

Jozef Bednarcik

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.

184
papers

2,682
citations

28
h-index

41
g-index

193
ext. papers

3,083
ext. citations

3.7
avg, IF

5.03
L-index

#	Paper	IF	Citations
184	Structure-dynamics relationships in cryogenically deformed bulk metallic glass.. <i>Nature Communications</i> , 2022 , 13, 127	17.4	3
183	A role of atomic size misfit in lattice distortion and solid solution strengthening of TiNbHfTaZr high entropy alloy system. <i>Scripta Materialia</i> , 2022 , 210, 114470	5.6	2
182	The influence of CeO ₂ addition on microstructure and superconducting properties of GdBCO-Ag single grain bulk superconductors. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161697	5.7	0
181	Short-range order and atomic diffusion in liquid Ge and Si ₂₀ Ge ₈₀ investigated by neutron scattering and x-ray diffraction. <i>Physical Review B</i> , 2021 , 104,	3.3	2
180	Thermosensitive Drug Delivery System SBA-15-PEI for Controlled Release of Nonsteroidal Anti-Inflammatory Drug Diclofenac Sodium Salt: A Comparative Study. <i>Materials</i> , 2021 , 14,	3.5	5
179	Structural Evolution in Wet Mechanically Alloyed Co-Fe-(Ta,W)-B Alloys. <i>Metals</i> , 2021 , 11, 800	2.3	0
178	Synthesis, characterization and spectral properties of novel azo-azomethine-tetracarboxylic Schiff base ligand and its Co(II), Ni(II), Cu(II) and Pd(II) complexes. <i>Inorganica Chimica Acta</i> , 2021 , 515, 120064	2.7	7
177	Compositional complexity dependence of lattice distortion in FeNiCoCrMn high entropy alloy system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141775	5.3	5
176	Doxorubicin as cargo in a redox-responsive drug delivery system capped with water dispersible ZnS nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 15825-15835	3.7	6
175	In situ high-energy X-ray diffraction study of thermally-activated martensitic transformation far below room temperature in CuZr-based bulk metallic glass composites. <i>Journal of Alloys and Compounds</i> , 2020 , 841, 155781	5.7	9
174	Surface plasma treatment of the electrospun TiO ₂ /PVP composite fibers in different atmospheres. <i>Applied Surface Science</i> , 2020 , 523, 146381	6.7	8
173	High temperature superelasticity realized in equiatomic Ti-Ni conventional shape memory alloy by severe cold rolling. <i>Materials and Design</i> , 2020 , 193, 108875	8.1	6
172	Phase formation of a biocompatible Ti-based alloy under kinetic constraints studied via in-situ high-energy X-ray diffraction. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 432-436	3.6	4
171	Fast-current-heating devices to study in situ phase formation in metallic glasses by using high-energy synchrotron radiation. <i>Review of Scientific Instruments</i> , 2020 , 91, 073901	1.7	4
170	In situ XRD Study of Rapid Crystallization of Metallic Glasses Using Novel Experimental Setup for Flash-Annealing. <i>Acta Physica Polonica A</i> , 2020 , 137, 852-854	0.6	
169	Nanoparticles Coated by Porous SiO ₂ : Core@Shell Nanosystems for Biomedical Applications. <i>Acta Physica Polonica A</i> , 2020 , 137, 733-736	0.6	
168	Room temperature hydrocarbon generation in olivine powders: Effect of mechanical processing under CO ₂ atmosphere. <i>Powder Technology</i> , 2020 , 364, 915-923	5.2	5

