

Takeshi Egami

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.

426
papers

18,838
citations

73
h-index

121
g-index

440
ext. papers

20,155
ext. citations

4.3
avg, IF

6.87
L-index

#	Paper	IF	Citations
426	Unconventional interlayer exchange coupling via chiral phonons in synthetic magnetic oxide heterostructures.. <i>Science Advances</i> , 2022 , 8, eabm4005	14.3	6
425	Atomic transport in amorphous metals. <i>International Journal of Materials Research</i> , 2022 , 93, 1071-1076	0.5	
424	Uncovering the hydride ion diffusion pathway in barium hydride via neutron spectroscopy.. <i>Scientific Reports</i> , 2022 , 12, 6194	4.9	0
423	Nonaffine Strains Control Ductility of Metallic Glasses.. <i>Physical Review Letters</i> , 2022 , 128, 155501	7.4	2
422	Synthesis and Characterization of Pure Infinite Layer Ni ⁺ Nickelates: LnNiO ₂ (Ln = La, Nd, Pr) and La ₃ Ni ₂ O ₆ . <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 044008	2	1
421	Mean-field model for the Curie-Weiss temperature dependence of coherence length in metallic liquids.. <i>Physical Review E</i> , 2022 , 105, 044135	2.4	
420	Medium-range atomic correlation in simple liquids. II. Theory of temperature dependence.. <i>Physical Review E</i> , 2021 , 104, 064110	2.4	4
419	Medium-range atomic correlation in simple liquids. I. Distinction from short-range order.. <i>Physical Review E</i> , 2021 , 104, 064109	2.4	6
418	Electronic Effects on the Mechanical Properties of High-Entropy Alloys 2021 , 287-313		
417	Universal nature of the saddle states of structural excitations in metallic glasses. <i>Materials Today Physics</i> , 2021 , 17, 100359	8	6
416	Enhancing elastic properties of single element amorphous solids through long-range interactions. <i>Applied Physics Letters</i> , 2021 , 119, 051901	3.4	1
415	Element-resolved local lattice distortion in complex concentrated alloys: An observable signature of electronic effects. <i>Acta Materialia</i> , 2021 , 216, 117135	8.4	7
414	Investigating the Accuracy of Water Models through the Van Hove Correlation Function. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5992-6005	6.4	3
413	High Pressure Quenched Glasses: unique structures and properties. <i>Scientific Reports</i> , 2020 , 10, 9497	4.9	2
412	Ideality of liquid structure: A case study for metallic alloy liquids. <i>Physical Review E</i> , 2020 , 101, 030601	2.4	10
411	Experimental determination of the temperature-dependent Van Hove function in a ZrPt liquid. <i>Journal of Chemical Physics</i> , 2020 , 152, 074506	3.9	7
410	Local Density Correlations in Liquids. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	12

409	Shear Softening in a Metallic Glass: First-Principles Local-Stress Analysis. <i>Physical Review Letters</i> , 2020 , 124, 085503	7.4	9
408	Dynamic Crystallography: Redefining the Structure of Liquid. <i>Nihon Kessho Gakkaishi</i> , 2020 , 62, 243-247		0
407	Severe local lattice distortion in Zr- and/or Hf-containing refractory multi-principal element alloys. <i>Acta Materialia</i> , 2020 , 183, 172-181	8.4	53
406	The effect of thermal cycling on the fracture toughness of metallic glasses. <i>Acta Materialia</i> , 2020 , 184, 100-108	8.4	38
405	Why Is the Range of Timescale So Wide in Glass-Forming Liquid?. <i>Frontiers in Chemistry</i> , 2020 , 8, 579169	5	3
404	Self-regenerative noble metal catalysts supported on high-entropy oxides. <i>Chemical Communications</i> , 2020 , 56, 15056-15059	5.8	10
403	Correlated atomic dynamics in liquid seen in real space and time. <i>Journal of Chemical Physics</i> , 2020 , 153, 180902	3.9	4
402	Split-pulse X-ray photon correlation spectroscopy with seeded X-rays from X-ray laser to study atomic-level dynamics. <i>Nature Communications</i> , 2020 , 11, 6213	17.4	9
401	Origin of liquid fragility. <i>Physical Review E</i> , 2020 , 102, 042615	2.4	8
400	Pressure-induced phase transition in barium hydride studied with neutron scattering. <i>Applied Physics Letters</i> , 2020 , 117, 051902	3.4	7
399	Local self-motion of water through the Van Hove function. <i>Physical Review E</i> , 2020 , 102, 032604	2.4	6
398	Electronic structure and atomic level complexity in Al _{0.5} TiZrPdCuNi high-entropy alloy in glass phase. <i>Journal of Applied Physics</i> , 2019 , 126, 095104	2.5	6
397	Orientalional Distribution Function of Aligned Elongated Molecules and Particulates Determined from Their Scattering Signature. <i>ACS Macro Letters</i> , 2019 , 8, 1257-1262	6.6	3
396	Engineering atomic-level complexity in high-entropy and complex concentrated alloys. <i>Nature Communications</i> , 2019 , 10, 2090	17.4	102
395	Transformation pathway from alpha to omega and texture evolution in Zr via high-pressure torsion. <i>Applied Physics Letters</i> , 2019 , 114, 061903	3.4	4
394	Dynamics of water in real space and time. <i>Molecular Physics</i> , 2019 , 117, 3227-3231	1.7	3
393	Local Dynamics in Liquids and Glassy Materials. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 081001	1.5	3
392	Connection between the anisotropic structure and nonlinear rheology of sheared colloidal suspensions investigated by Brownian dynamics simulations. <i>Journal of Physics Communications</i> , 2019 , 3, 055018	1.2	3

