Andreas SchÃ¶nleber

List of Publications by Year
in descending order

67 papers	983 citations	516561 16 h-index	501076 28 g-index
68 all docs	68 docs citations	68 times ranked	1418 citing authors

#	Article	IF	Citations
1	The role of PbI₂ in CH₃NH₃PbI₃ perovskite stability, solar cell parameters and device degradation. Physical Chemistry Chemical Physics, 2018, 20, 605-614.	1.3	135
2	A non-mathematical introduction to the superspace description of modulated structures. Acta Crystallographica Section B: Structural Science, 2009, 65, 249-268.	1.8	68
3	Impact of excess PbI₂ on the structure and the temperature dependent optical properties of methylammonium lead iodide perovskites. Journal of Materials Chemistry C, 2018, 6, 7512-7519.	2.7	54
4	Electron-Deficient and Polycenter Bonds in the High-Pressure<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi><mml:mtext mathvariant="normal">â€”</mml:mtext><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>28</mml:mn></mml:msub></mml:math>Phase of Boron. Physical Review Letters, 2011, 106, 215502.	2.9	46
5	Incommensurate interactions and nonconventional spin-Peierls transition in TiOBr. Physical Review B, 2005, 72, .	1.1	41
6	Observation of strong magnetoelastic coupling in a first-order phase transition of CrOCl. Physical Review B, 2009, 80, .	1.1	38
7	Time-dependent growth of crystalline Au0-nanoparticles in cyanobacteria as self-reproducing bioreactors: 1. Anabaena sp.. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	33
8	Time-dependent growth of crystalline Au⁰-nanoparticles in cyanobacteria as self-reproducing bioreactors: 2. Anabaena cylindrica. Beilstein Journal of Nanotechnology, 2016, 7, 312-327.	1.5	32
9	Structure of the incommensurate phase of the quantum magnet TiOCl. Physical Review B, 2006, 73, .	1.1	28
10	NADAâ€“ a computer program for the simultaneous refinement of orientation matrix and modulation vector(s). Journal of Applied Crystallography, 2001, 34, 777-779.	1.9	26
11	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. Physical Review B, 2008, 78, .	1.1	22
12	Phase transition, crystal structure, and magnetic order in VOCl. Physical Review B, 2009, 80, .	1.1	21
13	Unusual charge density wave transition and absence of magnetic ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Er</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>Ir₃Si₇. Physical Review B, 2020, 101, .	1.1	21
14	The (3 + 1)-dimensional superspace description of the commensurately modulated structure of p-chlorobenzamide (Î±-form) and its relation to the Î³-form. Zeitschrift Fur Kristallographie - Crystalline Materials, 2003, 218, .	0.4	18
15	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. Physical Review B, 2007, 76, .	1.1	17
16	Low- and high-temperature crystal structures of. Journal of Solid State Chemistry, 2009, 182, 525-531.	1.4	17
17	Spin-Peierls distortions in TiPO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	17
18	Quininium (R)-mandelate, a structure with large Zâ€² described as an incommensurately modulated structure in (3+1)-dimensional superspace. Acta Crystallographica Section B: Structural Science, 2004, 60, 108-120.	1.8	16

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19	The twofold superstructure of titanium(III) oxybromide atT= 17.5 K. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, i47-i48.	0.4	16
20	Organic molecular compounds with modulated crystal structures. Zeitschrift FÃ¼r Kristallographie, 2011, 226, .	1.1	16
21	Modulated structure of nepheline. Acta Crystallographica Section B: Structural Science, 2011, 67, 18-29.	1.8	15
22	Average structure of cubic lazurite with a three-dimensional incommensurate modulation. Crystallography Reports, 2002, 47, 404-407.	0.1	14
23	Superspace description of the crystal structures of Ca n (Nb,Ti) n O3nâ€...+â€...2 (n = 5 and 6). Acta Crystallographica Section B: Structural Science, 2007, 63, 183-189.	1.8	14
24	Normal-to-incommensurate phase transition in the spin-Peierls compound TiOCl: An x-ray diffraction study. Physical Review B, 2008, 77, .	1.1	14
25	Cyanobacterial promoted enrichment of rare earth elements europium, samarium and neodymium and intracellular europium particle formation. RSC Advances, 2019, 9, 32581-32593.	1.7	14
26	Electrode and chemical reactions during electrodeposition of tantalum products in CsCl melt. Electrochimica Acta, 2006, 51, 6563-6571.	2.6	12
27	Resonance-stabilized partial proton transfer in hydrogen bonds of incommensurate phenazineâ€“chloranilic acid. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 228-234.	0.5	11
28	Role of Steric Hindrance in the Crystal Packing of Zâ€² = 4 Superstructure of Trimethyltin Hydroxide. Crystal Growth and Design, 2018, 18, 1394-1400.	1.4	11
29	Charge density wave and lock-in transitions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CuV</mml:mi><mml:mn>2</mml:mn></m mathvariant="normal">S</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	1.1	11
30	Structure and microstructure of the high pressure synthesised misfit layer compound [Sr2O2][CrO2]1.85. Journal of Solid State Chemistry, 2008, 181, 1840-1847.	1.4	10
31	More about residual values. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 549-558.	0.3	10
32	TheZâ€² = 12 superstructure of Î›-cobalt(III) sepulchrate trinitrate governed by Câ€”H...O hydrogen bonds. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 372-380.	0.5	10
33	Incommensurately modulated structure of isotropic lazurite as a product of twinning of two-dimensionally modulated domains. Crystallography Reports, 2003, 48, 721-727.	0.1	9
34	Ferroelectricity of Phenazineâ€“Chloranilic Acid at $$T = 100$$ T = 100 K. Journal of Chemical Crystallography, 2014, 44, 387-393.	0.5	9
35	The lock-in phase in the urotropineâ€“sebacic acid system. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 936-938.	0.4	8
36	The incommensurate structure of K3In(PO4)2. Acta Crystallographica Section B: Structural Science, 2003, 59, 17-27.	1.8	8

