

Robert Dinnebier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8511374/publications.pdf>

Version: 2024-02-01

344
papers

10,881
citations

34105

52
h-index

49909

87
g-index

392
all docs

392
docs citations

392
times ranked

11691
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time and in situ monitoring of mechanochemical milling reactions. <i>Nature Chemistry</i> , 2013, 5, 66-73.	13.6	493
2	Ion- and Liquid-Assisted Grinding: Improved Mechanochemical Synthesis of Metal-Organic Frameworks Reveals Salt Inclusion and Anion Templating. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 712-715.	13.8	343
3	In situ X-ray diffraction monitoring of a mechanochemical reaction reveals a unique topology metal-organic framework. <i>Nature Communications</i> , 2015, 6, 6662.	12.8	294
4	A spin-orbital-entangled quantum liquid on a honeycomb lattice. <i>Nature</i> , 2018, 554, 341-345.	27.8	276
5	Single Crystals Popping Under UV Light: A Photosalient Effect Triggered by a [2+2] Cycloaddition Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5907-5911.	13.8	212
6	Electronic Phase Separation in the Slightly Underdoped Iron Pnictide Superconductor BaFe_2As_2 . <i>Physical Review Letters</i> , 2009, 102, 117006.	7.8	108
7	In Situ Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 2929-2932.	13.7	194
8	An $\text{FeF}_3 \cdot 0.5\text{H}_2\text{O}$ Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 11425-11428.	13.7	177
9	Solid State Structures of Cyclopentadienyllithium, -sodium, and -potassium. Determination by High-Resolution Powder Diffraction. <i>Organometallics</i> , 1997, 16, 3855-3858.	2.3	169
10	Colossal positive and negative thermal expansion and thermosalient effect in a pentamorphic organometallic martensite. <i>Nature Communications</i> , 2014, 5, 4811.	12.8	168
11	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. <i>Science</i> , 2019, 363, 396-400.	12.6	153
12	Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. <i>Chemistry of Materials</i> , 2019, 31, 7478-7486.	6.7	151
13	Structural Characterization of a New Magnesium Oxysulfate Hydrate Cement Phase and Its Surface Reactions with Atmospheric Carbon Dioxide. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3609-3616.	3.8	150
14	Characterization of the Products of the Heme Detoxification Pathway in Malarial Late Trophozoites by X-ray Diffraction. <i>Journal of Biological Chemistry</i> , 1997, 272, 713-716.	3.4	147
15	Real-Time In Situ Powder X-ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11538-11541.	13.8	141
16	In situ and real-time monitoring of mechanochemical milling reactions using synchrotron X-ray diffraction. <i>Nature Protocols</i> , 2013, 8, 1718-1729.	12.0	132
17	The structure of the blue luminescent $\hat{\Gamma}$ -phase of tris(8-hydroxyquinoline)aluminium(iii) (Alq_3). <i>Chemical Communications</i> , 2002, , 2908-2909.	4.1	131
18	Perpetually Self-Propelling Chiral Single Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 1895-1902.	13.7	116

#	ARTICLE	IF	CITATIONS
19	Easily Accessible, Textile Fiber-Based Sulfurized Poly(acrylonitrile) as Li/S Cathode Material: Correlating Electrochemical Performance with Morphology and Structure. <i>ACS Energy Letters</i> , 2017, 2, 595-604.	17.4	116
20	Refinement of modulated structures against X-ray powder diffraction data with JANA2000. <i>Journal of Applied Crystallography</i> , 2001, 34, 398-404.	4.5	109
21	Surface and Bulk Effects in Photochemical Reactions and Photomechanical Effects in Dynamic Molecular Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 13866-13875.	13.7	109
22	Dimerization in $K_2C_6O_6$ and $Rb_2C_6O_6$. <i>Physical Review B</i> , 1995, 51, 12228-12232.	3.2	106
23	Crystal structures of calcium hemicarboaluminate and carbonated calcium hemicarboaluminate from synchrotron powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 493-500.	1.8	104
24	Ab Initio Structure Determination of Vaterite by Automated Electron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7041-7045.	13.8	98
25	Rational Synthesis of Mixed-Metal Microporous Metal-Organic Frameworks with Controlled Composition Using Mechanochemistry. <i>Chemistry of Materials</i> , 2019, 31, 5494-5501.	6.7	96
26	Tuning the stacking behaviour of a 2D covalent organic framework through non-covalent interactions. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1354-1361.	5.9	95
27	Amine-Linked Covalent Organic Frameworks as a Platform for Postsynthetic Structure Interconversion and Pore-Wall Modification. <i>Journal of the American Chemical Society</i> , 2021, 143, 3430-3438.	13.7	95
28	Thermodynamically Metastable Thiocyanato Coordination Polymer That Shows Slow Relaxations of the Magnetization. <i>Inorganic Chemistry</i> , 2015, 54, 2893-2901.	4.0	85
29	Total scattering reveals the hidden stacking disorder in a 2D covalent organic framework. <i>Chemical Science</i> , 2020, 11, 12647-12654.	7.4	80
30	Lewis Base-Free Phenyllithium: Determination of the Solid-State Structure by Synchrotron Powder Diffraction. <i>Journal of the American Chemical Society</i> , 1998, 120, 1430-1433.	13.7	79
31	Ca-Al double-substituted strontium hexaferrites with giant coercivity. <i>Chemical Communications</i> , 2018, 54, 479-482.	4.1	79
32	Polymorphism in Benzamide: Solving a 175-Year-Old Riddle. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6729-6731.	13.8	76
33	Structures of three dehydration products of bischofite from in situ synchrotron powder diffraction data ($MgCl_2 \cdot nH_2O$; $n = 1, 2, 4$). <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 235-242.	1.8	74
34	Trapping Reactive Intermediates by Mechanochemistry: Elusive Aryl Thiocarbamoylbenzotriazoles as Bench-Stable Reagents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8440-8443.	13.8	74
35	Quantitative in situ and real-time monitoring of mechanochemical reactions. <i>Faraday Discussions</i> , 2014, 170, 203-221.	3.2	73
36	Controlling the Polymorphism and Topology Transformation in Porphyrinic Zirconium Metal-Organic Frameworks via Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2019, 141, 19214-19220.	13.7	73

#	ARTICLE	IF	CITATIONS
37	Decomposition of Silver Carbonate; the Crystal Structure of Two High-Temperature Modifications of Ag ₂ CO ₃ . <i>Inorganic Chemistry</i> , 2002, 41, 3628-3637.	4.0	72
38	Synthesis, structures, magnetic, and theoretical investigations of layered Co and Ni thiocyanate coordination polymers. <i>Dalton Transactions</i> , 2016, 45, 18190-18201.	3.3	71
39	Synthesis, crystal structure, and phase relations of AlSiO ₃ OH, a high-pressure hydrous phase. <i>American Mineralogist</i> , 1998, 83, 881-888.	1.9	69
40	Synthesis, Structures, Polymorphism, and Magnetic Properties of Transition Metal Thiocyanato Coordination Compounds. <i>Crystal Growth and Design</i> , 2014, 14, 1902-1913.	3.0	68
41	Persistent Paramagnons Deep in the Metallic Phase of Sr^{2+} . <i>Physical Review Letters</i> , 2016, 117, 107001.	7.8	68
42	Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallodrugs. <i>Croatica Chemica Acta</i> , 2012, 85, 367-378.	0.4	67
43	Thiocyanato Coordination Polymers with Isomeric Coordination Networks – Synthesis, Structures, and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3236-3245.	2.0	67
44	Structure of Haloform Intercalated C ₆₀ and Its Influence on Superconductive Properties. <i>Science</i> , 2002, 296, 109-113.	12.6	66
45	X-ray Diffraction Structure Analysis of MCM-48 Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3233-3237.	2.6	66
46	Structure determination of Mg ₃ (OH) ₅ Cl·4H ₂ O (F5 phase) from laboratory powder diffraction data and its impact on the analysis of problematic magnesite floors. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 805-811.	1.8	63
47	Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 6999-7002.	4.1	63
48	Interlayer Interactions as Design Tool for Large-Pore COFs. <i>Journal of the American Chemical Society</i> , 2021, 143, 15711-15722.	13.7	60
49	What determines the performance of metal phthalocyanines (MPc, M=Zn, Cu, Ni, Fe) in organic heterojunction solar cells? A combined experimental and theoretical investigation. <i>Organic Electronics</i> , 2010, 11, 377-387.	2.6	59
50	Structural analysis of fullerene and fulleride solids from synchrotron X-ray powder diffraction. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 1445-1457.	4.0	58
51	Solution of the heavily stacking faulted crystal structure of the honeycomb iridate H ₃ Lir ₂ O ₆ . <i>Dalton Transactions</i> , 2017, 46, 15216-15227.	3.3	57
52	Novel Alkali-Metal Coordination in Phenoxides: Powder Diffraction Results on C ₆ H ₅ OM (M = Li, Na, K). <i>Tj ETQq 0.0 rgBT /Overlock 10</i>	4.0	56
53	Structural Characterization of Three Crystalline Modifications of Telmisartan by Single Crystal and High-Resolution X-ray Powder Diffraction. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 1465-1479.	3.3	55
54	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7-Fold to 8-Fold Interpenetrated Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 833-838.	13.8	52