391	Determining Gyration Tensor of Orienting Macromolecules through Their Scattering Signature. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3978-3984	6.4	5
390	Dissipation of radiation energy in concentrated solid-solution alloys: Unique defect properties and microstructural evolution. <i>MRS Bulletin</i> , 2019 , 44, 798-811	3.2	30
389	Identifying Water-Anion Correlated Motion in Aqueous Solutions through Van Hove Functions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7119-7125	6.4	8
388	Critical Spin Fluctuation Mechanism for the Spin Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 196603	7.4	4
387	Local correlated motions in aqueous solution of sodium chloride. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
386	Curie-Weiss behavior of liquid structure and ideal glass state. <i>Scientific Reports</i> , 2019 , 9, 18579	4.9	15
385	Mechanical rejuvenation in bulk metallic glass induced by thermo-mechanical creep. <i>Acta Materialia</i> , 2018 , 148, 384-390	8.4	37
384	Strain control of oxygen kinetics in the Ruddlesden-Popper oxide LaSrCuO. <i>Nature Communications</i> , 2018 , 9, 92	17.4	30
383	Atomic Dynamics in Simple Liquid: de Gennes Narrowing Revisited. <i>Physical Review Letters</i> , 2018 , 120, 135502	7.4	19
382	Solid state amorphization of metastable Al _{0.5} TiZrPdCuNi high entropy alloy investigated by high voltage electron microscopy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 291-300	4.4	17
381	Mechanical glass transition revealed by the fracture toughness of metallic glasses. <i>Nature Communications</i> , 2018 , 9, 3271	17.4	76
380	Viscosity and real-space molecular motion of water: Observation with inelastic x-ray scattering. <i>Physical Review E</i> , 2018 , 98, 022604	2.4	19
379	Effect of d electrons on defect properties in equiatomic NiCoCr and NiCoFeCr concentrated solid solution alloys. <i>Physical Review Materials</i> , 2018 , 2,	3.2	42
378	Local elasticity in nonlinear rheology of interacting colloidal glasses revealed by neutron scattering and rheometry. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 38-45	3.6	4
377	Real-Space Description of Dynamics of Liquids. <i>Quantum Beam Science</i> , 2018 , 2, 22	1.6	3
376	Simple theory of viscosity in liquids. <i>Physical Review E</i> , 2018 , 98,	2.4	8
375	Dynamics in the Plastic Crystalline Phases of Cyclohexanol and Cyclooctanol Studied by Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6296-6304	3.4	1
374	Stabilization of Polar Nanoregions in Pb-free Ferroelectrics. <i>Physical Review Letters</i> , 2018 , 120, 207603	7.4	30

