

Takeshi Egami

List of Publications by Year in descending order

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433
papers

21,783
citations

8180
76
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13375
130
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440
all docs

440
docs citations

440
times ranked

13117
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic size effect on the formability of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1984, 64, 113-134.	3.1	933
2	Lattice Defects and Oxygen Storage Capacity of Nanocrystalline Ceria and Ceria-Zirconia. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11110-11116.	2.6	511
3	Underneath the Bragg Peaks. <i>Materials Today</i> , 2003, 6, 57.	14.2	422
4	Structural defects in amorphous solids A computer simulation study. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1980, 41, 883-901.	0.6	384
5	Anomalous Dispersion of LO Phonons in La _{1.85} Sr _{0.15} CuO ₄ at Low Temperatures. <i>Physical Review Letters</i> , 1999, 82, 628-631.	7.8	363
6	Direct Observation of the Formation of Polar Nanoregions in Pb(Mg _{1/3} Nb _{2/3})O ₃ Using Neutron Pair Distribution Function Analysis. <i>Physical Review Letters</i> , 2005, 94, 147602.	7.8	346
7	Local Jahn-Teller distortion in La _{1-x} Sr _x MnO ₃ observed by pulsed neutron diffraction. <i>Physical Review B</i> , 1997, 56, R8475-R8478.	3.2	302
8	Structural relaxation in amorphous Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ studied by energy dispersive X-ray diffraction. <i>Journal of Materials Science</i> , 1978, 13, 2587-2599.	3.7	299
9	Structural relaxation in amorphous alloys - compositional short range ordering. <i>Materials Research Bulletin</i> , 1978, 13, 557-562.	5.2	289
10	Accuracy of pair distribution function analysis applied to crystalline and non-crystalline materials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1992, 48, 336-346.	0.3	280
11	Local Atomic Structure and Conduction Mechanism of Nanocrystalline Hydrous RuO ₂ from X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12677-12683.	2.6	275
12	Atomic level stresses. <i>Progress in Materials Science</i> , 2011, 56, 637-653.	32.8	274
13	Structural defects in amorphous solids Statistical analysis of a computer model. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1981, 44, 847-866.	0.6	272
14	Elastic Heterogeneity in Metallic Glasses. <i>Physical Review Letters</i> , 2010, 105, 205502.	7.8	272
15	Extended Phonon Collapse and the Origin of the Charge-Density Wave in NbSe_3 . <i>Physical Review Letters</i> , 2011, 107, 107403.	7.8	264
16	Bond-orientational anisotropy in metallic glasses observed by x-ray diffraction. <i>Physical Review B</i> , 1987, 35, 2162-2168.	3.2	258
17	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. <i>Jom</i> , 2013, 65, 1848-1858.	1.9	250
18	Incommensurate Spin Dynamics of Underdoped Superconductor YBa ₂ Cu ₃ O _{6.7} . <i>Physical Review Letters</i> , 1999, 83, 608-611.	7.8	247

