Thomas R Welberry

List of Publications by Year
in descending order

197	3,606	147801 31	189892 50
papers	citations	h-index	g-index

199	199	199	2197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-pressure x-ray scattering of oxides with a nanoscale local structure: Application toNa1/2Bi1/2TiO3. Physical Review B, 2003, 68, .	3.2	170
2	Diffuse x-ray scattering and models of disorder. Reports on Progress in Physics, 1985, 48, 1543-1594.	20.1	156
3	Local crystal chemistry, induced strain and short range order in the cubic pyrochlore (Bi1.5â^Î±Zn0.5â^Î²)(Zn0.5â^Î³Nb1.5â^Î´)O(7â^1.5Î±â^Î²â^Î³â^2.5Î´) (BZN). Journal of Solid State Chemistry, 2004, 177, 231-244.	2.9	105
4	Interpretation of diffuse X-ray scatteringviamodels of disorder. Journal of Applied Crystallography, 1994, 27, 205-231.	4.5	101
5	Diffuse X-ray Scattering from Disordered Crystals. Chemical Reviews, 1995, 95, 2369-2403.	47.7	95
6	Calculation of diffuse scattering from simulated disordered crystals: a comparison with optical transforms. Journal of Applied Crystallography, 1992, 25, 391-399.	4.5	92
7	One hundred years of diffuse scattering. Crystallography Reviews, 2016, 22, 2-78.	1.5	87
8	An electron diffraction and lattice-dynamical study of the diffuse scattering in Î²-cristobalite, SiO2. Journal of Applied Crystallography, 1988, 21, 458-465.	4.5	71
9	Polar nanoregions and diffuse scattering in the relaxor ferroelectric PbMg<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>Nb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/. Physical Review B, 2012, 85, .	3.2	67
10	A 3D Model for the Diffuse Scattering in Cubic Stabilized Zirconias. Journal of Solid State Chemistry, 1993, 106, 461-475.	2.9	65
11	Defect distribution and the diffuse X-ray diffraction pattern of wÃ¼stite, Fe 1â^'x O. Physics and Chemistry of Minerals, 1997, 24, 24-38.	0.8	64
12	The structure and microstructure of Î±-cristobalite and its relationship to Î²-cristobalite. Physics and Chemistry of Minerals, 1989, 16, 517-523.	0.8	63
13	Chemical origin of nanoscale polar domains inPbZn1â^•3Nb2â^•3O3. Physical Review B, 2006, 74, .	3.2	61
14	An optical transform and Monte Carlo study of the disorder in Î²-cristobalite SiO2. Journal of Applied Crystallography, 1989, 22, 87-95.	4.5	55
15	Diffuse scattering study of aspirin forms (I) and (II). Acta Crystallographica Section B: Structural Science, 2010, 66, 696-707.	1.8	55
16	Analysis of Single-Crystal Diffuse X-ray ScatteringviaAutomatic Refinement of a Monte Carlo Model. Acta Crystallographica Section A: Foundations and Advances, 1998, 54, 661-674.	0.3	53
17	Single-crystal neutron diffuse scattering and Monte Carlo study of the relaxor ferroelectric PbZn1/3Nb2/3O3(PZN). Journal of Applied Crystallography, 2005, 38, 639-647.	4.5	53
18	Diffuse X-ray Scattering and Monte-Carlo Study of Guestâ€“Host Interactions in Urea Inclusion Compounds. Journal of Applied Crystallography, 1996, 29, 353-364.	4.5	50

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19	A two-dimensional model of crystal-growth disorder. Journal of Applied Crystallography, 1973, 6, 87-96.	4.5	49
20	Diffuse scattering in yttria-stabilized cubic zirconia. Journal of Solid State Chemistry, 1992, 100, 71-89.	2.9	49
21	Diffuse X-ray scattering from benzil, C14H10O2: analysisviaautomatic refinement of a Monte Carlo model. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 101-109.	0.3	44
22	A Modulation Wave Approach to Understanding the Disordered Structure of Cubic Stabilized Zirconias (CSZs). Journal of Solid State Chemistry, 1995, 115, 43-54.	2.9	42
