

# Walter Steurer

## List of Publications by Year in descending order

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196  
papers

6,354  
citations

94433

37  
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210  
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210  
docs citations

210  
times ranked

5033  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition Metal Borides: Superhard versus Ultra-Compressible. <i>Advanced Materials</i> , 2008, 20, 3620-3626.	21.0	467
2	Size-dependent plasticity in an Nb <sub>25</sub> Mo <sub>25</sub> Ta <sub>25</sub> W <sub>25</sub> refractory high-entropy alloy. <i>Acta Materialia</i> , 2014, 65, 85-97.	7.9	391
3	Discovery of a Superconducting High-Entropy Alloy. <i>Physical Review Letters</i> , 2014, 113, 107001.	7.8	360
4	Structure of Nanocrystalline TiO <sub>2</sub> Powders and Precursor to Their Highly Efficient Photosensitizer. <i>Chemistry of Materials</i> , 1997, 9, 430-439.	6.7	234
5	Structural-disorder and its effect on mechanical properties in single-phase TaNbHfZr high-entropy alloy. <i>Acta Materialia</i> , 2016, 106, 87-97.	7.9	234
6	Photonic and phononic quasicrystals. <i>Journal Physics D: Applied Physics</i> , 2007, 40, R229-R247.	2.8	230
7	Colloidal quasicrystals with 12-fold and 18-fold diffraction symmetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1810-1814.	7.1	226
8	Twenty years of structure research on quasicrystals. Part I. Pentagonal, octagonal, decagonal and dodecagonal quasicrystals. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004, 219, .	0.8	220
9	The structure of decagonal Al <sub>70</sub> Ni <sub>15</sub> Co <sub>15</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , 1993, 49, 661-675.	1.8	201
10	Classical vibrational modes in phononic lattices: theory and experiment. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.8	189
11	Phase Evolution in Yttria-Stabilized Zirconia Thermal Barrier Coatings Studied by Rietveld Refinement of X-Ray Powder Diffraction Patterns. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2935-2940.	3.8	171
12	Five-dimensional structure analysis of decagonal Al <sub>65</sub> Cu <sub>20</sub> Co <sub>15</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , 1990, 46, 703-712.	1.8	153
13	The Samson phase, $\sqrt{2}$ -Mg <sub>2</sub> Al <sub>3</sub> , revisited. <i>Zeitschrift Für Kristallographie</i> , 2007, 222, .	1.1	118
14	Single-phase high-entropy alloys – A critical update. <i>Materials Characterization</i> , 2020, 162, 110179.	4.4	110
15	Single-phase high-entropy alloys – an overview. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 55-68.	0.8	107
16	Fascinating quasicrystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, 1-11.	0.3	105
17	Superconductivity in thermally annealed Ta-Nb-Hf-Zr-Ti high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3530-3540.	5.5	92
18	Structure solution of the basic decagonal Al-Co-Ni phase by the atomic surfaces modelling method. <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 8-33.	1.8	82