#	ARTICLE	IF	CITATIONS
19	Magnetic properties of FexCu100-x solid solutions. Physical Review B, 1986, 33, 3247-3250.	3.2	242
20	Two-dimensional resonant magnetic excitation in $\text{BaFe}_{1.84}$. Physical Review Letters, 2009, 102, 107005.	7.8	237
21	An atomistic study of deformation of amorphous metals. Acta Metallurgica, 1983, 31, 335-352.	2.1	227
22	Observation of a local structural change at T _c for Tl ₂ Ba ₂ CaCu ₂ O ₈ by pulsed neutron diffraction. Physical Review Letters, 1990, 64, 2414-2417.	7.8	225
23	Magnetic amorphous alloys: physics and technological applications. Reports on Progress in Physics, 1984, 47, 1601-1725.	20.1	222
24	Universal criterion for metallic glass formation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 261-267.	5.6	207
25	Radial distribution function and structural relaxation in amorphous solids. Physical Review B, 1981, 24, 6936-6944.	3.2	197
26	Local structural fluctuations in amorphous and liquid metals: a simple theory of the glass transition. Journal of Physics F: Metal Physics, 1982, 12, 2141-2163.	1.6	194
27	Stress-Temperature Scaling for Steady-State Flow in Metallic Glasses. Physical Review Letters, 2010, 104, 205701.	7.8	183
28	Engineering atomic-level complexity in high-entropy and complex concentrated alloys. Nature Communications, 2019, 10, 2090.	12.8	182
29	Structural rejuvenation in a bulk metallic glass induced by severe plastic deformation. Acta Materialia, 2010, 58, 429-438.	7.9	181
30	Elementary Excitations and Crossover Phenomenon in Liquids. Physical Review Letters, 2013, 110, 205504.	7.8	179
31	Local Atomic Structure of a High-Entropy Alloy: An X-Ray and Neutron Scattering Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1994-1997.	2.2	173
32	How thermally activated deformation starts in metallic glass. Nature Communications, 2014, 5, 5083.	12.8	170
33	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. Physica B: Condensed Matter, 2006, 385-386, 955-960.	2.7	163
34	Structural Aspects of Metallic Glasses. MRS Bulletin, 2007, 32, 629-634.	3.5	162
35	In-situ TEM observation of structural changes in nano-crystalline CoCrCuFeNi multicomponent high-entropy alloy (HEA) under fast electron irradiation by high voltage electron microscopy (HVEM). Intermetallics, 2015, 59, 32-42.	3.9	161
36	Atomic Level Stresses in Solids and Liquids. Physica Status Solidi (B): Basic Research, 1987, 144, 145-156.	1.5	160

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37	Irradiation Resistance of Multicomponent Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 180-183.	2.2	155
38	Short-Range Ordering Due to Displacements of Thallium and Oxygen Atoms in Superconducting $Tl_2Ba_2CaCu_2O_8$ Observed by Pulsed-Neutron Scattering. Physical Review Letters, 1988, 61, 2608-2611.	7.8	154
39	Lattice Effect of Strong Electron Correlation: Implication for Ferroelectricity and Superconductivity. Science, 1993, 261, 1307-1310.	12.6	152
40	Glass transition in metallic glasses: A microscopic model of topological fluctuations in the bonding network. Physical Review B, 2007, 76, .	3.2	152
41	Atomic structure of amorphous $Al_{90}Fe_xCe_{10-x}$. Journal of Materials Research, 1990, 5, 2807-2812.	2.6	134
42	Short-range atomic structure of $Nd_{2-x}Ce_xCuO_4$ determined by real-space refinement of neutron-powder-diffraction data. Physical Review B, 1993, 47, 14386-14406.	3.2	134
43	Nanoscale Heterogeneities and Oxygen Storage Capacity of $Ce_{0.5}Zr_{0.5}O_2$. Journal of Physical Chemistry B, 2003, 107, 13007-13014.	2.6	126
44	Local fluctuations and ordering in liquid and amorphous metals. Physical Review B, 1988, 37, 2440-2449.	3.2	121
45	Tunneling Electroresistance Induced by Interfacial Phase Transitions in Ultrathin Oxide Heterostructures. Nano Letters, 2013, 13, 5837-5843.	9.1	115
46	Building a high resolution total scattering powder diffractometer - upgrade of NPD at MLNSC. Applied Physics A: Materials Science and Processing, 2002, 74, s163-s165.	2.3	114
47	Mechanical Properties of Metallic Glasses. Metals, 2013, 3, 77-113.	2.3	112
48	Atomic Structure of $PbZrO_3$ Determined by Pulsed Neutron Diffraction. Acta Crystallographica Section B: Structural Science, 1998, 54, 750-765.	1.8	111
49	STRUCTURAL RELAXATION IN METALLIC GLASSES. Annals of the New York Academy of Sciences, 1981, 371, 238-251.	3.8	110
50	Molecular-dynamics study of orientational order in liquids and glasses and its relation to the glass transition. Physical Review B, 1995, 52, 3290-3308.	3.2	108
51	Local lattice distortions in $La_{1-x}Sr_xMnO_3$ studied by pulsed neutron scattering. Physical Review B, 1999, 59, 6193-6204.	3.2	108
52	Mechanical Properties of Nanoscopic Lipid Domains. Journal of the American Chemical Society, 2015, 137, 15772-15780.	13.7	108
53	Severe local lattice distortion in Zr- and/or Hf-containing refractory multi-principal element alloys. Acta Materialia, 2020, 183, 172-181.	7.9	108
54	Low-field magnetic properties of ferromagnetic amorphous alloys. Applied Physics Letters, 1975, 26, 128-130.	3.3	106

