

# Dmitry Chernyshov

## List of Publications by Year in descending order

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301  
papers

7,190  
citations

61984

43  
h-index

74163

75  
g-index

322  
all docs

322  
docs citations

322  
times ranked

9160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Analysis of the Experimental Electron Density in Multiferroic Antiferromagnet $\text{Ba}_2\text{MnGe}_2\text{O}_7$ . IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	3
2	Elucidating 2D Charge Density Wave Atomic Structure in an MX <sub>2</sub> Chain by the 3D <sup>+</sup> Pair Distribution Function Method**. ChemPhysChem, 2022, 23, .	2.1	6
3	FOX-7 high-energy-density material: thermal expansion and phase transitions revisited. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 91-95.	1.1	1
4	Tailoring Preferential Orientation in BaTiO <sub>3</sub> -based Thin Films from Aqueous Chemical Solution Deposition. Chemistry Methods, 2022, 2, .	3.8	0
5	Mesocrystalline structure and mechanical properties of biogenic calcite from sea urchin spine. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 356-358.	1.1	1
6	Exploring Fast Room Temperature Oxygen Diffusion in Pr <sub>2</sub> NiO <sub>4+</sub> Stand-Alone Single-Crystalline Electrodes. Chemistry of Materials, 2022, 34, 414-421.	6.7	5
7	Low-frequency lattice vibrations from atomic displacement parameters of FOX-7, a high energy density material. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 376-384.	1.1	2
8	Preliminary observations of the interplay of radiation damage with spin crossover. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 392-396.	1.1	6
9	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous $\text{Mg}(\text{BH}_4)_2$ Obtained by Means of Sub <sup>+</sup> Second X-Ray Diffraction. Angewandte Chemie - International Edition, 2021, 60, 5250-5256.	13.8	5
10	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous $\text{Mg}(\text{BH}_4)_2$ Obtained by Means of Sub <sup>+</sup> Second X-Ray Diffraction. Angewandte Chemie, 2021, 133, 5310-5316.	2.0	0
11	Texture Formation in Polycrystalline Thin Films of All <sup>+</sup> Inorganic Lead Halide Perovskite. Advanced Materials, 2021, 33, e2007224.	21.0	18
12	Phase Transitions in the $\text{Li}_{1+x}\text{Ni}_0.5\text{Mn}_{1.5}\text{O}_4$ ( $x = 0, 0.5, 1$ ) Cathodes upon (De)lithiation Studied with Operando Synchrotron X-ray Powder Diffraction. Nanomaterials, 2021, 11, 1368.	4.1	9
13	Phase transition in an organic ferroelectric: glycinium phosphite, with and without X-ray radiation damage. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 365-370.	1.1	10
14	Lattice dynamics of cobalt orthoborate $\text{Co}_3(\text{BO}_3)_2$ with kotoite structure. Journal of Alloys and Compounds, 2021, 865, 158797.	5.5	4
15	Electric field control of antiferroelectric domain pattern. Physical Review B, 2021, 103, .	3.2	10
16	Trojans That Flip the Black Phase: Impurity-Driven Stabilization and Spontaneous Strain Suppression in $\text{CsPbI}_3$ Perovskite. Journal of the American Chemical Society, 2021, 143, 10500-10508.	13.7	33
17	On the resolution function for powder diffraction with area detectors. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 497-505.	0.1	7
18	In situ X-ray diffraction studies of the crystallization of $\text{K}_0.5\text{Na}_0.5\text{NbO}_3$ powders and thin films from an aqueous synthesis route. Open Ceramics, 2021, 7, 100147.	2.0	1