#	ARTICLE	IF	CITATIONS
37	Structural phase transitions from and to the quasicrystalline state. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 28-38.	0.3	37
38	New stable decagonal quasicrystal in the system Al <sub>4</sub> IrOs. Journal of Alloys and Compounds, 2007, 428, 164-172.	5.5	37
39	The structure of decagonal Al <sub>70.5</sub> Mn <sub>16.5</sub> Pd <sub>13</sub> . Journal of Physics Condensed Matter, 1994, 6, 613-632.	1.8	36
40	X-ray diffraction study of decaprismatic Al-Co-Ni crystals as a function of composition and temperature. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 75, 1665-1675.	0.6	36
41	Phason-strain analysis of the twinned approximant to the decagonal quasicrystal Al <sub>70</sub> Co <sub>15</sub> Ni <sub>15</sub> : Evidence for a one-dimensional quasicrystal. Physical Review B, 1997, 55, 187-192.	3.2	34
42	-Al <sub>13</sub> Co <sub>4</sub> , a new quasicrystal approximant. Journal of Alloys and Compounds, 2010, 500, 153-160.	5.5	34
43	<i>Yell</i> : a computer program for diffuse scattering analysis via three-dimensional delta pair distribution function refinement. Journal of Applied Crystallography, 2014, 47, 1146-1152.	4.5	34
44	Time-of-flight neutron-scattering study of phason hopping in decagonal Al-Co-Ni quasicrystals. Physical Review B, 1999, 60, 270-276.	3.2	33
45	Quasiperiodicity in decagonal phases forced by inclined net planes?. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 333-340.	0.3	33
46	More statistics on intermetallic compounds ternary phases. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 335-345.	0.1	32
47	Superior room-temperature ductility of typically brittle quasicrystals at small sizes. Nature Communications, 2016, 7, 12261.	12.8	32
48	Structural disorder in the decagonal Al <sub>4</sub> Co <sub>4</sub> Ni. I. Patterson analysis of diffuse x-ray scattering data. Physical Review B, 2005, 71, .	3.2	30
49	The quasicrystal-to-crystal transformation. I. Geometrical principles. Zeitschrift Fur Kristallographie - Crystalline Materials, 2000, 215, 323-334.	0.8	29
50	Trigonal Ir <sub>9</sub> Al <sub>28</sub> , a new structure type and approximant to decagonal quasicrystals. Journal of Alloys and Compounds, 2006, 407, 132-140.	5.5	29
51	Extending the charge-flipping method towards structure solution from incomplete data sets. Journal of Applied Crystallography, 2007, 40, 456-462.	4.5	28
52	General periodic average structures of decagonal quasicrystals. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 180-184.	0.3	27
53	Unifying cluster-based structure models of decagonal Al <sub>4</sub> Co <sub>4</sub> Ni, Al <sub>4</sub> Co <sub>4</sub> Cu and Al <sub>4</sub> Fe <sub>4</sub> Ni. Acta Crystallographica Section B: Structural Science, 2011, 67, 1-17.	1.8	26
54	Phase transitions in RbLiSO <sub>4</sub> . Acta Crystallographica Section B: Structural Science, 1986, 42, 11-16.	1.8	25

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55	An examination of a multiple-twinned periodic approximant of the decagonal phase Al <sub>70</sub> Co <sub>15</sub> Ni <sub>15</sub> . Journal of Physics Condensed Matter, 1994, 6, 6177-6187.	1.8	25
56	Single-crystal X-ray study of the decagonal phase of the system Al-Co-Mn. Acta Crystallographica Section B: Structural Science, 1989, 45, 355-359.	1.8	24
57	Prediction of Bragg-scattering-induced band gaps in phononic quasicrystals. Physical Review B, 2007, 75, .	3.2	24
58	Discovery of a FeCoNiPdCu High-Entropy Alloy with Excellent Magnetic Softness. Advanced Engineering Materials, 2019, 21, 1801055.	3.5	24
59	High-pressure single-crystal structure study on calaverite, AuTe <sub>2</sub> . Acta Crystallographica Section B: Structural Science, 1993, 49, 6-11.	1.8	23
60	Disorder diffuse scattering from quasicrystals. Phase Transitions, 1998, 67, 319-362.	1.3	22
61	The Structure of Quasicrystals. Materials Science Forum, 1994, 150-151, 15-34.	0.3	21
62	Derivation of the proper basis of quasicrystals. Physical Review B, 1998, 57, 11223-11231.	3.2	21
63	Correction of specimen absorption in X-ray diffuse scattering experiments with area-detector systems. Journal of Applied Crystallography, 2000, 33, 35-48.	4.5	21
64	Structural disorder in the decagonal Al-Co-Ni. II. Modeling. Physical Review B, 2005, 71, .	3.2	21
65	Decagonal quasicrystals - What has been achieved?. Comptes Rendus Physique, 2014, 15, 40-47.	0.9	20
66	Reciprocal-space imaging of a real quasicrystal. A feasibility study with PILATUS 6M. Journal of Applied Crystallography, 2008, 41, 669-674.	4.5	19
67	The incommensurately modulated structure of an andesine (An <sub>38</sub> ). Acta Crystallographica Section B: Structural Science, 1988, 44, 344-351.	1.8	18
68	X-ray diffraction study of decagonal Al-Co-Ni as a function of composition. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	17
69	What is a crystal?: Introductory remarks to an ongoing discussion. Zeitschrift Für Kristallographie, 2007, 222, 308-309.	1.1	17
70	Comparative high-pressure study and chemical bonding analysis of Rh <sub>3</sub> Bi <sub>14</sub> and isostructural Rh <sub>3</sub> Bi <sub>12</sub> Br <sub>2</sub> . Journal of Solid State Chemistry, 2007, 180, 940-948.	2.9	17
71	Elastic properties of icosahedral Al-Cd <sub>84</sub> Yb <sub>16</sub> and hexagonal Al-Cd <sub>51</sub> Yb <sub>14</sub> . Philosophical Magazine Letters, 2004, 84, 643-653.	1.2	16
72	Structure of the incommensurately modulated $\sqrt{5}$ phase of the layered perovskite [NH <sub>3</sub> (C <sub>3</sub> H <sub>7</sub> )] <sub>2</sub> MnCl <sub>4</sub> (PAMC) at 130 K. Acta Crystallographica Section B: Structural Science, 1989, 45, 555-562.	1.8	14