#	ARTICLE	IF	CITATIONS
55	9Mg(OH) ₂ ·MgCl ₂ ·4H ₂ O, a High Temperature Phase of the Magnesia Binder System. <i>Inorganic Chemistry</i> , 2010, 49, 9770-9776.	4.0	51
56	Powder3D: An easy to use program for data reduction and graphical presentation of large numbers of powder diffraction patterns. <i>Zeitschrift für Kristallographie, Supplement</i> , 2006, 2006, 231-236.	0.5	50
57	Challenging the Ostwald rule of stages in mechanochemical cocrystallisation. <i>Chemical Science</i> , 2020, 11, 10092-10100.	7.4	49
58	Reversible Thermosalience in a One-Dimensional Coordination Polymer Preceded by Anisotropic Thermal Expansion and the Shape Memory Effect. <i>Journal of the American Chemical Society</i> , 2021, 143, 2088-2096.	13.7	49
59	Conductivity Mechanism in Ionic 2D Carbon Nitrides: From Hydrated Ion Motion to Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2107061.	21.0	49
60	The crystal structure of β -P ₄ , a low temperature modification of white phosphorus. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.8	48
61	Chiral Metal-Dithiolene/Viologen Ion Pairs: Synthesis and Electrical Conductivity. <i>Chemistry - A European Journal</i> , 2001, 7, 738-748.	3.3	47
62	Structural instability of EuTiO ₃ from X-ray powder diffraction. <i>Phase Transitions</i> , 2012, 85, 949-955.	1.3	47
63	Crystal and Molecular Structures of Alkali Oxalates: First Proof of a Staggered Oxalate Anion in the Solid State. <i>Inorganic Chemistry</i> , 2003, 42, 1499-1507.	4.0	46
64	Crystal Structure of the [(C ₅ H ₄ BM ₂) ₂ Fe]-4,4'-bipyridine Polymer from High Resolution X-Ray Powder Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2000, 626, 1400-1405.	1.2	45
65	New Insights into the Structural and Dynamical Features of Lithium Hexaoxometalates Li ₇ MO ₆ (M = Nb, Ta). <i>Chemical Communications</i> , 2010, 2010, 1045-1047.	4.0	45
66	Structures, Thermodynamic Relations, and Magnetism of Stable and Metastable Ni(NCS) ₂ Coordination Polymers. <i>Inorganic Chemistry</i> , 2018, 57, 3305-3314.	4.0	45
67	3Mg(OH) ₂ ·MgSO ₄ ·8H ₂ O: A Metastable Phase in the System Mg(OH) ₂ ·MgSO ₄ ·nH ₂ O. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1827-1833.	1.2	44
68	Understanding the adsorption mechanism of noble gases Kr and Xe in CPO-27-Ni, CPO-27-Mg, and ZIF-8. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23908-23914.	2.8	43
69	Ab Initio Structure Determination of Two Polymorphs of Cyclopentadienylrubidium in a Single Powder Pattern. <i>Acta Crystallographica Section B: Structural Science</i> , 1997, 53, 153-158.	1.8	42
70	Crystal Structures and Topological Aspects of the High-Temperature Phases and Decomposition Products of the Alkali-Metal Oxalates M ₂ [C ₂ O ₄] (M=K, Rb, Cs). <i>Chemistry - A European Journal</i> , 2005, 11, 1119-1129.	3.3	42
71	Real-Time in Situ Monitoring of Particle and Structure Evolution in the Mechanochemical Synthesis of UiO-66 Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2020, 20, 49-54.	3.0	42
72	Rotational order in CO-intercalated C ₆₀ crystals. <i>Physical Review B</i> , 1998, 57, 6321-6324.	3.2	41

#	ARTICLE	IF	CITATIONS
73	Solid-State Structures of Base-Free Indenyllithium and Fluorenylsodium. <i>Organometallics</i> , 1999, 18, 2915-2918.	2.3	41
74	WÄhler and Liebig Revisited: 176 Years of Polymorphism in Benzamide - and the Story Still Continues!. <i>Crystal Growth and Design</i> , 2009, 9, 2435-2441.	3.0	41
75	Desmotropy, Polymorphism, and Solid-State Proton Transfer: Four Solid Forms of an Aromatic Hydroxy Schiff Base. <i>Chemistry - A European Journal</i> , 2012, 18, 5620-5631.	3.3	41
76	Identification of the Chromophore in the Apatite Pigment [Sr ₁₀ (PO ₄) ₆ (Cu _x OH _{1-x}) ₂]: Linear OCuO ⁺ Featuring a Resonance Raman Effect, an Extreme Magnetic Anisotropy, and Slow Spin Relaxation. <i>Chemistry - A European Journal</i> , 2014, 20, 165-178.	3.3	41
77	Room temperature large-scale synthesis of layered frameworks as low-cost 4V cathode materials for lithium ion batteries. <i>Scientific Reports</i> , 2015, 5, 16270.	3.3	41
78	Tuning the field-induced magnetic transition in a layered cobalt phosphonate by reversible dehydration-hydration process. <i>Chemical Communications</i> , 2009, , 3023.	4.1	40
79	A rational approach to screen for hydrated forms of the pharmaceutical derivative magnesium naproxen using liquid-assisted grinding. <i>CrystEngComm</i> , 2011, 13, 3125.	2.6	40
80	In situ monitoring of mechanochemical synthesis of calcium urea phosphate fertilizer cocrystal reveals highly effective water-based autocatalysis. <i>Chemical Science</i> , 2020, 11, 2350-2355.	7.4	40
81	Crystal structure and stacking faults in the layered honeycomb, delafossite-type materials Ag ₃ Li ₂ O ₆ and Ag ₃ LiRu ₂ O ₆ . <i>Dalton Transactions</i> , 2019, 48, 9250-9259.	3.3	39
82	Extraordinary anisotropic thermal expansion in photosalient crystals. <i>IUCr</i> , 2020, 7, 83-89.	2.2	39
83	2Mg(OH) ₂ ·MgCl ₂ ·2H ₂ O and 2Mg(OH) ₂ ·MgCl ₂ ·4H ₂ O, Two High Temperature Phases of the Magnesia Cement System. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 628-633.	1.2	38
84	A Natural Topological Insulator. <i>Nano Letters</i> , 2013, 13, 1179-1184.	9.1	38
85	Rigid bodies in powder diffraction. A practical guide. <i>Powder Diffraction</i> , 1999, 14, 84-92.	0.2	37
86	Low-Temperature Phases of Rubidium Silver Iodide: Crystal Structures and Dynamics of the Mobile Silver Ions. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3010-3016.	2.5	36
87	Crystal Structure and Chemical Bonding of the High-Temperature Phase of AgN ₃ . <i>Inorganic Chemistry</i> , 2007, 46, 907-916.	4.0	36
88	Supercritical Carbon Dioxide Enables Rapid, Clean, and Scalable Conversion of a Metal Oxide into Zeolitic Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2018, 18, 3222-3228.	3.0	36
89	In situ monitoring of mechanochemical covalent organic framework formation reveals templating effect of liquid additive. <i>CheM</i> , 2021, 7, 1639-1652.	11.7	36
90	Magnetization anomalies in the superconducting state of RuSr ₂ GdCu ₂ O ₈ and the magnetic study of Sr ₂ GdRuO ₆ . <i>Physica C: Superconductivity and Its Applications</i> , 2002, 377, 383-392.	1.2	35

