

Xiao-Dong Wang

List of Publications by Year in descending order

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153
papers

3,887
citations

126907

33
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155660

55
g-index

154
all docs

154
docs citations

154
times ranked

2491
citing authors

#	ARTICLE	IF	CITATIONS
1	Zr-(Cu,Ag)-Al bulk metallic glasses. <i>Acta Materialia</i> , 2008, 56, 1785-1796.	7.9	239
2	New Class of Plastic Bulk Metallic Glass. <i>Physical Review Letters</i> , 2008, 100, 075501.	7.8	182
3	Modification of eutectic Si in Al-Si alloys with Eu addition. <i>Acta Materialia</i> , 2015, 84, 153-163.	7.9	166
4	Effect of pre-existing shear bands on the tensile mechanical properties of a bulk metallic glass. <i>Acta Materialia</i> , 2010, 58, 1276-1292.	7.9	117
5	Negative expansions of interatomic distances in metallic melts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10068-10072.	7.1	115
6	La-based bulk metallic glasses with critical diameter up to 30mm. <i>Acta Materialia</i> , 2007, 55, 4409-4418.	7.9	112
7	Atomic structure of binary Cu _{64.5} Zr _{35.5} bulk metallic glass. <i>Applied Physics Letters</i> , 2008, 92, 011902.	3.3	97
8	Role of string-like collective atomic motion on diffusion and structural relaxation in glass forming Cu-Zr alloys. <i>Journal of Chemical Physics</i> , 2015, 142, 164506.	3.0	97
9	Shear band evolution and hardness change in cold-rolled bulk metallic glasses. <i>Acta Materialia</i> , 2010, 58, 4827-4840.	7.9	95
10	Atomic-level structural modifications induced by severe plastic shear deformation in bulk metallic glasses. <i>Scripta Materialia</i> , 2011, 64, 81-84.	5.2	95
11	73 mm-diameter bulk metallic glass rod by copper mould casting. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	84
12	Carbon-based flexible self-supporting cathode for lithium-sulfur batteries: Progress and perspective. , 2021, 3, 271-302.		77
13	Atomic packing in Fe-based metallic glasses. <i>Acta Materialia</i> , 2016, 102, 116-124.	7.9	76
14	Super elastic strain limit in metallic glass films. <i>Scientific Reports</i> , 2012, 2, 852.	3.3	68
15	Non-localized deformation in metallic alloys with amorphous structure. <i>Acta Materialia</i> , 2014, 68, 32-41.	7.9	62
16	A dual-phase alloy with ultrahigh strength-ductility synergy over a wide temperature range. <i>Science Advances</i> , 2021, 7, .	10.3	61
17	Phase Selection, Lattice Distortions, and Mechanical Properties in High-Entropy Alloys. <i>Advanced Engineering Materials</i> , 2020, 22, 2000466.	3.5	59
18	Temperature-dependent structure evolution in liquid gallium. <i>Acta Materialia</i> , 2017, 128, 304-312.	7.9	57