167	Electronic structure based design of thin film metallic glasses with superior fracture toughness. <i>Materials and Design</i> , 2020 , 186, 108327	8.1	11
166	Soft magnetic amorphous alloys in X-ray light: Insights from ultra-fast Joule heating experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 499, 166282	2.8	1
165	Cytotoxicity study and influence of SBA-15 surface polarity and pH on adsorption and release properties of anticancer agent pemetrexed. <i>Materials Science and Engineering C</i> , 2020 , 109, 110552	8.3	12
164	Compositional complexity dependence of dislocation density and mechanical properties in high entropy alloy systems. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 545-551	3.6	15
163	A resistively-heated dynamic diamond anvil cell (RHdDAC) for fast compression x-ray diffraction experiments at high temperatures. <i>Review of Scientific Instruments</i> , 2020 , 91, 073906	1.7	7
162	Mesoporous Silica as a Drug Delivery System for Naproxen: Influence of Surface Functionalization. <i>Molecules</i> , 2020 , 25,	4.8	6
161	Guiding shear bands in bulk metallic glasses using stress fields: A perspective from the activation of flow units. <i>Physical Review B</i> , 2020 , 102,	3.3	4
160	Signature of local stress states in the deformation behavior of metallic glasses. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	13
159	Magnetic properties of iron clusters in Sc ₇₅ Fe ₂₅ nanoglass. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 494, 165819	2.8	5
158	FeO and GdO nanoparticles loaded in mesoporous silica: insights into influence of NPs concentration and silica dimensionality.. <i>RSC Advances</i> , 2019 , 9, 3679-3687	3.7	6
157	A mechanochemical route for the synthesis of VNbO and its structural re-investigation using structure solution from powder diffraction data. <i>Dalton Transactions</i> , 2019 , 48, 10986-10995	4.3	1
156	Modulating heterogeneity and plasticity in bulk metallic glasses: Role of interfaces on shear banding. <i>International Journal of Plasticity</i> , 2019 , 119, 156-170	7.6	52
155	A comparison study of dislocation density, recrystallization and grain growth among nickel, FeNiCo ternary alloy and FeNiCoCrMn high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 266-273	5.7	8
154	Amorphous versus Crystalline Li ₃ PS ₄ : Local Structural Changes during Synthesis and Li Ion Mobility. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10280-10290	3.8	33
153	Key Factor for the Transformation from hcp to 18R-Type Long-Period Stacking Ordered Structure in Mg Alloys. <i>Materials Transactions</i> , 2019 , 60, 237-245	1.3	5
152	⁵⁷ Fe-enriched perovskites M(Fe _{0.5} Nb _{0.5})O ₃ (M [Pb, Ba]) studied by Mössbauer spectroscopy, NMR and XRD in the wide temperature range 4.2B33 K. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 475, 334-344	2.8	13
151	The structure of near stoichiometric Ge-Ga-Sb-S glasses: A reverse Monte Carlo study. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 340-346	3.9	4
150	Insights into phase transitions and magnetism of MnBi crystals synthesized from self-flux. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 308-314	5.7	3

149	Anomalous behavior of thermal expansion of Fe impurities in the La(Fe,Co,Si) ₁₃ - based alloys modified by Mn or selected lanthanides (Ce, Pr, Ho). <i>Current Applied Physics</i> , 2019 , 19, 188-192	2.6	11
148	Structural evolution in a metallic glass pillar upon compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 8-13	5.3	2
147	Local-structure change rendered by electronic localization-delocalization transition in cerium-based metallic glasses. <i>Physical Review B</i> , 2018 , 97,	3.3	3
146	Structure and Hydrogenation Properties of a HfNbTiVZr High-Entropy Alloy. <i>Inorganic Chemistry</i> , 2018 , 57, 2103-2110	5.1	80
145	Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped Ca _{0.8} Sr _{0.2} Fe ₂ As ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	5
144	Structural, microstructural and magnetic evolution in cryo milled carbon doped MnAl. <i>Scientific Reports</i> , 2018 , 8, 2525	4.9	11
143	Thermal behavior, structural relaxation and magnetic study of a new Hf-microalloyed Co-based glassy alloy with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 553-560	5.7	6
142	Transparent polycrystalline nanoceramics consisting of triclinic Al ₂ SiO ₅ kyanite and Al ₂ O ₃ corundum. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 998-1003	3.8	5
141	Short range order of As _{40-x} Cu _x Te ₆₀ glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 202-207	3.9	
140	Comparison Study of Internal Stress Measured by Diffraction Mapping and Calculation Using FEM. <i>Key Engineering Materials</i> , 2018 , 784, 120-123	0.4	
139	Operando Studies of Antiperovskite Lithium Battery Cathode Material (Li ₂ Fe)SO. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6593-6599	6.1	9
138	Structural evolution on medium-range-order during the fragile-strong transition in Ge ₁₅ Te ₈₅ . <i>Acta Materialia</i> , 2017 , 129, 259-267	8.4	32
137	The effect of Sr(OH) on the hydrogen storage properties of the Mg(NH) ₂ LiH system. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8457-8464	3.6	13
136	Topology and electronic structure of flexible (Nb,Ru)O thermoelectrics. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 085701	1.8	1
135	Atomic origin for rejuvenation of a Zr-based metallic glass at cryogenic temperature. <i>Journal of Alloys and Compounds</i> , 2017 , 718, 254-259	5.7	16
134	Ultra-stiff metallic glasses through bond energy density design. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 265502	1.8	9
133	Synthesis, structures and thermal decomposition of ammine MBH complexes (M = Li, Na, Ca). <i>Dalton Transactions</i> , 2017 , 46, 7770-7781	4.3	8
132	Transparent polycrystalline cubic silicon nitride. <i>Scientific Reports</i> , 2017 , 7, 44755	4.9	36