23	Analysis of Diffuse Scatteringviathe Reverse Monte Carlo Technique: a Systematic Investigation. Acta Crystallographica Section A: Foundations and Advances, 1997, 53, 202-216.	0.3	38
24	A position-sensitive detector system for the measurement of diffuse X-ray scattering. Journal of Applied Crystallography, 1990, 23, 476-484.	4.5	37
25	A Paracrystalline Description of Defect Distributions in WÃ¼stite, Fe1-xO. Journal of Solid State Chemistry, 1995, 117, 398-406.	2.9	36
26	The interpretation and analysis of diffuse scattering using Monte Carlo simulation methods. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, 23-32.	0.3	35
27	Analysis of diffuse scattering of single crystals using monte carlo methods. Phase Transitions, 1998, 67, 373-397.	1.3	33
28	Oxygen/fluorine ordering, structured diffuse scattering and the local crystal chemistry of K3MoO3F3. Journal of Solid State Chemistry, 2003, 170, 211-220.	2.9	33
29	Multi-site correlations and the atomic size effect. Journal of Applied Crystallography, 1986, 19, 382-389.	4.5	32
30	Crystal chemistry on a lattice: The case of BZN and BZN-related pyrochlores. Journal of Solid State Chemistry, 2006, 179, 2141-2149.	2.9	32
31	The geometry, topology and structure of amorphous solids. Acta Materialia, 2010, 58, 615-625.	7.9	32
32	A neutron diffuse scattering study of PbZrO₃and Zr-rich PbZr_{1â€“x}Ti_xO₃. Journal of Applied Crystallography, 2015, 48, 1637-1644.	4.5	32
33	Monte Carlo Modeling of Diffuse Scattering from Single Crystals: The Program ZMC. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 23-31.	2.2	31
34	Diffuse scattering and partial disorder in complex structures. IUCrJ, 2014, 1, 550-562.	2.2	31
35	Analysis of Diffuse Scattering from Single Crystals via the Reverse Monte Carlo Technique. I. Comparison with Direct Monte Carlo. Journal of Applied Crystallography, 1998, 31, 309-317.	4.5	30
36	Different models for the polar nanodomain structure of PZN and other relaxor ferroelectrics. Journal of Applied Crystallography, 2008, 41, 606-614.	4.5	30

#	Article	IF	Citations
37	Paracrystals and growth-disorder models. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1980, 36, 921-929.	0.6	29
38	Microdomains, Solid Solutions and the "Defect Fluorite" to C-Type Sesquioxide Transition in CeO2-RO1.5 and ZrO2-RO1.5 Systems. Journal of Solid State Chemistry, 1995, 120, 290-298.	2.9	29
39	Shear induced anisotropy in two-dimensional liquids. Physica A: Statistical Mechanics and Its Applications, 1988, 149, 406-431.	2.6	28
40	Diffuse absences due to the atomic size effect. Acta Crystallographica Section A: Foundations and Advances, 1992, 48, 737-746.	0.3	28
41	On the polymorphism of benzocaine; a low-temperature structural phase transition for form (II). Acta Crystallographica Section B: Structural Science, 2009, 65, 509-515.	1.8	27
42	Single-crystal diffuse scattering studies on polymorphs of molecular crystals. I. The room-temperature polymorphs of the drug benzocaine. Acta Crystallographica Section B: Structural Science, 2009, 65, 382-392.	1.8	26
43	Diffuse scattering resulting from macromolecular frustration. Acta Crystallographica Section B: Structural Science, 2011, 67, 516-524.	1.8	26
44	Disorder in pentachloronitrobenzene, C6Cl5NO2: a diffuse scattering study. Acta Crystallographica Section B: Structural Science, 2007, 63, 663-673.	1.8	25
45	Dynamic Displacement Disorder of Cubic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn	7.8	25
	Physical Review Letters, 2018, 120, 167601.		
