

Dmitri V Louzguine-Luzgin

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.

408
papers

8,433
citations

43
h-index

66
g-index

418
ext. papers

9,188
ext. citations

4
avg, IF

6.24
L-index

#	Paper	IF	Citations
408	Structure Evolution and Residual Elastic Stresses in a Ti-Ni-Cu-Co Glassy/Crystalline Phase Alloy. <i>Jom</i> , 2022 , 74, 1200	2.1	
407	On Structural Rearrangements during the Vitrification of Molten Copper.. <i>Materials</i> , 2022 , 15,	3.5	3
406	Low-temperature relaxation behavior of a bulk metallic glass leading to improvement of both strength and plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 839, 142841	5.3	0
405	EXAFS-spectroscopy and thermal neutron diffraction study of the effect of deformation by high pressure torsion on the atomic ordering and magnetic properties of the FeCo alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 159021	5.7	1
404	Deformation of Al85Y8Ni5Co2 Metallic Glasses under Cyclic Mechanical Load and Uniform Heating. <i>Metals</i> , 2021 , 11, 908	2.3	2
403	Shear-induced chemical segregation in a Fe-based bulk metallic glass at room temperature. <i>Scientific Reports</i> , 2021 , 11, 13650	4.9	2
402	Thermo-mechanical processing of a Zr62.5Cu22.5Fe5Al10 glassy alloy as a way to obtain tensile ductility. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157138	5.7	5
401	High-Strength Titanium-Based Alloy for Low-Temperature Superplastic Forming. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 293-302	2.3	3
400	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
399	Bulk Metallic Glasses 2021 , 919-936		1
398	Cryogenic cycling-induced changes in a Fe-based bulk metallic glass on the nanoscale surface layer. <i>Materials Letters</i> , 2021 , 285, 129114	3.3	
397	Crystallization of Ti-Ni-Cu-(Cr, Fe, Mn) metallic glasses. <i>Journal of Alloys and Compounds</i> , 2021 , 876, 160185	3.5	1
396	The Study of Structural Changes in Homogenized High-Entropy Alloys. <i>Physical Mesomechanics</i> , 2021 , 24, 663-673	1.6	
395	A Cu-Y-Al glassy alloy with strong beta relaxation and low activation energies for structural relaxation and crystallization. <i>Thermochimica Acta</i> , 2020 , 693, 178762	2.9	3
394	An atomistic study of the structural changes in a ZrCuNiAl glass-forming liquid on vitrification monitored in-situ by X-ray diffraction and molecular dynamics simulation. <i>Intermetallics</i> , 2020 , 122, 106735	2.5	4
393	Revealing Structural Changes at Glass Transition via Radial Distribution Functions. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3186-3194	3.4	19
392	Effect of manganese addition on thermal and electrical properties of Zr45Cu45Al10 metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 542, 120103	3.9	