131	Cryogenic-temperature-induced structural transformation of a metallic glass. <i>Materials Research Letters</i> , 2017 , 5, 284-291	7.4	22
130	Thermal expansion of Pd-based metallic glasses by ab initio methods and high energy X-ray diffraction. <i>Scientific Reports</i> , 2017 , 7, 15744	4.9	8
129	Thermal behavior and decomposition of cerium(III) butanoate, pentanoate and hexanoate salts upon heating in argon. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 126, 77-87	6	7
128	Large negative thermal expansion in the cubic phase of CaMn7O12. <i>Physical Review B</i> , 2017 , 95,	3.3	8
127	Synthesis of Al2O3/SiO2 nano-nano composite ceramics under high pressure and its inverse Hall-Petch behavior. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 323-332	3.8	9
126	Insights into formation and stability of β -MnAlZx (Z=C and B). <i>Journal of Alloys and Compounds</i> , 2017 , 692, 198-203	5.7	22
125	High-energy X-ray applications: current status and new opportunities. <i>Powder Diffraction</i> , 2017 , 32, S22-S27	5.27	10
124	Kinetic alteration of the 6Mg(NH)-9LiH-LiBH system by co-adding YCl and LiN. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32105-32115	3.6	8
123	In Situ X-ray Diffraction Studies on the De/rehydrogenation Processes of the K2[Zn(NH2)4]-8LiH System. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1546-1551	3.8	10
122	Influence of the critical Fe atomic volume on the magnetism of Fe-rich metallic glasses evidenced by pressure-dependent measurements. <i>Physical Review B</i> , 2016 , 93,	3.3	7
121	Structural evolution and strength change of a metallic glass at different temperatures. <i>Scientific Reports</i> , 2016 , 6, 30876	4.9	32
120	Revealing the relationships between chemistry, topology and stiffness of ultrastrong Co-based metallic glass thin films: A combinatorial approach. <i>Acta Materialia</i> , 2016 , 107, 213-219	8.4	22
119	On the structure of GeAsTeCu glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 433, 1-5	3.9	6
118	Atomic structure and thermal behavior of (Co0.65,Fe0.35)72Ta8B20 metallic glass with excellent soft magnetic properties. <i>Intermetallics</i> , 2016 , 69, 21-27	3.5	9
117	Mapping strain fields induced in Zr-based bulk metallic glasses during in-situ nanoindentation by X-ray nanodiffraction. <i>Applied Physics Letters</i> , 2016 , 108, 031907	3.4	9
116	57Fe75Mo8Cu1B16 metallic glass studied by CEMS, CXMS and HEXRD 2016 ,		1
115	Synchronized collapse and formation of long-period stacking and chemical orders in Mg85Zn6Y9. <i>Physica B: Condensed Matter</i> , 2015 , 461, 147-153	2.8	6
114	D03+hcp mixed phase with nanostructures in Mg85Zn6Y9 alloy obtained by high-pressure and high-temperature treatments. <i>Materials Letters</i> , 2015 , 155, 11-14	3.3	4