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55	Effect of low-temperature annealing and deformation on the structure of metallic glasses by X-ray diffraction. <i>Journal of Materials Science</i> , 1979, 14, 1249-1253.	3.7	104
56	Multiple conducting carriers generated in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	104
57	Structural defects in a nano-scale powder of CeO ₂ studied by pulsed neutron diffraction. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1345-1356.	4.0	103
58	Mechanical glass transition revealed by the fracture toughness of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3271.	12.8	103
59	Ceria films on zirconia substrates: models for understanding oxygen-storage properties. <i>Catalysis Today</i> , 1999, 50, 343-352.	4.4	102
60	La ₃ Ni ₂ O ₆ :Å A New Double T̄-type Nickelate with Infinite Ni ^{1+2+O₂Layers. <i>Journal of the American Chemical Society</i>, 2006, 128, 9050-9051.}}	13.7	102
61	Local Lattice Dynamics and the Origin of the Relaxor Ferroelectric Behavior. <i>Physical Review Letters</i> , 2008, 100, 137602.	7.8	102
62	Short range ordering in amorphous Al ₉₀ FexCe ₁₀ â~x. <i>Journal of Non-Crystalline Solids</i> , 1991, 135, 248-254.	3.1	97
63	Differential anomalous-x-ray-scattering study of icosahedral and amorphous Pd _{58.8} U _{20.6} Si _{20.6} . <i>Physical Review Letters</i> , 1986, 57, 114-117.	7.8	96
64	Structural rejuvenation in bulk metallic glasses. <i>Acta Materialia</i> , 2015, 86, 240-246.	7.9	96
65	Proposal for universality in the viscosity of metallic liquids. <i>Scientific Reports</i> , 2015, 5, 13837.	3.3	92
66	Internal friction and reversible structural relaxation in the metallic glass Fe ₃₂ Ni ₃₆ Cr ₁₄ P ₁₂ B ₆ . <i>Acta Metallurgica</i> , 1984, 32, 603-613.	2.1	91
67	Crossover from Localized to Cascade Relaxations in Metallic Glasses. <i>Physical Review Letters</i> , 2015, 115, 045501.	7.8	91
68	Synchrotron X-ray scattering study of lead magnoniobate relaxor ferroelectric crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1517-1523.	4.0	89
69	Lattice effects in high temperature superconductors. <i>Progress in Materials Science</i> , 1994, 38, 359-424.	32.8	88
70	Atomic-scale dynamics of a model glass-forming metallic liquid: Dynamical crossover, dynamical decoupling, and dynamical clustering. <i>Physical Review B</i> , 2015, 91, .	3.2	88
71	Structural changes in bulk metallic glass after annealing below the glass-transition temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 471, 125-129.	5.6	85
72	Domain Walls in Ferromagnetic Dy and Tb. <i>Journal of Applied Physics</i> , 1971, 42, 1299-1300.	2.5	84