391	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
390	Excellent magnetic properties of (Fe _{0.7} Co _{0.3}) ₈₃ Si ₄ B ₈ P _{3.6} Cu _{0.7} ribbons and microwires. <i>Intermetallics</i> , 2020 , 117, 106660	3.5	7
389	Achieving super-high strength in an aluminum based composite by reinforcing metallic glassy flakes. <i>Materials Letters</i> , 2020 , 262, 127059	3.3	7
388	Novel BCC-type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. <i>Metals</i> , 2020 , 10, 34	2.3	1
387	Crystallization of FCC and BCC Liquid Metals Studied by Molecular Dynamics Simulation. <i>Metals</i> , 2020 , 10, 1532	2.3	10
386	Effect of Aluminum, Iron and Chromium Alloying on the Structure and Mechanical Properties of (Ti-Ni)-(Cu-Zr) Crystalline/Amorphous Composite Materials. <i>Metals</i> , 2020 , 10, 874	2.3	5
385	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. <i>Metals</i> , 2020 , 10, 867	2.3	5
384	Quantitative characteristics of shear bands formed upon deformation in bulk amorphous Zr-based alloy. <i>Materials Letters</i> , 2020 , 281, 128659	3.3	3
383	Significant Mechanical Softening of an Al-Y-Ni-Co Metallic Glass on Cold and Hot Rolling. <i>Jom</i> , 2019 , 71, 4079-4085	2.1	4
382	High-resolution transmission electron microscopy investigation of diffusion in metallic glass multilayer films. <i>Materials Today Advances</i> , 2019 , 1, 100004	7.4	9
381	Novel electrical transport properties of native Fe-Nb oxide layers leading to unilateral conductivity of a refractory metallic glass. <i>Heliyon</i> , 2019 , 5, e01424	3.6	3
380	Investigation of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk amorphous alloy crystallization. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 477-482	5.7	5
379	Phase separation process preventing thermal embrittlement of a Zr-Cu-Fe-Al bulk metallic glass. <i>Scripta Materialia</i> , 2019 , 167, 31-36	5.6	18
378	Effect of Nb Addition on Microstructure and Thermal and Mechanical Properties of Fe-Co-Ni-Cu-Cr Multiprincipal-Element (High-Entropy) Alloys in As-Cast and Heat-Treated State. <i>Jom</i> , 2019 , 71, 3481-3489	2.1	11
377	Effect of high-pressure torsion on the tendency to plastic flow in bulk amorphous alloys based on Zr. <i>Materials Letters</i> , 2019 , 256, 126631	3.3	8
376	Observation of phase suppression effect in soft-magnetic FeCo-(3B) %V alloys under high pressure torsion. <i>Intermetallics</i> , 2019 , 115, 106615	3.5	1
375	Vitrification and nanocrystallization of pure liquid Ni studied using molecular-dynamics simulation. <i>Journal of Chemical Physics</i> , 2019 , 151, 124502	3.9	10
374	On Long-Term Stability of Metallic Glasses. <i>Metals</i> , 2019 , 9, 1076	2.3	6

373	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
372	Influence of cyclic loading on the structure and double-stage structure relaxation behavior of a Zr-Cu-Fe-Al metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 526-531	5.3	11
371	On Temperature Rise Within the Shear Bands in Bulk Metallic Glasses. <i>Metals and Materials International</i> , 2018 , 24, 481-488	2.4	5
370	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
369	Unusual crystallization of Al 85 Y 8 Ni 5 Co 2 metallic glass observed in situ in TEM at different heating rates. <i>Intermetallics</i> , 2018 , 94, 192-199	3.5	9
368	Effect of Multiple Alloying Elements on the Glass-Forming Ability, Thermal Stability, and Crystallization Behavior of Zr-Based Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 644-651	2.3	4
367	Surface structure and properties of metallic glasses. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 512-513	3.7	13
366	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
365	Local chemical ordering within the incubation period as a trigger for nanocrystallization of a highly supercooled Ti-based liquid. <i>Materials and Design</i> , 2018 , 156, 504-513	8.1	14
364	Investigation of the Structure and Properties of the Fe-Ni-Co-Cu-V Multiprincipal Element Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5646-5652	2.3	6
363	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
362	Metallic Glasses and Their Composites. <i>Materials Research Foundations</i> , 2018 ,	1.3	2
361	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
360	High-Strength Ti-Based Alloys Containing Fe as One of the Main Alloying Elements. <i>Materials Transactions</i> , 2018 , 59, 1537-1544	1.3	13
359	Structure and Thermal Properties of an Al-Based Metallic Glass-Polymer Composite. <i>Metals</i> , 2018 , 8, 1037	2.3	5
358	Influence of Annealing at Various Temperatures on the Structure and Hardness of Amorphous Ribbons of the Al ₈₅ Y ₈ Ni ₅ Co ₂ Alloy. <i>Russian Journal of Non-Ferrous Metals</i> , 2018 , 59, 520-526	0.8	1
357	Wave nature of conduction electrons in amorphous CoSc and FeSc alloys. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 455701	1.8	5
356	Formation of nanostructured metallic glass thin films upon sputtering. <i>Heliyon</i> , 2017 , 3, e00228	3.6	15

