

Jon P Wright

List of Publications by Year in descending order

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171
papers

6,394
citations

94269

37
h-index

74018

75
g-index

180
all docs

180
docs citations

180
times ranked

7198
citing authors

#	ARTICLE	IF	CITATIONS
1	The fast azimuthal integration Python library: <i>pyFAI</i> . <i>Journal of Applied Crystallography</i> , 2015, 48, 510-519.	1.9	518
2	Thermal stability of retained austenite in TRIP steels studied by synchrotron X-ray diffraction during cooling. <i>Acta Materialia</i> , 2005, 53, 5439-5447.	3.8	460
3	Charge order and three-site distortions in the Verwey structure of magnetite. <i>Nature</i> , 2012, 481, 173-176.	13.7	424
4	Charge ordered structure of magnetite Fe_3O_4 below the Verwey transition. <i>Physical Review B</i> , 2002, 66, .	1.1	303
5	Long Range Charge Ordering in Magnetite Below the Verwey Transition. <i>Physical Review Letters</i> , 2001, 87, 266401.	2.9	295
6	Martensitic transformation of individual grains in low-alloyed TRIP steels. <i>Scripta Materialia</i> , 2007, 56, 421-424.	2.6	245
7	Characterization of individual retained austenite grains and their stability in low-alloyed TRIP steels. <i>Acta Materialia</i> , 2007, 55, 6713-6723.	3.8	226
8	Determining grain resolved stresses in polycrystalline materials using three-dimensional X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2010, 43, 539-549.	1.9	175
9	High-energy X-ray diffraction study on the temperature-dependent mechanical stability of retained austenite in low-alloyed TRIP steels. <i>Acta Materialia</i> , 2012, 60, 565-577.	3.8	175
10	Grain-resolved analysis of localized deformation in nickel-titanium wire under tensile load. <i>Science</i> , 2016, 353, 559-562.	6.0	154
11	Rate-Induced Solubility and Suppression of the First-Order Phase Transition in Olivine $LiFePO_4$. <i>Nano Letters</i> , 2014, 14, 2279-2285.	4.5	148
12	X-ray translocators: focusing devices based on compound refractive lenses. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 125-133.	1.0	147
13	Direct view on the phase evolution in individual $LiFePO_4$ nanoparticles during Li-ion battery cycling. <i>Nature Communications</i> , 2015, 6, 8333.	5.8	121
14	Quantifying Interparticle Forces and Heterogeneity in 3D Granular Materials. <i>Physical Review Letters</i> , 2016, 117, 098005.	2.9	109
15	PyFAI: a Python library for high performance azimuthal integration on GPU. <i>Powder Diffraction</i> , 2013, 28, S339-S350.	0.4	96
16	Multigrain crystallography. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 63-78.	1.1	95
17	Strong grain neighbour effects in polycrystals. <i>Nature Communications</i> , 2018, 9, 171.	5.8	92
18	The effect of aluminium and phosphorus on the stability of individual austenite grains in TRIP steels. <i>Acta Materialia</i> , 2009, 57, 533-543.	3.8	80

