

Joerg C Neufeind

List of Publications by Year in descending order

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201
papers

9,842
citations

46918

47
h-index

40881

93
g-index

210
all docs

210
docs citations

210
times ranked

11991
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Close-Packed Cobalt Molybdenum Nitrides as Non-noble Metal Electrocatalysts for the Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 19186-19192.	6.6	897
2	Deviation from high-entropy configurations in the atomic distributions of a multi-principal-element alloy. <i>Nature Communications</i> , 2015, 6, 5964.	5.8	530
3	Diffusion-free Grotthuss topochemistry for high-rate and long-life proton batteries. <i>Nature Energy</i> , 2019, 4, 123-130.	19.8	446
4	Mechanisms of Metal Ion Transfer into Room-Temperature Ionic Liquids: The Role of Anion Exchange. <i>Journal of the American Chemical Society</i> , 2003, 125, 15466-15473.	6.6	366
5	Mechanism of Na-Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. <i>Advanced Energy Materials</i> , 2017, 7, 1602894.	10.2	332
6	The Nanoscale Ordered Materials Diffractometer NOMAD at the Spallation Neutron Source SNS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 287, 68-75.	0.6	308
7	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. <i>Physical Review Letters</i> , 2017, 118, 205501.	2.9	283
8	Structural Studies of Several Distinct Metastable Forms of Amorphous Ice. <i>Science</i> , 2002, 297, 1320-1323.	6.0	250
9	Amorphous silica studied by high energy X-ray diffraction. <i>Journal of Non-Crystalline Solids</i> , 1995, 188, 63-74.	1.5	241
10	Measuring strain distributions in amorphous materials. <i>Nature Materials</i> , 2004, 4, 33-36.	13.3	199
11	A New Molybdenum Nitride Catalyst with Rhombohedral MoS ₂ Structure for Hydrogenation Applications. <i>Journal of the American Chemical Society</i> , 2015, 137, 4815-4822.	6.6	195
12	Probing disorder in isometric pyrochlore and related complex oxides. <i>Nature Materials</i> , 2016, 15, 507-511.	13.3	164
13	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 955-960.	1.3	163
14	Defective Hard Carbon Anode for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 4536-4542.	3.2	158
15	Bond angle distribution in amorphous germania and silica. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 1341-1349.	0.9	155
16	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014, 141, 214507.	1.2	132
17	A Triple-Crystal Diffractometer for High-Energy Synchrotron Radiation at the HASYLAB High-Field Wiggler Beamline BW5. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 90-101.	1.0	131
18	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018, 146, 280-293.	3.8	131