355	On room-temperature quasi-elastic mechanical behaviour of bulk metallic glasses. <i>Acta Materialia</i> , 2017 , 129, 343-351	8.4	32
354	Nucleation and thermal stability of an icosahedral nanophase during the early crystallization stage in Zr-Co-Cu-Al metallic glasses. <i>Acta Materialia</i> , 2017 , 132, 298-306	8.4	28
353	Ti-Fe-Sn-Nb hypoeutectic alloys with superb yield strength and significant strain-hardening. <i>Scripta Materialia</i> , 2017 , 135, 59-62	5.6	10
352	Properties of bulk metallic glasses. <i>Russian Journal of Non-Ferrous Metals</i> , 2017 , 58, 80-92	0.8	13
351	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
350	Effect of mechanical activation on compactibility of metal hydride materials. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 214-219	5.7	12
349	Predictive modeling of glass forming ability in the Fe-Nb-B system using the CALPHAD approach. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 120-125	5.7	6
348	Investigation of structure and thermal properties in composite materials based on metallic glasses with small addition of polytetrafluoroethylene. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 264-268	5.7	7
347	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
346	New beta-type Ti-Fe-Sn-Nb alloys with superior mechanical strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 705, 348-351	5.3	28
345	On nanovoids formation in shear bands of an amorphous Al-based alloy. <i>Mechanics of Materials</i> , 2017 , 113, 19-23	3.3	16
344	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
343	Transparent magnetic semiconductor with embedded metallic glass nano-granules. <i>Materials and Design</i> , 2017 , 132, 208-214	8.1	12
342	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. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 269-274	5.7	6
341	A new class of non-crystalline materials: Nanogranular metallic glasses. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 371-378	5.7	22
340	Microstructure, mechanical properties, and crystallization behavior of Zr-based bulk metallic glasses prepared under a low vacuum. <i>Journal of Alloys and Compounds</i> , 2016 , 654, 87-94	5.7	17
339	A study of the nanoscale and atomic-scale wear resistance of metallic glasses. <i>Materials Letters</i> , 2016 , 185, 54-58	3.3	20
338	On limitations of the viscosity versus temperature plot for glass-forming substances. <i>Materials Letters</i> , 2016 , 182, 355-358	3.3	3

337	Novel bioactive Fe-based metallic glasses with excellent apatite-forming ability. <i>Materials Science and Engineering C</i> , 2016 , 69, 513-21	8.3	18
336	Microstructure and mechanical behavior of metallic glass fiber-reinforced Al alloy matrix composites. <i>Scientific Reports</i> , 2016 , 6, 24384	4.9	62
335	Ti-Ag-Pd alloy with good mechanical properties and high potential for biological applications. <i>Scientific Reports</i> , 2016 , 6, 25142	4.9	14
334	Room-temperature dynamic quasi-elastic mechanical behavior of a ZrCuBeAl bulk metallic glass. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 450-456	1.6	6
333	Bulk metallic glasses: Fabrication, structure, and structural changes under heating. <i>Russian Journal of Non-Ferrous Metals</i> , 2016 , 57, 25-32	0.8	7
332	Huge reduction of Young's modulus near a shear band in metallic glass. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 221-226	5.7	16
331	Eutectic crystallization during fracture of ZrCuNiAl metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 210-214	5.3	10
330	Investigation of contact surfaces between polymer matrix and metallic glasses in composite materials based on high-density polyethylene. <i>Materials and Design</i> , 2016 , 92, 306-312	8.1	15
329	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
328	Bulk Metallic Glasses and Glassy/Crystalline Materials. <i>Springer Series in Materials Science</i> , 2016 , 397-440	0.9	4
327	Crystallization kinetics of MgCuNbCaAg metallic glasses. <i>Materials Characterization</i> , 2016 , 111, 75-80	3.9	11
326	Glass forming range of the Ti-Fe-Si amorphous alloys: An effective materials-design approach coupling CALPHAD and topological instability criterion. <i>Journal of Applied Physics</i> , 2016 , 120, 205106	2.5	8
325	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. <i>Nature Communications</i> , 2016 , 7, 13497	17.4	48
324	Compressive plasticity of a La-based glass-crystal composite at cryogenic temperatures. <i>Materials and Design</i> , 2016 , 101, 146-151	8.1	9
323	A nanoglass alloying immiscible Fe and Cu at the nanoscale. <i>Nanoscale</i> , 2015 , 7, 6607-11	7.7	27
322	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
321	Structural changes in liquid Fe and FeB alloy on cooling. <i>Journal of Molecular Liquids</i> , 2015 , 209, 233-238	6	9
320	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