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37	Description of Ba1â€…+â€…x Ni x Rh1â€…â^'â€…x O3 with x = 0.1170â€…(5) in superspace: modulated composite versus modulated-layer structure. Acta Crystallographica Section B: Structural Science, 2006, 62, 197-204.	1.8	8
38	Second-order charge-density-wave transition in single crystals of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>3</mml:mn> Physical Review Materials, 2019, 3, .	3.1	8
39	Orientational disorder in Î›-cobalt(III) sepulchrate trinitrate. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m107-m109.	0.4	7
40	Modulated anharmonic ADPs are intrinsic to aperiodic crystals: a case study on incommensurate Rb₂ZnCl₄. Acta Crystallographica Section B: Structural Science, 2011, 67, 205-217.	1.8	7
41	Modulated crystal structure of the atypical charge density wave state of single-crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Lu</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2021, 104, .	3.2	7
42	X-ray mapping in heterocyclic design: IX. X-ray structure investigation of conjugated aminodienes. Crystallography Reports, 2002, 47, 973-978.	0.1	6
43	Modulation functions of incommensurately modulated Cr₂P₂O₇studied by the maximum entropy method (MEM). Acta Crystallographica Section B: Structural Science, 2010, 66, 130-140.	1.8	6
44	Antiviral Agents Derived from Novel 1-adamantyl Singlet Nitrenes. Antiviral Chemistry and Chemotherapy, 2013, 23, 113-128.	0.3	6
45	Nâ€”H...O and Câ€”H...F hydrogen bonds in the incommensurately modulated crystal structure of adamantan-1-ammonium 4-fluorobenzoate. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 652-659.	0.5	6
46	The Structure of Diaqua (15-Crown-5) Copper (II) Dinitrate Described in (3+1)-Dimensional Superspace. Ferroelectrics, 2004, 305, 99-102.	0.3	5
47	On the Symmetry of Optically Isotropic Modulated Lazurites from the Baikal Region. Ferroelectrics, 2004, 305, 95-98.	0.3	5
48	Two pressure-induced structural phase transitions in TiOCl. Physical Review B, 2010, 82, .	1.1	5
49	The role of magnetic order in VOCl. Journal of Physics Condensed Matter, 2019, 31, 325502.	0.7	5
50	On the puzzling case of sodium saccharinate 1.875-hydrate: structure description in (3+1)-dimensional superspace. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 18-27.	0.5	5
51	Three-dimensionally modulated incommensurate crystal structure of lazurite from the Baikal region. Crystallography Reports, 2003, 48, 8-11.	0.1	4
52	Local Structure of Ferroic Iron Formates at Low Temperature and High Pressure Studied by MÃ¶ssbauer Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 21676-21684.	1.5	4
53	Toward Understanding High-Zâ€² Organic Molecular Crystals through the Superspace Method: The Example of Glycyl-<scp>l</scp>-valine. Crystal Growth and Design, 2021, 21, 2324-2331.	1.4	4
54	Filling of the Mottâ€“Hubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. High Pressure Research, 2009, 29, 509-513.	0.4	3

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55	Transformation between spin-Peierls and incommensurate fluctuating phases of Sc-doped TiOCl. Physical Review B, 2014, 90, .	1.1	3
56	Superspace description of trimethyltin hydroxide at Tâ€‰=â€‰100 K. Zeitschrift Fur Kristallographie - Crystalline Materials, 2016, 231, 427-434.	0.4	3
57	Bioselective synthesis of gold nanoparticles from diluted mixed Au, Ir, and Rh ion solution by Anabaena cylindrica. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	3
58	Temperature-dependent neutron diffraction on TiI3. Zeitschrift FÃ¼r Kristallographie, 2011, 226, 640-645.	1.1	2
59	Incommensurately modulated structure of morpholinium tetrafluoroborate and configurationalversuschemical entropies at the incommensurate and lock-in phase transitions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 836-843.	0.5	2
60	Single-crystal-to-single-crystal phase transitions of commensurately modulated sodium saccharinate 1.875-hydrate. IUCrJ, 2021, 8, 139-147.	1.0	2
61	Unusual electronic properties of a low-temperature phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ag</mml:mi><mml:mn>0.4</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2018, 2, .	2.4	2
62	Incommensurate Phase in Î›â€•cobalt (III) Sepulchrate Trinitrate Governed by Highly Competitive Nâˆ’Hâ‹…â‹…â‹…O and Câˆ’Hâ‹…â‹…â‹…O Hydrogen Bond Networks**. Chemistry - A European Journal, 2022, 28, .	1.7	2
63	The superspace description of the incommensurately modulated structure of quininium (R)-mandelate. Ferroelectrics, 2001, 250, 91-94.	0.3	1
64	Nuclear and magnetic structure of VOCl at low temperatures. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2078-2078.	0.6	0
65	Phase diagrams of MOX (M = Ti, V, Cr; X = Cl, Br). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2086-2086.	0.6	0
66	Structure of incommensurately modulated chromium pyrophosphate studied by Maximum Entropy Method (MEM). Journal of Physics: Conference Series, 2010, 226, 012012.	0.3	0
67	Une Ã©tude cristallographique: superspace description of a commensurate composite cocrystal of 4,4â€²-dinitrobiphenyl and biphenyl. CrystEngComm, 2022, 24, 512-517.	1.3	0