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19	Experimental Coordination Environment of Uranyl(VI) in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2733-2739.	1.1	125
20	Structural water engaged disordered vanadium oxide nanosheets for high capacity aqueous potassium-ion storage. <i>Nature Communications</i> , 2017, 8, 15520.	5.8	121
21	Determination of actinide speciation in solution using high-energy X-ray scattering. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 48-55.	1.9	106
22	A green-yellow emitting oxyfluoride solid solution phosphor Sr ₂ Ba(AlO ₄ F) _{1-x} (SiO ₅) _x :Ce ³⁺ for thermally stable, high color rendition solid state white lighting. <i>Journal of Materials Chemistry</i> , 2012, 22, 18204.	6.7	105
23	Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts: Structural and Electrochemical Studies. <i>Inorganic Chemistry</i> , 2015, 54, 2128-2136.	1.9	97
24	A suite-level review of the neutron powder diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092701.	0.6	90
25	Short-range order of Zr _{62-x} Ti _x Al ₁₀ Cu ₂₀ Ni ₈ bulk metallic glasses. <i>Acta Materialia</i> , 2002, 50, 305-314.	3.8	88
26	Intermediate-Range Order in Permanently Densified GeO ₂ Glass. <i>Physical Review Letters</i> , 2003, 90, 115502.	2.9	81
27	Isotopic quantum effects in water structure measured with high energy photon diffraction. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 2597-2612.	0.7	79
28	Temperature Dependence of Isotopic Quantum Effects in Water. <i>Physical Review Letters</i> , 2005, 94, 047801.	2.9	79
29	Analysis of short and long range atomic order in nanocrystalline diamonds with application of powder diffractometry. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, .	0.4	75
30	Effect of poling on nanodomains and nanoscale structure in A-site disordered lead-free piezoelectric Na _{0.5} Bi _{0.5} TiO ₃ BaTiO ₃ . <i>Journal of Materials Chemistry C</i> , 2014, 2, 8423-8431.	2.7	75
31	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <i>Nature Communications</i> , 2019, 10, 4975.	5.8	75
32	Structure of zinc and niobium tellurite glasses by neutron and x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1645-1663.	0.7	72
33	Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na ₃ OBr and Na ₄ OI ₂ : An <i>in Situ</i> Neutron Diffraction Study. <i>Inorganic Chemistry</i> , 2016, 55, 5993-5998.	1.9	68
34	Acoustic levitator for structure measurements on low temperature liquid droplets. <i>Review of Scientific Instruments</i> , 2009, 80, 083904.	0.6	66
35	Nanostructured Na ₂ Ti ₉ O ₁₉ for Hybrid Sodium-Ion Capacitors with Excellent Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 437-447.	4.0	63
36	Low Cation Coordination in Oxide Melts. <i>Physical Review Letters</i> , 2014, 112, 157801.	2.9	62

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37	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. Applied Physics Letters, 2017, 110, .	1.5	62
38	Similar local order in disordered fluorite and aperiodic pyrochlore structures. Acta Materialia, 2018, 144, 60-67.	3.8	60
39	Hydrogen bonding in liquid methanol at ambient conditions and at high pressure. Molecular Physics, 2000, 98, 125-134.	0.8	56
40	Structure of Molten CaSiO ₃ : Neutron Diffraction Isotope Substitution with Aerodynamic Levitation and Molecular Dynamics Study. Journal of Physical Chemistry B, 2012, 116, 13439-13447.	1.2	56
41	Oxygen as a Site Specific Probe of the Structure of Water and Oxide Materials. Physical Review Letters, 2011, 107, 145501.	2.9	51
42	Framework Doping of Ni Enhances Pseudocapacitive Na-Ion Storage of (Ni)MnO ₂ Layered Birnessite. Chemistry of Materials, 2019, 31, 8774-8786.	3.2	51
43	The Structure of Amorphous and Deeply Supercooled Liquid Alumina. Frontiers in Materials, 2019, 6, .	1.2	51
44	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U ₂ O ₇ . Inorganic Chemistry, 2016, 55, 3541-3546.	1.9	50
45	Inversion in Mg _{1-x} Ni _x Al ₂ O ₄ Spinel: New Insight into Local Structure. Journal of the American Chemical Society, 2017, 139, 10395-10402.	6.6	50
46	Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses. Acta Materialia, 2018, 149, 108-118.	3.8	49
47	Charge transfer drives anomalous phase transition in ceria. Nature Communications, 2018, 9, 5063.	5.8	48
48	Isotope effects in water as investigated by neutron diffraction and path integral molecular dynamics. Journal of Physics Condensed Matter, 2012, 24, 284126.	0.7	47
49	Structure of the UO ₂ +SO ₄ ²⁻ Ion Pair in Aqueous Solution. Inorganic Chemistry, 2004, 43, 2422-2426.	1.9	46
50	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	1.5	46
51	Structural Characterization and Aging of Glassy Pharmaceuticals made Using Acoustic Levitation. Journal of Pharmaceutical Sciences, 2013, 102, 1290-1300.	1.6	46
52	Structure analyses of Ba-silicate glasses. Journal of Non-Crystalline Solids, 2002, 297, 37-54.	1.5	45
53	Structure of vanadium tellurite glasses studied by neutron and X-ray diffraction. Solid State Communications, 2002, 123, 273-278.	0.9	45
54	Low Temperature Pyrolyzed Soft Carbon as High Capacity K-Ion Anode. ACS Applied Energy Materials, 2019, 2, 4053-4058.	2.5	44