319	Direct in situ observation of metallic glass deformation by real-time nano-scale indentation. <i>Scientific Reports</i> , 2015 , 5, 9122	4.9	10
318	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
317	Glass-transition process in an Au-based metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2015 , 419, 12-15	3.9	17
316	Nanostructured Zr-Pd metallic glass thin film for biochemical applications. <i>Scientific Reports</i> , 2015 , 5, 7799	4.9	43
315	Rejuvenation of metallic glasses by non-affine thermal strain. <i>Nature</i> , 2015 , 524, 200-3	50.4	408
314	Difference in charge transport properties of Ni-Nb thin films with native and artificial oxide. <i>Journal of Applied Physics</i> , 2015 , 117, 125704	2.5	18
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	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
311	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
310	Glass-formation and deformation behavior of NiPdPB alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 619, 509-512	5.7	5
309	Syntheses and Fundamental Properties of Fe-rich Metastable Phase Alloys with Saturation Magnetization Exceeding 1.9 T. <i>Materials Research</i> , 2015 , 18, 127-135	1.5	0
308	Investigation of structure-mechanical properties relations of dual-axially forged Ti-based low-alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 632, 88-95	5.3	12
307	Hybrid nanostructured aluminum alloy with super-high strength. <i>NPG Asia Materials</i> , 2015 , 7, e229-e229	10.3	70
306	Thermoelectric properties of Au-based metallic glass at low temperatures. <i>JETP Letters</i> , 2015 , 101, 465-468		
305	Corrosion behaviour of porous Ni-free Ti-based bulk metallic glass produced by spark plasma sintering in Hanks' solution. <i>Intermetallics</i> , 2014 , 44, 55-59	3.5	32
304	Optically transparent magnetic and electrically conductive Fe ₁₀ Cr ₇₀ Zr ultra-thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 999-1004	1.6	8
303	Early stage crystallization kinetics in metallic glass-forming alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 216-219	5.7	13
302	Evidence of the existence of two deformation stages in bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2014 , 396-397, 20-24	3.9	29

301	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
300	Influence of cyclic loading on the onset of failure in a Zr-based bulk metallic glass. <i>Journal of Materials Science</i> , 2014 , 49, 6716-6721	4.3	11
299	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
298	Microstructural evolution and corrosion behavior of Al ₂₅ Ti ₂₅ Ga ₂₅ Be ₂₅ equi-molar composition alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 691-695	1.6	13
297	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
296	Tensile properties of a dual-axial forged TiBeCu alloy containing boron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 238-242	5.3	16
295	Dual-phase glassy/nanoscale icosahedral phase materials in Cu ₄₀ Zr ₄₀ Ti ₁₀ Pd ₁₀ system alloys. <i>Materials Characterization</i> , 2014 , 96, 6-12	3.9	4
294	The ultrastable kinetic behavior of an Au-based nanoglass. <i>Acta Materialia</i> , 2014 , 79, 30-36	8.4	81
293	Investigation and simulation of crystallization of bulk zirconium-based metallic glasses. <i>Russian Journal of Non-Ferrous Metals</i> , 2014 , 55, 31-36	0.8	4
292	Pure shear stress reversal on a Cu-based bulk metallic glass reveals a Bauschinger-type effect. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S75-S78	5.7	10
291	Vitrification and devitrification processes in metallic glasses. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S2-S8	5.7	30
290	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
289	A structural model for surface-enhanced stabilization in some metallic glass formers. <i>Philosophical Magazine Letters</i> , 2013 , 93, 50-57	1	5
288	Internal friction in a NiTi-based glassy-crystal alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 633-637	5.7	9
287	Localized shear deformation and softening of bulk metallic glass: stress or temperature driven?. <i>Scientific Reports</i> , 2013 , 3, 2798	4.9	51
286	Structure and mechanical properties of Ni-Cu-Ti-Zr composite materials with amorphous phase. <i>Physics of Metals and Metallography</i> , 2013 , 114, 773-778	1.2	10
285	Comparative analysis of the structure of palladium-based bulk metallic glasses prepared by treatment of melts with flux. <i>Physics of the Solid State</i> , 2013 , 55, 1985-1990	0.8	5
284	Viscous flow of Cu ₅₅ Zr ₃₀ Ti ₁₀ Co ₅ bulk metallic glass in glass-transition and semi-solid regions. <i>Scripta Materialia</i> , 2013 , 68, 219-222	5.6	8