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19	A plastic Zr-Cu-Ag-Al bulk metallic glass. Acta Materialia, 2011, 59, 1037-1047.	7.9	55
20	Atomic structure and glass forming ability of Cu ₄₆ Zr ₄₆ Al ₈ bulk metallic glass. Journal of Applied Physics, 2008, 104, .	2.5	50
21	The size-dependent non-localized deformation in a metallic alloy. Scripta Materialia, 2015, 101, 48-51.	5.2	50
22	On the critical thickness for non-localized to localized plastic flow transition in metallic glasses: A molecular dynamics study. Scripta Materialia, 2016, 114, 93-97.	5.2	48
23	Pressure-induced amorphous-to-amorphous configuration change in Ca-Al metallic glasses. Scientific Reports, 2012, 2, 376.	3.3	47
24	Structural stability of high entropy alloys under pressure and temperature. Journal of Applied Physics, 2017, 121, .	2.5	44
25	Atomic structure in Zr ₇₀ Ni ₃₀ metallic glass. Journal of Applied Physics, 2007, 102, .	2.5	43
26	Formation of bulk metallic glasses in the Fe-M-Y-B (M = transition metal) system. Journal of Alloys and Compounds, 2008, 460, 708-713.	5.5	43
27	Tensile behavior of bulk metallic glasses by <i>in situ</i> x-ray diffraction. Applied Physics Letters, 2007, 91, .	3.3	42
28	The effect of oxidation on the corrosion resistance and mechanical properties of a Zr-based metallic glass. Corrosion Science, 2011, 53, 3557-3565.	6.6	42
29	Are there two glass transitions in Fe-M-Y-B (M = Mo, W, Nb) bulk metallic glasses?. Scripta Materialia, 2009, 60, 152-155.	5.2	39
30	Free-volume dependent atomic dynamics in beta relaxation pronounced La-based metallic glasses. Acta Materialia, 2015, 99, 290-296.	7.9	39
31	Photoresponse study of visible blind GaN/AlGaIn p-i-n ultraviolet photodetector. Optical and Quantum Electronics, 2011, 42, 755-764.	3.3	36
32	Non-localized deformation in Cu Zr multi-layer amorphous films under tension. Journal of Alloys and Compounds, 2016, 678, 410-420.	5.5	35
33	Free volume dependent atomic dynamics in beta relaxation pronounced La-based metallic glasses. Acta Materialia, 2015, 99, 290-296.	5.5	35
34	Effect of structural relaxation on plastic flow in a Ni-Nb metallic glassy film. Acta Materialia, 2012, 60, 3667-3676.	7.9	34
35	Evolution of local atomic structure during solidification of Al ₂ Au liquid: An ab initio study. Acta Materialia, 2014, 68, 1-8.	7.9	34
36	Intermediate structural state for maximizing the rejuvenation effect in metallic glass via thermo-cycling treatment. Journal of Alloys and Compounds, 2019, 795, 493-500.	5.5	34

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37	Atomic structure of Pd ₈₁ Si ₁₉ glassy alloy under high pressure. <i>Acta Materialia</i> , 2014, 81, 420-427.	7.9	33
38	Interfacial Free Energy Controlling Glass-Forming Ability of Cu-Zr Alloys. <i>Scientific Reports</i> , 2014, 4, 5167.	3.3	33
39	Deformation behavior of metallic glasses with shear band like atomic structure: a molecular dynamics study. <i>Scientific Reports</i> , 2016, 6, 30935.	3.3	33
40	Thermal expansion of a La-based bulk metallic glass: insight from <i>in situ</i> high-energy x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 254204.	1.8	32
41	Structural and dynamical properties of liquid Ag ₇₄ Ge ₂₆ alloy studied by experiments and <i>ab initio</i> molecular dynamics simulation. <i>Acta Materialia</i> , 2015, 92, 109-116.	7.9	31
42	Dark current simulation of InP/In _{0.53} Ga _{0.47} As/InP p-i-n photodiode. <i>Optical and Quantum Electronics</i> , 2008, 40, 1261-1266.	3.3	29
43	Low-density to high-density transition in Ce ₇₅ Al ₂₃ Si ₂ metallic glass. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 375404.	1.8	29
44	Tailoring nanostructured Ni-Nb metallic glassy thin films by substrate temperature. <i>Acta Materialia</i> , 2020, 194, 13-26.	7.9	28
45	The pitting corrosion behavior of shear bands in a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2012, 67, 376-379.	5.2	26
46	Local strain behavior of bulk metallic glasses under tension studied by <i>in situ</i> x-ray diffraction. <i>Applied Physics Letters</i> , 2009, 94, 011911.	3.3	24
47	Nucleation driven by orientational order in supercooled niobium as seen via <i>ab initio</i> molecular dynamics. <i>Physical Review B</i> , 2014, 89, .	3.2	23
48	Tuning microstructure and enhancing mechanical properties of Co-Ni-V-Al medium entropy alloy thin films via deposition power. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160003.	5.5	23
49	Atomic picture of elastic deformation in a metallic glass. <i>Scientific Reports</i> , 2015, 5, 9184.	3.3	22
50	Reversible structural relaxation and crystallization of Zr ₆₂ Al ₈ Ni ₁₃ Cu ₁₇ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4157-4161.	3.1	21
51	Liquid-to-liquid crossover in the GaIn eutectic alloy. <i>Physical Review B</i> , 2017, 95, .	3.2	21
52	Identifying surface structural changes in a newly-developed Ga-based alloy with melting temperature below 10 ³ Å°C. <i>Applied Surface Science</i> , 2019, 492, 143-149.	6.1	21
53	Crystallization behavior of preannealed bulk amorphous alloy Zr ₆₂ Al ₈ Ni ₁₃ Cu ₁₇ . <i>Materials Letters</i> , 2006, 60, 935-938.	2.6	20
54	Structural Signature of $\hat{\Gamma}^2$ -Relaxation in La-Based Metallic Glasses. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4308-4313.	4.6	20

