

# 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	Local ordering in disordered Nd Zr <sub>1</sub> O <sub>2-0.5</sub> pyrochlore as observed using neutron total scattering. Acta Materialia, 2022, 225, 117590.	3.8	4
2	Structural analyses of amorphous calcium carbonate before and after removing strontium ions from an aqueous solution. Journal of the Ceramic Society of Japan, 2022, 130, 225-231.	0.5	3
3	Evolving Differentiated Local Polar Displacement and Relaxor Behavior in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> "PbTiO <sub>3</sub> Perovskites. Chemistry of Materials, 2022, 34, 3985-3992.	3.2	6
4	The nano- and meso-scale structure of amorphous calcium carbonate. Scientific Reports, 2022, 12, 6870.	1.6	19
5	Octahedral oxide glass network in ambient pressure neodymium titanate. Scientific Reports, 2022, 12, 8258.	1.6	4
6	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
7	The "good," "bad," and the "hidden" in neutron scattering and molecular dynamics of ionic aqueous solutions. Journal of Chemical Physics, 2022, 156, .	1.2	6
8	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
9	Multi-scale investigation of heterogeneous swift heavy ion tracks in stannate pyrochlore. Journal of Materials Chemistry A, 2021, 9, 16982-16997.	5.2	8
10	Nematic fluctuations in iron-oxychalcogenide Mott insulators. Npj Quantum Materials, 2021, 6, .	1.8	4
11	Complex Structure of Molten NaCl-CrCl <sub>3</sub> Salt: Cr-Cl Octahedral Network and Intermediate-Range Order. ACS Applied Energy Materials, 2021, 4, 3044-3056.	2.5	14
12	Comparison of short-range order in irradiated dysprosium titanates. Npj Materials Degradation, 2021, 5, .	2.6	5
13	Spinon Fermi Surface Spin Liquid in a Triangular Lattice Antiferromagnet $\text{NaYbSe}_2$ Physical Review X, 2021, 11, .	2.8	12
14	Thermodynamic non-ideality and disorder heterogeneity in actinide silicate solid solutions. Npj Materials Degradation, 2021, 5, .	2.6	9
15	Experimental method to quantify the ring size distribution in silicate glasses and simulation validation thereof. Science Advances, 2021, 7, .	4.7	36
16	In-plane magnetic structure and exchange interactions in the high-temperature antiferromagnet Cr <sub>2</sub> Al. Physical Review Materials, 2021, 5, .	0.9	1
17	Local molecular environment drives speciation and reactivity of ion complexes in concentrated salt solution. Journal of Molecular Liquids, 2021, 340, 116898.	2.3	8
18	Structural units of binary vanadate glasses by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2021, 572, 121120.	1.5	10

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19	Temperature Dependent Local Atomic Structure and Vibrational Dynamics of Barium Hydride and Calcium Hydride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24328-24339.	1.5	5
20	Disorder in $\text{Ho}_2\text{Ti}_2\text{Zr}_x\text{O}_7$ : pyrochlore to defect fluorite solid solution series. <i>RSC Advances</i> , 2020, 10, 34632-34650.	1.7	31
21	Charge density modulation and defect ordering in the $\text{Na}_x\text{Mg}_{1-x}\text{Mn}_2\text{O}_4$ magnetic semimetal. <i>Physical Review B</i> , 2020, 102, .		
22	Local order of orthorhombic weberite-type $\text{Y}_3\text{TaO}_7$ as determined by neutron total scattering and density functional theory calculations. <i>Acta Materialia</i> , 2020, 196, 704-709.	3.8	16
23	Experimental and computational studies of melting of the spinel phase in the $\text{Fe-Al-O}$ ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 70, 101798.	0.7	2
24	Predicting short-range order and correlated phenomena in disordered crystalline materials. <i>Science Advances</i> , 2020, 6, eabc2758.	4.7	28
25	Evolution of the structural transition in $\text{W}_x\text{Mo}_{1-x}\text{Te}_2$ . <i>Physical Review B</i> , 2020, 102, .		
26	X-ray and neutron scattering measurements of ordering in a $\text{Cu}_{46}\text{Zr}_{54}$ liquid. <i>Journal of Chemical Physics</i> , 2020, 152, 164503.	1.2	4
27	Melting temperature measurement of refractory oxide ceramics as a function of oxygen fugacity using containerless methods. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4867-4875.	1.9	6
28	The structure of molten $\text{FLiNaK}$ . <i>Journal of Nuclear Materials</i> , 2020, 537, 152219.	1.3	31
29	Unprecedented lattice volume expansion on doping stereochemically active $\text{Pb}^{2+}$ into uniaxially strained structure of $\text{CaBa}_{1-x}\text{Pb}_x\text{Zn}_2\text{Ga}_2\text{O}_7$ . <i>Nature Communications</i> , 2020, 11, 1303.	5.8	4
30	Characterization of Radiation Effects and Ion Tracks with Spallation Neutron Probes. <i>Nuclear Physics News</i> , 2020, 30, 16-19.	0.1	1
31	In Situ High-Temperature Synchrotron Diffraction Studies of $(\text{Fe,Cr,Al})_3\text{O}_4$ Spinels. <i>Inorganic Chemistry</i> , 2020, 59, 5949-5957.	1.9	7
32	Molecular origins of bulk viscosity in liquid water. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9494-9502.	1.3	11
33	Temperature-induced structural change through the glass transition of silicate glass by neutron diffraction. <i>Physical Review B</i> , 2020, 101, .	1.1	10
34	Method Development for High Temperature In-Situ Neutron Diffraction Measurements of Glass Crystallization on Cooling from Melt. <i>MRS Advances</i> , 2019, 4, 1009-1019.	0.5	0
35	Thermal expansion coefficients of high thermal conducting BAs and BP materials. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	13
36	Framework Doping of Ni Enhances Pseudocapacitive Na-Ion Storage of $(\text{Ni})\text{MnO}_2$ Layered Birnessite. <i>Chemistry of Materials</i> , 2019, 31, 8774-8786.	3.2	51