#	ARTICLE	IF	CITATIONS
91	High-pressure crystal structure of the non-linear optical compound BiB_3O_6 from two-dimensional powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 1-10.	1.8	35
92	Trivalent Iridium Oxides: Layered Triangular Lattice Iridate $\text{K}_{0.75}\text{Na}_{0.25}\text{IrO}_2$ and Oxyhydroxide IrOOH . <i>Chemistry of Materials</i> , 2017, 29, 8338-8345.	6.7	35
93	Crystal Structure of a Rigid Ferrocene-Based Macrocycle from High-Resolution X-ray Powder Diffraction. <i>Organometallics</i> , 2001, 20, 5642-5647.	2.3	34
94	Reversible dimerization of C_{60} molecules in the crystal structure of the bis(arene)chromium fulleride $[\text{Cr}(\text{C}_7\text{H}_8)]_2\text{C}_{60}$. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 482-488.	1.8	34
95	Bulk moduli and high-pressure crystal structures of minium, Pb_3O_4 , determined by X-ray powder diffraction. <i>American Mineralogist</i> , 2003, 88, 996-1002.	1.9	34
96	Disorder determined by high-resolution powder diffraction: structure of pentamethylcyclopentadienyllithium. <i>Acta Crystallographica Section B: Structural Science</i> , 1999, 55, 35-44.	1.8	33
97	Crystal Structure of $\text{K}_2[\text{C}_2\text{O}_6]$ —First Proof of Existence and Constitution of a Peroxodicarbonate Ion This work was supported by the Deutsche Forschungsgemeinschaft (DFG) and the Fonds der Chemischen Industrie. Research was carried out in part at the National Synchrotron Light Source at Brookhaven National Laboratory, which is supported by the U.S. Department of Energy, Division of Materials Sciences and Division of Chemical Sciences. The SUNY X3 beamline at NSLS is supported by the	13.8	33
98	Structure of sodiumpara-hydroxybenzoate, $\text{NaO}_2\text{C}_6\text{H}_4\text{OH}$ by powder diffraction: application of a phenomenological model of anisotropic peak width. <i>Journal of Applied Crystallography</i> , 1999, 32, 761-769.	4.5	32
99	Differences in Electrochemistry between Fibrous SPAN and Fibrous S/C Cathodes Relevant to Cycle Stability and Capacity. <i>Journal of the Electrochemical Society</i> , 2018, 165, A6017-A6020.	2.9	32
100	Crystal Engineering on Industrial Diaryl Pigments Using Lattice Energy Minimizations and X-ray Powder Diffraction. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9722-9732.	2.6	31
101	Thermal Transformation of a Zero-Dimensional Thiocyanate Precursor into a Ferromagnetic Three-Dimensional Coordination Network via a Layered Intermediate. <i>Crystal Growth and Design</i> , 2017, 17, 3997-4005.	3.0	31
102	Hybrid Li/S Battery Based on Dimethyl Trisulfide and Sulfurized Poly(acrylonitrile). <i>Advanced Sustainable Systems</i> , 2018, 2, 1700144.	5.3	31
103	X-ray Powder Diffraction Structure of Triclinic $\text{C}_{60}\text{Br}_{24}(\text{Br}_2)_2$. <i>Journal of Applied Crystallography</i> , 1995, 28, 327-334.	4.5	29
104	Order-disorder phenomena determined by high-resolution powder diffraction: the structures of tetrakis(trimethylsilyl)methane $\text{C}[\text{Si}(\text{CH}_3)_3]_4$ and tetrakis(trimethylsilyl)silane $\text{Si}[\text{Si}(\text{CH}_3)_3]_4$. <i>Acta Crystallographica Section B: Structural Science</i> , 1999, 55, 1014-1029.	1.8	29
105	Effect of Crystal Packing on the Structures of Polymeric Metallocenes. <i>Inorganic Chemistry</i> , 2005, 44, 964-968.	4.0	29
106	Combination of energy minimizations and rigid-body Rietveld refinement: the structure of 2,5-dihydroxybenzo[de]benzo[4,5]imidazo[2,1-a]isoquinolin-7-one. <i>Journal of Applied Crystallography</i> , 1999, 32, 178-186.	4.5	28
107	One-Dimensional Spin Chains from CuI Ions and 2,5-Bis(pyrazol-1-yl)-1,4-dihydroxybenzene. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 310-314.	1.2	28
108	Determination of the structure of the violet pigment $\text{C}_{22}\text{H}_{12}\text{Cl}_2\text{N}_6\text{O}_4$ from a non-indexed X-ray powder diagram. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 37-45.	1.8	28

#	ARTICLE	IF	CITATIONS
109	Structure of Plastic Crystalline Succinonitrile: High-Resolution in situ Powder Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 88-93.	1.2	28
110	The Crystal Structures of two Anhydrous Magnesium Hydroxychloride Phases from <i>in situ</i> Synchrotron Powder Diffraction Data. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 1458-1462.	1.2	27
111	Mechanochemical synthesis of alumina nanoparticles: Formation mechanism and phase transformation. <i>Powder Technology</i> , 2012, 229, 17-23.	4.2	27
112	A Co-based single-molecule magnet confined in a barium phosphate apatite matrix with a high energy barrier for magnetization relaxation. <i>Chemical Communications</i> , 2017, 53, 5416-5419.	4.1	27
113	Ultrahigh Damping Capacities in Lightweight Structural Materials. <i>Nano Letters</i> , 2018, 18, 2519-2524.	9.1	27
114	Structure-Directing Lone Pairs: Synthesis and Structural Characterization of SnTiO ₃ . <i>Chemistry of Materials</i> , 2018, 30, 8932-8938.	6.7	27
115	Powder Structure Solutions of the Compounds Potassium Phenoxide-Phenol: C ₆ H ₅ OK·x C ₆ H ₅ OH (x= 2, 1) Tj ETQq1 1 0.784314 rg 5T 4.0 26	4.0	26
116	Superconductivity at 3.7 K in Ternary Silicide Li ₂ IrSi ₃ . <i>Journal of the Physical Society of Japan</i> , 2014, 83, 103703.	1.6	26
117	Structures of incommensurate and commensurate composite crystals Na _x CuO ₂ (x = 1.58, 1.6, 1.62). <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 17-25.	1.8	25
118	Crystalline Inverted Membranes Grown on Surfaces by Electrospray Ion Beam Deposition in Vacuum. <i>Advanced Materials</i> , 2012, 24, 2761-2767.	21.0	25
119	Dibariumplatinide: (Ba ₂) ₂ Pt ₂ and Its Relation to the Alkaline-Earth-Metal Subnitrides. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 770-773.	13.8	24
120	Mechanochemical synthesis of zirconia nanoparticles: Formation mechanism and phase transformation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 31, 21-27.	3.8	24
121	A time-resolved powder diffraction study of <i>in-situ</i> photodimerization kinetics of 9-methylantracene using a CCD area detector and parametric Rietveld refinement. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 424-430.	1.8	24
122	Structural Characterization of the High-Temperature Phase Transitions in Ca ₈ [Al ₁₂ O ₂₄](MoO ₄) ₂ Aluminate Sodalite Using X-ray Powder Diffraction. <i>Journal of Solid State Chemistry</i> , 1997, 129, 130-143.	2.9	23
123	Crystal Structure and Electronic Structure of Red SnO. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1970-1975.	1.2	23
124	High-pressure phase transitions in the rare-earth orthoferrite LaFeO ₃ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 452-458.	1.1	22
125	Chlorartinite, a volcanic exhalation product also found in industrial magnesia screed. <i>Journal of Applied Crystallography</i> , 2006, 39, 739-744.	4.5	21
126	œPowder 3D Parametricœ A program for Automated Sequential and Parametric Rietveld Refinement Using Topas. <i>Materials Science Forum</i> , 0, 651, 97-104.	0.3	21