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19	FabIO: easy access to two-dimensional X-ray detector images in Python. <i>Journal of Applied Crystallography</i> , 2013, 46, 537-539.	1.9	75
20	In situ synchrotron study on the interplay between martensite formation, texture evolution and load partitioning in low-alloyed TRIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6407-6416.	2.6	68
21	Powder crystallography on macromolecules. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, 169-180.	0.3	63
22	Study of 3-D stress development in parent and twin pairs of a hexagonal close-packed polycrystal: Part II " crystal plasticity finite element modeling. <i>Acta Materialia</i> , 2015, 93, 235-245.	3.8	61
23	Grain-resolved elastic strains in deformed copper measured by three-dimensional X-ray diffraction. <i>Materials Characterization</i> , 2011, 62, 651-660.	1.9	60
24	Electronic orders in the Verwey structure of magnetite. <i>Physical Review B</i> , 2012, 85, .	1.1	59
25	Study of 3-D stress development in parent and twin pairs of a hexagonal close-packed polycrystal: Part I " in-situ three-dimensional synchrotron X-ray diffraction measurement. <i>Acta Materialia</i> , 2015, 93, 246-255.	3.8	56
26	High energy X-ray transfocator based on Al parabolic refractive lenses for focusing and collimation. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012073.	0.3	51
27	Can intergranular force transmission be identified in sand?. <i>Granular Matter</i> , 2011, 13, 251-254.	1.1	51
28	Deformation-induced orientation spread in individual bulk grains of an interstitial-free steel. <i>Acta Materialia</i> , 2015, 85, 301-313.	3.8	50
29	Mechanical stability of individual austenite grains in TRIP steel studied by synchrotron X-ray diffraction during tensile loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 280-287.	2.6	48
30	The Structure of Water in α -Sulfonatocalix[4]arene. <i>Chemistry - A European Journal</i> , 2011, 17, 10259-10271.	1.7	46
31	Co-emergence of magnetic order and structural fluctuations in magnetite. <i>Nature Communications</i> , 2019, 10, 2857.	5.8	43
32	Resonant x-ray diffraction study of the charge ordering in magnetite. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 7633-7642.	0.7	42
33	Second SH3 Domain of Ponsin Solved from Powder Diffraction. <i>Journal of the American Chemical Society</i> , 2007, 129, 11865-11871.	6.6	42
34	Solving Larger Molecular Crystal Structures from Powder Diffraction Data by Exploiting Anisotropic Thermal Expansion. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2029-2032.	7.2	40
35	Photostrictive/Piezomagnetic Core-Shell Particles Based on Prussian Blue Analogues: Evidence for Confinement Effects?. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13186-13195.	1.5	40
36	Charge localization in the Verwey structure of magnetite. <i>Physical Review B</i> , 2015, 92, .	1.1	40

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37	Revealing metallic ink in Herculaneum papyri. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3751-3754.	3.3	40
38	Scanning 3DXRD Measurement of Grain Growth, Stress, and Formation of Cu ₆ Sn ₅ around a Tin Whisker during Heat Treatment. Materials, 2019, 12, 446.	1.3	38
39	Reconstructing intragranular strain fields in polycrystalline materials from scanning 3DXRD data. Journal of Applied Crystallography, 2020, 53, 314-325.	1.9	36
40	Variable temperature powder neutron diffraction study of the Verwey transition in magnetite Fe ₃ O ₄ . Solid State Sciences, 2000, 2, 747-753.	1.5	34
41	Structural, magnetic, and spectroscopic studies of YAgSn, TmAgSn, and LuAgSn. Journal of Solid State Chemistry, 2006, 179, 2376-2385.	1.4	33
42	Friedel-pair based indexing method for characterization of single grains with hard X-rays. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 64-68.	2.6	33
43	Grain interaction mechanisms leading to intragranular orientation spread in tensile deformed bulk grains of interstitial-free steel. International Journal of Plasticity, 2017, 88, 108-125.	4.1	32
44	High-throughput phase-diagram mapping via powder diffraction: a case study of HEWL versus pH. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1612-1625.	2.5	31
45	Spatially Resolved In Situ Structural Study of Organic Electronic Devices with Nanoscale Resolution: The Plasmonic Photovoltaic Case Study. Advanced Materials, 2013, 25, 4760-4765.	11.1	31
46	On the nucleation of deformation twins at the early stages of plasticity. Acta Materialia, 2020, 196, 733-746.	3.8	31
47	Discovery and Structure Determination of an Unusual Sulfide Telluride through an Effective Combination of TEM and Synchrotron Microdiffraction. Angewandte Chemie - International Edition, 2015, 54, 10020-10023.	7.2	30
48	Extraction and use of correlated integrated intensities with powder diffraction data. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 791-802.	0.4	29
49	Impurity precipitation in atomized particles evidenced by nano x-ray diffraction computed tomography. Applied Physics Letters, 2014, 105, .	1.5	29
50	Heterogeneous grain-scale response in ferroic polycrystals under electric field. Scientific Reports, 2016, 6, 22820.	1.6	28
51	Operando and Postreaction Diffraction Imaging of the La ³⁺ /Sr/CaO Catalyst in the Oxidative Coupling of Methane Reaction. Journal of Physical Chemistry C, 2019, 123, 1751-1760.	1.5	28
52	Synchrotron X-ray powder diffraction study of hexagonal turkey egg-white lysozyme. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 423-432.	2.5	27
53	The Verwey structure of a natural magnetite. Chemical Communications, 2016, 52, 4864-4867.	2.2	25
54	New opportunities at the Materials Science Beamline at ESRF to exploit high energy nano-focus X-ray beams. Current Opinion in Solid State and Materials Science, 2020, 24, 100818.	5.6	25