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37	Entropic elasticity and negative thermal expansion in a simple cubic crystal. <i>Science Advances</i> , 2019, 5, eaay2748.	4.7	28
38	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <i>Nature Communications</i> , 2019, 10, 4975.	5.8	75
39	Average Structure, Local Structure, Photoluminescence, and NLO Properties of Scheelite Type NaCe(WO <sub>4</sub> ) <sub>2</sub> . <i>Crystal Growth and Design</i> , 2019, 19, 6082-6091.	1.4	10
40	Thermodynamic and structural evolution of mechanically milled and swift heavy ion irradiated Er <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore. <i>Acta Materialia</i> , 2019, 181, 309-317.	3.8	16
41	Diffusion-free Grotthuss topochemistry for high-rate and long-life proton batteries. <i>Nature Energy</i> , 2019, 4, 123-130.	19.8	446
42	Low Temperature Pyrolyzed Soft Carbon as High Capacity K-Ion Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 4053-4058.	2.5	44
43	Modified Bridgman anvils for high pressure synthesis and neutron scattering. <i>High Pressure Research</i> , 2019, 39, 426-437.	0.4	4
44	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
45	Incommensurate Magnetism Near Quantum Criticality in CeNiAsO. <i>Physical Review Letters</i> , 2019, 122, 197203.	2.9	3
46	The Structure of Amorphous and Deeply Supercooled Liquid Alumina. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	51
47	Molten barium titanate: a high-pressure liquid silicate analogue. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 20LT01.	0.7	7
48	Reply to comments on "Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses, <i>Acta Materialia</i> , 149, 108 (2018)" Scripta Materialia, 2019, 163, 168-169.	2.6	0
49	Structure origin of a transition of classic-to-avalanche nucleation in Zr-Cu-Al bulk metallic glasses. <i>Acta Materialia</i> , 2018, 149, 108-118.	3.8	49
50	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
51	Phase stability and transformation in a light-weight high-entropy alloy. <i>Acta Materialia</i> , 2018, 146, 280-293.	3.8	131
52	Adaptive strain prompting a pseudo-morphotropic phase boundary in ferroelectric (1-x)Tm <sub>1-x</sub> Er <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , 2018, 97, .	1.1	20
53	Advanced characterization technique for mechanochemically synthesized materials: neutron total scattering analysis. <i>Journal of Materials Science</i> , 2018, 53, 13400-13410.	1.7	13
54	Advanced Experimental Technique for Radiation Damage Effects in Nuclear Waste Forms: Neutron Total Scattering Analysis. <i>MRS Advances</i> , 2018, 3, 1735-1747.	0.5	5