#	ARTICLE	IF	CITATIONS
127	A solid-state trimerisation of a diene diacid affords a bicyclobutyl: reactant structure from X-ray powder data and product separation and structure determination via co-crystallisation. <i>Chemical Communications</i> , 2011, 47, 236-238.	4.1	21
128	Effect of the Structure and Morphology of Natural, Synthetic and Post-processed Graphites on Their Dispersibility and Electronic Properties. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 804-823.	2.1	21
129	Structure solution and refinement of stacking-faulted NiCl(OH). <i>Journal of Applied Crystallography</i> , 2015, 48, 1706-1718.	4.5	21
130	The Solid State Structures of Potassium and Rubidium Salicylate by High Resolution X-Ray Powder Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 363-368.	1.2	20
131	Crystal structure details of La- and Bi-substituted hydroxyapatites: Evidence for LaO ⁺ and BiO ⁺ with a very short metal-oxygen bond. <i>Journal of Solid State Chemistry</i> , 2016, 237, 349-357.	2.9	20
132	On verdigris, part I: synthesis, crystal structure solution and characterisation of the $\text{Cu}_3(\text{CH}_3\text{COO})_2(\text{OH})_4$ phase. <i>Dalton Transactions</i> , 2017, 46, 14847-14858.	3.3	20
133	The Crystal Structures of the Binary Mixed Valence Compound Bi(III)3Bi(V)O7 and Isotypic Bi3SbO7 as Determined by High Resolution X-Ray and Neutron Powder Diffraction. <i>Journal of Solid State Chemistry</i> , 2002, 163, 332-339.	2.9	19
134	Enhancement of Superionic Conductivity by Halide Substitution in Strongly Stacking Faulted Li ₃ HoBr ₆ I _x Phases. <i>Chemistry of Materials</i> , 2022, 34, 3227-3235.	6.7	19
135	Sodium dithiophosphate(V): Crystal structure, sodium ionic conductivity and dismutation. <i>Solid State Sciences</i> , 2003, 5, 1439-1444.	3.2	18
136	Evidence for C60 dimerisation in the fulleride [Cr(C9H12) ₂]+C60 ⁻ . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2454-2460.	2.8	18
137	Crystal Structure and Ionic Conductivity of Cesium Trifluoromethyl Sulfonate, CsSO ₃ CF ₃ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 1660-1666.	1.2	18
138	Shear Strain in Nd _{0.5} Ca _{0.5} MnO ₃ at High Pressures. <i>Physical Review Letters</i> , 2005, 94, 165504.	7.8	18
139	Formation of a quasi-solid structure by intercalated noble gas atoms in pores of Cu ^I -MFU-4l metal-organic framework. <i>Chemical Communications</i> , 2015, 51, 714-717.	4.1	18
140	Synthesis, Structures and Properties of Cobalt Thiocyanate Coordination Compounds with 4-(hydroxymethyl)pyridine as Co-ligand. <i>Crystals</i> , 2016, 6, 38.	2.2	18
141	Cyclopentadienylcaesium by High-Resolution X-ray Powder Diffraction. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1997, 53, 699-701.	0.4	17
142	Äoer Kaliumtetracyanoplatinat(II), Kaliumtetracyanopalladat(II) und deren Monohydrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 1462-1468.	1.2	17
143	Crystal structures of the trifluoromethyl sulfonates M(SO ₃ CF ₃) ₂ (M = Mg, Ca, Ba, Zn, Cu) from synchrotron X-ray powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 467-473.	1.8	17
144	A Century of Powder Diffraction: a Brief History. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 3015-3028.	1.2	17

#	ARTICLE	IF	CITATIONS
145	A New Method for Quantitative Marking of Deposited Lithium by Chemical Treatment on Graphite Anodes in Lithium-Ion Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 6062-6065.	3.3	17
146	Limited Crystallite Growth upon Isothermal Annealing of Nanocrystalline Anatase. <i>Crystal Growth and Design</i> , 2015, 15, 2282-2290.	3.0	17
147	Crystal Structure and Hydrate Water Content of Synthetic Hellyerite, NiCO ₃ ·5.5H ₂ O. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 652-659.	1.2	17
148	Open versus Interpenetrated: Switchable Supramolecular Trajectories in Mechanosynthesis of a Halogen-Bonded Borromean Network. <i>CheM</i> , 2021, 7, 146-154.	11.7	17
149	Powder diffraction. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	17
150	The Structure of the High Temperature Modification of Lithium Triflate (l ³ -LiSO ₃ CF ₃). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 1613-1616.	1.2	16
151	Disodium rhodizonate: a powder diffraction study. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, m2148-m2150.	0.2	16
152	Crystal Structure and Ionic Conductivity of Three Polymorphic Phases of Rubidium Trifluoromethyl Sulfonate, RbSO ₃ CF ₃ . <i>Inorganic Chemistry</i> , 2006, 45, 3217-3223.	4.0	16
153	K _x Fe ₂ Se ₂ single crystals: floating-zone growth, transport and structural properties. <i>Superconductor Science and Technology</i> , 2012, 25, 075001.	3.5	16
154	Solid-State Structure of a Degradation Product Frequently Observed on Historic Metal Objects. <i>Inorganic Chemistry</i> , 2015, 54, 2638-2642.	4.0	16
155	Cuttlebone-like V ₂ O ₅ Nanofibre Scaffolds – Advances in Structuring Cellular Solids. <i>Scientific Reports</i> , 2017, 7, 42951.	3.3	16
156	Acoustic Emission from Organic Martensites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8104-8109.	13.8	16
157	Solid state solubility of copper oxides in hydroxyapatite. <i>Journal of Solid State Chemistry</i> , 2018, 262, 38-43.	2.9	16
158	Crystal and Molecular Structure of Rubidium Peroxodicarbonate Rb ₂ [C ₂ O ₆]. <i>Chemistry - A European Journal</i> , 2003, 9, 4391-4395.	3.3	15
159	Nanoscale UO ₂ and novel complex U(IV)-sulphate phase formation from electrolytically reduced uranyl sulphate solutions. <i>Radiochimica Acta</i> , 2010, 98, .	1.2	15
160	Thermally induced crystal-to-crystal transformations accompanied by changes in the magnetic properties of a Cu ^{II} -p-hydroquinonate polymer. <i>CrystEngComm</i> , 2011, 13, 391-395.	2.6	15
161	Variability of composition and structural disorder of nanocrystalline CoOOH materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2899-2909.	5.5	15
162	Glass-Induced Lead Corrosion of Heritage Objects: Structural Characterization of K(OH)·2PbCO ₃ . <i>Inorganic Chemistry</i> , 2017, 56, 5762-5770.	4.0	15