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19	A System for Simultaneous Application of Uniaxial Strain and Electric Field to the Crystal Sample in Wide Temperature Range for X-Ray Scattering Experiments. , 2021, , .		0
20	Revisited $\text{Ti}_2\text{Nb}_2\text{O}_9$ as an Anode Material for Advanced Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 56366-56374.	8.0	8
21	A Room-Temperature Verwey-Type Transition in Iron Oxide, $\text{Fe}_5\text{O}_6$ . Angewandte Chemie, 2020, 132, 5681-5685.	2.0	2
22	Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate $\text{Li}_1\text{Fe}_1\text{PO}_4$ . Journal of Physical Chemistry C, 2020, 124, 126-134.	3.1	12
23	A Room-Temperature Verwey-Type Transition in Iron Oxide, $\text{Fe}_5\text{O}_6$ . Angewandte Chemie - International Edition, 2020, 59, 5632-5636.	13.8	17
24	Large electromechanical strain and unconventional domain switching near phase convergence in a Pb-free ferroelectric. Communications Physics, 2020, 3, .	5.3	14
25	Principal Component Analysis (PCA) for Powder Diffraction Data: Towards Unblinded Applications. Crystals, 2020, 10, 581.	2.2	10
26	Chirok: a post-refinement tool to analyse absolute structure. Journal of Applied Crystallography, 2020, 53, 1138-1140.	4.5	0
27	Mechanisms for texture in $\text{BaTiO}_3$ thin films from aqueous chemical solution deposition. Journal of Sol-Gel Science and Technology, 2020, 95, 562-572.	2.4	9
28	Metal-organic magnets with large coercivity and ordering temperatures up to $242^\circ\text{C}$ . Science, 2020, 370, 587-592.	12.6	91
29	Long-range oxygen ordering linked to topotactic oxygen release in $\text{Pr}_2\text{NiO}_4$ fuel cell cathode material. Journal of Materials Chemistry A, 2020, 8, 13987-13995.	10.3	13
30	Electrochemical properties and evolution of the phase transformation behavior in the NASICON-type $\text{Na}_{3+x}\text{Mn}_x\text{V}_{2-x}(\text{PO}_4)_3$ ( $0 \leq x \leq 1$ ) cathodes for Na-ion batteries. Journal of Power Sources, 2020, 470, 228231.	7.8	48
31	Carbon dioxide induced structural phase transition in metal-organic frameworks CPO-27. CrystEngComm, 2020, 22, 4353-4358.	2.6	6
32	Phase Transformations and Charge Ordering during $\text{Li}^+$ Intercalation into Hollandite-Type $\text{TiO}_2$ Studied by Operando Synchrotron X-ray Powder Diffraction. European Journal of Inorganic Chemistry, 2020, 2020, 743-748.	2.0	6
33	Hidden diversity of vacancy networks in Prussian blue analogues. Nature, 2020, 578, 256-260.	27.8	190
34	Innentitelbild: A Room-Temperature Verwey-Type Transition in Iron Oxide, $\text{Fe}_5\text{O}_6$ (Angew. Chem. 14/2020). Angewandte Chemie, 2020, 132, 5450-5450.	2.0	0
35	Non-Isothermal Kinetics of $\text{Kr}$ Adsorption by Nanoporous $\text{Mg}(\text{BH}_4)_2$ from in Situ Synchrotron Powder Diffraction. ACS Applied Materials & Interfaces, 2020, 12, 7710-7716.	8.0	4
36	Incommensurate crystal structure of $\text{PbHfO}_3$ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 7-12.	1.1	25

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37	Crystal structure, chemical bonding, and electrical and thermal transport in Sc <sub>5</sub> Rh <sub>6</sub> Sn <sub>18</sub> . Dalton Transactions, 2020, 49, 6832-6841.	3.3	13
38	New method to measure domain-wall motion contribution to piezoelectricity: the case of PbZr <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> ferroelectric. Journal of Applied Crystallography, 2020, 53, 1039-1050.	4.5	8
39	Experimental setup for high-temperature <i>in situ</i> studies of crystallization of thin films with atmosphere control. Journal of Synchrotron Radiation, 2020, 27, 1209-1217.	2.4	7
40	Crystal structure and superconducting properties of Sc <sub>5</sub> Ir <sub>6</sub> Sn <sub>18</sub> . Journal of Physics Condensed Matter, 2019, 31, 445603.	1.8	4
41	Single-Step Synthesis of Dual Phase Bright Blue-Green Emitting Lead Halide Perovskite Nanocrystal Thin Films. Chemistry of Materials, 2019, 31, 6824-6832.	6.7	26
42	Thermal unequilibrium of strained black CsPbI <sub>3</sub> thin films. Science, 2019, 365, 679-684.	12.6	444
43	Structural peculiarities, point defects and luminescence in Bi-doped CsCdX <sub>3</sub> (X = Cl, Br) single crystals. Journal of Alloys and Compounds, 2019, 803, 912-921.	5.5	7
44	Structural Peculiarities of the Intermediate Phase in Zr-Rich Lead Zirconate Titanate. Physics of the Solid State, 2019, 61, 1772-1778.	0.6	6
45	Local Structure of Ferriic Iron Formates at Low Temperature and High Pressure Studied by Mössbauer Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 21676-21684.	3.1	4
46	Algorithm for received signal in multipath propagation conditions. E3S Web of Conferences, 2019, 104, 02010.	0.5	1
47	Research of the probability of the "flip" of approximating function during the processing of measurement results. E3S Web of Conferences, 2019, 104, 02003.	0.5	4
48	Incommensurate instability and diffuse scattering at Brillouin zone boundary in Zr-rich lead zirconate titanate. Ferroelectrics, 2019, 538, 65-73.	0.6	2
49	Pressure-induced transformation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> : the role of the noble-gas pressure transmitting media. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 361-370.	1.1	4
50	Universal Oxide Shell Growth Enables in Situ Structural Studies of Perovskite Nanocrystals during the Anion Exchange Reaction. Journal of the American Chemical Society, 2019, 141, 8254-8263.	13.7	92
51	Element selective magnetism in $\text{Ho}_{0.5}\text{Mn}_{1.5}\text{O}_6$		