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55	Similar local order in disordered fluorite and aperiodic pyrochlore structures. <i>Acta Materialia</i> , 2018, 144, 60-67.	3.8	60
56	Nanostructured Na <sub>2</sub> Ti <sub>9</sub> O <sub>19</sub> for Hybrid Sodium-Ion Capacitors with Excellent Rate Capability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 437-447.	4.0	63
57	Phase transformations in oxides above 2000°C: experimental technique development. <i>Advances in Applied Ceramics</i> , 2018, 117, s82-s89.	0.6	11
58	Charge transfer drives anomalous phase transition in ceria. <i>Nature Communications</i> , 2018, 9, 5063.	5.8	48
59	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
60	Impact of Average, Local, and Electronic Structure on Visible Light Photocatalysis in Novel BiREWO <sub>6</sub> (RE = Eu and Tb) Nanomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35876-35887.	4.0	15
61	Time-of-flight neutron total scattering with applied electric fields: Ex situ and in situ studies of ferroelectric materials. <i>Review of Scientific Instruments</i> , 2018, 89, 092905.	0.6	4
62	Decoding Oxyanion Aqueous Solvation Structure: A Potassium Nitrate Example at Saturation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7584-7589.	1.2	14
63	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
64	Precise implications for real-space pair distribution function modeling of effects intrinsic to modern time-of-flight neutron diffractometers. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 293-307.	0.0	31
65	Defective Hard Carbon Anode for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 4536-4542.	3.2	158
66	Amorphous tantalum and its relationship with the molten state. <i>Physical Review Materials</i> , 2018, 2, .	0.9	21
67	Pressure-induced fcc to hcp phase transition in Ni-based high entropy solid solution alloys. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	62
68	Synthesis and structure of synthetically pure and deuterated amorphous (basic) calcium carbonates. <i>Chemical Communications</i> , 2017, 53, 2942-2945.	2.2	28
69	Bi <sub>4</sub> TaO <sub>8</sub> Cl Nano-Photocatalyst: Influence of Local, Average, and Band Structure. <i>Inorganic Chemistry</i> , 2017, 56, 5525-5536.	1.9	37
70	Mechanism of Na <sup>+</sup> Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. <i>Advanced Energy Materials</i> , 2017, 7, 1602894.	10.2	332
71	Thermal defect annealing of swift heavy ion irradiated ThO <sub>2</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 405, 15-21.	0.6	6
72	Structural water engaged disordered vanadium oxide nanosheets for high capacity aqueous potassium-ion storage. <i>Nature Communications</i> , 2017, 8, 15520.	5.8	121

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73	Defect accumulation in swift heavy ion-irradiated CeO <sub>2</sub> and ThO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 12193-12201.	5.2	36
74	Atomic-level structural correlations across the morphotropic phase boundary of a ferroelectric solid solution: xBiMg <sub>1/2</sub> Ti <sub>1/2</sub> O <sub>3</sub> -(1-x)PbTiO <sub>3</sub> . Scientific Reports, 2017, 7, 471.	1.6	20
75	Role of Short-Range Chemical Ordering in (GaN) <sub>1-x</sub> (ZnO) <sub>x</sub> for Photodriven Oxygen Evolution. Chemistry of Materials, 2017, 29, 6525-6535.	3.2	17
76	Favorable Concurrence of Static and Dynamic Phenomena at the Morphotropic Phase Boundary of xBiNi <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>3-x</sub> (1-x)PbTiO <sub>3</sub> . Physical Review Letters, 2017, 119, 207604.	2.9	18
77	Inversion in Mg <sub>1-x</sub> Ni <sub>x</sub> Al <sub>2</sub> O <sub>4</sub> Spinel: New Insight into Local Structure. Journal of the American Chemical Society, 2017, 139, 10395-10402.	6.6	50
78	Local Structure and Short-Range Order in a NiCoCr Solid Solution Alloy. Physical Review Letters, 2017, 118, 205501.	2.9	283
79	The Structure of Liquid and Amorphous Hafnia. Materials, 2017, 10, 1290.	1.3	31
80	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
81	Mercury Sulfide Dimorphism in Thioarsenate Glasses. Journal of Physical Chemistry B, 2016, 120, 5278-5290.	1.2	6
82	Reprobing the mechanism of negative thermal expansion in siliceous faujasite. RSC Advances, 2016, 6, 19903-19909.	1.7	8
83	Odd-Even Structural Sensitivity on Dynamics in Network-Forming Ionic Liquids. Chemistry of Materials, 2016, 28, 3227-3233.	3.2	14
84	A SAXS-WAXS study of the endothermic transitions in amorphous or supercooled liquid itraconazole. Thermochimica Acta, 2016, 644, 1-5.	1.2	11
85	Strong correlations between vacancy and magnetic ordering in superconducting K <sub>0.8</sub> Fe <sub>2</sub> Se <sub>2</sub> . Physical Review B, 2016, 94, .	1.1	4
86	X-ray and neutron total scattering analysis of H <sub>y</sub> Å(Bi <sub>0.2</sub> Ca <sub>0.55</sub> Sr <sub>0.25</sub> )(Ag <sub>0.25</sub> Na <sub>0.75</sub> )Nb <sub>z</sub> perovskite nanosheet booklets with stacking disorder. Powder Diffraction, 2016, 31, 126-134.		
87	Structural transition and orbital glass physics in near-itinerant CoV <sub>2</sub> O <sub>4</sub> . Physical Review B, 2016, 93, .	1.1	25
88	Measurements of structural and chemical order in $Zr_{1-x}P_x$ orthorhombic $Zr_{1-x}P_x$	1.1	26
89	Measurements of structural and chemical order in $Dy_{1-x}Ti_xO_{5-x}$	1.1	3
90	A multiple length scale description of the mechanism of elastomer stretching. RSC Advances, 2016, 6, 95910-95919.	1.7	8