#	ARTICLE	IF	CITATIONS
163	Na ₂ Ir ^{IV} Cl ₆ : Spin-Orbital-Induced Semiconductor Showing Hydration-Dependent Structural and Magnetic Variations. <i>Inorganic Chemistry</i> , 2018, 57, 13252-13258.	4.0	15
164	Monitoring polymer-assisted mechanochemical cocrystallisation through <i>in situ</i> X-ray powder diffraction. <i>Chemical Communications</i> , 2020, 56, 8743-8746.	4.1	15
165	Structures and Phase Transition of Bi ₂ CdO ₂ [GeO ₄]. <i>Journal of Solid State Chemistry</i> , 1996, 123, 371-377.	2.9	14
166	The crystal structures of solvent-free alkali-metal squarates from powder diffraction data. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, 954-961.	0.8	14
167	Structure Determination of Unsolvated Potassium, Rubidium, and Cesium Carbazolates. <i>Organometallics</i> , 2007, 26, 2604-2608.	2.3	14
168	Crystal structure, thermal and compositional deformations of β -CsB ₅ O ₈ . <i>Crystal Research and Technology</i> , 2007, 42, 143-150.	1.3	14
169	A solid solution series of atacamite type Ni ₂ Mg ₂ Cl(OH) ₃ . <i>Journal of Solid State Chemistry</i> , 2015, 228, 131-140.	2.9	14
170	Crystal Structure of Thecotrichite, an Efflorescent Salt on Calcareous Objects Stored in Wooden Cabinets. <i>Crystal Growth and Design</i> , 2015, 15, 2795-2800.	3.0	14
171	CdX ₂ Coordination Polymers with α -Chloropyrazine and α -Methylpyrazine: Similar Ligands α Similar Structures α Different Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1245-1255.	2.0	14
172	On verdigris, part II: synthesis of the 2-1-5 phase, Cu ₃ (CH ₃ COO) ₄ (OH) ₂ ·5H ₂ O, by long-term crystallisation from aqueous solution at room temperature. <i>Dalton Transactions</i> , 2018, 47, 8209-8220.	3.3	14
173	A routine for the determination of the microstructure of stacking-faulted nickel cobalt aluminium hydroxide precursors for lithium nickel cobalt aluminium oxide battery materials. <i>Journal of Applied Crystallography</i> , 2020, 53, 76-87.	4.5	14
174	Structural and Spectroscopic Studies of Two Phases of the Organometallic Chain Polymer [Ru ₂ (μ -O) ₂ (μ -O ₂ PMe ₂) ₂ (CO) ₄] _n . <i>Inorganic Chemistry</i> , 1997, 36, 5793-5798.	4.0	13
175	New Insights into an Old Reaction. High-Resolution X-ray Powder Diffraction of Wiberg's Aminoalane Intermediate. <i>Inorganic Chemistry</i> , 2003, 42, 1204-1210.	4.0	13
176	Advances in data reduction of high-pressure x-ray powder diffraction data from two-dimensional detectors: a case study of schafarzikite (FeSb ₂ O ₄). <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1021-S1037.	1.8	13
177	Polymorphism of Ag ₃ VO ₄ . <i>Zeitschrift Für Kristallographie</i> , 2007, 222, 420-426.	1.1	13
178	Phase transition and thermal decomposition of silver isocyanate (AgNCO). <i>Solid State Sciences</i> , 2009, 11, 1107-1113.	3.2	13
179	Kinetic analysis of the phase transformation from β - to α -copper phthalocyanine: A case study for sequential and parametric Rietveld refinements. <i>Powder Diffraction</i> , 2009, 24, 191-199.	0.2	13
180	Structural and thermal characterization of zolpidem hemitartrate hemihydrate (form E) and its decomposition products by laboratory x-ray powder diffraction. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 871-878.	3.3	13

#	ARTICLE	IF	CITATIONS
181	CaSeO ₄ ·0.625H ₂ O “ water channel occupation in a bassanite related structure. Acta Crystallographica Section B: Structural Science, 2011, 67, 293-301.	1.8	13
182	An Unprecedented Process of Peroxide Ion Formation and its Localization in the Crystal Structure of Strontium Peroxyhydroxyapatite Sr ₁₀ (PO ₄) ₆ (O ₂) _x (OH) ₂ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 909-919.	1.2	13
183	LuF[SeO ₃]: The Structural Chameleon of Lanthanoid Fluoride Oxoselenates(IV). Inorganic Chemistry, 2013, 52, 10788-10794.	4.0	13
184	Following a Photoinduced Reconstructive Phase Transformation and its Influence on the Crystal Integrity: Powder Diffraction and Theoretical Study. Angewandte Chemie - International Edition, 2014, 53, 6738-6742.	13.8	13
185	Ni ₃ Cl ₂ .1(OH) ₃ .9H ₂ O, the Ni Analogue to Mg ₃ Cl ₂ (OH) ₄ .4H ₂ O. Inorganic Chemistry, 2014, 53, 4316-4324.	4.0	13
186	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTa ₂ O ₆ . Inorganic Chemistry, 2017, 56, 6318-6329.	4.0	13
187	When Glass and Metal Corrode Together, V: Sodium Copper Formate. Studies in Conservation, 2018, 63, 342-355.	1.1	13
188	Cross-examining Polyurethane Nanodomain Formation and Internal Structure. Macromolecules, 2020, 53, 9065-9073.	4.8	13
189	Synthesis and Crystal Structure of Rb ₆ Pb ₅ Cl ₁₆ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1998, 624, 393-398.	1.2	12
190	The Cu(II)O₄ Tetrahedron in the Å...kermanite Structure. Materials Science Forum, 1998, 278-281, 750-755.	0.3	12
191	Phase transitions of CO-intercalated C ₆₀ crystals. Europhysics Letters, 1998, 43, 302-307.	2.0	12
192	Azobipyridinium Dications and Radical Monocations as Acceptors. European Journal of Inorganic Chemistry, 1999, 1999, 1259-1269.	2.0	12
193	Microscopic changes in HoNi ₂ B ₂ C due to thermal treatment and its effect on superconductivity. Physical Review B, 2001, 63, .	3.2	12
194	Structural characterization of anhydrous naloxone and naltrexone hydrochloride by high resolution laboratory X-ray powder diffraction and thermal analysis. Journal of Pharmaceutical Sciences, 2007, 96, 3316-3323.	3.3	12
195	Chapter 14. Two-dimensional Diffraction Using Area Detectors. , 2008, , 414-438.		12
196	Novel characterization of the adsorption sites in large pore metal-organic frameworks: combination of X-ray powder diffraction and thermal desorption spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 12892.	2.8	12
197	The Devil is in the Detail: A Rare H-Bonding Motif in New Forms of Docetaxel. Crystal Growth and Design, 2013, 13, 4402-4410.	3.0	12
198	Dehydration of the Sorel Cement Phase 3Mg(OH) ₂ ·MgCl ₂ ·8H ₂ O studied by in situ Synchrotron X-ray Powder Diffraction and Thermal Analyses. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 100-105.	1.2	12

#	ARTICLE	IF	CITATIONS
199	Revealing the Initial Reaction Behavior in the Continuous Synthesis of Metal-Organic Frameworks Using Real-Time Synchrotron X-ray Analysis. <i>Inorganic Chemistry</i> , 2017, 56, 5489-5492.	4.0	12
200	Synthesis, Crystal Structures, and Properties of $M(NCS)_2 \cdot 3$ -aminomethylpyridine Coordination Compounds ($M = Cd, Zn$). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1904-1912.	1.2	12
201	Characterization of a new efflorescence salt on calcareous historic objects stored in wood cabinets: $Ca_2(CH_3COO)(HCOO)(NO_3) \cdot 4H_2O$. <i>Corrosion Science</i> , 2018, 132, 68-78.	6.6	12
202	Trimorphism of $Zn(NCS)_2 \cdot (4\text{-dimethylaminopyridine})_2$: Crystal Structures, Thermodynamic Relations, and Comparison with the Co(II) Polymorphs. <i>Crystal Growth and Design</i> , 2019, 19, 1134-1143.	3.0	12
203	Disordered crystal structure of pentamethylcyclopentadienylsodium as seen by high-resolution X-ray powder diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 673-679.	1.8	11
204	Strain effects in perovskite manganites. <i>Progress in Solid State Chemistry</i> , 2007, 35, 367-377.	7.2	11
205	The high pressure crystal structures of tin sulphate: a case study for maximal information recovery from 2D powder diffraction data. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008, 223, 195-203.	0.8	11
206	Structure of a new high-pressure-high-temperature modification of antimony(III) oxide, $\beta\text{-Sb}_2O_3$, from high-resolution synchrotron powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 1-7.	1.8	11
207	Small Molecule, Big Difference: The Role of Water in the Crystallization of Paclitaxel. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 674-683.	3.3	11
208	A symmetry-mode description of rigid-body rotations in crystalline solids: a case study of $Mg(H_2O)_6 \cdot RbBr_3$. <i>Journal of Applied Crystallography</i> , 2014, 47, 532-538.	4.5	11
209	Two Modifications of Tin(II) Bromide. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1467-1472.	1.2	11
210	On the Crystal Structure of a Previously Unknown Anhydrous Zinc Hydroxide Sulfate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 255-259.	1.2	11
211	On Verdigris, Part III: Crystal Structure, Magnetic and Spectral Properties of Anhydrous Copper(II) Acetate, a Paddle Wheel Chain. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 988-997.	1.2	11
212	Multiple slow relaxation of magnetization in Dy^{3+} confined in the crystal matrix of rare-earth-calcium silicates with the apatite structure. <i>Dalton Transactions</i> , 2020, 49, 2014-2023.	3.3	11
213	Anhydrous Cu_4O_4 , a Channel Structure solved from X-ray Powder Diffraction Data. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2328-2332.	1.2	10
214	Parametric Rietveld refinement for the evaluation of powder diffraction patterns collected as a function of pressure. <i>Journal of Applied Crystallography</i> , 2010, 43, 504-510.	4.5	10
215	Preparation, Structural, Thermogravimetric and Spectroscopic Study of Magnesium Potassium Arsenate Hexahydrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 3177-3183.	1.2	10
216	Synthesis, Crystal Structures, and Properties of $Mn(NCS)_2$ Coordination Compounds with 4-Picoline as Coligand and Crystal Structure of $Mn(NCS)_2$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 88-94.	1.2	10