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73	Energy landscape-driven non-equilibrium evolution of inherent structure in disordered material. Nature Communications, 2017, 8, 15417.	12.8	82
74	Theory of intrinsic magnetic after-effect i. thermally activated process. Physica Status Solidi A, 1973, 19, 747-758.	1.7	80
75	In-plane anisotropy and temperature dependence of oxygen phonon modes in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$. Physical Review B, 2003, 67, .	3.2	80
76	Structure Sensitivity of the Reaction of Methanol on Ceria. Langmuir, 2001, 17, 2464-2470.	3.5	79
77	Local atomic structure of amorphous and crystalline alloys: Computer simulation. Journal of Non-Crystalline Solids, 1987, 89, 60-74.	3.1	77
78	Kinetics of structural relaxation in amorphous alloy observed by X-ray diffraction. Materials Science and Engineering, 1978, 32, 293-295.	0.1	76
79	Atomistic mechanism of bulk metallic glass formation. Journal of Non-Crystalline Solids, 2003, 317, 30-33.	3.1	76
80	Atomic Correlations in Non-Periodic Matter. Materials Transactions, JIM, 1990, 31, 163-176.	0.9	74
81	Effects of deformation and annealing on magnetic amorphous alloys. IEEE Transactions on Magnetics, 1976, 12, 927-929.	2.1	72
82	The atomic structure of aluminum based metallic glasses and universal criterion for glass formation. Journal of Non-Crystalline Solids, 1996, 205-207, 575-582.	3.1	72
83	Local Electronic Effects and Irradiation Resistance in High-Entropy Alloys. Jom, 2015, 67, 2345-2349.	1.9	72
84	Correlation between Fragility and the Arrhenius Crossover Phenomenon in Metallic, Molecular, and Network Liquids. Physical Review Letters, 2016, 117, 205701.	7.8	72
85	Effect of d electrons on defect properties in equiatomic NiCoCr and NiCoFeCr concentrated solid solution alloys. Physical Review Materials, 2018, 2, .	2.4	72
86	Local structure of $\text{Pb}(\text{Sc}_{1/2},\text{Ta}_{1/2})\text{O}_3$ and related compounds. Journal of Physics and Chemistry of Solids, 2000, 61, 229-237. Bulk Magnetic Order in a Two-Dimensional math xmlns:mml="http://www.w3.org/1998/Math/MathML"	4.0	71
87			

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91	Understanding the properties and structure of metallic glasses at the atomic level. <i>Jom</i> , 2010, 62, 70-75.	1.9	67
92	Formation and deformation of metallic glasses: Atomistic theory. <i>Intermetallics</i> , 2006, 14, 882-887.	3.9	65
93	Crystal Structures of $\text{Ln}_{4}\text{Ni}_3\text{O}_8$ ($\text{Ln} = \text{La, Nd}$) Triple Layer Type Nickelates. <i>Inorganic Chemistry</i> , 2007, 46, 10887-10891.	4.0	64
94	Local structure and topology of a model amorphous metal. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 2209-2219.	1.6	63
95	Electron-irradiation-induced structural change in $\text{Zr}-\text{Hf}-\text{Nb}$ alloy. <i>Intermetallics</i> , 2012, 26, 122-130.	3.9	63
96	Shear deformation of glassy metals: Breakdown of cauchy relationship and anelasticity. <i>Journal of Non-Crystalline Solids</i> , 1985, 75, 361-366.	3.1	62
97	Unusual Relationship between Magnetism and Superconductivity in $\text{FeTe}_{0.5}\text{Se}_{7.8}\text{S}_{6.2}$. <i>Physical Review Letters</i> , 2010, 104, 187002.		
98	Growth control of the oxidation state in vanadium oxide thin films. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	61
99	Mechanical rejuvenation in bulk metallic glass induced by thermo-mechanical creep. <i>Acta Materialia</i> , 2018, 148, 384-390.	7.9	61
100	Structure of Al-Li-Cu icosahedral crystals and Penrose tiling. <i>Physical Review Letters</i> , 1987, 58, 1440-1443.	7.8	60
101	Theory of bloch wall tunnelling. <i>Physica Status Solidi (B): Basic Research</i> , 1973, 57, 211-224.	1.5	59
102	Theory of intrinsic magneitc after-effect II. Tunnelling process and comparison with experiments. <i>Physica Status Solidi A</i> , 1973, 20, 157-165.	1.7	59
103	The magnetic phase transition in amorphous ferromagnets and in spin glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 1983, 38, 240-252.	2.3	59
104	Direct observation of anelastic bond-orientational anisotropy in amorphous $\text{Tb}_{26}\text{Fe}_{62}\text{Co}_{12}$ thin films by x-ray diffraction. <i>Physical Review B</i> , 1991, 43, 9300-9303.	3.2	58
105	Nano-glass Mechanism of Bulk Metallic Glass Formation. <i>Materials Transactions</i> , 2002, 43, 510-517.	1.2	58
106	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , 2008, 36, 1-133.	7.2	58
107	Phonons in doped and undoped $\text{BaFe}_{2+\delta}$ by inelastic x-ray scattering. <i>Physical Review B</i> , 2009, 80, .		
108	MeV electron-irradiation-induced structural change in the bcc phase of $\text{Zr}-\text{Hf}-\text{Nb}$ alloy with an approximately equiatomic ratio. <i>Intermetallics</i> , 2013, 38, 70-79.	3.9	57