46	Diffuse X-ray scattering and strain effects in disordered crystals. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 244-255.	0.3	24
47	A phase transition in a 3D growth-disorder model. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1978, 34, 120-123.	0.6	23
48	Problems in measuring diffuse X-ray scattering. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 1052-1058.	0.8	23
49	An electron diffraction and Monte Carlo simulation study of diffuse scattering in Pb(Zr,Ti)O3. Journal of Applied Crystallography, 2008, 41, 930-938.	4.5	23
50	The effect of non-linearity on a two-dimensional model of crystal-growth disorder. Journal of Applied Crystallography, 1975, 8, 636-644.	4.5	22
51	Crystal structure of acenaphthylene, C12H8, at 80 K by neutron diffraction. Journal of the Chemical Society Perkin Transactions II, 1985, , 451.	0.9	22
52	Diffuse neutron scattering in benzil, C14D10O2, using the time-of-flight Laue technique. Journal of Applied Crystallography, 2003, 36, 1440-1447.	4.5	22
53	Coupled orientational and displacive degrees of freedom in the high-temperature plastic phase of the carbon tetrabromide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">Br</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>.	3.2	22
	Physical Review B, 2008, 77, .		
54	Monte Carlo Study of the quasicrystal-to-crystal transformation using an approach based on the Gummelt covering. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 109-118.	0.8	21

#	Article	IF	Citations
55	Deformed model sets and distorted Penrose tilings. Zeitschrift Fur Kristallographie - Crystalline Materials, 2006, 221, 621-634.	0.8	21
56	Diffuse scattering and local structure modeling in ferroelectrics. Zeitschrift FÃ¼r Kristallographie, 2011, 226, 113-125.	1.1	21
57	Scattering of two-dimensional models of microemulsions. Journal of Colloid and Interface Science, 1988, 123, 413-426.	9.4	20
58	The crystal structure of nickel arsenide. Journal of Physics C: Solid State Physics, 1988, 21, 4007-4015.	1.5	20
59	Elucidation of zeolite microstructure by synchrotron X-ray diffuse scattering. Journal of Applied Crystallography, 2004, 37, 187-192.	4.5	20
60	Atomistic modeling of diffuse scattering in cubic PbZrO₃. Phase Transitions, 2015, 88, 273-282.	1.3	20
61	Solution of crystal growth disorder models by imposition of symmetry. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1977, 353, 363-376.	1.4	19
62	Interpretation of displacement-caused diffuse scattering using the Taylor expansion. Acta Crystallographica Section A: Foundations and Advances, 1993, 49, 736-743.	0.3	19
63	An improved method for analysing single crystal diffuse scattering using the Reverse Monte Carlo technique. Zeitschrift Fur Kristallographie - Crystalline Materials, 1997, 212, .	0.8	19
64	Structured diffuse scattering and the fundamental 1-d dipolar unit in PLZT (Pb1â^'yLay)1â^'Î±(Zr1â^'xTix)1â^'Î²O3 (7.5/65/35 and 7.0/60/40) transparent ferroelectric ceramics. Journal of Solid State Chemistry, 2009, 182, 348-355.	2.9	19
65	A refinement strategy for Monte Carlo modelling of diffuse scattering from molecular crystal systems. Journal of Applied Crystallography, 2010, 43, 913-915.	4.5	19
66	Analysis of diffuse scattering from the mineral mullite. Journal of Applied Crystallography, 1994, 27, 742-754.	4.5	18
67	Precursor effects of the orthorhombic to monoclinic phase transition in benzocaine form (II) revealed by X-ray diffuse scattering. Acta Crystallographica Section B: Structural Science, 2010, 66, 260-270.	1.8	18
68	Diffuse scattering and the mechanism for the phase transition in triglycine sulphate. Journal of Materials Science, 2013, 48, 6605-6612.	3.7	18
69	On Certain Non-circular Zone Plates. Optica Acta, 1976, 23, 237-244.	0.7	17
70	An optical transform and Monte Carlo study of the diffuse X-ray scattering in mullite, Al2(Al2+2xSi2?2x)O10?x. Physics and Chemistry of Minerals, 1990, 17, 117.	0.8	17