373	Energy landscape-driven non-equilibrium evolution of inherent structure in disordered material. <i>Nature Communications</i> , 2017 , 8, 15417	17.4	57
372	Structural relaxation, viscosity, and network connectivity in a hydrogen bonding liquid. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 25859-25869	3.6	19
371	Observation of dynamic atom-atom correlation in liquid helium in real space. <i>Nature Communications</i> , 2017 , 8, 15294	17.4	12
370	Pressure Induced Liquid-to-Liquid Transition in Zr-based Supercooled Melts and Pressure Quenched Glasses. <i>Scientific Reports</i> , 2017 , 7, 6564	4.9	9
369	Mechanical Deformation in Metallic Liquids and Glasses: From Atomic Bond-Breaking to Avalanches. <i>Understanding Complex Systems</i> , 2017 , 199-225	0.4	0
368	Seeing real-space dynamics of liquid water through inelastic x-ray scattering. <i>Science Advances</i> , 2017 , 3, e1603079	14.3	41
367	Measurements of structural and chemical order in Zr ₈₀ Pt ₂₀ and Zr ₇₇ Rh ₂₃ liquids. <i>Physical Review B</i> , 2016 , 93,	3.3	17
366	Correlation between Fragility and the Arrhenius Crossover Phenomenon in Metallic, Molecular, and Network Liquids. <i>Physical Review Letters</i> , 2016 , 117, 205701	7.4	57
365	How to characterize disorder. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 374, 2-7	1.2	4
364	Onset of Cooperative Dynamics in an Equilibrium Glass-Forming Metallic Liquid. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1142-8	3.4	22
363	Deformation in Metallic Glasses Studied by Synchrotron X-Ray Diffraction. <i>Metals</i> , 2016 , 6, 22	2.3	12
362	Electrostatic levitation facility optimized for neutron diffraction studies of high temperature liquids at a spallation neutron source. <i>Review of Scientific Instruments</i> , 2016 , 87, 013904	1.7	18
361	Universal mechanism of thermomechanical deformation in metallic glasses. <i>Physical Review B</i> , 2015 , 91,	3.3	10
360	Anisotropic stress correlations in two-dimensional liquids. <i>Physical Review E</i> , 2015 , 91, 032301	2.4	22
359	Mechanical Properties of Nanoscopic Lipid Domains. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15772-80	16.4	81
358	Local Electronic Effects and Irradiation Resistance in High-Entropy Alloys. <i>Jom</i> , 2015 , 67, 2345-2349	2.1	51
357	Local Structures of High-Entropy Alloys (HEAs) on Atomic Scales: An Overview. <i>Jom</i> , 2015 , 67, 2321-2325	2.1	26
356	Proposal for universality in the viscosity of metallic liquids. <i>Scientific Reports</i> , 2015 , 5, 13837	4.9	72

355	Coincidence of collective relaxation anomaly and specific heat peak in a bulk metallic glass-forming liquid. <i>Physical Review B</i> , 2015 , 92,	3.3	4
354	Anisotropy of stress correlation in two-dimensional liquids and a pseudospin model. <i>Physical Review E</i> , 2015 , 92, 052303	2.4	3
353	Atomic-scale dynamics of a model glass-forming metallic liquid: Dynamical crossover, dynamical decoupling, and dynamical clustering. <i>Physical Review B</i> , 2015 , 91,	3.3	76
352	Crossover from Localized to Cascade Relaxations in Metallic Glasses. <i>Physical Review Letters</i> , 2015 , 115, 045501	7.4	73
351	Strain-relaxation and critical thickness of epitaxial La _{1.85} Sr _{0.15} CuO ₄ films. <i>APL Materials</i> , 2015 , 3, 126102	9.7	19
350	Comparison of Structural Relaxation Behavior in As-Cast and Pre-Annealed Zr-Based Bulk Metallic Glasses Just below Glass Transition. <i>Materials Transactions</i> , 2015 , 56, 648-654	1.3	6
349	Structural rejuvenation in bulk metallic glasses. <i>Acta Materialia</i> , 2015 , 86, 240-246	8.4	72
348	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). <i>Intermetallics</i> , 2015 , 59, 32-42	3.5	118
347	Complexity at mesoscopic lengthscale. <i>IUCrJ</i> , 2015 , 2, 479-80	4.7	3
346	Universal local strain in solid-state amorphization: The atomic size effect in binary alloys. <i>Acta Materialia</i> , 2014 , 68, 229-237	8.4	10
345	Intrinsic Nanoscience of [PuGa] Alloys: Local Structure and Speciation, Collective Behavior, Nanoscale Heterogeneity, and Aging Mechanisms. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8541-8563	3.8	8
344	Effect of Pnictogen Height on Spin Waves in Iron Pnictides. <i>Physical Review Letters</i> , 2014 , 112,	7.4	48
343	Irradiation Resistance of Multicomponent Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 180-183	2.3	112
342	Irradiation damage in multicomponent equimolar alloys and high entropy alloys (HEAs). <i>Microscopy (Oxford, England)</i> , 2014 , 63 Suppl 1, i22	1.3	1
341	How thermally activated deformation starts in metallic glass. <i>Nature Communications</i> , 2014 , 5, 5083	17.4	136
340	Evolution of elastic heterogeneity during aging in metallic glasses. <i>Physical Review E</i> , 2014 , 89, 062313	2.4	33
339	Elementary excitation and energy landscape in simple liquids. <i>Modern Physics Letters B</i> , 2014 , 28, 1430006	0.66	20
338	Nanoscale heterogeneity, premartensitic nucleation, and a new plutonium structure in metastable [fcc Pu-Ga] alloys. <i>Physical Review B</i> , 2014 , 89,	3.3	12