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55	3D porous PTFE membrane filled with PEO-based electrolyte for all solid-state lithium-sulfur batteries. <i>Rare Metals</i> , 2022, 41, 2834-2843.	7.1	20
56	Tensile behavior of orthorhombic β -titanium alloy studied by in situ X-ray diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6596-6600.	5.6	19
57	Effects of substrate temperature on structure, thermal stability and mechanical property of a Zr-based metallic glass thin film. <i>Thin Solid Films</i> , 2015, 595, 17-24.	1.8	19
58	Thickness dependent structural evolution in Mg-Zn-Ca thin film metallic glasses. <i>Journal of Alloys and Compounds</i> , 2018, 742, 524-535.	5.5	19
59	Decoupling of pronounced beta and alpha relaxations and related mechanical property change. <i>Journal of Alloys and Compounds</i> , 2013, 577, 257-260.	5.5	18
60	Structural evolution and atomic dynamics in Ni-Nb metallic glasses: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2017, 147, 144503.	3.0	18
61	The relationship between viscosity and local structure in liquid zirconium via electromagnetic levitation and molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2020, 298, 111992.	4.9	18
62	A Self-Healing Anode for Li-Ion Batteries by Rational Interface Modification of Room-Temperature Liquid Metal. <i>ACS Applied Energy Materials</i> , 2021, 4, 12224-12231.	5.1	18
63	Structures at Glassy, Supercooled Liquid, and Liquid States in La-Based Bulk Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1634-1639.	2.2	17
64	The influence of glass transition temperature on the critical size for deformation mode transition in metallic glassy films. <i>Scripta Materialia</i> , 2014, 77, 64-67.	5.2	17
65	Enhanced plasticity in Zr-Cu-Ag-Al-Be bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 412, 35-44.	3.1	17
66	Pressure-induced structural change in liquid GaIn eutectic alloy. <i>Scientific Reports</i> , 2017, 7, 1139.	3.3	17
67	Atomic structure evolution during solidification of liquid niobium from <i>ab initio</i> molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 055004.	1.8	16
68	Origin of high glass forming ability of Y-containing FeB-based alloys. <i>Journal of Alloys and Compounds</i> , 2009, 485, L35-L38.	5.5	15
69	Heterogeneities in CuZr-based bulk metallic glasses studied by x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 075402.	1.8	15
70	Co content effect on elastic strain limit in ZrCuNiAlCo bulk metallic glasses. <i>Scripta Materialia</i> , 2017, 137, 94-99.	5.2	15
71	Pressure-induced amorphous-to-amorphous reversible transformation in Pr ₇₅ Al ₂₅ . <i>Journal of Applied Physics</i> , 2013, 114, 213516.	2.5	14
72	Annealing effect on beta-relaxation in a La-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 97-101.	3.1	14