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55	In situ synchrotron X-ray diffraction of ferroelastic La _{0.8} Ca _{0.2} CoO ₃ ceramics during uniaxial compression. <i>Acta Materialia</i> , 2006, 54, 2615-2624.	3.8	24
56	Nitridophosphate-Based Ultra-Narrow-Band Blue-Emitters: Luminescence Properties of $\text{P}_{28}\text{N}_{14}\text{Eu}_2$ (Ca, Sr, Ba). <i>Chemistry - A European Journal</i> , 2020, 26, 7292-7298.	1.7	24
57	Polymorphism of microcrystalline urate oxidase from <i>Aspergillus flavus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 539-548.	2.5	23
58	In situ synchrotron analysis of lattice rotations in individual grains during stress-induced martensitic transformations in a polycrystalline CuAlBe shape memory alloy. <i>Acta Materialia</i> , 2011, 59, 3636-3645.	3.8	22
59	The thermodynamic effect of nonhydrostatic stress on the Verwey transition. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 207-217.	1.8	22
60	Structural studies of human insulin cocrystallized with phenol or resorcinol via powder diffraction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1632-1641.	2.5	22
61	On the calibration of high-energy X-ray diffraction setups. I. Assessing tilt and spatial distortion of the area detector. <i>Journal of Applied Crystallography</i> , 2014, 47, 1042-1053.	1.9	22
62	On the state of deformation in a polycrystalline material in three-dimension: Elastic strains, lattice rotations, and deformation mechanisms. <i>International Journal of Plasticity</i> , 2018, 106, 145-163.	4.1	22
63	Structure evolution of soft magnetic (Fe ₃₆ Co ₃₆ B _{19.2} Si _{4.8} Nb ₄) _{100-x} Cu ($x=0$ and 0.5) bulk glassy alloys. <i>Acta Materialia</i> , 2015, 95, 335-342.	3.8	21
64	Multi-scale mechanics of granular solids from grain-resolved X-ray measurements. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170491.	1.0	21
65	Structural modifications in sub-T _g annealed CuZr-based metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 245-252.	2.6	21
66	High-resolution powder X-ray data reveal the T ₆ hexameric form of bovine insulin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 978-990.	2.5	20
67	Improving stability of organic devices: a time/space resolved structural monitoring approach applied to plasmonic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 617-624.	3.0	20
68	Human insulin polymorphism upon ligand binding and pH variation: the case of 4-ethylresorcinol. <i>IUCr</i> , 2015, 2, 534-544.	1.0	19
69	Direct Synthesis of Cubic ZrMo ₂ O ₈ Followed by Ultrafast In Situ Powder Diffraction. <i>Journal of the American Chemical Society</i> , 2009, 131, 17560-17562.	6.6	17
70	Comparison between a near-field and a far-field indexing approach for characterization of a polycrystalline sample volume containing more than 1500 grains. <i>Journal of Applied Crystallography</i> , 2014, 47, 1402-1416.	1.9	17
71	Three-dimensional experimental granular mechanics. <i>Geotechnique Letters</i> , 2015, 5, 236-242.	0.6	17
72	Novel crystalline phase and first-order phase transitions of human insulin complexed with two distinct phenol derivatives. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 819-828.	2.5	17