283	Investigation of transparent magnetic material formed by selective oxidation of a metallic glass. <i>Thin Solid Films</i> , 2013 , 531, 471-475	2.2	10
282	On deformation behavior of a Ni-based bulk metallic glass produced by flux treatment. <i>Journal of Alloys and Compounds</i> , 2013 , 561, 241-246	5.7	13
281	Investigation of the structure and mechanical properties of as-cast Ti-Cu-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 175-182	5.3	11
280	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
279	Crystallization and vitrification of a PdCuNiP metallic glass upon thermal and mechanical processes detected by synchrotron light X-ray radiation 2013 ,		2
278	Ductile Biodegradable Mg-Based Metallic Glasses with Excellent Biocompatibility. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	12
277	Bulk Metallic Glasses: Formation, Structure, Properties, and Applications. <i>Handbook of Magnetic Materials</i> , 2013 , 21, 131-171	1.3	28
276	In situ visualization of NiNb bulk metallic glasses phase transition. <i>Acta Materialia</i> , 2013 , 61, 5216-5222	8.4	28
275	Pd40Ni40Si5P15 bulk metallic glass properties variation as a function of sample thickness. <i>Intermetallics</i> , 2013 , 33, 67-72	3.5	13
274	Structure vs chemistry: friction and wear of Pt-based metallic surfaces. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11341-7	9.5	32
273	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
272	Development of Functional Metallic Glassy Materials by FIB and Nanoimprint Technologies. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2013 , 315-340	0.3	
271	A representative of a new class of materials: Nanograined metallic glasses showing unique properties 2013 ,		3
270	Response to 'Comment on 'Comparative analysis of glass-formation in binary, ternary, and multicomponent alloys'' [J. Appl. Phys. 114, 166101 (2013)]. <i>Journal of Applied Physics</i> , 2013 , 114, 166102 ²⁻⁵		
269	Mechanical Properties and Deformation Behavior of Bulk Metallic Glasses. <i>Metals</i> , 2013 , 3, 1-22	2.3	45
268	Large Compressive Plasticity in a La-Based Glass-Crystal Composite. <i>Metals</i> , 2013 , 3, 41-48	2.3	13
267	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
266	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

265	Microstructure of selectively heated (hot spot) region in Fe ₃ O ₄ powder compacts by microwave irradiation. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 419-424	6	15
264	Direct visualization of Ni-Nb bulk metallic glasses surface: From initial nucleation to full crystallization. <i>Applied Physics Letters</i> , 2012 , 101, 181601	3-4	9
263	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
262	Formation and investigation of the structure and mechanical properties of bulk metallic glassy composite (Ti ₂ Zr) _{1-x} (Cu _{1-x} Ni _x Co) alloys. <i>Intermetallics</i> , 2012 , 31, 173-176	3-5	8
261	Excellent capability in degrading azo dyes by MgZn-based metallic glass powders. <i>Scientific Reports</i> , 2012 , 2, 418	4-9	99
260	Nanocrystallization of Fe ₇₃ Si ₇ B ₁₇ Nb ₃ metallic glass induced by microwave treatment in magnetic field of a single mode 915MHz applicator. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S315-S318	5-7	6
259	Quantitative Nanomechanical Investigation on Deformation of Poly(lactic acid). <i>Macromolecules</i> , 2012 , 45, 8770-8779	5-5	38
258	Toughness, extrinsic effects and Poisson's ratio of bulk metallic glasses. <i>Acta Materialia</i> , 2012 , 60, 4800-4809	4-9	94
257	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
256	Atomic structure changes and phase transformation behavior in PdBi bulk glass-forming alloy. <i>Intermetallics</i> , 2012 , 20, 135-140	3-5	13
255	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
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