113	Combining high time and angular resolutions: time-resolved X-ray powder diffraction using a multi-channel analyser detector. <i>Journal of Applied Crystallography</i> , 2015 , 48, 970-974	3.8	10
112	The effect of low-temperature structural relaxation on free volume and chemical short-range ordering in a Au ₄₉ Cu _{26.9} Si _{16.3} Ag _{5.5} Pd _{2.3} bulk metallic glass. <i>Scripta Materialia</i> , 2015 , 103, 14-17	5.6	30
111	The Extreme Conditions Beamline P02.2 and the Extreme Conditions Science Infrastructure at PETRA III. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 908-24	2.4	93
110	Inhomogeneous thermal expansion of metallic glasses in atomic-scale studied by in-situ synchrotron X-ray diffraction. <i>Journal of Applied Physics</i> , 2015 , 117, 044902	2.5	8
109	Linking structure to fragility in bulk metallic glass-forming liquids. <i>Applied Physics Letters</i> , 2015 , 106, 181901	3.4	40
108	Temperature-Induced Short-Range Order Changes in Co ₆₇ B ₃₃ Glassy Thin Films and Elastic Limit Implications. <i>Materials Research Letters</i> , 2015 , 3, 82-87	7.4	5
107	Premartensite to martensite transition and its implications for the origin of modulation in Ni ₂ MnGa ferromagnetic shape-memory alloy. <i>Physical Review B</i> , 2015 , 92,	3.3	33
106	Influence of Nanoparticle Size on Strain at the Core-Shell Interface. <i>Key Engineering Materials</i> , 2015 , 662, 217-220	0.4	1
105	Strain Mapping of Indented Zr-Based Bulk Metallic Glass Using Nano-Diffraction. <i>Key Engineering Materials</i> , 2015 , 662, 51-54	0.4	
104	Influence of annealing on microstructure and magnetic properties of cobalt-based amorphous/nanocrystalline powders synthesized by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 296-302	5.7	11
103	Effect of Si additions on thermal stability and the phase transition sequence of sputtered amorphous alumina thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 025302	2.5	14
102	Fracture-induced amorphization of polycrystalline SiO ₂ stishovite: a potential platform for toughening in ceramics. <i>Scientific Reports</i> , 2014 , 4, 6558	4.9	18
101	Influence of ball milling on atomic structure and magnetic properties of Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy alloy. <i>Materials Characterization</i> , 2014 , 92, 96-105	3.9	3
100	FeCoSiBNbCu bulk metallic glass with large compressive deformability studied by time-resolved synchrotron X-ray diffraction. <i>Journal of Applied Physics</i> , 2014 , 115, 053520	2.5	13
99	Fine structure of phases of EFamily in Al _{73.8} Pd _{11.9} Co _{14.3} alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 73-79	5.7	10
98	Mechanism of nanostructure formation in ball-milled Cu and Cu _β wt%Zn studied by X-ray diffraction line profile analysis. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 138-143	5.7	5
97	In situ studies of temperature-dependent behaviour and crystallisation of Ni _{36.5} Pd _{36.5} P ₂₇ metallic glass. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S208-S212	5.7	13
96	Mechanosynthesis of the Fast Fluoride Ion Conductor Ba _{1-x} LaxF _{2+x} : From the Fluorite to the Tysonite Structure. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7117-7129	3.8	53