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73	Powder diffraction studies on proteins: An overview of data collection approaches. Zeitschrift für Kristallographie, Supplement, 2007, 2007, 1-13.	0.5	16
74	High-Temperature Processing of Ba ₃ ZnTa ₂ O ₉ : an In situ Study Using Synchrotron X-ray Powder Diffraction. Chemistry of Materials, 2007, 19, 4731-4740.	3.2	15
75	Cation ordering/disordering kinetics in Ba ₃ CoNb ₂ O ₉ : An in situ study using synchrotron x-ray powder diffraction. Applied Physics Letters, 2007, 91, 222901.	1.5	15
76	Alignment of Plate-Like Particles in a Colloidal Dispersion under Flow in a Uniform Pipe Studied by High-Energy X-ray Diffraction. Langmuir, 2010, 26, 18701-18709.	1.6	15
77	Stability enhancement of organic photovoltaic devices utilizing partially reduced graphene oxide as the hole transport layer: nanoscale insight into structural/interfacial properties and aging effects. RSC Advances, 2015, 5, 106930-106940.	1.7	15
78	Quantitative grain-scale ferroic domain volume fractions and domain switching strains from three-dimensional X-ray diffraction data. Journal of Applied Crystallography, 2015, 48, 882-889.	1.9	15
79	Electromechanical Response of Polycrystalline Barium Titanate Resolved at the Grain Scale. Journal of the American Ceramic Society, 2017, 100, 393-402.	1.9	15
80	<i>Operando</i> Nanobeam Diffraction to Follow the Decomposition of Individual Li ₂ O ₂ Grains in a Nonaqueous Li ⁺ O ₂ Battery. Journal of Physical Chemistry Letters, 2016, 7, 3388-3394.	2.1	14
81	High-resolution powder neutron diffraction study of helimagnetic order in CrP _{1-x} V _x O ₄ solid solutions. Physical Review B, 2000, 62, 992-997.	1.1	13
82	In-situ observation of the nucleation kinetics and the mechanism of grain refinement in Al ⁺ Si alloys (Part I). Materials Letters, 2010, 64, 1016-1018.	1.3	13
83	Simultaneous X-ray diffraction from multiple single crystals of macromolecules. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 608-618.	2.5	13
84	Total scattering experiments on glass and crystalline materials at the ESRF on the ID11 Beamline. Powder Diffraction, 2015, 30, S2-S8.	0.4	13
85	Structure of lithium benzilate hemihydrate solved by simulated annealing and difference Fourier synthesis from powder data. Acta Crystallographica Section B: Structural Science, 2003, 59, 378-383.	1.8	12
86	Location of Mn sites in ferromagnetic Ga _{1-x} Mn _x As studied by means of X-ray diffuse scattering holography. Journal of Applied Crystallography, 2006, 39, 735-738.	1.9	12
87	Molecular envelopes derived from protein powder diffraction data. Journal of Applied Crystallography, 2008, 41, 329-339.	1.9	12
88	Advanced gas hydrate studies at ambient conditions using suspended droplets. Chemical Communications, 2011, 47, 9369.	2.2	12
89	Charge-density analysis using multipolar atom and spherical charge models: 2-methyl-1,3-cyclopentanedione, a compound displaying a resonance-assisted hydrogen bond. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 197-211.	0.5	12
90	Cationic Pb ₂ Dumbbells Stabilized in the Highly Covalent Lead Nitridosilicate Pb ₂ Si ₅ N ₈ . Angewandte Chemie - International Edition, 2019, 58, 1432-1436.	7.2	12

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91	Formation and annihilation of stressed deformation twins in magnesium. <i>Communications Materials</i> , 2021, 2, .	2.9	12
92	Successful protein cryocooling for powder diffraction. <i>Journal of Applied Crystallography</i> , 2007, 40, 121-124.	1.9	11
93	Domain switching in rhombohedral PZT ceramics under electrical and mechanical loading. <i>Materials Science and Technology</i> , 2008, 24, 927-933.	0.8	11
94	Time-dependent analysis of K ₂ PtBr ₆ binding to lysozyme studied by protein powder and single crystal X-ray analysis. <i>Zeitschrift für Kristallographie</i> , 2010, 225, 570-575.	1.1	11
95	Dense SixGe _{1-x} (0 < x < 1) Materials Landscape Using Extreme Conditions and Precession Electron Diffraction. <i>Inorganic Chemistry</i> , 2014, 53, 5656-5662.	1.9	11
96	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 877-884.	0.4	11
97	Exploiting Confinement to Study the Crystallization Pathway of Calcium Sulfate. <i>Advanced Functional Materials</i> , 2021, 31, 2107312.	7.8	11
98	Deciphering mineralogical changes and carbonation development during hydration and ageing of a consolidated ternary blended cement paste. <i>IUCr</i> , 2018, 5, 150-157.	1.0	11
99	Nitridic Analogs of Micas $\text{Si}_3\text{P}_4\text{N}_{10}(\text{NH})_2$ (Mg , $\text{Mg}_{0.94}\text{Ca}_{0.06}$, Ca , Sr). <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114902.	7.2	11
100	Features of the secondary structure of a protein molecule from powder diffraction data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 756-761.	2.5	10
101	Planar Perovskite Solar Cells: Local Structure and Stability Issues. <i>Solar Rrl</i> , 2017, 1, 1700066.	3.1	10
102	Quantifying local rearrangements in three-dimensional granular materials: Rearrangement measures, correlations, and relationship to stresses. <i>Physical Review E</i> , 2022, 105, 014904.	0.8	10
103	Intermetallic phase detection in lead-free solders using synchrotron x-ray diffraction. <i>Journal of Electronic Materials</i> , 2004, 33, 1524-1529.	1.0	9
104	Residual stress relief due to fatigue in tetragonal lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2013, 114, 024103.	1.1	9
105	Information on real-structure phenomena in metastable GeTe-rich germanium antimony tellurides (GeTe) _n Sb ₂ Te ₃ (n ≈ 3) by semi-quantitative analysis of diffuse X-ray scattering. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, .	0.4	9
106	The Crystal Structure of Ba ₃ Cu ₂ Al ₂ F ₁₆ : a Relative of Ba ₄ Cu ₂ Al ₃ F ₂₁ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 1960-1964.	0.6	8
107	Preliminary insights into the non structural protein 3 macro domain of the Mayaro virus by powder diffraction. <i>Zeitschrift für Kristallographie</i> , 2010, 225, .	1.1	8
108	Progressive melting in confined one-dimensional C ₆₀ chains. <i>Physical Review B</i> , 2012, 86, .	1.1	8