71	'Size-effect'-like distortions in quasicrystalline structures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 422-426.	0.8	17
72	A TEM and XRD Study of (BiS)1+Î´(Nb1+ÎµS2)n Misfit Layer Structures. Journal of Solid State Chemistry, 1995, 115, 274-282.	2.9	16

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73	High-energy diffuse scattering on the 1-ID beamline at the Advanced Photon Source. Journal of Synchrotron Radiation, 2003, 10, 284-286.	2.4	16
74	Effect of High Pressure on the Relaxor Ferroelectrics Na1/2Bi1/2TiO3(NBT) and PbMg1/3Nb2/3O3(PMN). Ferroelectrics, 2004, 302, 293-298.	0.6	16
75	The crystal and molecular structure of the cis-dimer of acenaphthylene. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1971, 27, 360-365.	0.4	15
76	The molecular conformation of Ibuprofen, C13H18O2, through X-ray diffuse scattering. International Journal of Pharmaceutics, 2007, 343, 59-68.	5.2	15
77	Order and disorder in acenaphthylene. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1973, 334, 19-48.	1.4	14
78	Local order in a dense liquid. Physical Review A, 1988, 38, 1628-1631.	2.5	14
79	Molecular dynamics simulation of solid biphenyl. Molecular Physics, 1991, 73, 1317-1334.	1.7	14
80	Diffuse X-ray scattering and disorder inp-methyl-N-(p-chlorobenzylidene)aniline, C14H12ClN (ClMe): analysisviaautomatic refinement of a Monte Carlo model. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, 348-358.	0.3	14
81	Monte Carlo Simulation Study of Diffuse Scattering in PZT, Pb(Zr,Ti)O3. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1110-1118.	2.2	14
82	Optical-diffraction screens containing large numbers of apertures. Journal of Applied Crystallography, 1974, 7, 36-38.	4.5	13
83	Condensed phonon modes and the recently discovered displacive superlattice of nickel arsenide. Journal of Physics C: Solid State Physics, 1988, 21, 309-318.	1.5	13
84	Urotropin azelate: a rather unwilling co-crystal. Acta Crystallographica Section B: Structural Science, 2003, 59, 72-86.	1.8	13
85	Total scattering and pair distribution function analysis in modelling disorder in PZN (PbZn_{1/3}Nb_{2/3}O₃). IUCrJ, 2016, 3, 20-31.	2.2	13
86	Diffuse scattering in nickel arsenide, NiAs. Journal of Physics C: Solid State Physics, 1988, 21, 3863-3876.	1.5	12
87	The fourfold disordered structures of p-chloro-N-(p-methylbenzylidene)aniline and p-methyl-N-(p-chlorobenzylidene)aniline. Acta Crystallographica Section B: Structural Science, 1995, 51, 187-197.	1.8	12
88	Analysis of Diffuse Scattering from Single Crystals via the Reverse Monte Carlo Technique. II. The Defect Structure of Calcium-Stabilized Zirconia. Journal of Applied Crystallography, 1998, 31, 318-326.	4.5	12
89	Diffuse scattering and Monte Carlo simulations of cyclohexaneâ€“perhydrotriphenylene (PHTP) inclusion compounds, C6H12/C18H30. Journal of Applied Crystallography, 1999, 32, 464-471.	4.5	12
90	Optical transforms of disordered molecular crystals. Journal of Applied Crystallography, 1980, 13, 244-251.	4.5	11

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91	Optical transforms of disordered systems displaying diffuse intensity loci. Journal of Applied Crystallography, 1987, 20, 280-288.	4.5	11
92	Calculation of elastic constants for crystalline acenaphthylene, C12H8, using semi-empirical atom-atom potentials. Journal of Physics and Chemistry of Solids, 1988, 49, 421-424.	4.0	11
93	Lattice dynamics of Î±- and Î²-cristobalite, SiO2. Journal of Physics and Chemistry of Solids, 1989, 50, 207-213.	4.0	11
94	The rÃ1e of phase in diffuse diffraction patterns and its effect on real-space structure. Journal of Applied Crystallography, 1991, 24, 18-29.	4.5	11
95	Molecular dynamics simulation study of solid polyphenyls: Structures determined by the interplay between intra- and intermolecular forces. Molecular Physics, 1992, 75, 867-879.	1.7	11
96	Diffuse Scattering and Monte Carlo Studies of Relaxor Ferroelectrics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 3170-3178.	2.2	11