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55	Geometry and intermolecular structure of N-methylformamide in the liquid phase as measured by neutron scattering. <i>Molecular Physics</i> , 1992, 76, 143-156.	0.8	43
56	Ring size distribution in silicate glasses revealed by neutron scattering first sharp diffraction peak analysis. <i>Journal of Non-Crystalline Solids</i> , 2019, 516, 71-81.	1.5	43
57	Spinon Fermi Surface Spin Liquid in a Triangular Lattice Antiferromagnet NaYbSe_2 . <i>Physical Review X</i> , 2021, 11, .	2.8	42
58	The atomic and electronic structure of liquid N-methylformamide as determined from diffraction experiments. <i>Molecular Physics</i> , 1996, 87, 189-202.	0.8	42
59	Environments of lead cations in oxide glasses probed by X-ray diffraction. <i>Journal of Non-Crystalline Solids</i> , 2003, 328, 146-156.	1.5	41
60	More accurate X-ray scattering data of deeply supercooled bulk liquid water. <i>Molecular Physics</i> , 2011, 109, 279-288.	0.8	41
61	Measurements of liquid and glass structures using aerodynamic levitation and in-situ high energy x-ray and neutron scattering. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 49-51.	1.5	41
62	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. <i>Nature Communications</i> , 2018, 9, 86.	5.8	40
63	Diffraction Studies of Nanocrystals: Theory and Experiment. <i>Acta Physica Polonica A</i> , 2002, 102, 57-82.	0.2	39
64	Combined neutron and X-ray scattering study of phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 158-168.	1.5	38
65	Investigation of nanocrystalline CdS "glutathione particles by radial distribution function. <i>Journal of Applied Crystallography</i> , 2003, 36, 1389-1396.	1.9	38
66	Experimental determination of the electron density of liquid H ₂ O and D ₂ O. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L429-L433.	0.7	37
67	Intricate Short-Range Ordering and Strongly Anisotropic Transport Properties of $\text{Li}_x\text{Sn}_{2+x}\text{As}_2$. <i>Journal of the American Chemical Society</i> , 2015, 137, 3622-3630.	6.6	37
68	$\text{Bi}_4\text{TaO}_8\text{Cl}$ Nano-Photocatalyst: Influence of Local, Average, and Band Structure. <i>Inorganic Chemistry</i> , 2017, 56, 5525-5536.	1.9	37
69	Defect accumulation in swift heavy ion-irradiated CeO_2 and ThO_2 . <i>Journal of Materials Chemistry A</i> , 2017, 5, 12193-12201.	5.2	36
70	Experimental method to quantify the ring size distribution in silicate glasses and simulation validation thereof. <i>Science Advances</i> , 2021, 7, .	4.7	36
71	Event-based processing of neutron scattering data at the Spallation Neutron Source. <i>Journal of Applied Crystallography</i> , 2018, 51, 616-629.	1.9	35
72	High-energy X-ray diffraction study of La co-ordination in lanthanum phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2002, 297, 263-274.	1.5	34