#	ARTICLE	IF	CITATIONS
217	A study of Ca-doped hexaferrite $\text{Sr}_{1-x}\text{Ca}_x\text{Fe}_{12}\text{O}_{19}$ ($x = 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1$) <i>J. Appl. Cryst.</i> 2001, 34, 1414-1418.	1.1	10
218	The disordered structure of tetraferrocenyl-[3]-cumulene, $(\text{Fc})_2\text{C}=\text{C}=\text{C}(\text{Fc})_2$, by simulated annealing using synchrotron powder diffraction data. <i>Journal of Applied Crystallography</i> , 2000, 33, 1199-1207.	4.5	9
219	Structure of compounds $\text{E}(\text{SnMe}_3)_4$ (E = Si, Ge) as seen by high-resolution X-ray powder diffraction and solid-state NMR. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 52-61.	1.8	9
220	The real structure of Na_3BiO_4 by electron microscopy, HR-XRD and PDF analysis. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, 231-244.	0.8	9
221	Charge ordering in Ag_2BiO_3 . <i>Solid State Sciences</i> , 2006, 8, 267-276.	3.2	9
222	On the hydrates of codeine phosphate: the remarkable influence of hydrogen bonding on the crystal size. <i>Chemical Communications</i> , 2014, 50, 6970-6972.	4.1	9
223	Nickel Bicarbonate Revealed as a Basic Carbonate. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5913-5920.	2.0	9
224	The crystal structures of carbonyl iron powder "revised" using <i>in situ</i> synchrotron XRPD. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 835-842.	0.8	9
225	Dynamic disorder in solid tetrakis(trimethylstannyl)methane, $\text{C}(\text{SnMe}_3)_4$, investigated by one- and two-dimensional variable-temperature ^{119}Sn and ^{13}C NMR spectroscopy. <i>Applied Magnetic Resonance</i> , 1999, 17, 385-398.	1.2	8
226	The influence of temperature, additives and polymorphic form on the kinetics of the phase transformations of copper phthalocyanine. <i>Dyes and Pigments</i> , 2010, 85, 152-161.	3.7	8
227	Anisotropic microstrain broadening of minium, Pb_3O_4 , in a high-pressure cell: interpretation of line-width parameters in terms of stress variations. <i>Journal of Applied Crystallography</i> , 2010, 43, 17-26.	4.5	8
228	Direct Access to the Order Parameter: Parameterized Symmetry Modes and Rigid Body Movements as a Function of Temperature. <i>Materials Science Forum</i> , 2010, 651, 79-95.	0.3	8
229	Thermal and X-ray analysis of racemic bupivacaine hydrochloride. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 1031-1036.	3.6	8
230	Theoretical and Experimental Analysis of Structural Phase Transitions for $\text{ScF}[\text{SeO}_3]$ and $\text{YF}[\text{SeO}_3]$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 3203-3211.	1.2	8
231	About the air- and water-stable copper(I) dicyanamide: synthesis, crystal structure, vibrational spectra and DSC/TG analysis of $\text{Cu}[\text{N}(\text{CN})_2]$. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemistry</i> , 2014, 69, 1-10.	0.7	8
232	Charge disproportionation of mixed-valent Cr triggered by Bi lone-pair effect in the perovskite $\text{A}_{1-x}\text{Bi}_x\text{Bi}_{1-x}\text{Cr}_2\text{O}_{10}$. <i>Chemical Communications</i> , 2014, 50, 1207-1209.	3.2	8
233	Corrosion of Heritage Objects: Collagen-Like Triple Helix Found in the Calcium Acetate Hemihydrate Crystal Structure. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9438-9442.	13.8	8
234	Synthesis, characterization and thermal behaviour of solid phases in the quasi-ternary system $\text{Mg}(\text{SCN})_2\text{-H}_2\text{O-THF}$. <i>Dalton Transactions</i> , 2021, 50, 6949-6961.	3.3	8

#	ARTICLE	IF	CITATIONS
235	Multifunctional Properties of a Zn(II) Coordination Complex. <i>Crystal Growth and Design</i> , 2021, 21, 3401-3408.	3.0	8
236	Atomic resolution tracking of nerve-agent simulant decomposition and host metal-organic framework response in real space. <i>Communications Chemistry</i> , 2021, 4, .	4.5	8
237	Bulk modulus and high-pressure crystal structures of tetrakis(trimethylsilyl)methane C[Si(CH ₃) ₃] ₄ determined by X-ray powder diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 310-316.	1.8	7
238	Solvent-free methylthiomethyl lithium [LiCH ₂ SMe]: solid state structure and thermal decomposition. <i>Chemical Communications</i> , 2005, , 3442.	4.1	7
239	Chapter 1. Principles of Powder Diffraction. , 2008, , 1-19.		7
240	Maximum entropy method and charge flipping, a powerful combination to visualize the true nature of structural disorder from <i>in situ</i> X-ray powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 184-195.	1.8	7
241	Dehydration of Magnesium Bromide Hexahydrate Studied by <i>in situ</i> X-ray Powder Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 59-64.	1.2	7
242	Ni ₃ Cl ₂ ·x(OH) ₄ ·2H ₂ O: Structural, Thermal, Spectral, and Magnetic Properties in Dependence of the Chloride Content. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1875-1885.	2.0	7
243	The thermal decomposition of Ni(H ₂ O) ₆ [B ₁₂ Cl ₁₂] · 6 H ₂ O under X-ray and TG monitoring. <i>Inorganica Chimica Acta</i> , 2017, 467, 147-154.	2.4	7
244	Thermodynamically stable and metastable coordination polymers synthesized from solution and the solid state. <i>CrystEngComm</i> , 2020, 22, 184-194.	2.6	7
245	Crystal Structure, Polymorphism, and Anisotropic Thermal Expansion of $\text{Ca}(\text{CH}_3\text{COO})_2$. <i>Crystal Growth and Design</i> , 2020, 20, 5346-5355.	3.0	7
246	Tb-based silicate apatites showing slow magnetization relaxation with identical parameters for the Tb ³⁺ and Dy ³⁺ counter ions. <i>RSC Advances</i> , 2021, 11, 6926-6933.	3.6	7
247	Long Standing Problems in Organometallic Chemistry Solved by Powder Diffraction. <i>Materials Science Forum</i> , 2000, 321-324, 1-13.	0.3	6
248	[X-(CH ₂) _n] ₂ SnBr ₂ (X=Cl, CN, COOCH ₃ ; n=2-4) from the Activated Element Crystal Structure of (H ₃ COCC ₂ H ₄) ₂ SnBr ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 725.	1.2	6
249	High-temperature behavior of vanadyl pyrophosphate. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2225-2230.	2.9	6
250	Synthesis, Crystal Structure, Bonding, and Properties of (Ba ₆ O)(OsN ₃) ₂ . <i>Chemistry - an Asian Journal</i> , 2008, 3, 1983-1990.	3.3	6
251	Solid-State Structures of Base-Free Rubidium and Cesium Pentamethylcyclopentadienides. Determination by High-Resolution Powder Diffraction. <i>Organometallics</i> , 2008, 27, 5398-5400.	2.3	6
252	AgMoVO ₆ : A Promising Catalyst for Selective Gas-Phase Oxidation of <i>o</i> -Xylene. <i>ChemCatChem</i> , 2010, 2, 1562-1564.	3.7	6