337	Anisotropic neutron spin resonance in underdoped superconducting NaFe _{1-x} Co _x As. <i>Physical Review B</i> , 2014 , 90,	3.3	25
336	Dynamical Threshold of Diluteness of Soft Colloids. <i>ACS Macro Letters</i> , 2014 , 3, 1271-1275	6.6	5
335	Local energy landscape in a simple liquid. <i>Physical Review E</i> , 2014 , 90, 052307	2.4	10
334	Growth control of the oxidation state in vanadium oxide thin films. <i>Applied Physics Letters</i> , 2014 , 105, 223515	3.4	54
333	Local structure of NaNbO ₃ : A neutron scattering study. <i>Physical Review B</i> , 2013 , 88,	3.3	36
332	The origin of viscosity as seen through atomic level stress correlation function. <i>Journal of Chemical Physics</i> , 2013 , 138, 044507	3.9	34
331	Aluminum Alloying Effects on Lattice Types, Microstructures, and Mechanical Behavior of High-Entropy Alloys Systems. <i>Jom</i> , 2013 , 65, 1848-1858	2.1	180
330	First-principles local stress in crystalline and amorphous metals. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 435505	1.8	14
329	Local Atomic Structure of a High-Entropy Alloy: An X-Ray and Neutron Scattering Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1994-1997	7.3	121
328	Mechanical Properties of Metallic Glasses. <i>Metals</i> , 2013 , 3, 77-113	2.3	84
327	MeV electron-irradiation-induced structural change in the bcc phase of Zr ₄₀ Ni ₄₀ Nb alloy with an approximately equiatomic ratio. <i>Intermetallics</i> , 2013 , 38, 70-79	3.5	44
326	Residual elastic strain induced by equal channel angular pressing on bulk metallic glasses. <i>Acta Materialia</i> , 2013 , 61, 1204-1209	8.4	16
325	Charge-dependent dynamics of a polyelectrolyte dendrimer and its correlation with invasive water. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5111-7	16.4	10
324	Magnetic anisotropy in hole-doped superconducting Ba _{0.67} K _{0.33} Fe ₂ As ₂ probed by polarized inelastic neutron scattering. <i>Physical Review B</i> , 2013 , 87,	3.3	27
323	Elementary excitations and crossover phenomenon in liquids. <i>Physical Review Letters</i> , 2013 , 110, 205504	7.4	144
322	Recovering compressive plasticity of bulk metallic glasses by high-temperature creep. <i>Scripta Materialia</i> , 2013 , 69, 570-573	5.6	31
321	Tunneling electroresistance induced by interfacial phase transitions in ultrathin oxide heterostructures. <i>Nano Letters</i> , 2013 , 13, 5837-43	11.5	106
320	Measurement of a double neutron-spin resonance and an anisotropic energy gap for underdoped superconducting NaFe _{0.985} Co _{0.015} As using inelastic neutron scattering. <i>Physical Review Letters</i> , 2013 , 111, 207002	7.4	34