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73	ISOMER-X: a program for the analysis of high-energy X-ray diffraction experiments. Journal of Applied Crystallography, 2003, 36, 368-368.	1.9	33
74	Application of X-ray Powder Diffraction to Nano-materials - Determination of the Atomic Structure of Nanocrystals with Relaxed and Strained Surfaces. Phase Transitions, 2003, 76, 171-185.	0.6	33
75	Structure of zinc phosphate glasses probed by neutron and X-ray diffraction of high resolving power and by reverse Monte Carlo simulations. Journal of Non-Crystalline Solids, 2005, 351, 1020-1031.	1.5	33
76	The structure of molten ZnCl ₂ . Journal of Non-Crystalline Solids, 1998, 224, 205-215.	1.5	31
77	Short-range order in amorphous germanium-tellurium alloys. Journal of Non-Crystalline Solids, 2003, 326-327, 120-124.	1.5	31
78	<i>In-situ</i> study of crystallization kinetics in ternary bulk metallic glass alloys with different glass forming abilities. Applied Physics Letters, 2014, 105, .	1.5	31
79	The Structure of Liquid and Amorphous Hafnia. Materials, 2017, 10, 1290.	1.3	31
80	Precise implications for real-space pair distribution function modeling of effects intrinsic to modern time-of-flight neutron diffractometers. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 293-307.	0.0	31
81	Disorder in Ho ₂ Ti ₂ Zr _x O ₇ : pyrochlore to defect fluorite solid solution series. RSC Advances, 2020, 10, 34632-34650.	1.7	31
82	The structure of molten FLiNaK. Journal of Nuclear Materials, 2020, 537, 152219.	1.3	31
83	Isotope quantum effects in water around the freezing point. Journal of Chemical Physics, 2006, 124, 134505.	1.2	30
84	Effects of Al:Si and (Al+Na):Si ratios on the properties of the international simple glass, part II: Structure. Journal of the American Ceramic Society, 2021, 104, 183-207.	1.9	29
85	The structure of potassium germanate glasses – a combined X-ray and neutron scattering study. Journal of Non-Crystalline Solids, 2000, 278, 99-114.	1.5	28
86	Structure and Thermal Expansion of YSZ and La ₂ Zr ₂ O ₇ Above 1500°C from Neutron Diffraction on Levitated Samples. Journal of the American Ceramic Society, 2015, 98, 3381-3388.	1.9	28
87	Synthesis and structure of synthetically pure and deuterated amorphous (basic) calcium carbonates. Chemical Communications, 2017, 53, 2942-2945.	2.2	28
88	Entropic elasticity and negative thermal expansion in a simple cubic crystal. Science Advances, 2019, 5, eaay2748.	4.7	28
89	Predicting short-range order and correlated phenomena in disordered crystalline materials. Science Advances, 2020, 6, eabc2758.	4.7	28
90	Structural quantum isotope effects in amorphous beryllium hydride. Journal of Chemical Physics, 2003, 119, 12499-12502.	1.2	26