95	Thermal and soft magnetic properties of Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy particles: In-situ X-ray diffraction and magnetometry studies. <i>Journal of Applied Physics</i> , 2014 , 116, 054904	2.5	12
94	Short-Range Order in Ge ₂₅ As ₇₅ Glasses. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1625-1632	3.8	16
93	In situ monitoring of disorder-order A1 ₁₀ FePt phase transformation in nanocomposite FePt-based alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S188-S191	5.7	7
92	Local atomic structure and electrical properties of Ge ₂₀ Se _{80-x} Tex (x = 0, 5, 10, and 15) glasses doped with Ho. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 308-313	5.7	4
91	Atomic structure and magnetic properties of Fe ₈₀ Nb ₂₀ metallic glasses. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S189-S193	5.7	25
90	Correlation between atomic structure evolution and strength in a bulk metallic glass at cryogenic temperature. <i>Scientific Reports</i> , 2014 , 4, 3897	4.9	25
89	Investigation of Mixed Valence State of Sm _{{1-x}B_{6}} and Sm _{{1-x}La_{x}B_{6}} by XANES. <i>Acta Physica Polonica A</i> , 2014 , 126, 338-339	0.6	7
88	Effect of Annealing Time on Structure of Fe _{{72.5}Cu_{1}Nb_{2}Mo_{2}Si_{15.5}B_{7}} Alloy. <i>Acta Physica Polonica A</i> , 2014 , 126, 116-117	0.6	1
87	Effect of Al content on the order of phase transition and magnetic entropy change in LaFe ₁₁ Co _{0.8} (Si _{1-x} Al _x) _{1.2} alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 372, 201-207	2.8	24
86	The Structural Stability of Soft Magnetic Fe-Co-Zr-W-B Metallic Glasses Investigated by the in-situ X-ray Diffraction. <i>Acta Physica Polonica A</i> , 2014 , 126, 66-67	0.6	
85	Structure and Magnetic Properties of Three-Dimensional Gadolinium-Based Hybrid Framework. <i>Acta Physica Polonica A</i> , 2014 , 126, 308-309	0.6	5
84	Isobaric Thermal Expansion and Isothermal Compression of Powdered NiFe Based Alloys Studied by In-Situ EDXRD. <i>Acta Physica Polonica A</i> , 2014 , 126, 128-129	0.6	1
83	Fabrication and characterization of Co ₄₀ Fe ₂₂ Ta _{8-x} Y _x B ₃₀ (x = 0, 2.5, 4, 6, and 8) metallic glasses with high thermal stability and good soft magnetic properties. <i>Journal of Applied Physics</i> , 2014 , 116, 184904	2.5	4
82	Formation of less-known structurally complex B and orthorhombic quasicrystalline approximant B on solidification of selected AlPdCr alloys. <i>Materials Characterization</i> , 2014 , 97, 189-198	3.9	1
81	Local atomic and crystal structure rearrangement during the martensitic transformation in Ti ₅₀ Ni ₂₅ Cu ₂₅ shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 428-433	5.7	7
80	Evolution of phases in Al ₅₅ Ni ₃₀ Pd ₁₅ alloy at temperatures up to 600 °C. <i>Intermetallics</i> , 2014 , 46, 141-146	5.5	1
79	Magnetic nanocomposites of periodic mesoporous silica: The influence of the silica substrate dimensionality on the inter-particle magnetic interactions. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 483-490	5.7	35
78	Liquid-liquid transition in a strong bulk metallic glass-forming liquid. <i>Nature Communications</i> , 2013 , 4, 2083	17.4	136

77	In situ XRD studies of nanocrystallization of Fe-based metallic glass: a comparative study by reciprocal and direct space methods. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8470-9	3.6	31
76	Experimental and thermodynamic assessment of the Gd-Ti system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2013 , 42, 19-26	1.9	6
75	Trends in formation of the nanocrystalline structure and cationic ordering in the Dy ₂ O ₃ -HfO ₂ (1: 1) system. <i>Russian Journal of Inorganic Chemistry</i> , 2013 , 58, 331-337	1.5	10
74	Lattice instabilities in bulk EuTiO ₃ . <i>Physical Review B</i> , 2013 , 88,	3.3	24
73	Bonding and elastic properties of amorphous AlYB. <i>Solid State Communications</i> , 2013 , 169, 6-9	1.6	31
72	Characteristic features of the nanocrystalline structure formation in Ln ₂ Hf ₂ O ₇ (Ln = Gd, Dy) compounds. <i>Russian Journal of Inorganic Chemistry</i> , 2013 , 58, 1400-1407	1.5	19
71	On the formation of intermetallics in Fe-Al system - An in situ XRD study. <i>Intermetallics</i> , 2013 , 32, 127-136	3.5	61
70	Temperature dependence of the short-range order of Cu ₆₅ Zr ₃₅ metallic glass. <i>Intermetallics</i> , 2013 , 32, 51-56	3.5	22
69	In situ observation of the phase selection from the undercooled melt in Cu-Zr. <i>Journal of Alloys and Compounds</i> , 2013 , 576, 232-235	5.7	7
68	Local structure of metallic chips examined by X-ray microdiffraction. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 579-584	5.7	5
67	Enhanced strength and transformation-induced plasticity in rapidly solidified Zr-Co-Al alloys. <i>Scripta Materialia</i> , 2013 , 68, 897-900	5.6	29
66	DSC, XRD and TEM characterization of glassy Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ alloy with very high thermal stability. <i>Materials Letters</i> , 2013 , 93, 322-325	3.3	12
65	Structural behaviour of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ metallic glass under high pressure. <i>Intermetallics</i> , 2013 , 38, 9-13	3.5	11
64	Structural evolution in bulk metallic glass under high-temperature tension. <i>Applied Physics Letters</i> , 2013 , 102, 051909	3.4	5
63	Short range order and stability of amorphous Ge(x)Te(100-x) alloys (12 ≤ x ≤ 4.6). <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 195401	1.8	29
62	Local crystal structure of TiNiCu shape memory alloys. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012067	0.3	
61	Pressure dependence of magnetic properties in Fe-Mn-B amorphous alloys: evidence for inhomogeneous ferromagnetism. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 346002	1.8	3
60	Phase separation in ternary Co-Gd-Ti liquids. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 245104	1.8	3

