Ti ₅ glassy alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 106-110	5.7	22
279	Fabrication of ZrCuAlNi Metallic Glassy Matrix Composite Containing ZrO ₂ Particles by Spark Plasma Sintering Process. <i>Materials Transactions</i> , 2007 , 48, 158-162	1.3	22
278	Role of different factors in the glass-forming ability of binary alloys. <i>Journal of Materials Science</i> , 2015 , 50, 1783-1793	4.3	21
277	Hydrogen sorption properties of nanostructured bulk Mg ₂ Ni intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S400-S404	5.7	21
276	Phase transformations in Zr-based bulk metallic glass cyclically loaded before plastic yielding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 358-362	5.3	21
275	He ion irradiation induced nanocrystallization in Cu ₅₀ Zr ₄₅ Ti ₅ glassy alloy. <i>Surface and Coatings Technology</i> , 2011 , 206, 829-833	4.4	21
274	On the anelasticity and strain induced structural changes in a Zr-based bulk metallic glass. <i>Applied Physics Letters</i> , 2011 , 99, 171907	3.4	21
273	Influence of cooling rate on the structure and properties of a Cu ₅₀ Zr ₄₅ Ti ₅ Ag glassy alloy. <i>Journal of Materials Research</i> , 2008 , 23, 515-522	2.5	21
272	Thermal expansion of a glassy alloy studied using a real-space pair distribution function. <i>Applied Physics Letters</i> , 2006 , 88, 121926	3.4	21
271	Hydrogen absorption in Ti ₅₀ Zr ₄₅ Ni ₅ Cu amorphous alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 338, 97-100	5.3	21
270	Mischmetal as an alloying addition to amorphous materials and glass formers. <i>Journal of Non-Crystalline Solids</i> , 2003 , 316, 255-260	3.9	21
269	Multistage devitrification of Mg-Ni-Mm and g-Ni-Y-Mm metallic glasses (Mm = misch metal). <i>Philosophical Magazine</i> , 2003 , 83, 203-216	1.6	21
268	A study of the nanoscale and atomic-scale wear resistance of metallic glasses. <i>Materials Letters</i> , 2016 , 185, 54-58	3.3	20
267	SiC dispersed Fe-based glassy composite cores produced by spark plasma sintering and their high frequency magnetic properties. <i>Intermetallics</i> , 2012 , 20, 76-81	3.5	20
266	On the deformation and fracture behaviour of a Zr-based glassy alloy. <i>Philosophical Magazine</i> , 2008 , 88, 2979-2987	1.6	20

265	Structure and properties of high strength and ductile TiBeCuNbSn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 126-131	5.3	20
264	Revealing Structural Changes at Glass Transition via Radial Distribution Functions. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3186-3194	3.4	19
263	Glass formability and the AlAu system. <i>Philosophical Magazine</i> , 2012 , 92, 655-665	1.6	19
262	Effect of Ag addition on local structure of CuZr glassy alloy. <i>Journal of Materials Research</i> , 2009 , 24, 274-278	2.5	19
261	Structure and crystallization kinetics of a Cu ₅₀ Zr ₄₅ Ti ₅ glassy alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 24-27	5.7	19
260	Low-temperature plasticity anomaly in the bulk metallic glass Zr _{64.13} Cu _{15.75} Ni _{10.12} Al ₁₀ . <i>Low Temperature Physics</i> , 2008 , 34, 675-677	0.7	19
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258	Structural investigation of NiNbTiZrCoCu glassy samples prepared by different welding techniques. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 88-91	3.1	19
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