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91	Measurements of structural and chemical order in $Zr_{80}P_{20}$. Physical Review Letters, 2006, 97, 115503.	1.1	26
92	Adding a Length Scale to the Polyamorphic Ice Debate. Physical Review Letters, 2006, 97, 115503.	2.9	25
93	Structural transition and orbital glass physics in near-itinerant CoV_2O_4 . Physical Review B, 2016, 93, .	1.1	25
94	Crystal and Magnetic Structures and Physical Properties of a New Pyroxene $NaMnGe_2O_6$ Synthesized under High Pressure. Journal of the American Chemical Society, 2013, 135, 2776-2786.	6.6	23
95	Structural studies on amorphous silicon boron nitride $Si_3B_3N_7$: neutron contrast technique on nitrogen and high energy X-ray diffraction. Journal of Materials Chemistry, 1999, 9, 2865-2869.	6.7	22
96	The structure of vitreous P_2O_5 studied by high-energy X-ray diffraction. Solid State Communications, 2000, 115, 559-562.	0.9	22
97	The Spallation Neutron Source: A Powerful Tool for Materials Research. AIP Conference Proceedings, 2005, , .	0.3	22
98	Electrostatic levitation facility optimized for neutron diffraction studies of high temperature liquids at a spallation neutron source. Review of Scientific Instruments, 2016, 87, 013904.	0.6	22
99	Amorphous tantalum and its relationship with the molten state. Physical Review Materials, 2018, 2, .	0.9	21
100	Diffraction on disordered materials using "neutron-like" photons. Physica Scripta, 1995, T57, 112-116.	1.2	20
101	A Neutron and X-ray Diffraction Study of the Structure of Nd Phosphate Glasses. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 237-243.	0.7	20
102	High-energy x-ray diffraction study of amorphous $(Si_{0.71}Ge_{0.29})O_2$. Journal of Physics Condensed Matter, 2003, 15, 4919-4926.	0.7	20
103	Atomic-level structural correlations across the morphotropic phase boundary of a ferroelectric solid solution: $xBiMg_{1/2}Ti_{1/2}O_3-(1-x)PbTiO_3$. Scientific Reports, 2017, 7, 471.	1.6	20
104	Adaptive strain prompting a pseudo-morphotropic phase boundary in ferroelectric $(1-x)Tl_2TeO_7$. Physical Review B, 2018, 97, .	1.1	20
105	The nano- and meso-scale structure of amorphous calcium carbonate. Scientific Reports, 2022, 12, 6870.	1.6	19
106	The structure of fluid trifluoromethane and methylfluoride. Journal of Physics Condensed Matter, 2000, 12, 8765-8776.	0.7	18
107	On the partial structure factors of molten zinc chloride. Physical Chemistry Chemical Physics, 2001, 3, 3987-3993.	1.3	18
108	Favorable Concurrence of Static and Dynamic Phenomena at the Morphotropic Phase Boundary of $xBiNi_{0.5}Zr_{0.5}O_3(1-x)PbTiO_3$. Physical Review Letters, 2017, 119, 207604.	2.9	18

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109	Structural behavior of Zr ₅₂ Ti ₅ Cu ₁₈ Ni ₁₅ Al ₁₀ bulk metallic glass at high temperatures. Applied Physics Letters, 2002, 80, 4525-4527.	1.5	17
110	Role of Short-Range Chemical Ordering in (GaN) _{1-x} (ZnO) _x for Photodriven Oxygen Evolution. Chemistry of Materials, 2017, 29, 6525-6535.	3.2	17
111	Short-range order and origin of the low thermal conductivity in compositionally complex rare-earth niobates and tantalates. Acta Materialia, 2022, 235, 118056.	3.8	17
112	High energy XRD investigations of liquids. Journal of Molecular Liquids, 2002, 98-99, 87-95.	2.3	16
113	Thermodynamic and structural evolution of mechanically milled and swift heavy ion irradiated Er ₂ Ti ₂ O ₇ pyrochlore. Acta Materialia, 2019, 181, 309-317.	3.8	16
114	Local order of orthorhombic weberite-type Y ₃ TaO ₇ as determined by neutron total scattering and density functional theory calculations. Acta Materialia, 2020, 196, 704-709.	3.8	16
115	The structure of liquid carbon dioxide and carbon disulfide. Journal of Chemical Physics, 2009, 130, 174503.	1.2	15
116	Average and Local Crystal Structures of (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solution Nanoparticles. Inorganic Chemistry, 2015, 54, 11226-11235.	1.9	15
117	Impact of Average, Local, and Electronic Structure on Visible Light Photocatalysis in Novel BiREWO ₆ (RE = Eu and Tb) Nanomaterials. ACS Applied Materials & Interfaces, 2018, 10, 35876-35887.	4.0	15
118	The hybrid lattice of K _x Fe _{2-y} Se ₂ : where superconductivity and magnetism coexist. Scientific Reports, 2013, 3, 2047.	1.6	14
119	Odd-Even Structural Sensitivity on Dynamics in Network-Forming Ionic Liquids. Chemistry of Materials, 2016, 28, 3227-3233.	3.2	14
120	Decoding Oxyanion Aqueous Solvation Structure: A Potassium Nitrate Example at Saturation. Journal of Physical Chemistry B, 2018, 122, 7584-7589.	1.2	14
121	Complex Structure of Molten NaCl ₃ CrCl ₃ Salt: Cr ^{VI} Octahedral Network and Intermediate-Range Order. ACS Applied Energy Materials, 2021, 4, 3044-3056.	2.5	14
122	Isotopic quantum effects on the structure of low density amorphous ice. Journal of Physics Condensed Matter, 2003, 15, 3657-3664.	0.7	13
123	A neutron-X-ray, NMR and calorimetric study of glassy Probuocol synthesized using containerless techniques. Chemical Physics, 2013, 424, 89-92.	0.9	13
124	Medium range order and structural relaxation in As ^{III} Se network glasses through FSDP analysis. Materials Chemistry and Physics, 2015, 153, 432-442.	2.0	13
125	Advanced characterization technique for mechanochemically synthesized materials: neutron total scattering analysis. Journal of Materials Science, 2018, 53, 13400-13410.	1.7	13
126	Thermal expansion coefficients of high thermal conducting BAs and BP materials. Applied Physics Letters, 2019, 115, .	1.5	13