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73	Glass forming ability and bending plasticity evolutions in Zr-Co-Al bulk metallic glasses and their structural origin. <i>Journal of Non-Crystalline Solids</i> , 2018, 488, 52-62.	3.1	14
74	Substrate temperature effect on growth behavior and microstructure-properties relationship in amorphous Ni Nb thin films. <i>Journal of Non-Crystalline Solids</i> , 2019, 510, 112-120.	3.1	14
75	A heterostructured Ag@In ₂ S ₃ composite with enhanced lithium storage capacity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5208.	10.3	13
76	Composition- and temperature-dependent liquid structures in Al-Cu alloys: an ab initio molecular dynamics and x-ray diffraction study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 035101.	1.8	13
77	Ultra-strong nanostructured Co-Ni-V medium entropy alloy thin film designed by interface strengthening. <i>Thin Solid Films</i> , 2021, 734, 138866.	1.8	13
78	High-quality GaN/GaAs quantum wells with light emission up to 1.44 μm grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2005, 87, 141913.	3.3	12
79	The crystallization process of liquid vanadium studied by ab initio molecular dynamics. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 155101.	1.8	12
80	Phase selection during solidification of liquid magnesium via ab initio molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2015, 117, 114905.	2.5	12
81	Homogeneity of the superplastic Zr _{64.13} Cu _{15.75} Ni _{10.12} Al ₁₀ bulk metallic glass. <i>Journal of Materials Research</i> , 2009, 24, 3116-3120.	2.6	11
82	Cu ₅₂ Zr ₁₅ Al ₁₅ Ti Bulk Metallic Glass with Enhanced Glass-Forming Ability, Mechanical Properties, Corrosion Resistance and Biocompatibility. <i>Advanced Engineering Materials</i> , 2012, 14, 195-199.	3.5	11
83	Structural evolution and dynamical properties of Al ₂ Ag and Al ₂ Cu liquids studied by experiments and ab initio molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2017, 459, 160-168.	3.1	11
84	Perspective on Structural Evolution and Relations with Thermophysical Properties of Metallic Liquids. <i>Advanced Materials</i> , 2017, 29, 1703136.	21.0	11
85	Size effect on atomic structure in low-dimensional Cu-Zr amorphous systems. <i>Scientific Reports</i> , 2017, 7, 7291.	3.3	11
86	Temperature-induced structural evolution in liquid Sn ₈₅ Zn ₁₅ eutectic alloy. <i>Scripta Materialia</i> , 2018, 148, 68-72.	5.2	11
87	Evolution of atomic structure in Al ₇₅ Cu ₂₅ liquid from experimental and ab initio molecular dynamics simulation studies. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 035102.	1.8	10
88	Correlation of viscosity with atomic packing in Cu ₅₀ Zr ₅₀ melt. <i>Journal of Molecular Liquids</i> , 2019, 293, 111544.	4.9	10
89	Temperature-Dependent Structural Evolution in Au ₄₄ Ga ₅₆ Liquid Eutectic Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25209-25219.	3.1	10
90	The effect of thickness and annealing treatment on microstructure and magnetic properties of amorphous Fe-Si-B-P-C thin films. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 52-61.	3.1	10

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91	Atomic packing in Mg ₆₁ Cu ₂₈ Gd ₁₁ bulk metallic glass. <i>Applied Physics Letters</i> , 2011, 98, 031901.	3.3	9
92	Relationship of deformation mode with strain-dependent shear transformation zone size in Cu-Zr metallic glasses using molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2017, 469, 45-50.	3.1	9
93	PVdF-HFP-Based Gel Polymer Electrolyte with Semi-Interpenetrating Networks For Dendrite-Free Lithium Metal Battery. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 417-424.	2.9	9
94	Local atomic structures of Gd and Zn atoms in extruded Mg-Gd-Zn alloys. <i>Scripta Materialia</i> , 2021, 195, 113720.	5.2	9
95	Production of Uniformly Sized Gallium-Based Liquid Alloy Nanodroplets via Ultrasonic Method and Their Li-Ion Storage. <i>Materials</i> , 2021, 14, 1759.	2.9	9
96	Structure alterations in Al-Y-based metallic glasses with La and Ni addition. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	8
97	Temperature- and Pressure-Induced Polyamorphic Transitions in AuCuSi Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20342-20350.	3.1	8
98	Tracing intermediate phases during crystallization in a Ni-Zr metallic glass. <i>Acta Materialia</i> , 2020, 186, 396-404.	7.9	8
99	Temperature-Induced Structural Changes in the Liquid GalnSn Eutectic Alloy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7413-7420.	3.1	8
100	Effects of spin orbital coupling on atomic and electronic structures in Al ₂ Cu and Al ₂ Au crystal and liquid phases via ab initio molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2014, 613, 55-61.	5.5	7
101	Temperature dependence of electronic transport property in ferroelectric polymer films. <i>Applied Surface Science</i> , 2014, 316, 497-500.	6.1	7
102	Synthesis and magnetic properties of amorphous Fe-Y-B thin films. <i>Journal of Alloys and Compounds</i> , 2014, 606, 196-203.	5.5	7
103	Structural signature in Au-based amorphous alloys. <i>Acta Materialia</i> , 2017, 140, 31-38.	7.9	7
104	Anomalous deformation mode transition in amorphous Mg-Zn-Ca thin films. <i>Scripta Materialia</i> , 2018, 149, 139-143.	5.2	7
105	Structural evolution of low-temperature liquid Galn eutectic alloy. <i>Journal of Molecular Liquids</i> , 2019, 293, 111464.	4.9	7
106	Temperature Dependences of Peak Positions in Pair Distribution Function of Metallic Liquids. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7055-7060.	2.6	7
107	Fluence-dependent microstructure and nanomechanical property in Co-Ni-V medium entropy alloy thin films. <i>Scripta Materialia</i> , 2021, 203, 114050.	5.2	7
108	Mechanical properties of monolithic Zr ₆₂ Al ₈ Ni ₁₃ Cu ₁₇ bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2009, 483, 132-135.	5.5	6

