Anita Zeidler

List of Publications by Year
in descending order

51 papers	1,688 citations	304602 22 h-index	289141 40 g-index
52 all docs	52 docs citations	52 times ranked	1841 citing authors

#	Article	IF	Citations
1	Molecular Origins of Optoelectronic Properties in Coumarin Dyes: Toward Designer Solar Cell and Laser Applications. Journal of Physical Chemistry A, 2012, 116, 727-737.	1.1	244
2	Generation and evaluation of dimension-reduced amino acid parameter representations by artificial neural networks. Journal of Molecular Modeling, 2001, 7, 360-369.	0.8	223
3	High-Pressure Transformation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:m from a Tetrahedral to an Octahedral Network: A Joint Approach Using Neutron Diffraction and Molecular Dynamics. Physical Review Letters, 2014, 113, 135501.	2.9	112
4	Packing and the structural transformations in liquid and amorphous oxides from ambient to extreme conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10045-10048.	3.3	74
5	Structure of liquid and glassy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnCl</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:ma Physical Review B, 2010, 82, .	3.7	62
6	Networks under pressure: the development ofin situhigh-pressure neutron diffraction for glassy and liquid materials. Journal of Physics Condensed Matter, 2015, 27, 133201.	0.7	61
7	Establishing the structure of GeS₂at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. Journal of Physics Condensed Matter, 2009, 21, 474217.	0.7	59
8	Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, .	3.8	57
9	Structural Transformations on Vitrification in the Fragile Glass-Forming System<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaAl</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 235501.	2.9	53
10	Oxygen as a Site Specific Probe of the Structure of Water and Oxide Materials. Physical Review Letters, 2011, 107, 145501.	2.9	51
11	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
12	Density-driven structural transformations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>glass. Physical Review B, 2014, 90, .	1.1	47
13	Density-driven structural transformations in network forming glasses: a high-pressure neutron diffraction study of GeO₂glass up to 17.5 GPa. Journal of Physics Condensed Matter, 2012, 24, 415102.	0.7	45
14	Identifying and characterising the different structural length scales in liquids and glasses: an experimental approach. Physical Chemistry Chemical Physics, 2013, 15, 15286.	1.3	45
15	Pressure-driven transformation of the ordering in amorphous network-forming materials. Physical Review B, 2016, 93, .	1.1	45
16	Structure of eutectic liquids in the Au-Si, Au-Ge, and Ag-Ge binary systems by neutron diffraction. Physical Review B, 2011, 83, .	1.1	44
17	Mechanisms of network collapse in GeO₂glass: high-pressure neutron diffraction with isotope substitution as arbitrator of competing models. Journal of Physics Condensed Matter, 2012, 24, 502101.	0.7	35
18	Partial structure investigation of the traditional bulk metallic glass <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pd</mml:mi><mml:mn>40</mml:mn></mml:mrow><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:mn>20</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	31