97	Assessing Local Structure in PbZn1/3Nb2/3O3 Using Diffuse Scattering and Reverse Monte Carlo Refinement. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 87-93.	2.2	11
98	A `concentration-wave' approach to understanding the disorder diffuse scattering in 1,3-dibromo-2,5-diethyl-4,6-dimethylbenzene, C12H16Br2. Acta Crystallographica Section B: Structural Science, 1990, 46, 267-275.	1.8	10
99	Diffuse X-ray scattering in potassium lithium sulfate, KLiSO4. Journal of Applied Crystallography, 1994, 27, 733-741.	4.5	10
100	High-energy X-ray diffuse scattering using Weissenberg flat-cone geometry. Journal of Applied Crystallography, 2000, 33, 1046-1050.	4.5	10
101	Connections between Ising Models and Various Probability Distributions. Advances in Applied Probability, 1978, 10, 65.	0.7	9
102	Analysis of the diffuse X-ray scattering from substitutionally disordered molecular crystals: monoclinic 9-bromo-10-methylanthracene. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1982, 38, 611-618.	0.6	9
103	Gaussian growth-disorder models and optical transform methods. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1982, 38, 761-772.	0.6	9
104	Local structural information of mullite obtained from diffuse X-ray scattering. Journal of the European Ceramic Society, 1996, 16, 187-193.	5.7	9
105	Inter-sublattice ordering correlations and the geometrical locus approach to localized diffuse scattering. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 753-762.	0.6	9
106	A room-temperature X-ray diffuse scattering study of form (II) of the trimorphic molecular system p-(N-methylbenzylidene)-p-methylaniline. Acta Crystallographica Section B: Structural Science, 2008, 64, 633-643.	1.8	9
107	Monte Carlo and Molecular Dynamics Simulation of Disorder in the Ag+ Fast Ion Conductors Pearceite and Polybasite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 6-13.	2.2	9
108	Stacking faults and superstructures in a layered brownmillerite. Acta Crystallographica Section B: Structural Science, 2011, 67, 476-485.	1.8	9

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109	Crystals exhibiting disorder â€“ the orthorhombic polymorph of 9-bromo-10-methylanthracene. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1982, 38, 1518-1525.	0.4	8
110	Further properties of a Gaussian model of disorder. Acta Crystallographica Section A: Foundations and Advances, 1983, 39, 233-245.	0.3	8
111	A transmission electron microscopy study of cristobalite. Phase Transitions, 1989, 16, 41-45.	1.3	8
112	A composite modulated structure mechanism for Ag+ fast ion conduction in pearceite and polybasite mineral solid electrolytes. Solid State Ionics, 2008, 179, 2080-2089.	2.7	8
113	A further solution for a two-dimensional model of crystal-growth disorder. Journal of Applied Crystallography, 1977, 10, 344-348.	4.5	7
114	Least-squares analyses of diffuse scattering from substitutionally disordered molecular crystals: application to 2,3-dichloro-6,7-dimethylanthracene. Acta Crystallographica Section A: Foundations and Advances, 1983, 39, 882-892.	0.3	7
115	Optical transform and Monte-Carlo study of phason fluctuations in quasi-periodic tilings. Journal of Applied Crystallography, 1991, 24, 203-211.	4.5	7
116	Oxygen vacancy ordering and the incommensurate structure of mullite. Physics and Chemistry of Minerals, 1993, 20, 323.	0.8	7
117	â€˜Softâ€™ phonon modes, structured diffuse scattering and the crystal chemistry of Fe-bearing sphalerites. Journal of Solid State Chemistry, 2005, 178, 655-660.	2.9	7
118	Neutron diffuse scattering in deuteratedpara-terphenyl, C18D14. Journal of Physics Condensed Matter, 2009, 21, 124204.	1.8	7
119	Approaches to modelling thermal diffuse scattering in triglycine sulfate, (NH₂CH₂COOH)₃Â·H₂SO₄. Journal of Applied Crystallography, 2014, 47, 544-551.	4.5	7