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55	CO <sub>2</sub> adsorption in Y zeolite: a structural and dynamic view by a novel principal-component-analysis-assisted <i>in situ</i> single-crystal X-ray diffraction experiment. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 214-222.	0.1	9
56	Sequential SHELXL refinement of consecutive data sets: a tool to probe dynamically evolving single-crystal structures. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e678-e678.	0.1	3
57	SNBL's BM31 at ESRF beyond 2020 – combined XRD+XAS. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e677-e677.	0.1	3
58	Diffusion mechanisms of gas adsorption by porous frameworks from sub-second synchrotron powder X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e687-e687.	0.1	0
59	Resolution function for 2D pixel detectors. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e628-e628.	0.1	0
60	Inspecting piezoelectricity in PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> single crystals with ferroelastic domains. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e673-e673.	0.1	0
61	Phase transitions in Zr-rich lead zirconate-titanate studied by single-crystal diffuse and inelastic X-ray scattering. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e429-e429.	0.1	0
62	An electrochemical cell with sapphire windows for <i>operando</i> synchrotron X-ray powder diffraction and spectroscopy studies of high-power and high-voltage electrodes for metal-ion batteries. Journal of Synchrotron Radiation, 2018, 25, 468-472.	2.4	22
63	Spin Crossover in a Hexaamineiron(II) Complex: Experimental Confirmation of a Computational Prediction. Chemistry - A European Journal, 2018, 24, 5082-5085.	3.3	11
64	Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet $MgCr_2O_4$ . Physical Review B, 2018, 97, .	3.2	14
65	Order-Parameter Temperature Dependences in Nanocomposites of Porous Glass+ Sodium Nitrite. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 238-241.	0.6	1
66	<i>In situ</i> synchrotron X-ray diffraction of thin films under perturbation by an electric field. Ferroelectrics, 2018, 537, 20-26.	0.6	2
67	Methods of substitution detected anomalous values in the realization of a random process. MATEC Web of Conferences, 2018, 226, 05005.	0.2	1
68	Mathematical model of a communication channel in urban environment. MATEC Web of Conferences, 2018, 226, 05009.	0.2	2
69	Spin Crossover Phenomena in $\text{SmCo}_{0.5}\text{Ga}_{0.5}\text{O}_3$ . , 2018, , .		0
70	Synchrotron Diffraction Study of the Crystal Structure of Ca(UO <sub>2</sub> ) <sub>6</sub> (SO <sub>4</sub> ) <sub>2</sub> O <sub>2</sub> (OH) <sub>6</sub> ·12H <sub>2</sub> O, a Natural Phase Related to Uranopilite. Minerals (Basel, Switzerland), 2018, 8, 569.	2.0	0
71	Structural Evolution in Morphotropic Lead Zirconate Titanate. , 2018, , .		0
72	Charge redistribution and the magnetoelastic transition across the first-order magnetic transition in (Mn,Fe) $M_2O_7$ (P,Si,B). Physical Review B, 2018, 98, .	3.2	9