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109	Breakdown of intermediate range order in AsSe chalcogenide glass. Journal of Applied Physics, 2016, 120, 145901.	2.5	6
110	Correlation Between Local Structure and Boson Peak in Metallic Glasses. Journal of Low Temperature Physics, 2017, 186, 172-181.	1.4	6
111	Temperature dependent structural evolution in liquid Ag ₅₀ Ga ₅₀ alloy. Journal of Physics Condensed Matter, 2018, 30, 015402.	1.8	6
112	Structural evolution in liquid GaIn eutectic alloy under high temperature and pressure. Journal of Applied Physics, 2019, 126, .	2.5	6
113	Improved Tensile Ductility by Severe Plastic Deformation for Nano-Structured Metallic Glass. Materials, 2019, 12, 1611.	2.9	6
114	Structural evolution in bulk metallic glass under high-temperature tension. Applied Physics Letters, 2013, 102, 051909.	3.3	5
115	Composition dependent relaxation in La-Al-Ni/Cu metallic glasses. Journal of Alloys and Compounds, 2017, 726, 1024-1029.	5.5	5
116	Unraveling the origin of stress-dependent glass transition temperature in metallic glasses. Journal of the Mechanics and Physics of Solids, 2020, 137, 103853.	4.8	5
117	Different Thermal Responses of Local Structures in Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀ Alloy from Glass to Liquid. Journal of Physical Chemistry C, 2020, 124, 19817-19828.	3.1	5
118	Solid-solid phase transition via the liquid in a Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀ bulk metallic glass under conventional conditions. Journal of Alloys and Compounds, 2021, 859, 157802.	5.5	5
119	β -Relaxation and Crystallization Behaviors in a Pulse-Current-Thermoplastic-Formed La-Based Bulk Metallic Glass. Journal of Physical Chemistry B, 2021, 125, 657-664.	2.6	5
120	Origin of different thermal cycling effects in Fe ₈₀ P ₂₀ and Ni ₆₀ Nb ₄₀ metallic glasses. Materials Today Physics, 2021, 17, 100349.	6.0	5
121	Structural rejuvenation in a Zr-based bulk metallic glass via electropulsing treatment. Applied Physics Letters, 2021, 119, .	3.3	5
122	Thermal behaviors of liquid La-based bulk metallic glasses. Journal of Applied Physics, 2014, 116, .	2.5	4
123	Reversible devitrification in amorphous As ₂ Se ₃ under pressure. Physical Review B, 2016, 94, .	3.2	4
124	Structural connection between gallium crystals and near-T liquids under ambient pressure. Scripta Materialia, 2018, 143, 86-89.	5.2	4
125	Power-Law Feature of Structure in Metallic Glasses. Journal of Physical Chemistry C, 2019, 123, 27868-27874.	3.1	4
126	In-situ TEM study of oxygen-modulated crystallization pathway in Ni-Zr metallic glass. Journal of Alloys and Compounds, 2019, 800, 254-260.	5.5	4