120	Routine recording of diffuse scattering from disordered molecular crystals. Journal of Applied Crystallography, 1983, 16, 192-197.	4.5	6
121	Diffuse scattering and long-range order in the octahedral CDW/PLD-bearing transition-metal dichalcogenides. Journal of Physics C: Solid State Physics, 1987, 20, 5975-5982.	1.5	6
122	Diffraction from quasi-crystals and disordered twinned aggregates. Journal of Applied Crystallography, 1989, 22, 308-314.	4.5	6
123	A computer-simulation study of the `white-line effect' in diffraction patterns of mixed charge-transfer salts. Journal of Applied Crystallography, 1995, 28, 611-614.	4.5	6
124	The low-temperature phase sequence gamma - delta - epsilon in halide perovskite tetramethylammonium trichlorogermanate(II) studied by X-ray diffraction. Journal of Physics Condensed Matter, 1995, 7, 4983-4998.	1.8	6
125	Order and Disorder inp-Dialkylbenzeneâ€“Urea Inclusion Compounds. Journal of Solid State Chemistry, 1998, 141, 437-451.	2.9	6
126	The Importance of Multisite Correlations in Disordered Structures. Ferroelectrics, 2004, 305, 117-122.	0.6	6

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127	Simultaneous fitting of X-ray and neutron diffuse scattering data. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, 30-35.	0.3	6
128	Interpretation of diffuse scattering in the high-Tcsuperconductor HgBa2CuO4+Î´. IUCrJ, 2016, 3, 309-318.	2.2	6
129	A Fourier-series Approach to MoirÃ© Patterns with Special Reference to Those Produced by Overlapping Zone Plates. Optica Acta, 1975, 22, 409-420.	0.7	5
130	An approximation to a two-dimensional binary process. Journal of Applied Probability, 1977, 14, 862-868.	0.7	5
131	A three-dimensional model of crystal-growth disorder. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1979, 35, 391-400.	0.6	5
132	Analysis of the diffuse scattering from disordered molecular crystals: application to 1,4-dibromo-2,5-diethyl-3,6-dimethylbenzene at 295 K. Acta Crystallographica Section B: Structural Science, 1986, 42, 262-272.	1.8	5
133	X-ray diffuse scattering study of spatial correlations in para-terphenyl. Journal of Physics C: Solid State Physics, 1987, 20, 4773-4781.	1.5	5
134	Monte Carlo simulation of low temperature phase diagrams of YBa2Cu3O6+x. Physica C: Superconductivity and Its Applications, 1992, 197, 57-63.	1.2	5
135	Scattering of two-dimensional analogs of disordered lamellae. Colloid and Polymer Science, 1993, 271, 124-132.	2.1	5
136	Diffuse X-ray scattering from 4,4â€²-dimethoxybenzil, C16H14O4: analysis via automatic refinement of a Monte Carlo model. Acta Crystallographica Section B: Structural Science, 2003, 59, 760-769.	1.8	5
137	Deformed Penrose tilings. Philosophical Magazine, 2007, 87, 2877-2886.	1.6	5
138	Structural disorder in BZN-based pyrochlores. Journal of Electroceramics, 2008, 21, 401-404.	2.0	5
139	Crystals exhibiting disorder â€“ the monoclinic polymorph of 9-bromo-10-methylanthracene. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1980, 36, 852-857.	0.4	4
140	Crystals exhibiting disorder â€“ the monoclinic polymorph of 9-chloro-10-methylanthracene. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1981, 37, 1125-1126.	0.4	4
141	An optical transform study of the disorder in dicalcium barium propionate. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1982, 38, 1921-1927.	0.4	4
142	Analysis of the diffuse scattering from disordered molecular crystals: application to 1,3-dibromo-2,5-diethyl-4,6-dimethylbenzene at 295 K. Acta Crystallographica Section B: Structural Science, 1987, 43, 97-106.	1.8	4
143	Optical transforms of disordered systems containing symmetry-related scattering sites. Journal of Applied Crystallography, 1990, 23, 303-314.	4.5	4
144	Cation ordering and the stability of fluorite-related phases in ZrO2-LnO1.5systems: a phase diagram simulation study using Monte Carlo methods. Journal of Physics Condensed Matter, 1993, 5, 4251-4262.	1.8	4