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73	X-Ray Scattering by Antiphase Ferroelectric Domain Walls in the Antiferroelectric Phase of the $\text{PbZr}_{0.985}\text{Ti}_{0.015}\text{SO}_3$ . Lecture Notes in Computer Science, 2018, , 683-690.	1.3	1
74	Enhancing $\text{Na}^{+}$ Extraction Limit through High Voltage Activation of the NASICON-Type $\text{Na}_4\text{MnV}(\text{PO}_4)_3$ Cathode. ACS Applied Energy Materials, 2018, 1, 5842-5846.	5.1	87
75	Probing the intrinsic and extrinsic origins of piezoelectricity in lead zirconate titanate single crystals. Journal of Applied Crystallography, 2018, 51, 1396-1403.	4.5	14
76	Crystallography Based on Synchrotron Radiation: Experiments of Russian Users of the ESRF BM01 Diffraction Beam Line. Journal of Surface Investigation, 2018, 12, 395-407.	0.5	0
77	Strain engineering of photo-induced phase transformations in Prussian blue analogue heterostructures. Nanoscale, 2018, 10, 16030-16039.	5.6	16
78	The updated $\text{Zn-Sb}$ phase diagram. How to make pure $\text{Zn}_{13}\text{Sb}_{10}$ ( $\alpha\text{-Zn}_4\text{Sb}_3$ ). Dalton Transactions, 2018, 47, 11512-11520.	3.3	24
79	The High-Pressure Oxide $\text{Tb}_3\text{O}_5$ and its Non-Centrosymmetric Low-Temperature Polymorph "A" Comprehensive Study. Chemistry - A European Journal, 2018, 24, 15236-15245.	3.3	9
80	The Technique of Studying X-Ray Scattering over Wide Temperature Range in an Electric Field. Physics of the Solid State, 2018, 60, 963-966.	0.6	7
81	Lattice gas models and thermodynamics of gas uptake by porous materials from diffraction experiments. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e60-e60.	0.1	0
82	Kinetics of gas sorption by porous frameworks probed by sub-second synchrotron powder X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e158-e158.	0.1	0
83	High-pressure single-crystal synchrotron diffraction study of $\text{MnGe}$ and related compounds. Journal of Physics Condensed Matter, 2017, 29, 085401.	1.8	2
84	SAPO-37 microporous catalysts: revealing the structural transformations during template removal. Journal of Lithic Studies, 2017, 3, 79-88.	0.5	5
85	Synthesis and photostability of 1,4-bis(5-phenyloxazol-2-yl)benzene (POPOP) structural isomers and their trimethylsilyl derivatives. Dyes and Pigments, 2017, 141, 128-136.	3.7	10
86	Structure and interstitial iodide migration in hybrid perovskite methylammonium lead iodide. Nature Communications, 2017, 8, 15152.	12.8	83
87	Fast proton conduction in $\text{Cs}_3(\text{HSO}_4)_2(\text{H}_2\text{PO}_4)$ and $\text{Cs}_4(\text{HSO}_4)_3(\text{H}_2\text{PO}_4)$ . Solid State Ionics, 2017, 305, 30-35.	2.7	4
88	A microcontroller for <i>in situ</i> single-crystal diffraction measurements with a PILATUS-2M detector under an alternating electric field. Journal of Applied Crystallography, 2017, 50, 975-977.	4.5	9
89	Tuning the iron redox state inside a microporous porphyrinic metal organic framework. Dalton Transactions, 2017, 46, 517-523.	3.3	10
90	Study of the specific features of single-crystal boron microstructure. Crystallography Reports, 2017, 62, 692-702.	0.6	2