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127	Contribution of cryogenic thermal cycling to the atomic dynamics in a La-based bulk metallic glass with different initial states. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	4
128	Anomalous fast atomic dynamics in bulk metallic glasses. <i>Materials Today Physics</i> , 2021, 17, 100351.	6.0	4
129	Synthesis and properties optimization of high-performance nanostructured metallic glass thin films. <i>Materials Today Nano</i> , 2021, 14, 100114.	4.6	4
130	Anisotropic and size-dependent mechanical responses of free-standing Ni-Nb metallic glass thin film. <i>Scripta Materialia</i> , 2021, 198, 113832.	5.2	4
131	Tuning nanostructure and mechanical property of Fe-Co-Ni-Cr-Mn high-entropy alloy thin films by substrate temperature. <i>Materials Today Nano</i> , 2021, 15, 100130.	4.6	4
132	Unravelling the origin of in-cage vibrations in a La ₅₀ Al ₁₅ Ni ₃₅ metallic glass. <i>Materials Today Physics</i> , 2021, 21, 100515.	6.0	4
133	Liquid helium temperature deformation and local atomic structure of CoNiV medium entropy alloy. <i>Materials Today Communications</i> , 2022, 30, 103141.	1.9	4
134	Structural evolution in liquid calcium under pressure. <i>Journal of Non-Crystalline Solids</i> , 2017, 472, 25-30.	3.1	3
135	Broadband Optical Absorber Based on Nanopatterned Metallic Glass Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6055-6060.	4.6	3
136	Nanometer-scale phase separation in Al ₆₀ Ge ₃₀ Mn ₁₀ amorphous alloy. <i>Journal of Alloys and Compounds</i> , 2019, 802, 166-172.	5.5	3
137	Atomic dynamics transition in a Cu-Zr-Al metallic glass. <i>Scripta Materialia</i> , 2020, 186, 268-271.	5.2	3
138	Shape memory effect in metallic glasses. <i>Matter</i> , 2021, 4, 3327-3338.	10.0	3
139	Short-range order controlling atomic dynamics in Y-based metallic glasses. <i>Physical Review B</i> , 2022, 105, .	3.2	3
140	Electro-optical characteristics for AlGaIn solar-blind p-i-n photodiode: Experiment and simulation. , 2012, , .		2
141	Pressure-induced structural change and nucleation in liquid aluminum. <i>Journal of Applied Physics</i> , 2018, 124, 225903.	2.5	2
142	Structure and dynamical properties of liquid Ni ₆₄ Zr ₃₆ and Ni ₆₅ Hf ₃₅ alloys: an ab initio molecular dynamics study. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 365401.	1.8	2
143	Thickness dependent electrical resistivity in amorphous Mg-Zn-Ca thin films. <i>Thin Solid Films</i> , 2019, 672, 182-185.	1.8	2
144	Fabrication and optical behavior of AuCuSi amorphous alloy film. <i>Nanotechnology</i> , 2021, 32, 335702.	2.6	2

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145	Aging Behaviors in a La-Based Metallic Glass Revealed by Two-Time Correlation Functions. Journal of Physical Chemistry C, 2020, 124, 22753-22760.	3.1	2
146	Correlation Between Viscosity and Local Atomic Structure in Liquid Zr ₅₆ Co ₂₈ Al ₁₆ Alloy. Microgravity Science and Technology, 2022, 34, 1.	1.4	2
147	Electro-optical characteristics of separate absorption and multiplication GaN avalanche photodiode. , 2011, , .		1
148	Surface compressive and softening effect on deformation mode transition in Ni-Nb metallic glassy thin films: A molecular dynamics study. Journal of Applied Physics, 2018, 124, 205304.	2.5	1
149	A Novel Technique for Large-Scale Fabrication of 3D Colloidal Crystals: Suspending Self-Assembly in Water Medium (SSAM). Crystal Growth and Design, 2021, 21, 4201-4206.	3.0	1
150	Temperature-induced structural evolution in liquid Ag-Ga alloys. Physical Review B, 2020, 102, .	3.2	1
151	Tuning mechanical properties of high entropy alloys by electro-pulsing method. Journal of Alloys and Compounds, 2022, 902, 163684.	5.5	1
152	Properties of Tunability and Stored Energy Density in the Ferroelectric Multilayers. Ferroelectrics, 2015, 488, 112-118.	0.6	0
153	Ultra-high specific hardness of Co-Ni-V-Al medium entropy alloy thin films. Materials Today Communications, 2022, 31, 103447.	1.9	0