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109	Optimizing shape uniformity and increasing structure heights of deep reactive ion etched silicon x-ray lenses. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 125013.	1.5	8
110	Dithiophene-TTF Salts; New Ladder Structures and Spin-Ladder Behavior. <i>Inorganic Chemistry</i> , 2015, 54, 7000-7006.	1.9	8
111	RE ₄ Ba ₂ [Si ₁₂ O ₂ N ₁₆ C ₃]:Eu ²⁺ (RE = Lu, Y): Green-Yellow Emitting Oxonitridocarbidosilicates with a Highly Condensed Network Structure Unraveled through Synchrotron Microdiffraction. <i>Inorganic Chemistry</i> , 2018, 57, 13840-13846.	1.9	8
112	Site-selective doping of ordered charge states in magnetite. <i>Nature Communications</i> , 2020, 11, 1671.	5.8	8
113	Exploiting X-ray induced anisotropic lattice changes to improve intensity extraction in protein powder diffraction: Application to heavy atom detection. <i>Zeitschrift für Kristallographie, Supplement</i> , 2007, 2007, 39-44.	0.5	8
114	Partial frustration of magnetic order in synthetic angelellite, Fe ₄ As ₂ O ₁₁ . <i>Dalton Transactions RSC</i> , 2000, , 3663-3668.	2.3	7
115	Experimental verification of dynamical diffraction focusing by a bent crystal wedge in Laue geometry. <i>Journal of Applied Crystallography</i> , 2008, 41, 695-700.	1.9	7
116	The verwey phase of magnetite – a long-running mystery in magnetism. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1372-1375.	0.3	7
117	Pressure-induced structural and magnetic phase transitions in ordered and disordered equiatomic FeCo. <i>Physical Review B</i> , 2013, 88, .	1.1	7
118	Creating Reactivity with Unstable Endmembers using Pressure and Temperature: Synthesis of Bulk Cubic Mg _{0.4} Fe _{0.6} N. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15109-15112.	7.2	7
119	Revealing Operando Transformation Dynamics in Individual Li-ion Electrode Crystallites Using X-Ray Microbeam Diffraction. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	7
120	BaP ₆ N ₁₀ NH:Eu ²⁺ as a Case Study – An Imidonitridophosphate Showing Luminescence. <i>Chemistry - A European Journal</i> , 2020, 26, 5010-5016.	1.7	7
121	Crystal structure determination of a lifelong biopersistent asbestos fibre using single-crystal synchrotron X-ray micro-diffraction. <i>IUCr</i> , 2021, 8, 76-86.	1.0	7
122	Beam heating from a fourth-generation synchrotron source. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1377-1385.	1.0	7
123	Depicting the crystal structure of fibrous ferrierite from British Columbia using a combined synchrotron techniques approach. <i>Journal of Applied Crystallography</i> , 2019, 52, 1397-1408.	1.9	7
124	Effect of iron on delithiation in Li _x Co _{1-y} FeyO ₂ . Part 1: in-situ electrochemical and X-ray diffraction study. <i>Journal of Materials Chemistry</i> , 2004, 14, 94-101.	6.7	6
125	The texture of Nd oxide grains in Nd-Fe-B sintered magnets studied by synchrotron radiation. <i>Journal of Applied Physics</i> , 2011, 110, 026103.	1.1	6
126	Synthesis and high-resolution study distinguishing between very similar interstitial iron nitride structures. <i>High Pressure Research</i> , 2015, 35, 28-36.	0.4	6