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145	About short- and long-range orderings in wÃ¼stites, Fe 1-x O. Physics and Chemistry of Minerals, 1998, 26, 81-82.	0.8	4
146	Geometry and Topology of Structure in Amorphous Solids. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 14-22.	2.2	4
147	Diffuse Scattering as an Aid to the Understanding of Polymorphism in Pharmaceuticals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1434-1444.	2.2	4
148	Local order in wÃ¼stite using a pair distribution function (PDF) approach. Mineralogical Magazine, 2014, 78, 373-385.	1.4	4
149	Use of bond-valence sums in modelling the diffuse scattering from PZN (PbZn_{1/3}Nb_{2/3}O₃). Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 626-635.	0.1	4
150	Single Crystal Diffuse Neutron Scattering. Quantum Beam Science, 2018, 2, 2.	1.2	4
151	An electron diffraction and lattice dynamical study of thermal diffuse scattering in KCl. Journal of Physics Condensed Matter, 1989, 1, 2305-2311.	1.8	3
152	A computer simulation study of local arrangements in disordered molecular crystals. Acta Crystallographica Section A: Foundations and Advances, 1990, 46, 975-979.	0.3	3
153	Diffuse X-ray Scattering and Short-Range Order in Thallium Antimonyl Germanate, TlSbOGeO4. Journal of Applied Crystallography, 1998, 31, 154-162.	4.5	3
154	Use of Monte Carlo simulation for the interpretation and analysis of diffuse scattering. Phase Transitions, 2010, 83, 80-98.	1.3	3
155	Nanoscale Order in Molecular Systems from Single Crystal Diffuse Scattering. Australian Journal of Chemistry, 2014, 67, 1807.	0.9	3
156	One Hundred Years of Diffuse X-ray Scattering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 75-84.	2.2	3
157	Ambiguities in the interpretation of diffuse x-ray scattering. European Polymer Journal, 1974, 10, 19-20.	5.4	2
158	Short-range order in crystals. Nature, 1975, 253, 527-528.	27.8	2
159	A 3-D crystal growth-disorder model with cubic symmetry. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1979, 367, 175-192.	1.4	2
160	A comparison of Weissenberg and diffractometer methods for the measurement of diffuse scattering from disordered molecular crystals. Acta Crystallographica Section A: Foundations and Advances, 1985, 41, 394-399.	0.3	2
161	Equations for diffuse scattering from disordered molecular crystals. Acta Crystallographica Section A: Foundations and Advances, 1987, 43, 718-727.	0.3	2
162	A study of the disordered low-temperature structure of acenaphthylene, C12H8, using semi-empirical potential-energy calculations. Journal of the Chemical Society Perkin Transactions II, 1988, , 1947.	0.9	2

#	Article	IF	Citations
163	The symmetry characterization and structural refinement of displacement modulated NiAs. Phase Transitions, 1989, 16, 47-51.	1.3	2
164	FOURDEM: a program written as an aid to teaching the elements of Fourier synthesis and other crystallographic concepts. Journal of Applied Crystallography, 1992, 25, 443-447.	4.5	2
165	Monte Carlo study of disorder in HMTA. Computer Physics Communications, 2001, 142, 387-390.	7.5	2
166	X-ray diffuse scattering from HMTA: analysis via a Monte Carlo model. Acta Crystallographica Section B: Structural Science, 2008, 64, 456-465.	1.8	2
167	Advances in Structural Studies of Materials Using Scattering Probes. MRS Bulletin, 2010, 35, 520-530.	3.5	2
168	Disordered structure of 2,3-dichloro-6,7-dimethylanthracene, C16H12Cl2, for sublimation-grown (I) and solution-grown (II) crystals. Acta Crystallographica Section C: Crystal Structure Communications, 1983, 39, 1123-1127.	0.4	1
169	The disordered structures of 1,4-dibromo-2,5-diethyl-3,6-dimethylbenzene (BEMB1) and 1,3-dibromo-2,5-diethyl-4,6-dimethylbenzene (BEMB2), C12H16Br2. Acta Crystallographica Section C: Crystal Structure Communications, 1984, 40, 1255-1260.	0.4	1
170	A lathe-like crystal grinder for grinding pre-aligned crystals into cylindrical cross section. Journal of Applied Crystallography, 1985, 18, 371-372.	4.5	1