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91	Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na <sub>3</sub> OBr and Na <sub>4</sub> OI <sub>2</sub> : An <i>in Situ</i> Neutron Diffraction Study. <i>Inorganic Chemistry</i> , 2016, 55, 5993-5998.	1.9	68
92	Structure and Reactivity of X-ray Amorphous Uranyl Peroxide, U <sub>2</sub> O <sub>7</sub> . <i>Inorganic Chemistry</i> , 2016, 55, 3541-3546.	1.9	50
93	Probing disorder in isometric pyrochlore and related complex oxides. <i>Nature Materials</i> , 2016, 15, 507-511.	13.3	164
94	Note: Detector collimators for the nanoscale ordered materials diffractometer instrument at the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2015, 86, 096105.	0.6	1
95	Structure and Thermal Expansion of YSZ and La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Above 1500°C from Neutron Diffraction on Levitated Samples. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3381-3388.	1.9	28
96	Average and Local Crystal Structures of (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Solid Solution Nanoparticles. <i>Inorganic Chemistry</i> , 2015, 54, 11226-11235.	1.9	15
97	Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts: Structural and Electrochemical Studies. <i>Inorganic Chemistry</i> , 2015, 54, 2128-2136.	1.9	97
98	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
99	Medium range order and structural relaxation in As <sup>Se</sup> network glasses through FSDP analysis. <i>Materials Chemistry and Physics</i> , 2015, 153, 432-442.	2.0	13
100	Intricate Short-Range Ordering and Strongly Anisotropic Transport Properties of Li <sub>1-x</sub> Sn <sub>2+x</sub> As <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 3622-3630.	6.6	37
101	A New Molybdenum Nitride Catalyst with Rhombohedral MoS <sub>2</sub> Structure for Hydrogenation Applications. <i>Journal of the American Chemical Society</i> , 2015, 137, 4815-4822.	6.6	195
102	Density driven structural transformations in amorphous semiconductor clathrates. <i>Applied Physics Letters</i> , 2015, 106, 021911.	1.5	1
103	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle Y \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mo} \rangle \hat{a} \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle$ Effects of doping on orbital ordering. <i>Physical Review B</i> , 2014, 90, .		
104	<i>in-situ</i> study of crystallization kinetics in ternary bulk metallic glass alloys with different glass forming abilities. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	31
105	The structure of water around the compressibility minimum. <i>Journal of Chemical Physics</i> , 2014, 141, 214507.	1.2	132
106	Effect of poling on nanodomains and nanoscale structure in A-site disordered lead-free piezoelectric Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> BaTiO <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , 2014, 2, 8423-8431.	2.7	75
107	Correlation between the local scale structure and the electrochemical properties in lithium orthosilicate cathode materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17867-17874.	5.2	6
108	Polymorphism in Photoluminescent KNdW <sub>2</sub> O <sub>8</sub> : Synthesis, Neutron Diffraction, and Raman Study. <i>Crystal Growth and Design</i> , 2014, 14, 835-843.	1.4	12