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127	Likelihood methods with protein powder diffraction data. Zeitschrift für Kristallographie, Supplement, 2007, 2007, 27-32.	0.5	6
128	Synchrotron Nano-Diffraction Study of Thermally Treated Asbestos Tremolite from Val d'Aosta, Turin (Italy). Minerals (Basel, Switzerland), 2018, 8, 311.	0.8	5
129	Using Powder Diffraction Patterns to Calibrate the Module Geometry of a Pixel Detector. Crystals, 2022, 12, 255.	1.0	5
130	Helimagnetic order in ferric arsenate, FeAsO ₄ . Journal of Physics Condensed Matter, 1999, 11, 1473-1478.	0.7	4
131	The low-temperature structure of nopinone. Zeitschrift für Kristallographie, 2008, 223, 602-604.	1.1	4
132	Solid solution along the synthetic LiAlSi ₂ O ₆ -LiFeSi ₂ O ₆ (spodumene-ferri-spodumene) join: A general picture of solid solutions, bond lengths, lattice strains, steric effects, symmetries, and chemical compositions of Li clinopyroxenes. American Mineralogist, 2016, 101, 2498-2513.	0.9	4
133	Probing structural chirality with high-energy synchrotron radiation. Journal of Applied Crystallography, 2016, 49, 918-922.	1.9	4
134	Electronic origin of negative thermal expansion in V ₂ OPO ₄ . Chemical Communications, 2020, 56, 6523-6526.	2.2	4
135	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. ACS Nano, 2021, 15, 2386-2398.	7.3	4
136	Nitridic Analogs of Micas AESi ₃ P ₄ N ₁₀ (NH) ₂ (AE = Mg, Mg _{0.94} Ca _{0.06} , Ca, Sr). Angewandte Chemie, 2022, 134, e202114902.	1.6	4
137	Multi-scale in situ mechanical investigation of the superelastic behavior of a Cu-Al-Be polycrystalline shape memory alloy. Acta Materialia, 2022, 235, 118107.	3.8	4
138	Crystallographic Phase Composition and Structural Analysis of Ti-Ni-Fe Shape Memory Alloy by Synchrotron Diffraction. Solid State Phenomena, 2005, 105, 139-144.	0.3	3
139	Residual and bending stress measurements by X-ray diffraction and synchrotron diffraction analysis in silicon solar cells. , 2012, , .		3
140	Multi length scale characterization of austenite in TRIP steels using high-energy X-ray diffraction. Powder Diffraction, 2013, 28, 77-80.	0.4	3
141	High-resolution X-ray diffraction investigation on the evolution of the substructure of individual austenite grains in TRIP steels during tensile deformation. Journal of Applied Crystallography, 2014, 47, 965-973.	1.9	3
142	High temperature investigation of SiO ₂ -Al ₂ O ₃ -ZnO-Na ₂ O glass for ceramic-glaze: in situ/ex-situ synchrotron diffraction and conventional approaches. Ceramics International, 2018, 44, 6395-6401.	2.3	3
143	X-ray diffraction and heterogeneous materials: An adaptive crystallography approach. Comptes Rendus Physique, 2018, 19, 553-560.	0.3	3
144	In situ synchrotron analysis of phase transformation at high temperatures in ODS ferritic steel. Journal of Materials Science, 2020, 55, 5600-5612.	1.7	3

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145	Texture Memory in Si-Mn and ODS Steels Observed In Situ by Pulsed Neutron and Synchrotron X-Ray Diffractions and Prediction by Double Kurdjumov-Sachs Relation: A Concept for Intense Variant Selection. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1368-1381.	1.1	3
146	Hexagonal Si [~] Ge Class of Semiconducting Alloys Prepared by Using Pressure and Temperature. <i>Chemistry - A European Journal</i> , 2021, 27, 14217-14224.	1.7	3
147	Non-destructive determination of phase, size, and strain of individual grains in polycrystalline photovoltaic materials. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161364.	2.8	3
148	Design and Technical Aspects of a New in Vacuum Transfocator at ESRF Beamline ID11. , 2010, , .		2
149	Measurement of lattice rotations and internal stresses in over one hundred individual grains during a stress-induced martensitic transformation. <i>MATEC Web of Conferences</i> , 2015, 33, 02003.	0.1	2
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