Anita Zeidler

List of Publications by Year in Descending Order

50 papers	1,288 citations	20 h-index	35 g-index
52 ext. papers	1,494 ext. citations	3.6 avg, IF	4.42 L-index

#	Paper	IF	Citations
50	Structural model for amorphous aluminosilicates.. *Journal of Chemical Physics*, **2022**, 156, 064503	3.9	1
49	Structure and dynamics of aqueous NaCl solutions at high temperatures and pressures. *Journal of Chemical Physics*, **2021**, 155, 194506	3.9	1
48	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	3.9	1
47	Structure of crystalline and amorphous materials in the NASICON system NaAlGe(PO). *Journal of Chemical Physics*, **2021**, 155, 074501	3.9	2
46	Structure and properties of densified silica glass: characterizing the order within disorder. *NPG Asia Materials*, **2020**, 12,	10.3	19
45	Structure of As-Se glasses by neutron diffraction with isotope substitution. *Journal of Chemical Physics*, **2020**, 153, 154507	3.9	2
44	Partial structure investigation of the traditional bulk metallic glass Pd40Ni40P20. *Physical Review B*, **2019**, 100,	3.3	15
43	Structure of the Intermediate Phase Glasses GeSe3 and GeSe4: The Deployment of Neutron Diffraction With Isotope Substitution. *Frontiers in Materials*, **2019**, 6,	4	4
42	Pressure induced structural transformations in amorphous MgSiO3 and CaSiO3. *Journal of Non-Crystalline Solids: X*, **2019**, 3, 100024	2.5	11
41	Many-body effects at the origin of structural transitions in BO. *Journal of Chemical Physics*, **2019**, 151, 224508	3.9	0
40	Ordering on different length scales in liquid and amorphous materials. *Journal of Statistical Mechanics: Theory and Experiment*, **2019**, 2019, 114006	1.9	14
39	Structure of semiconducting versus fast-ion conducting glasses in the Ag-Ge-Se system. *Royal Society Open Science*, **2018**, 5, 171401	3.3	5
38	Structure of rare-earth chalcogenide glasses by neutron and x-ray diffraction. *Journal of Physics Condensed Matter*, **2017**, 29, 225703	1.8	3
37	Materials under pressure. *MRS Bulletin*, **2017**, 42, 710-713	3.2	5
36	High-pressure neutron diffraction apparatus for investigating the structure of liquids under hydrothermal conditions. *High Pressure Research*, **2017**, 37, 529-544	1.6	1
35	Topological Ordering and Viscosity in the Glass-Forming GeSe System: The Search for a Structural or Dynamical Signature of the Intermediate Phase. *Frontiers in Materials*, **2017**, 4,	4	20
34	Specific heat capacity measurement of Phyllostachys edulis (Moso bamboo) by differential scanning calorimetry. *Construction and Building Materials*, **2016**, 125, 821-831	6.7	16

33	Pressure-induced structural changes in the network-forming isostatic glass GeSe4: An investigation by neutron diffraction and first-principles molecular dynamics. *Physical Review B*, **2016**, 93,	3.3	22
32	Pressure-driven transformation of the ordering in amorphous network-forming materials. *Physical Review B*, **2016**, 93,	3.3	35
31	Structure of Glassy Ag□eSe by Neutron Diffraction with Isotope Substitution. *Zeitschrift Fur Physikalische Chemie*, **2016**, 230, 417-432	3.1	4
30	Optimizing the counting times for sample-in-container scattering experiments. *Journal of Applied Crystallography*, **2016**, 49, 2249-2251	3.8	8
29	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	3.9	6
28	Neutron diffraction as a probe of liquid and glass structures under extreme conditions. *Neutron News*, **2016**, 27, 22-26	0.4	1
27	Networks under pressure: the development of in situ high-pressure neutron diffraction for glassy and liquid materials. *Journal of Physics Condensed Matter*, **2015**, 27, 133201	1.8	50
26	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	8.3	2
25	Structure of the network glass-former ZnCl2: From the boiling point to the glass. *Journal of Non-Crystalline Solids*, **2015**, 407, 235-245	3.9	15
24	Pressure-dependent structure of the null-scattering alloy Ti0.676 Zr0.324. *High Pressure Research*, **2015**, 35, 239-246	1.6	6
23	The Atomic-Scale Structure of Network Glass-Forming Materials. *Springer Series in Materials Science*, **2015**, 1-31	0.9	1
22	Density-driven defect-mediated network collapse of GeSe2 glass. *Physical Review B*, **2014**, 90,	3.3	27
21	High-pressure transformation of SiO□glass from a tetrahedral to an octahedral network: a joint approach using neutron diffraction and molecular dynamics. *Physical Review Letters*, **2014**, 113, 135501	7.4	85
20	Density-driven structural transformations in B2O3 glass. *Physical Review B*, **2014**, 90,	3.3	42
19	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, 10045-8	11.5	58
18	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	3.5	11
17	Identifying and characterising the different structural length scales in liquids and glasses: an experimental approach. *Physical Chemistry Chemical Physics*, **2013**, 15, 15286-308	3.6	36
16	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	0.5	6

15	Density-driven structural transformations in network forming glasses: a high-pressure neutron diffraction study of GeO2 glass up to 17.5 GPa. *Journal of Physics Condensed Matter*, **2012**, 24, 415102	1.8	39
14	Molecular origins of optoelectronic properties in coumarin dyes: toward designer solar cell and laser applications. *Journal of Physical Chemistry A*, **2012**, 116, 727-37	2.8	190
13	X-ray and neutron attenuation correction factors for spherical samples. *Journal of Applied Crystallography*, **2012**, 45, 122-123	3.8	7
12	Mechanisms of network collapse in GeO2 glass: high-pressure neutron diffraction with isotope substitution as arbitrator of competing models. *Journal of Physics Condensed Matter*, **2012**, 24, 502101	1.8	31
11	The bound coherent neutron scattering lengths of the oxygen isotopes. *Journal of Physics Condensed Matter*, **2012**, 24, 505105	1.8	8
10	Zeidler et al. Reply:. *Physical Review Letters*, **2012**, 108,	7.4	5
9	Structural transformations on vitrification in the fragile glass-forming system CaAl2O4. *Physical Review Letters*, **2012**, 109, 235501	7.4	45
8	Isotope effects in water as investigated by neutron diffraction and path integral molecular dynamics. *Journal of Physics Condensed Matter*, **2012**, 24, 284126	1.8	44
7	Structure of praseodymium and neodymium gallate glasses. *Journal of Non-Crystalline Solids*, **2011**, 357, 2511-2515	3.9	7
6	Structural properties of liquid Ge2Se3: A first-principles study. *Physical Review B*, **2011**, 84,	3.3	21
5	Oxygen as a site specific probe of the structure of water and oxide materials. *Physical Review Letters*, **2011**, 107, 145501	7.4	46
4	Structure of eutectic liquids in the Au-Si, Au-Ge, and Ag-Ge binary systems by neutron diffraction. *Physical Review B*, **2011**, 83,	3.3	39
3	Structure of liquid and glassy ZnCl2. *Physical Review B*, **2010**, 82,	3.3	58
2	Establishing the structure of GeS(2) at high pressures and temperatures: a combined approach using x-ray and neutron diffraction. *Journal of Physics Condensed Matter*, **2009**, 21, 474217	1.8	53
1	Generation and evaluation of dimension-reduced amino acid parameter representations by artificial neural networks. *Journal of Molecular Modeling*, **2001**, 7, 360-369	2	154