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145	Multiple scattering in synchrotron studies of disordered materials. Nuclear Instruments & Methods in Physics Research B, 1995, 95, 509-514.	0.6	8
146	Isotopic quantum effects in the structure of liquid methanol: I. Experiments with high-energy photon diffraction. Journal of Physics Condensed Matter, 2001, 13, 11405-11420.	0.7	8
147	Short-range and medium-range order in amorphous barium germanate. Journal of Non-Crystalline Solids, 2003, 320, 133-142.	1.5	8
148	Electrochemical Study and Material Characterization of $\text{SiO}_2 \cdot (1-x)\text{Sn}_{30}\text{Co}_{30}\text{C}_{40}$ Composite Anode Material for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A882-A887.	1.3	8
149	Reprobing the mechanism of negative thermal expansion in siliceous faujasite. RSC Advances, 2016, 6, 19903-19909.	1.7	8
150	A multiple length scale description of the mechanism of elastomer stretching. RSC Advances, 2016, 6, 95910-95919.	1.7	8
151	Multi-scale investigation of heterogeneous swift heavy ion tracks in stannate pyrochlore. Journal of Materials Chemistry A, 2021, 9, 16982-16997.	5.2	8
152	Local molecular environment drives speciation and reactivity of ion complexes in concentrated salt solution. Journal of Molecular Liquids, 2021, 340, 116898.	2.3	8
153	Amorphous silica studied by high energy X-ray diffraction. Nuclear Instruments & Methods in Physics Research B, 1995, 97, 162-165.	0.6	7
154	Molten barium titanate: a high-pressure liquid silicate analogue. Journal of Physics Condensed Matter, 2019, 31, 20LT01.	0.7	7
155	In Situ High-Temperature Synchrotron Diffraction Studies of $(\text{Fe,Cr,Al})_3\text{O}_4$ Spinels. Inorganic Chemistry, 2020, 59, 5949-5957.	1.9	7
156	EPMC versus RMC modelling: the structure of supercritical HCF3. Physica B: Condensed Matter, 2000, 276-278, 481-482.	1.3	6
157	A nanoscale ordered materials diffractometer for the SNS. Physica B: Condensed Matter, 2006, 385-386, 1066-1069.	1.3	6
158	Correlation between the local scale structure and the electrochemical properties in lithium orthosilicate cathode materials. Journal of Materials Chemistry A, 2014, 2, 17867-17874.	5.2	6
159	Local atomic structural investigations of precursory phenomenon of the hydrogen release from LiAlD_4 . Journal of Alloys and Compounds, 2014, 586, 244-247.	2.8	6
160	Mercury Sulfide Dimorphism in Thioarsenate Glasses. Journal of Physical Chemistry B, 2016, 120, 5278-5290.	1.2	6
161	Thermal defect annealing of swift heavy ion irradiated ThO_2 . Nuclear Instruments & Methods in Physics Research B, 2017, 405, 15-21.	0.6	6
162	Melting temperature measurement of refractory oxide ceramics as a function of oxygen fugacity using containerless methods. Journal of the American Ceramic Society, 2020, 103, 4867-4875.	1.9	6