#	ARTICLE	IF	CITATIONS
253	Crystal Structure and De- and Rehydration Behavior of Two New Chloride-Containing Zeolitic Imidazolate Frameworks. <i>Crystal Growth and Design</i> , 2019, 19, 4844-4853.	3.0	6
254	Efflorescence on calcareous objects in museums: crystallisation, phase characterisation and crystal structures of calcium acetate formate phases. <i>Dalton Transactions</i> , 2019, 48, 16062-16073.	3.3	6
255	Synthesis, crystal structure and properties of Cd(NCS) ₂ coordination compounds with two different Cd coordination modes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019, 74, 49-58.	0.7	6
256	Cyclic hexapeptoids with N-alkyl side chains: solid-state assembly and thermal behaviour. <i>CrystEngComm</i> , 2020, 22, 6371-6384.	2.6	6
257	Improving the picture of atomic structure in nonoriented polymer domains using the pair distribution function: A study of polyamide 6. <i>Journal of Polymer Science</i> , 2020, 58, 1843-1866.	3.8	6
258	Propyne Gas Adsorption in a Cyclic Hexapeptoid: A Combined In Situ XRPD and DFTB Study**. <i>Chemistry - A European Journal</i> , 2020, 26, 14320-14323.	3.3	6
259	Na ₉ Bi ₅ Os ₃ O ₂₄ : A Diamagnetic Oxide Featuring a Pronouncedly Jahn-Teller Compressed Octahedral Coordination of Osmium(VI). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16500-16505.	13.8	6
260	Bulk modulus and non-uniform compression of Nb ₃ Te ₄ and In _x Nb ₃ Te ₄ (x < 1) channel compounds. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 665-672.	1.8	5
261	Influence of the molecular structures on the high-pressure and low-temperature phase transitions of plastic crystals. <i>Acta Crystallographica Section B: Structural Science</i> , 2003, 59, 60-71.	1.8	5
262	The Low and High Temperature Crystal Structures of		

#	ARTICLE	IF	CITATIONS
271	Structural Variety in Mn(NCS) ₂ ·4-Cyanopyridine Coordination Compounds: Synthesis, Structures, Isomerism, and Magnetic Properties. <i>Crystal Growth and Design</i> , 2020, 20, 3374-3385.	3.0	5
272	Fast Water-Assisted Lithium Ion Conduction in Restacked Lithium Tin Sulfide Nanosheets. <i>Chemistry of Materials</i> , 2021, 33, 7337-7349.	6.7	5
273	Static and dynamic components of Debye-Waller coefficients in the novel cubic polymorph of low-temperature disordered Cu ₂ ZnSnS ₄ . <i>IUCr</i> , 2022, 9, 272-285.	2.2	5
274	Crystal structure of dehydrated chlorartinite by X-ray powder diffraction. <i>Powder Diffraction</i> , 2007, 22, 64-67.	0.2	4
275	(Ba6O)(ReN3) ₂ : Synthesis, Crystal Structure and Physical Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 2529-2531.	1.2	4
276	Structures of four polymorphs of the pesticide dithianon solved from X-ray powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 661-666.	1.8	4
277	Form, function and functionality of two dimeric toluene-2,4-diisocyanate polymorphs. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 204-208.	1.8	4
278	The Crystal Structure of Symplesite. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1207-1210.	1.2	4
279	One heritage corrosion product less: basic sodium copper carbonate. <i>Heritage Science</i> , 2016, 4, .	2.3	4
280	New isomeric Ni(NCS) ₂ coordination compounds: crystal structures, magnetic properties as well as <i>ex situ</i> and <i>in situ</i> investigations on their synthesis and transition behaviour. <i>CrystEngComm</i> , 2020, 22, 2350-2360.	2.6	4
281	Synthesis and characterisation of two lithium-thiocyanate solvates with tetrahydrofuran: Li[SCN]·THF and Li[SCN]·2THF. <i>Dalton Transactions</i> , 2021, 50, 12292-12300.	3.3	4
282	On the crystal structures of lithium thiocyanate monohydrate LiSCN \cdot H ₂ O and the phase diagram LiSCN \cdot H ₂ O. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 160, 110299.	4.0	4
283	Compressibility of CO intercalated C60 crystals. <i>Chemical Physics Letters</i> , 2000, 319, 283-286.	2.6	3
284	Structure and phase transitions of the 6,6-cyclopropane isomer of C ₆ H ₂ . <i>Physical Review B</i> , 2000, 62, 9305-9316.	3.2	3
285	FWHM optimized polynomial smoothing filters: A practical approach. <i>Powder Diffraction</i> , 2003, 18, 199-204.	0.2	3
286	The crystal structure of a new mixed valence arsenic(III,V)oxoacid H ₆ As ₃ + ₇ As ₅ + ₇ O ₃₁ . <i>Zeitschrift Für Kristallographie</i> , 2007, 222, 321-325.	1.1	3
287	Electrochemical synthesis and crystal structure of a penta-coordinated silver(II) macrocyclic complex. <i>Inorganica Chimica Acta</i> , 2009, 362, 4009-4012.	2.4	3
288	Automatic determination of phase transition points in <i>in situ</i> X-ray powder diffraction experiments. <i>Powder Diffraction</i> , 2009, 24, 8-16.	0.2	3

#	ARTICLE	IF	CITATIONS
289	Dysprosium magnesium silicate apatite featuring field and temperature stable slow magnetization relaxation. RSC Advances, 2020, 10, 37588-37595.	3.6	3
290	X-ray powder diffraction in education. Part I. Bragg peak profiles. Journal of Applied Crystallography, 2021, 54, 1811-1831.	4.5	3
291	Controlling desolvation through polymer-assisted grinding. CrystEngComm, 2022, 24, 2305-2313.	2.6	3
292	The Crystal Structure of Disodium Phosphonate, Na ₂ HPO ₃ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2994-2996.	1.2	2
293	Preparation and Crystal Structure Determination of Sulphur Dioxide Solvate Crystals with Cetyl- and Dodecyltrimethylammonium Bromide. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 1087-1092.	0.7	2
294	The crystal structure of Rb ₂ SeO ₄ at high temperature. Solid State Sciences, 2009, 11, 72-76.	3.2	2
295	A case study of parameterized Rietveld refinement: The structural phase transition of CuInSe ₂ . Zeitschrift Für Kristallographie, 2011, 226, 956-962.	1.1	2
296	An Old Story in New Light: X-Ray Powder Diffraction Provides Novel Insights into a Long-Known Organic Solid-State Rearrangement Reaction. Croatica Chemica Acta, 2013, 86, 187-192.	0.4	2
297	Rotational Rigid Body Symmetry Modes: A Tool for the Investigation of Phase Transitions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3079-3087.	1.2	2
298	Direct parameterization of the pressure-dependent volume by using an inverted approximate Vinet equation of state. Journal of Applied Crystallography, 2014, 47, 384-390.	4.5	2
299	Parameterization of the coupling between strain and order parameter for LuF[SeO ₃]. Journal of Applied Crystallography, 2014, 47, 701-711.	4.5	2
300	Chains of Condensed IrIn ₇ Polyhedra in Ir ₂ In ₁₂ Ga ₄ O ₁₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3172-3176.	1.2	2
301	Slow Relaxation of Magnetization in the Cobalt-Containing Strontium Hydroxy/Fluoro-apatite. European Journal of Inorganic Chemistry, 2019, 2019, 4677-4681.	2.0	2
302	Two-dimensional powder diffraction. Zeitschrift Für Kristallographie, Supplement, 2007, 2007, 215-220.	0.5	2
303	On the intensity distribution within Debye-Scherrer rings. What is different in high pressure experiments? Part I: Theory. Zeitschrift Für Kristallographie, Supplement, 2009, 2009, 139-146.	0.5	2
304	On the intensity distribution within Debye-Scherrer rings. What is different in high pressure experiments? Part II: Practical application. Zeitschrift Für Kristallographie, Supplement, 2009, 2009, 147-153.	0.5	2
305	Long term stability of a modern powder diffractometer. Powder Diffraction, 2001, 16, 149-152.	0.2	1
306	Crystal and Molecular Structure of Rubidium Peroxodicarbonate Rb ₂ [C ₂ O ₆]. ChemInform, 2003, 34, no.	0.0	1