59	Elastic and anelastic properties close to the Curie temperature of Fe-based bulk metallic glass. <i>Applied Physics Letters</i> , 2013 , 102, 041904	3.4	11
58	Synchrotron X-ray powder diffraction study on synthetic Sr-Fresnoite. <i>Powder Diffraction</i> , 2013 , 28, S333-S338	3.3	3
57	Highly textured Gd ₂ Zr ₂ O ₇ films grown on textured Ni-5at.%W substrates by solution deposition route: Growth, texture evolution, and microstructure dependency. <i>Thin Solid Films</i> , 2012 , 520, 1965-1972	2.2	19
56	Diamond synthesis through the generation of plasma during spark plasma sintering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2241-2246	1.6	9
55	Experimental and thermodynamic assessment of the Gd-Zr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012 , 39, 27-32	1.9	12
54	Undercooling behavior of Zr-Cu-Ni-Al bulk metallic glasses investigated by in situ synchrotron high energy X-ray diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 555, 36-43	5.3	7
53	Quantum mechanically guided design of Co ₄₃ Fe ₂₀ Ta _(5.5) X _(31.5) (X=B, Si, P, S) metallic glasses. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 175402	1.8	5
52	Identification of the Curie point in Fe-based metallic glasses using in situ hard x-ray diffraction. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 455302	3	6
51	Mapping the Strain Distributions in Deformed Bulk Metallic Glasses Using Hard X-Ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1558-1563	2.3	10
50	Correlation between elastic structural behavior and yield strength of metallic glasses. <i>Acta Materialia</i> , 2012 , 60, 3074-3083	8.4	42
49	Does an icosahedral short-range order prevail in glass-forming Zr-Cu melts?. <i>Europhysics Letters</i> , 2012 , 100, 56002	1.6	32
48	Ab initio molecular dynamics model for density, elastic properties and short range order of Co-Fe-Ta-B metallic glass thin films. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 475401	1.8	30
47	In situ investigation of SnAgCu solder alloy microstructure. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1550-1553	5.7	20
46	In situ tensile deformation of Fe-rich metallic glass at elevated temperatures using hard X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S92-S94	5.7	1
45	In situ structural investigation of amorphous and nanocrystalline Fe ₄₀ Co ₃₈ Mo ₄ B ₁₈ microwires. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3409-3412	5.7	13
44	Microscopic origin of demixing in Ge ₂₀ Se _x Te _{80-x} alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5190-5194	5.7	7
43	In-situ synchrotron x-ray study of the crystallization behavior of Ce _{0.9} La _{0.1} O _{2-x} thin films deposited on NiW alloy substrates by chemical solution method. <i>Materials Letters</i> , 2011 , 65, 2669-2672	3.3	8
42	In situ study on the formation of FeTe. <i>Journal of Materials Science</i> , 2011 , 46, 4540-4544	4.3	19

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