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109	Structure and magnetism of amorphous alloys. <i>IEEE Transactions on Magnetics</i> , 1981, 17, 2600-2605.	2.1	56
110	Short-, intermediate-, and extended-range order in rubidium germanate glasses. <i>Physical Review B</i> , 1997, 55, 11249-11255.	3.2	56
111	Electron-lattice interaction in cuprates. <i>Journal of Low Temperature Physics</i> , 1996, 105, 791-800.	1.4	55
112	Anisotropic neutron spin resonance in superconducting xml�:math xmlns:math="http://www.w3.org/1998/Math/MathML" display="inline"><math>\langle mml:mrow><mml:msub><mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>3.2</mml:mn></mml:mrow><mml:mrow><mml:mn>1.9</mml:mn></mml:mrow></math>	55	55
113	Effect of Pnictogen Height on Spin Waves in Iron Pnictides. <i>Physical Review Letters</i> , 2014, 112, .	7.8	55
114	Seeing real-space dynamics of liquid water through inelastic x-ray scattering. <i>Science Advances</i> , 2017, 3, e1603079.	10.3	53
115	Local atomic structure of PZT and PLZT studied by pulsed neutron scattering. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1537-1543.	4.0	52
116	Viscosity, Shear Waves, and Atomic-Level Stress-Stress Correlations. <i>Physical Review Letters</i> , 2011, 106, 115703.	7.8	52
117	Structure of Al-Mn-Cr-Si quasicrystals studied by pulsed neutron scattering. <i>Physical Review B</i> , 1987, 35, 435-440.	3.2	51
118	Local structure of NaNbO ₃ : A neutron scattering study. <i>Physical Review B</i> , 2013, 88, .	3.2	51
119	Dissipation of radiation energy in concentrated solid-solution alloys: Unique defect properties and microstructural evolution. <i>MRS Bulletin</i> , 2019, 44, 798-811.	3.5	51
120	Local Structure of Ferroelectric Materials. <i>Annual Review of Materials Research</i> , 2007, 37, 297-315.	9.3	50
121	Molecular-dynamics study of structural anisotropy and anelasticity in metallic glasses. <i>Physical Review B</i> , 1993, 48, 3048-3057.	3.2	49
122	A model of short and intermediate range atomic structure in the relaxor ferroelectric Pb(Mg _{1/3} , Nb _{2/3}) ₃ . <i>Ferroelectrics</i> , 1994, 158, 351-356.	0.6	49
123	Micromagnetic Theory of Phase Transitions in Inhomogeneous Ferromagnets III. Non-local Landau-Ginzburg Theory. <i>Physica Status Solidi (B): Basic Research</i> , 1980, 101, 713-721.	1.5	48
124	Local intermolecular correlations in C ₆₀ . <i>Physical Review B</i> , 1992, 45, 9517-9520.	3.2	47
125	Variations in atomic structural features of a supercooled Pd-Ni-Cu-P glass forming liquid during in situ vitrification. <i>Acta Materialia</i> , 2011, 59, 708-716.	7.9	47
126	Fe-B amorphous alloys with room-temperature saturation induction over 17.5 kG. <i>Applied Physics Letters</i> , 1979, 34, 113-115.	3.3	46