#	ARTICLE	IF	CITATIONS
307	High-Pressure Synthesis and Structure Determination of $K_6(SeO_4)(SeO_5)$, the First Potassium Orthoselenate(VI). <i>Inorganic Chemistry</i> , 2006, 45, 10947-10950.	4.0	1
308	The Crystal Structures of the Room Temperature and the Low Temperature Phase of Dimethylammonium Trifluoromethanesulfonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 1410-1416.	1.2	1
309	Synthesis and crystal structure determination of two dispiro compounds from laboratory x-ray powder diffraction data. <i>Crystal Research and Technology</i> , 2008, 43, 205-213.	1.3	1
310	Powder study of propanthioamide derivative $C_8H_6N_2S_2$. <i>Crystal Research and Technology</i> , 2009, 44, 346-350.	1.3	1
311	MEM Calculations on Apatites Containing Peroxide Using BAYMEM and TOPAS. <i>Materials Science Forum</i> , 2010, 651, 105-116.	0.3	1
312	Automated parametric Rietveld refinement: Applications in reaction kinetics and in the extraction of microstructural information. <i>Powder Diffraction</i> , 2011, 26, S26-S37.	0.2	1
313	Reconstructions of electron density by the Maximum Entropy Method from X-ray powder diffraction data based on incomplete and complete crystal structure models: a case study of apatites with different intercalated metal atoms. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012, 227, 321-333.	0.8	1
314	Advanced Powder Diffraction Techniques in Inorganic Chemistry. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 3003-3004.	1.2	1
315	Impact of a Ni^{2+} -influx on formation, stability, solubility and crystal structures of the magnesia cement phases 3-1-8 and 5-1-8 at 25 °C. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5481-5492.	6.7	1
316	On Two Glycine Zinc Sulfate Phases with Exotic Cation Coordination Geometries. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1855-1860.	1.2	1
317	Acoustic Emission from Organic Martensites. <i>Angewandte Chemie</i> , 2017, 129, 8216-8221.	2.0	1
318	Application of the maximum-entropy method to powder-diffraction data. , 2019, , 473-488.		1
319	Characterization and Thermal Behavior of the Iron Dietary Supplement Ferrous Glycine Sulfate Pentahydrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 1350-1357.	1.2	1
320	Idiosyncratic $Ag_7Pt_2O_7$: An Electron Imprecise yet Diamagnetic Small Band Gap Oxide. <i>Angewandte Chemie</i> , 2020, 132, 20082-20085.	2.0	1
321	Synthesis, Structures, Thermal and Luminescence Properties of Zn and Cd Halide Coordination Polymers with 2-Cyanopyrazine. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1046-1054.	1.2	1
322	Korrosion von Kulturgut: Entdeckung einer kollagenartigen Tripelhelix in der Kristallstruktur von Calciumacetat-Hemihydrat. <i>Angewandte Chemie</i> , 2020, 132, 9525-9529.	2.0	1
323	Rigidified malononitrile- and ketone-merocyanines in rigid environments. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2015, 34, 151.	0.6	1
324	A previously unknown cyclic alkanolamine and molecular ranking using the pair distribution function. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 986-995.	1.1	1

#	ARTICLE	IF	CITATIONS
325	Supramolecular structures from high-resolution powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C58-C58.	0.3	0
326	High-pressure phase transitions in tetrakis(trimethylsilyl)silane Si[Si(CH ₃) ₃] ₄ . High Pressure Research, 2003, 23, 425-437.	1.2	0
327	Sodium Dithiophosphate(V): Crystal Structure, Sodium Ionic Conductivity and Dismutation.. ChemInform, 2004, 35, no.	0.0	0
328	New Insights into the Structural and Dynamical Features of Lithium Hexaoxometalates Li ₇ MO ₆ (M: Nb, Tj ETQq0 0,0,rgBT /Oylock 10	0.0	0
329	Potassium Tetracyanoplatinate(II), Potassium Tetracyanopalladate(II), and Their Monohydrates.. ChemInform, 2004, 35, no.	0.0	0
330	Dibariumplatinide: (Ba ²⁺) ₂ Pt ₂ Å—2e-and Its Relation to the Alkaline-Earth-Metal Subnitrides.. ChemInform, 2005, 36, no-no.	0.0	0
331	X-Ray Diffraction Structure Analysis of MCM-48 Mesoporous Silica.. ChemInform, 2005, 36, no.	0.0	0
332	Crystal Structure of La _{1-<i>x</i>} Ce _{<i>x</i>} CoO ₃ + <i>δ</i> (<i>x</i> ≈ 0.1) nanoparticles at different temperatures. , 2008, , .		0
333	Simulated Annealing Approach for Global Minimum Verification in Modeling of Pressure-Volume Dependence by Equations of State Obtained by High-Pressure Diffraction. Materials Science Forum, 2010, 651, 71-77.	0.3	0
334	Molecular Motion by Refinement of TLS Matrices from High Resolution Laboratory Powder Diffraction Data: Implementation in the Program TOPAS and Application to Crystalline Naphthalene. Materials Science Forum, 2010, 651, 65-69.	0.3	0
335	Preface: Modern Rietveld Analysis. Zeitschrift FÅ¼r Kristallographie, 2011, 226, V-V.	1.1	0
336	The Future of Powder Diffraction Is 2-D. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 251-257.	0.3	0
337	Crystal structure determination of non-stoichiometric Ca _{4<i>x</i>} RuO _{6<i>x</i>} (<i>x</i> = 1.17) from X-ray powder diffraction data. Powder Diffraction, 2016, 31, 59-62.	0.2	0
338	Synthesis, spectroscopic and structural perspective of new ferrocenyl amides. Solid State Sciences, 2016, 55, 29-35.	3.2	0
339	Zersetzung bringt Neues: Korrosionsprodukte im Museum. Nachrichten Aus Der Chemie, 2017, 65, 1185-1189.	0.0	0
340	Brass and Glass: Crystal Structure Solution and Phase Characterisation of the Corrosion Product Zn ₄ Cu ₃ (Zn ₁ Cu _{<i>x</i>}) ₆ (HCOO) ₈ (OH) ₁₈ /s		0
341	Na ₉ Bi ₅ Os ₃ O ₂₄ : A Diamagnetic Oxide Featuring a Pronouncedly Jahnâ€Tellerâ€Compressed Octahedral Coordination of Osmium(VI). Angewandte Chemie, 2021, 133, 16636-16641.	2.0	0
342	Powder3D: An easy to use program for data reduction and graphical presentation of large numbers of powder diffraction patterns. , 2006, , 231-236.		0

#	ARTICLE	IF	CITATIONS
343	Structural Study and Electrical Properties of $\text{Bi}_{1.5-x}\text{Ca}_x\text{Sb}_{1.5}\text{CuO}_7$ Pyrochlore-Type Solid Solution Series. <i>Materials Performance and Characterization</i> , 2019, 8, 151-162.	0.3	0
344	Lattice Modification and Morphological Control of Halide-Substituted $\gamma\text{-Qtz}$ -Type Zeolitic Imidazolate Frameworks $\text{Zn}_3\text{mim}_5\text{X}$, with X = F, Br, Cl, or OH. <i>Crystal Growth and Design</i> , 0, , .	3.0	0