

# Reinhard B Neder

## List of Publications by Year in descending order

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35  
papers

1,095  
citations

471509

17  
h-index

434195

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient solution of particle shape functions for the analysis of powder total scattering data. <i>Journal of Applied Crystallography</i> , 2022, 55, 329-339.	4.5	2
2	Crystal-structure of active layers of small molecule organic photovoltaics before and after solvent vapor annealing. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2020, 235, 15-28.	0.8	6
3	Exact and fast calculation of the X-ray pair distribution function. <i>Journal of Applied Crystallography</i> , 2020, 53, 710-721.	4.5	15
4	New zeolite-like RUB-5 and its related hydrous layer silicate RUB-6 structurally characterized by electron microscopy. <i>IUCrJ</i> , 2020, 7, 522-534.	2.2	15
5	Towards quantitative treatment of electron pair distribution function. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 532-549.	1.1	38
6	Interpretation of diffuse scattering using superspace crystallography. <i>Physical Review B</i> , 2019, 100, .	3.2	5
7	<i>Ab initio</i> structure determination and quantitative disorder analysis on nanoparticles by electron diffraction tomography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 93-101.	0.1	17
8	Elucidating structural order and disorder phenomena in mullite-type Al <sub>4</sub> B <sub>2</sub> O <sub>9</sub> by automated electron diffraction tomography. <i>Journal of Solid State Chemistry</i> , 2017, 249, 114-123.	2.9	22
9	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> . <i>Scientific Reports</i> , 2017, 7, 471.	3.3	20
10	Close-packed structure dynamics with finite-range interaction: computational mechanics with individual layer interaction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 377-386.	0.1	0
11	Diffuse single-crystal scattering corrected for molecular form factor effects. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 231-237.	0.1	7
12	Close-packed structures with finite-range interaction: computational mechanics of layer pair interaction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 357-369.	0.1	1
13	Celebrating 100 years of the Debye scattering equation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, 589-590.	0.1	25
14	Solving the Hydrogen and Lithium Substructure of Poly(triazine imide)/LiCl Using NMR Crystallography. <i>Chemistry - A European Journal</i> , 2016, 22, 16878-16890.	3.3	54
15	The evolution of crystalline ordering for ligand-ornamented zinc oxide nanoparticles. <i>CrystEngComm</i> , 2016, 18, 2163-2172.	2.6	11
16	Universal solvent restructuring induced by colloidal nanoparticles. <i>Science</i> , 2015, 347, 292-294.	12.6	172
17	Room-temperature sol-gel synthesis of organic ligand-capped ZnO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	12
18	Synthesis and characterisation of new MO(OH) <sub>2</sub> (M = Zr, Hf) oxyhydroxides and related Li <sub>2</sub> MO <sub>3</sub> salts. <i>Dalton Transactions</i> , 2014, 43, 2755-2763.	3.3	12

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19	The nature of x-ray scattering from geo-nanoparticles: Practical considerations of the use of the Debye equation and the pair distribution function for structure analysis. <i>Chemical Geology</i> , 2012, 329, 3-9.	3.3	18
20	Development of the local and average structure of a $\text{Mo}_5\text{O}_{14}$ -like structure during synthesis from nanostructured precursors. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 288-298.	1.1	6
21	Structural phase transition to disorder low-temperature phase in $[\text{Fe}(\text{ptz})_6](\text{BF}_4)_2$ spin-crossover compounds. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 40-56.	1.8	27
22	Ensemble modeling of very small ZnO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 498-505.	2.8	17
23	Treatment of hydrogen background in bulk and nanocrystalline neutron total scattering experiments. <i>Journal of Applied Crystallography</i> , 2011, 44, 532-539.	4.5	24
24	Building and refining complete nanoparticle structures with total scattering data. <i>Journal of Applied Crystallography</i> , 2011, 44, 327-336.	4.5	70
25	Defect Crystal Structure of Low Temperature Modifications of $\text{Li}_2\text{MO}_3$ (M=Ti, Tj ETQq1 1 0.784314 rgBT / Qv 0,2 6	1.0	6
26	Defect crystal structure of new $\text{TiO}(\text{OH})_2$ hydroxide and related lithium salt $\text{Li}_2\text{TiO}_3$ . <i>Dalton Transactions</i> , 2010, 39, 8168.	3.3	36
27	Aspects of the modelling of the radial distribution function for small nanoparticles. <i>Journal of Applied Crystallography</i> , 2007, 40, 975-985.	4.5	42
28	Structure of small $\text{InAs}$ semiconductor nanoparticles: A new approach based on powder diffraction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3234-3243.	0.8	17
29	Influence of liquid phase synthesis parameters on particle sizes and structural properties of nanocrystalline ZnO powders. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3260-3269.	0.8	10
30	Dramatic increase in charge carrier lifetime in a liquid crystalline perylene bisimide derivative upon bay substitution with chlorine. <i>Journal of Materials Chemistry</i> , 2005, 15, 1270-1276.	6.7	61
31	Structure of nanoparticles from powder diffraction data using the pair distribution function. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S125-S134.	1.8	68
32	Biomimetic control of crystal assembly by growth in an organic hydrogel network. <i>American Mineralogist</i> , 2003, 88, 647-652.	1.9	94
33	Personal reflections. Part 69. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, 355-355.	0.8	0
34	Studies on the synthesis of chiral nonracemic 3,4-disubstituted azepanes, a formal synthesis of (+)- and ( $\hat{\alpha}$ )-balanol. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 4521-4537.	1.8	24
35	Modulated Structure of the Composite Crystal Urea/n-Heptadecane. <i>Acta Crystallographica Section B: Structural Science</i> , 1997, 53, 544-552.	1.8	32