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109	Low Cation Coordination in Oxide Melts. <i>Physical Review Letters</i> , 2014, 112, 157801.	2.9	62
110	Local atomic structural investigations of precursory phenomenon of the hydrogen release from LiAlD <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2014, 586, 244-247.	2.8	6
111	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
112	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
113	A neutron-X-ray, NMR and calorimetric study of glassy Probuocol synthesized using containerless techniques. <i>Chemical Physics</i> , 2013, 424, 89-92.	0.9	13
114	Crystal and Magnetic Structures and Physical Properties of a New Pyroxene NaMnGe <sub>2</sub> O <sub>6</sub> Synthesized under High Pressure. <i>Journal of the American Chemical Society</i> , 2013, 135, 2776-2786.	6.6	23
115	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. <i>Journal of the Electrochemical Society</i> , 2013, 160, A882-A887.	1.3	8
116	Structural Characterization and Aging of Glassy Pharmaceuticals made Using Acoustic Levitation. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1290-1300.	1.6	46
117	The hybrid lattice of $\text{KxFe}_2\text{ySe}_2$ : where superconductivity and magnetism coexist. <i>Scientific Reports</i> , 2013, 3, 2047.	1.6	14
118	The bound coherent neutron scattering lengths of the oxygen isotopes. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 505105.	0.7	9
119	Zeidler et al. Reply. <i>Physical Review Letters</i> , 2012, 108, .	2.9	5
120	Isotope effects in water as investigated by neutron diffraction and path integral molecular dynamics. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284126.	0.7	47
121	Structure of Molten $\text{CaSiO}_3$ : Neutron Diffraction Isotope Substitution with Aerodynamic Levitation and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13439-13447.	1.2	56
122	A green-yellow emitting oxyfluoride solid solution phosphor $\text{Sr}_2\text{Ba}(\text{AlO}_4\text{F})_{1-x}(\text{SiO}_5)_x:\text{Ce}^{3+}$ for thermally stable, high color rendition solid state white lighting. <i>Journal of Materials Chemistry</i> , 2012, 22, 18204.	6.7	105
123	The Nanoscale Ordered Materials Diffractometer NOMAD at the Spallation Neutron Source SNS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 287, 68-75.	0.6	308
124	More accurate X-ray scattering data of deeply supercooled bulk liquid water. <i>Molecular Physics</i> , 2011, 109, 279-288.	0.8	41
125	Instrumentation for structure measurements on highly non-equilibrium materials. <i>Diamond Light Source Proceedings</i> , 2011, 1, .	0.1	1
126	Oxygen as a Site Specific Probe of the Structure of Water and Oxide Materials. <i>Physical Review Letters</i> , 2011, 107, 145501.	2.9	51



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127	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
128	Acoustic levitator for structure measurements on low temperature liquid droplets. Review of Scientific Instruments, 2009, 80, 083904.	0.6	66
129	The structure of liquid carbon dioxide and carbon disulfide. Journal of Chemical Physics, 2009, 130, 174503.	1.2	15
130	New measurements of the coherent and incoherent neutron scattering lengths of $^{13}\text{C}$ . Journal of Physics Condensed Matter, 2008, 20, 045221.	0.7	4
131	Nearest-neighbor coordination and chemical ordering in multicomponent bulk metallic glasses. Applied Physics Letters, 2007, 90, 211908.	1.5	46
132	Isotope quantum effects in water around the freezing point. Journal of Chemical Physics, 2006, 124, 134505.	1.2	30
133	X-ray diffraction studies on molten zinc bromide at high pressure. Journal of Non-Crystalline Solids, 2006, 352, 3210-3216.	1.5	3
134	A nanoscale ordered materials diffractometer for the SNS. Physica B: Condensed Matter, 2006, 385-386, 1066-1069.	1.3	6
135	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. Physica B: Condensed Matter, 2006, 385-386, 955-960.	1.3	163
136	Comment on "Nature of the Polyamorphic Transition in Ice under Pressure". Physical Review Letters, 2006, 96, 149601; discussion 149602.	2.9	11
137	Adding a Length Scale to the Polyamorphic Ice Debate. Physical Review Letters, 2006, 97, 115503.	2.9	25
138	Apples to Apples: A Comparison of Lanthanide $\text{D}_{12}$ -Diketonate Complexes in Molecular Solvents and an Ionic Liquid. ACS Symposium Series, 2005, , 18-31.	0.5	11
139	Determination of actinide speciation in solution using high-energy X-ray scattering. Analytical and Bioanalytical Chemistry, 2005, 383, 48-55.	1.9	106
140	The Spallation Neutron Source: A Powerful Tool for Materials Research. AIP Conference Proceedings, 2005, , .	0.3	22
141	High-energy X-ray diffraction study of Ni-doped sodium metaphosphate glasses. Journal of Non-Crystalline Solids, 2005, 351, 1014-1019.	1.5	9
142	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
143	Temperature Dependence of Isotopic Quantum Effects in Water. Physical Review Letters, 2005, 94, 047801.	2.9	79
144	Structure of zinc and niobium tellurite glasses by neutron and x-ray diffraction. Journal of Physics Condensed Matter, 2004, 16, 1645-1663.	0.7	72

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146	Structure of Zr <sub>52</sub> Ti <sub>5</sub> Cu <sub>18</sub> Ni <sub>15</sub> Al <sub>10</sub> Bulk Metallic Glass at Elevated Temperatures. Materials Science Forum, 2004, 443-444, 227-232.	0.3	2
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