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127	Anisotropy and coercivity of amorphous RE-TM films. IEEE Transactions on Magnetics, 1987, 23, 2269-2271.	2.1	46
128	Temperature dependence of the local structure of YBa ₂ Cu ₄ O ₈ . Physical Review B, 1995, 51, 6747-6750.	3.2	46
129	LATTICE EFFECTS IN HIGH- T_c SUPERCONDUCTORS., 1996, , 265-373.		46
130	Observation of structural anisotropy in metallic glasses induced by mechanical deformation. Journal of Materials Research, 2007, 22, 412-418.	2.6	46
131	Equipartition theorem and the dynamics of liquids. Physical Review B, 2008, 78, .	3.2	46
132	Stabilization of Polar Nanoregions in Pb-free Ferroelectrics. Physical Review Letters, 2018, 120, 207603.	7.8	46
133	Effect of annealing on the Curie temperature of amorphous alloys. Journal of Applied Physics, 1979, 50, 7615.	2.5	45
134	Evolution of elastic heterogeneity during aging in metallic glasses. Physical Review E, 2014, 89, 062313.	2.1	45
135	Structure of bulk amorphous Pd-Ni-P alloys determined by synchrotron radiation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1805-1809.	2.2	44
136	Vibronic mechanism of high-T _c superconductivity. Physical Review B, 2003, 67, .	3.2	44
137	Relaxor ferroelectrics and intrinsic inhomogeneity. Europhysics Letters, 2005, 71, 249-255.	2.0	44
138	Atomic mechanism of flow in simple liquids under shear. Physical Review Letters, 2012, 108, 196001.	7.8	44
139	Structure of magnetic amorphous alloys studied by energy dispersive X-ray diffraction. Journal of Applied Physics, 1979, 50, 1564-1569.	2.5	43
140	Temperature dependence of magnetization of amorphous Fe-B-C alloys. Journal of Applied Physics, 1979, 50, 1589-1591. Inherent electrons, local moments, and magnetic correlations in the pnictide superconductors $\text{Ce}_x\text{Fe}_{2-x}\text{As}_3$	2.5	41
141	$\frac{\partial \ln \Omega}{\partial H} = \frac{1}{k_B T} \left(\frac{\partial \ln \Omega}{\partial \ln \mu} + \frac{\partial \ln \mu}{\partial H} \right) = \frac{1}{k_B T} \left(\frac{\partial \ln \Omega}{\partial \ln \mu} + \frac{\partial \ln \mu}{\partial \ln \mu} \right)$		