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19	Density-driven defect-mediated network collapse of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">GeSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>glass. Physical Review B, 2014, 90, .	1.1	30
20	Topological Ordering and Viscosity in the Glass-Forming Geâ€“Se System: The Search for a Structural or Dynamical Signature of the Intermediate Phase. Frontiers in Materials, 2017, 4, .	1.2	28
21	Ordering on different length scales in liquid and amorphous materials. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 114006.	0.9	25
22	Pressure-induced structural changes in the network-forming isostatic glass<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GeSe</mml:mi><mml:mn>4</mml:mn></mml:msub></mm An investigation by neutron diffraction and first-principles molecular dynamics. Physical Review B, 2016, 93, .	1.1	24
23	Structural properties of liquid Ge<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>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: A first-principles study. Physical Review B, 2011, 84, .	1.1	22
24	Pressure induced structural transformations in amorphous MgSiO3 and CaSiO3. Journal of Non-Crystalline Solids: X, 2019, 3, 100024.	0.5	22
25	Structure of the network glass-former ZnCl 2 : From the boiling point to the glass. Journal of Non-Crystalline Solids, 2015, 407, 235-245.	1.5	21
26	Specific heat capacity measurement of Phyllostachys edulis (Moso bamboo) by differential scanning calorimetry. Construction and Building Materials, 2016, 125, 821-831.	3.2	19
27	Material Profiling for Photocrystallography: Relating Single-Crystal Photophysical and Structural Properties of Luminescent Bis-Cyclometalated Iridium-Based Complexes. Crystal Growth and Design, 2013, 13, 1826-1837.	1.4	13
28	Structure of the Intermediate Phase Glasses GeSe3 and GeSe4: The Deployment of Neutron Diffraction With Isotope Substitution. Frontiers in Materials, 2019, 6, .	1.2	12
29	Structure of semiconducting versus fast-ion conducting glasses in the Agâ€“Geâ€“Se system. Royal Society Open Science, 2018, 5, 171401.	1.1	10
30	The bound coherent neutron scattering lengths of the oxygen isotopes. Journal of Physics Condensed Matter, 2012, 24, 505105.	0.7	9
31	Optimizing the counting times for sample-in-container scattering experiments. Journal of Applied Crystallography, 2016, 49, 2249-2251.	1.9	9
32	Structure and dynamics of aqueous NaCl solutions at high temperatures and pressures. Journal of Chemical Physics, 2021, 155, 194506.	1.2	9
33	X-ray and neutron attenuation correction factors for spherical samples. Journal of Applied Crystallography, 2012, 45, 122-123.	1.9	8
34	Structure of praseodymium and neodymium gallate glasses. Journal of Non-Crystalline Solids, 2011, 357, 2511-2515.	1.5	7
35	A partial structure factor investigation of the bulk metallic glass Zr₆₃Ni₂₅Al₁₂ as studied by using a combination of anomalous X-ray scattering and reverse Monte Carlo modeling. International Journal of Materials Research, 2012, 103, 1108-1112.	0.1	7
36	Pressure-dependent structure of the null-scattering alloy Ti_{0.676}Zr_{0.324}. High Pressure Research, 2015, 35, 239-246.	0.4	7

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37	Structure of crystalline and amorphous materials in the NASICON system Na1+xAlxGe2â^'x(PO4)3. Journal of Chemical Physics, 2021, 155, 074501.	1.2	7
38	Structural model for amorphous aluminosilicates. Journal of Chemical Physics, 2022, 156, 064503.	1.2	7
39	Structure of amorphous GeSe9 by neutron diffraction and first-principles molecular dynamics: Impact of trajectory sampling and size effects. Journal of Chemical Physics, 2016, 145, 084502.	1.2	6
40	Structure of Glassy Agâ€"Geâ€"Se by Neutron Diffraction with Isotope Substitution. Zeitschrift Fur Physikalische Chemie, 2016, 230, 417-432.	1.4	6
41	Structure of Asâ€"Se glasses by neutron diffraction with isotope substitution. Journal of Chemical Physics, 2020, 153, 154507.	1.2	6
42	ZeidleretÂal.Reply:. Physical Review Letters, 2012, 108, .	2.9	5
43	Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. Journal of Physics Condensed Matter, 2017, 29, 225703.	0.7	5
44	Materials under pressure. MRS Bulletin, 2017, 42, 710-713.	1.7	5
45	Detailed structural analysis of amorphous Pd40Cu40P20: Comparison with the metallic glass Pd40Ni40P20 from the viewpoint of glass forming ability. Journal of Non-Crystalline Solids, 2021, 555, 120536.	1.5	5
46	Neutron diffraction as a probe of liquid and glass structures under extreme conditions. Neutron News, 2016, 27, 22-26.	0.1	3
47	Many-body effects at the origin of structural transitions in B2O3. Journal of Chemical Physics, 2019, 151, 224508.	1.2	3
48	Topological Analysis of Void Spaces in Tungstate Frameworks: Assessing Storage Properties for the Environmentally Important Guest Molecules and Ions: CO₂, UO₂, PuO₂, U, Pu, Sr²⁺, Cs⁺, CH₄, and H₂. ACS Sustainable Chemistry and Engineering, 2015, 3, 2112-2129.	3.2	2
49	Structure Determination in a New Class of Amorphous Cluster Compounds with Extreme Nonlinear Optical Properties. Journal of the Physical Society of Japan, 2022, 91, .	0.7	2
50	High-pressure neutron diffraction apparatus for investigating the structure of liquids under hydrothermal conditions. High Pressure Research, 2017, 37, 529-544.	0.4	1
51	The Atomic-Scale Structure of Network Glass-Forming Materials. Springer Series in Materials Science, 2015, , 1-31.	0.4	1