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91	Cooperative Adsorption by Porous Frameworks: Diffraction Experiment and Phenomenological Theory. Chemistry - A European Journal, 2017, 23, 17714-17720.	3.3	12
92	Complex biphase nature of the superconducting dome of the FeSe phase diagram. Physical Review B, 2017, 96, .	3.2	12
93	Synthesis, Structure, and Thermoelectric Properties of $\text{In}_2\text{Zn}_3\text{Sb}_2$ and Comparison to $\text{In}_2\text{Zn}_{13}\text{Sb}_{10}$ . Chemistry of Materials, 2017, 29, 5249-5258.	6.7	24
94	Spiral spin-liquid and the emergence of a vortex-like state in $\text{MnSc}_2\text{S}_4$ . Nature Physics, 2017, 13, 157-161.	16.7	88
95	Influence of monovalent Bi <sup>+</sup> doping on real composition, point defects, and photoluminescence in $\text{TlCdCl}_3$ and $\text{TlCdI}_3$ single crystals. Science China Materials, 2017, 60, 1253-1263.	6.3	5
96	Method to reduce the effect of miagrafic and sensory noise with isolating the isoline on ECG signal. MATEC Web of Conferences, 2017, 132, 05017.	0.2	0
97	Fermi bubbles as sources of cosmic rays above 1 PeV. EPJ Web of Conferences, 2017, 145, 04004.	0.3	1
98	Partition optimization for a random process realization to estimate its expected value. Serbian Journal of Electrical Engineering, 2017, 14, 333-342.	0.4	1
99	Mapping of reciprocal space with ferroelectrics under electric field. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s158-s158.	0.1	0
100	A rapid two-dimensional data collection system for the study of ferroelectric materials under external applied electric fields. Journal of Applied Crystallography, 2016, 49, 1501-1507.	4.5	12
101	Removing of systematic measurement errors caused by asymmetric distribution law of the noise component. , 2016, , .		1
102	Charge-ordering transition in iron oxide $\text{Fe}_4\text{O}_5$ involving competing dimer and trimer formation. Nature Chemistry, 2016, 8, 501-508.	13.6	54
103	Thermal and magnetic anomalies of $\text{In}_2\text{Zn}_3\text{Sb}_2$ -iron: an exploration by extended x-ray absorption fine structure spectroscopy and synchrotron x-ray diffraction. Journal of Physics Condensed Matter, 2016, 28, 355401.	1.8	5
104	Apatite Formation from Amorphous Calcium Phosphate and Mixed Amorphous Calcium Phosphate/Amorphous Calcium Carbonate. Chemistry - A European Journal, 2016, 22, 12347-12357.	3.3	51
105	Optically switched magnetism in photovoltaic perovskite $\text{CH}_3\text{NH}_3(\text{Mn:Pb})\text{I}_3$ . Nature Communications, 2016, 7, 13406.	12.8	106
106	Anomalous Thermal Behaviour of Mixed Cobaltites-Ferrites and Cobaltites-Chromites. Solid State Phenomena, 2016, 257, 99-102.	0.3	2
107	$\text{CH}_3\text{NH}_3\text{PbI}_3$ : precise structural consequences of water absorption at ambient conditions. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 716-722.	1.1	37
108	Thermal expansion of monogermanides of 3d-metals. Journal of Physics Condensed Matter, 2016, 28, 375401.	1.8	8

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109	Influence of the oxygen concentration on crystal growth and structure of the $\text{BaCuSi}_2\text{O}_6$ and $\text{Ba}_{1-x}\text{Sr}_x\text{CuSi}_2\text{O}_6$ spin dimer compounds. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s325-s326.	0.1	1
110	A disorder-enhanced quasi-one-dimensional superconductor. Nature Communications, 2016, 7, 12262.	12.8	62
111	Probing structural chirality with high-energy synchrotron radiation. Journal of Applied Crystallography, 2016, 49, 918-922.	4.5	4
112	Frequency analysis for modulation-enhanced powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 500-506.	0.1	15
113	High-Pressure Study of $\text{Mn}(\text{BH}_4)_2$ Reveals a Stable Polymorph with High Hydrogen Density. Chemistry of Materials, 2016, 28, 274-283.	6.7	17
114	Smart Energetic Nanosized Co-Crystals: Exploring Fast Structure Formation and Decomposition. Crystal Growth and Design, 2016, 16, 432-439.	3.0	34
115	A new multipurpose diffractometer PILATUS@SNBL. Journal of Synchrotron Radiation, 2016, 23, 825-829.	2.4	273
116	Lithium Diffusion Pathway in $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ (LATP) Superionic Conductor. Inorganic Chemistry, 2016, 55, 2941-2945.	4.0	188
117	Temperature- and Pressure-Induced Spin Crossover in $\text{Co}_{1+x}\text{Cr}_2\text{Se}_4$ ( $x = 0.24$ ): A Diffraction Study. Inorganic Chemistry, 2016, 55, 338-344.	4.0	0
118	Reentrant Phase Coherence in Superconducting Nanowire Composites. ACS Nano, 2016, 10, 515-523.	14.6	19
119	Relation between the boson peak in glasses and van Hove singularity in crystals. Philosophical Magazine, 2016, 96, 743-753.	1.6	7
120	Solid-state reactivity explored in situ by synchrotron radiation on single crystals of $\text{SrFeO}_{2.5}$ during electrochemical oxygen intercalation. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s421-s421.	0.1	0
121	Lattice dynamics and elastic properties from thermal diffuse scattering. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s80-s81.	0.1	0
122	Organic-inorganic hybrid perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ : structural consequences of water absorption. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s294-s295.	0.1	0
123	Structural disorder versus chiral magnetism in $\text{Cr}_1/3\text{NbS}_2$ . Physical Review B, 2015, 91, .	3.2	39
124	Crystal structure and phonon softening in $\text{CaMn}_3\text{Sb}_7$ . Physical Review B, 2015, 92, .	3.3	188
125	Thermal and magnetic anomalies of $\text{Mn}_{1-x}\text{Co}_x\text{Ge}$ . Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s395-s395.	0.1	2
126	Phase transitions in $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ with low Ti concentrations studied by X-ray scattering. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s388-s388.	0.1	0