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145	Phonon softening near the structural transition in $\text{BaFe}_x\text{mml:math}$ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">< mml:msub>< mml:mrow />< mml:mn>2</mml:mn></mml:msub></mml:math> As < mml:math> \frac{\partial^2 \epsilon}{\partial P^2} < mml:msub>< mml:mrow />< mml:mn>2</mml:mn></mml:msub></mml:math> observed by inelastic x-ray scattering. Physical Review B, 2011, 84, 1.	3.2	39
146	Designing the composition and heat treatment of magnetic amorphous alloys. Materials Science and Engineering, 1981, 48, 147-165.	0.1	38
147	Recovering compressive plasticity of bulk metallic glasses by high-temperature creep. Scripta Materialia, 2013, 69, 570-573.	5.2	38
148	Strain control of oxygen kinetics in the Ruddlesden-Popper oxide $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. Nature Communications, 2018, 9, 92.	12.8	38
149	Local structure of amorphous Mo50Ni50 determined by anomalous x-ray scattering using synchrotron radiation. Solid State Communications, 1983, 48, 111-115.	1.9	37
150	Evidence of local lattice distortions in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ provided by pulsed neutron diffraction. Journal of Applied Physics, 1997, 81, 5484-5486.	2.5	37
151	Nature of atomic ordering and mechanism of relaxor ferroelectric phenomena in PMN. Ferroelectrics, 1998, 206, 231-244.	0.6	37
152	Specific heat and susceptibility of Ni-based amorphous alloys with dilute Fe. Journal of Applied Physics, 1978, 49, 1730-1732.	2.5	36
153	Low-temperature specific heat of the metallic glasses $\text{Fe}_x\text{Ni}_{80-x}\text{P}_{14}\text{B}_6$ with $x=0, 20, 40, 60, 80$. Physical Review B, 1979, 20, 1211-1220.	3.2	36
154	Local atomic structure of relaxor ferroelectric solids determined by pulsed neutron and x-ray scattering. Ferroelectrics, 1997, 199, 103-113.	0.6	36
155	The origin of viscosity as seen through atomic level stress correlation function. Journal of Chemical Physics, 2013, 138, 044507.	3.0	36
156	Amorphous alloys with improved room-temperature saturation induction. IEEE Transactions on Magnetics, 1978, 14, 1013-1015.	2.1	35
157	Growth control of stoichiometry in LaMnO_3 epitaxial thin films by pulsed laser deposition. Journal of Crystal Growth, 2010, 312, 2923-2927.	1.5	35
158	Theory of dynamic stripe induced superconductivity. Journal of Physics Condensed Matter, 2001, 13, L169-L174.	1.8	34
159	Local Structures of High-Entropy Alloys (HEAs) on Atomic Scales: An Overview. Jom, 2015, 67, 2321-2325.	1.9	34
160	Atomic Dynamics in Simple Liquid: de Gennes Narrowing Revisited. Physical Review Letters, 2018, 120, 135502.	7.8	34
161	Self-regenerative noble metal catalysts supported on high-entropy oxides. Chemical Communications, 2020, 56, 15056-15059.	4.1	34
162	Structural relationship between icosahedral and Frank-Kasper phases of Al-Li-Cu. Philosophical Magazine Letters, 1987, 56, 63-68.	1.2	33

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163	Deviations from planarity of copper-oxygen sheets in Ca _{0.85} Sr _{0.15} CuO ₂ . Physical Review B, 1991, 43, 10340-10352.	3.2	33
164	Mechanical failure and glass transition in metallic glasses. Journal of Alloys and Compounds, 2011, 509, S82-S86.	5.5	33
165	Local structural change close to T _c in Nd _{2-x} C _x CuO _{4-y} . Physica C: Superconductivity and Its Applications, 1991, 179, 279-285.	1.2	32
166	Giant dielectric permittivity and magnetocapacitance in La _{0.875} Sr _{0.125} MnO ₃ single crystals. Physical Review B, 2007, 75, .	3.2	32
167	Applications of a general random-walk theory for confined diffusion. Physical Review E, 2011, 83, 011120.	2.1	32
168	Microscopic model of relaxor phenomena in Pb containing mixed oxides. Ferroelectrics, 1999, 222, 163-170.	0.6	31
169	Strain-relaxation and critical thickness of epitaxial La _{1.85} Sr _{0.15} CuO ₄ films. APL Materials, 2015, 3, .	5.1	31
170	Short-range antiferromagnetic orientational correlations in Rb ₃ C ₆₀ . Physical Review B, 1995, 51, 5973-5976.	3.2	30
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