171	MoirÃ© patterns in electron diffraction from lanthanum oxide iodide (LaOI). Journal of Applied Crystallography, 1985, 18, 362-364.	4.5	1
172	Computer simulation of size effect from orientationally disordered molecular crystals: monoclinic dibromodiethyldimethylbenzene. Acta Crystallographica Section A: Foundations and Advances, 1990, 46, 970-975.	0.3	1
173	Diffuse Scattering in Disordered Molecular Crystals. Molecular Crystals and Liquid Crystals, 1992, 211, 17-33.	0.3	1
174	The effect of low intra-sublattice repulsion on phase diagram of YBa2Cu3O6+x : A Monte Carlo simulation study. Pramana - Journal of Physics, 1992, 39, 329-341.	1.8	1
175	A TEM and X-Ray Diffraction Study of some Imperfectly Ordered, "Infinitely Adaptive" Crystal Structures and the Principles Underlying their Structural Flexibility. Materials Science Forum, 1994, 150-151, 85-96.	0.3	1
176	The Recording and Interpretation of Diffuse X-Ray Scattering. , 2002, , 35-58.		1
177	Diffuse Scattering from Organic Crystals. Molecular Crystals and Liquid Crystals, 2005, 440, 1-21.	0.9	1
178	Monte Carlo analysis of neutron diffuse scattering data. Physica B: Condensed Matter, 2006, 385-386, 1352-1354.	2.7	1
179	Structural phase transition in deuterated benzilC14D10O2: Neutron inelastic scattering. Physical Review B, 2006, 73, .	3.2	1
180	Pb Displacements in Pb(ZrTi)O₃ (PZT). Key Engineering Materials, 2009, 421-422, 389-394.	0.4	1

#	Article	IF	Citations
181	Approaches to Modeling Diffuse Scattering from Molecular Crystals: Para-Terphenyl (C18H14). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1119-1129.	2.2	1
182	Hexagonal paracrystals. Zeitschrift Fur Kristallographie - Crystalline Materials, 2015, 230, 69-74.	0.8	1
183	Phase competition and effect of chemical ordering in ferroelectric relaxor PbSc0.5Nb0.5O3 from first principles. Phase Transitions, 2016, 89, 777-784.	1.3	1
184	Reverse Monte Carlo Study of Diffuse Scattering from a Frustrated Protein System. , 2013, , 243-251.		1
185	Obtaining diffuse scattering patterns from computer simulations â€“ a retrospective. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 344-355.	1.1	1
186	A method of producing optical diffraction masks representing static disorder in crystals using computer-generated patterns. Journal of Applied Crystallography, 1972, 5, 133-134.	4.5	0
187	A phase transition in a 3D growth-disorder model; erratum. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1978, 34, 1030-1030.	0.6	0
188	Crystal Growth-Disorder Models and Ising Models. Molecular Crystals and Liquid Crystals, 1979, 50, 21-24.	0.8	0
189	Evidence for the isomorphism of the low-temperature form of hexaamminecobalt(III) iodide with the room-temperature structure of hexaamminecobalt(III) chloride. Acta Crystallographica Section C: Crystal Structure Communications, 1983, 39, 513-514.	0.4	0
190	Diffuse X-ray scattering and the internal modes of molecular crystals. International Reviews in Physical Chemistry, 1986, 5, 191-196.	2.3	0
191	QUASI2D: a program written to demonstrate quasiperiodicity and phason fluctuation. Journal of Applied Crystallography, 1992, 25, 648-652.	4.5	0
192	Response to `About the diffuse absences and the diffuse planes due to the atomic size effect'. Acta Crystallographica Section A: Foundations and Advances, 1993, 49, 221-221.	0.3	0
193	The effect of second neighbour repulsion on fcc binary alloy phase diagrams: A Monte Carlo study. Pramana - Journal of Physics, 1993, 41, 41-49.	1.8	0
194	Personal reflections. Part 91. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 379-380.	0.8	0
195	Disorder and Diffuse Scattering. , 2004, , 457-466.		0
196	Local Strain, Structured Diffuse Scattering and Oxygen/Fluorine Ordering in Transition Metal Oxyfluorides. Ferroelectrics, 2004, 305, 123-126.	0.6	0
197	Simulation of diffuse scattering in <scp>DL</scp>-norleucine. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 393-405.	1.1	0