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127	High-pressure study of Mn(BH <sub>4</sub> ) <sub>2</sub> : new polymorphs with high hydrogen density. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s349-s350.	0.1	0
128	Towards to control the Dzyaloshinskii-Moriya interaction in chiral magnets with P213 crystal structure. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s170-s170.	0.1	0
129	Diffuse scattering experiments with relaxor ferroelectrics: probing complexity of primitive cubic perovskite. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s93-s93.	0.1	0
130	Controlling the Dzyaloshinskii-Moriya interaction to alter the chiral link between structure and magnetism for $\text{Fe}_1\text{Co}_x\text{Si}_{1-x}$ . Physical Review B, 2015, 91, .	0.1	0
131	Complex physical properties of EuMgSi – a complementary study by neutron powder diffraction and <sup>151</sup> Eu Mössbauer spectroscopy. Journal of Materials Chemistry C, 2015, 3, 7203-7215.	5.5	10
132	Critical scattering of synchrotron radiation in lead zirconate-titanate with low titanium concentrations. Physics of the Solid State, 2015, 57, 2441-2446.	0.6	6
133	Solid-state reactivity explored <i>in situ</i> by synchrotron radiation on single crystals: from SrFeO <sub>2.5</sub> to SrFeO <sub>3</sub> via electrochemical oxygen intercalation. Journal Physics D: Applied Physics, 2015, 48, 504004.	2.8	25
134	In-between Bragg reflections: thermal diffuse scattering and vibrational spectroscopy with x-rays. Journal Physics D: Applied Physics, 2015, 48, 504003.	2.8	16
135	Identification, structural characterization and transformations of the high-temperature Zn <sub>9</sub> Sb <sub>7</sub> phase in the Zn-Sb system. Dalton Transactions, 2015, 44, 20983-20990.	3.3	12
136	In situ cell for X-ray single-crystal diffraction experiment at electric field. Journal of Surface Investigation, 2015, 9, 436-441.	0.5	12
137	Crystallography with synchrotron light. Journal Physics D: Applied Physics, 2015, 48, 504001.	2.8	1
138	Nebula: reconstruction and visualization of scattering data in reciprocal space. Journal of Applied Crystallography, 2015, 48, 604-607.	4.5	1
139	Diffuse scattering in lead-based relaxors: synchrotron experiments, data, and models. Phase Transitions, 2015, 88, 264-272.	1.3	7
140	Structure and chemical bonding in MgNi <sub>2</sub> H <sub>3</sub> from combined high resolution synchrotron and neutron diffraction studies and ab initio electronic structure calculations. Acta Materialia, 2015, 98, 416-422.	7.9	13
141	High-pressure synthesis of skiaegite-majorite garnet and investigation of its crystal structure. American Mineralogist, 2015, 100, 2650-2654.	1.9	6
142	Je <sub>3/4</sub> ekite, Na <sub>8</sub> [(UO <sub>2</sub> )(CO <sub>3</sub> ) <sub>3</sub> ](SO <sub>4</sub> ) <sub>2</sub> ·3H <sub>2</sub> O, a new uranyl mineral from Jáchymov, Czech Republic. Journal of Geosciences (Czech Republic), 2015, , 259-267.	0.6	8
143	Diffuse scattering in Ih ice. Journal of Physics Condensed Matter, 2014, 26, 265401.	1.8	15
144	High pressure x-ray diffraction study of nickel-copper chromites solid solutions. Journal of Physics Condensed Matter, 2014, 26, 505401.	1.8	1

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145	Lattice dynamics and antiferroelectricity in $\text{PbZrO}_3$ by x-ray and Brillouin light scattering. <i>Physical Review B</i> , 2014, 90, .	8.9	36
146	Short-Range Correlations in Magnetite above the Verwey Temperature. <i>Physical Review X</i> , 2014, 4, .	8.9	36
147	Diffuse scattering in metallic tin polymorphs. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 115401.	1.8	10
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