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163	Evolving Differentiated Local Polar Displacement and Relaxor Behavior in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ "PbTiO ₃ Perovskites. Chemistry of Materials, 2022, 34, 3985-3992.	3.2	6
164	The "good," the "bad," and the "hidden" in neutron scattering and molecular dynamics of ionic aqueous solutions. Journal of Chemical Physics, 2022, 156, .	1.2	6
165	Isotopic effects in the structure of liquid methanol: II. Experimental data in Fourier space. Journal of Physics Condensed Matter, 2001, 13, 11421-11434.	0.7	5
166	Zeidler et al. Reply. Physical Review Letters, 2012, 108, .	2.9	5
167	Advanced Experimental Technique for Radiation Damage Effects in Nuclear Waste Forms: Neutron Total Scattering Analysis. MRS Advances, 2018, 3, 1735-1747.	0.5	5
168	Comparison of short-range order in irradiated dysprosium titanates. Npj Materials Degradation, 2021, 5, .	2.6	5
169	Temperature Dependent Local Atomic Structure and Vibrational Dynamics of Barium Hydride and Calcium Hydride. Journal of Physical Chemistry C, 2021, 125, 24328-24339.	1.5	5
170	New measurements of the coherent and incoherent neutron scattering lengths of ^{13}C . Journal of Physics Condensed Matter, 2008, 20, 045221.	0.7	4
171	Formalism for the determination of structural isotope effects with neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 257-259.	0.7	4
172	Strong correlations between vacancy and magnetic ordering in superconducting $\text{K}_{0.8}\text{Fe}_2\text{ySe}_2$. Physical Review B, 2016, 94, .	1.1	4
173	Time-of-flight neutron total scattering with applied electric fields: Ex situ and in situ studies of ferroelectric materials. Review of Scientific Instruments, 2018, 89, 092905.	0.6	4
174	Modified Bridgman anvils for high pressure synthesis and neutron scattering. High Pressure Research, 2019, 39, 426-437.	0.4	4
175	Evolution of the structural transition in $\text{W}_{1-x}\text{Mo}_x\text{Te}_2$. Physical Review B, 2020, 102, .	1.1	4
176	X-ray and neutron scattering measurements of ordering in a $\text{Cu}_{46}\text{Zr}_{54}$ liquid. Journal of Chemical Physics, 2020, 152, 164503.	1.2	4
177	Unprecedented lattice volume expansion on doping stereochemically active Pb^{2+} into uniaxially strained structure of $\text{CaBa}_{1-x}\text{Pb}_x\text{Zn}_2\text{Ga}_2\text{O}_7$. Nature Communications, 2020, 11, 1303.	5.8	4
178	Nematic fluctuations in iron-oxychalcogenide Mott insulators. Npj Quantum Materials, 2021, 6, .	1.8	4
179	Local ordering in disordered $\text{Nd}_{1-x}\text{Zr}_x\text{O}_{2-0.5}$ pyrochlore as observed using neutron total scattering. Acta Materialia, 2022, 225, 117590.	3.8	4
180	Octahedral oxide glass network in ambient pressure neodymium titanate. Scientific Reports, 2022, 12, 8258.	1.6	4

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181	Isotopic quantum effects in the structure of liquid ethanol. Canadian Journal of Physics, 2002, 80, 1059-1068.	0.4	3
182	X-ray diffraction studies on molten zinc bromide at high pressure. Journal of Non-Crystalline Solids, 2006, 352, 3210-3216.	1.5	3
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