319	Structured water in polyelectrolyte dendrimers: understanding small angle neutron scattering results through atomistic simulation. <i>Journal of Chemical Physics</i> , 2012 , 136, 144901	3.9	18
318	Local Atomic Density of Microporous Carbons. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2946-2951	3.8	19
317	Dynamic pair-density function method for neutron and X-ray inelastic scattering. <i>Zeitschrift für Kristallographie</i> , 2012 , 227, 233-237		10
316	Changes in the atomic structure through glass transition observed by X-ray scattering. <i>Intermetallics</i> , 2012 , 23, 111-115	3.5	3
315	Electron-irradiation-induced structural change in Zr ₄₀ Hf ₆₀ Nb alloy. <i>Intermetallics</i> , 2012 , 26, 122-130	3.5	48
314	Glass formability and the Al ₂ Si system. <i>Philosophical Magazine</i> , 2012 , 92, 655-665	1.6	19
313	Local Atomic Structure and Morphotropic Phase Boundary. <i>Ceramic Transactions</i> , 2012 , 1-15	0.1	
312	Spacetime dependence of the anomalous exponent of electric transport in the disorder model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 465002	2	1
311	Strongly coupled phase transition in ferroelectric/correlated electron oxide heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 042902	3.4	28
310	Atomic mechanism of flow in simple liquids under shear. <i>Physical Review Letters</i> , 2012 , 108, 196001	7.4	36
309	Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO _{1-x} F _x and Sr(Fe _{1-x} Cox)2As ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	39
308	Local structural variation as source of magnetic moment reduction in BaFe ₂ As ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	19
307	Atomic migration and bonding characteristics during a glass transition investigated using as-cast Zr-Cu-Al. <i>Physical Review B</i> , 2011 , 83,	3.3	17
306	Structural basis for supercooled liquid fragility established by synchrotron-radiation method and computer simulation. <i>Journal of Applied Physics</i> , 2011 , 110, 043519	2.5	33
305	Mechanical failure and glass transition in metallic glasses. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S82-S86	5.7	32
304	Extended phonon collapse and the origin of the charge-density wave in 2H-NbSe ₂ . <i>Physical Review Letters</i> , 2011 , 107, 107403	7.4	199
303	Random materials: Localization on the nanoscale. <i>Nature Nanotechnology</i> , 2011 , 6, 199-200	28.7	3
302	On the glass transition temperature and the elastic properties in Zr-based bulk metallic glasses. <i>Philosophical Magazine Letters</i> , 2011 , 91, 751-756	1	1

301	Variations in atomic structural features of a supercooled Pd ₄₀ Ni ₄₀ Cu ₂₀ B glass forming liquid during in situ vitrification. <i>Acta Materialia</i> , 2011 , 59, 708-716	8.4	42
300	Atomic level stresses. <i>Progress in Materials Science</i> , 2011 , 56, 637-653	42.2	227
299	Applications of a general random-walk theory for confined diffusion. <i>Physical Review E</i> , 2011 , 83, 011120	2.4	28
298	Phonon softening near the structural transition in BaFe ₂ As ₂ observed by inelastic x-ray scattering. <i>Physical Review B</i> , 2011 , 84,	3.3	34
297	Viscosity, shear waves, and atomic-level stress-stress correlations. <i>Physical Review Letters</i> , 2011 , 106, 115703	7.4	49
296	Anisotropic neutron spin resonance in superconducting BaFe _{1.9} Ni _{0.1} As ₂ . <i>Physical Review B</i> , 2010 , 82,	3.3	51
295	Bulk magnetic order in a two-dimensional Ni ¹⁺ /Ni ²⁺ (d ⁹ /d ⁸) nickelate, isoelectronic with superconducting cuprates. <i>Physical Review Letters</i> , 2010 , 104, 206403	7.4	56
294	Stress-temperature scaling for steady-state flow in metallic glasses. <i>Physical Review Letters</i> , 2010 , 104, 205701	7.4	162
293	Atomic Structure of Au Nanoparticles on a Silica Support by an X-ray PDF Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6983-6988	3.8	6
292	Unusual relationship between magnetism and superconductivity in FeTe(0.5)Se(0.5). <i>Physical Review Letters</i> , 2010 , 104, 187002	7.4	59
291	Understanding the properties and structure of metallic glasses at the atomic level. <i>Jom</i> , 2010 , 62, 70-75	2.1	52
290	Kinetics of volume and enthalpy relaxation in Pt ₆₀ Ni ₁₅ P ₂₅ bulk metallic glass. <i>Physical Review B</i> , 2010 , 81,	3.3	25
289	Elastic heterogeneity in metallic glasses. <i>Physical Review Letters</i> , 2010 , 105, 205502	7.4	232
288	Growth control of stoichiometry in LaMnO ₃ epitaxial thin films by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2010 , 312, 2923-2927	1.6	30
287	Spin-lattice coupling in iron-pnictide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S294-S295	1.3	14
286	Statistical Mechanics of Metallic Glasses and Liquids. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1628-1633	2.3	22
285	Structural rejuvenation in a bulk metallic glass induced by severe plastic deformation. <i>Acta Materialia</i> , 2010 , 58, 429-438	8.4	132
284	Phonons in doped and undoped BaFe ₂ As ₂ investigated by inelastic x-ray scattering. <i>Physical Review B</i> , 2009 , 80,	3.3	54

283	Spin excitations in BaFe _{1.84} Co _{0.16} As ₂ superconductor observed by inelastic neutron scattering. <i>Physical Review B</i> , 2009 , 80,	3-3	12
282	Two-dimensional resonant magnetic excitation in BaFe _{1.84} Co _{0.16} As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 107005	7-4	228
281	SIMULATING THE EFFECT OF POISSON RATIO ON METALLIC GLASS PROPERTIES. <i>International Journal of Modern Physics B</i> , 2009 , 23, 1229-1234	1-1	3
280	Multiple conducting carriers generated in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2009 , 95, 082107	3-4	102
279	Nanoscale oscillatory fracture propagation in metallic glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 1978-1984	3-3	1
278	Real and reciprocal space order parameters for porous arrays from image analysis. <i>Journal of Materials Science</i> , 2009 , 44, 40-46	4-3	7
277	Giant dielectric susceptibility and magnetocapacitance effect in manganites at room temperature. <i>JETP Letters</i> , 2008 , 86, 643-646	1-2	11
276	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	8	51
275	Many-body effects in bcc metals: An embedded atom model extension of the modified Johnson pair potential for iron. <i>Physical Review B</i> , 2008 , 77,	3-3	7
274	Phase separation in the vicinity of quantum-critical doping concentration: Implications for high-temperature superconductors. <i>Physical Review B</i> , 2008 , 77,	3-3	17
273	Equipartition theorem and the dynamics of liquids. <i>Physical Review B</i> , 2008 , 78,	3-3	38
272	Atomic bond fluctuations and crossover to potential-energy-landscape-influenced regime in supercooled liquid. <i>Physical Review E</i> , 2008 , 78, 041202	2-4	12
271	Intermediate spin-charge order in the cuprates. <i>Journal of Physics: Conference Series</i> , 2008 , 108, 012005	0-3	1
270	Order parameters from image analysis: a honeycomb example. <i>Die Naturwissenschaften</i> , 2008 , 95, 1033-40		8
269	Geometrical Frustration and Glass Formation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1786-1790	2-3	12
268	Structural Anisotropy in Metallic Glasses Induced by Mechanical Deformation. <i>Advanced Engineering Materials</i> , 2008 , 10, 1003-1007	3-5	14
267	Nano-scale complexities in the superconducting cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2191-2194	3-9	1
266	Local lattice dynamics and the origin of the relaxor ferroelectric behavior. <i>Physical Review Letters</i> , 2008 , 100, 137602	7-4	88

265	Atomistic Theory Of Metallic Liquids and Glasses 2008 , 27-55		4
264	Giant dielectric permittivity and magnetocapacitance in La _{0.875} Sr _{0.125} MnO ₃ single crystals. <i>Physical Review B</i> , 2007 , 75,	3.3	30
263	Giant Dielectric Permittivity and Colossal Magnetocapacitance Effect in Complex Manganites with High Conductivity. <i>Ferroelectrics</i> , 2007 , 348, 7-12	0.6	2
262	Glass transition in metallic glasses: A microscopic model of topological fluctuations in the bonding network. <i>Physical Review B</i> , 2007 , 76,	3.3	137
261	Crystal structures of Ln ₄ Ni ₃ O ₈ (Ln = La, Nd) triple layer TQ-type nickelates. <i>Inorganic Chemistry</i> , 2007 , 46, 10887-91	5.1	53
260	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	5.3	74
259	Lattice effects in cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 267-270	1.3	4
258	Investigation into the evolution of the structure of K _{1-x} Li _x Ta _{1-y} Nb _y O ₃ single crystals under variations in temperature. <i>Crystallography Reports</i> , 2007 , 52, 440-446	0.6	3
257	Local Structure of Ferroelectric Materials. <i>Annual Review of Materials Research</i> , 2007 , 37, 297-315	12.8	41
256	Lattice Effects in Superconducting Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007 , 19, 203-211	1.5	4
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