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73	Comparative structure analysis of several decagonal phases. Journal of Non-Crystalline Solids, 1993, 153-154, 92-97.	3.1	14
74	The growth of decagonal Al <sub>70</sub> Co <sub>15</sub> Ni single crystals as a function of chemical composition. Journal of Materials Research, 1997, 12, 2274-2280.	2.6	14
75	Towards the real structure of quasicrystals and approximants by analysing diffuse scattering and deconvolving the Patterson. Zeitschrift Fur Kristallographie - Crystalline Materials, 2000, 215, 584-596.	0.8	14
76	Study of phase states and oxidation of B2-structure based Al <sub>70</sub> Ni <sub>15</sub> Ru <sub>15</sub> M alloys. Intermetallics, 2005, 13, 35-45.	3.9	14
77	Effect of 7YSZ on the long-term stability of YTaO <sub>4</sub> doped ZrO <sub>2</sub> system. Journal of the European Ceramic Society, 2011, 31, 2897-2901.	5.7	14
78	A new cluster-based cubic phase in the Al <sub>70</sub> Cu <sub>15</sub> Ir system. Intermetallics, 2013, 32, 337-343.	3.9	14
79	A neutron powder diffraction study of (V,Cr) <sub>3</sub> C <sub>2</sub> x. Journal of the Less Common Metals, 1980, 76, 145-151.	0.8	13
80	A high-temperature furnace for X-ray diffraction with directly machined $\hat{\pm}$ -Al <sub>2</sub> O <sub>3</sub> ceramic parts. Journal of Applied Crystallography, 1999, 32, 833-836.	4.5	13
81	Conically shaped single-crystalline diamond backing plates for a diamond anvil cell. Review of Scientific Instruments, 2005, 76, 105104.	1.3	13
82	Calcium-doped yttria-stabilized zirconia for thermal barrier coatings: synthesis and characterization. Journal of Materials Science, 2011, 46, 5709-5714.	3.7	13
83	Quasicrystal versus twinned approximant: A quantitative analysis with decagonal Al <sub>70</sub> Co <sub>15</sub> Ni <sub>15</sub> . Philosophical Magazine Letters, 1994, 70, 379-384.	1.2	12
84	New crystalline approximant of the decagonal quasicrystal in Al <sub>70</sub> Pd <sub>15</sub> Ru <sub>15</sub> alloy. Philosophical Magazine Letters, 1995, 72, 239-244.	1.2	12
85	Geometry of quasicrystal-to-crystal transformations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 268-271.	5.6	12
86	On a Realistic Growth Mechanism for Quasicrystals. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 1943-1947.	1.2	12
87	High-temperature structural study of decagonal Al <sub>70</sub> Cu <sub>15</sub> Rh <sub>15</sub> . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 306-314.	1.1	12
88	Bridging room-temperature and high-temperature plasticity in decagonal Al <sub>70</sub> Ni <sub>15</sub> Co <sub>15</sub> quasicrystals by micro-thermomechanical testing. Philosophical Magazine, 2016, 96, 3356-3378.	1.6	12
89	Reciprocal-space imaging and the use of a diamond-anvil cell: a single-crystal high-pressure study of a quasicrystal up to 10.7 GPa. Philosophical Magazine Letters, 2003, 83, 525-531.	1.2	12
90	Bulk and surface structure of the clean and adsorbate-covered decagonal Al <sub>70</sub> Co <sub>15</sub> Ni <sub>15</sub> quasicrystal. Journal of Physics Condensed Matter, 2008, 20, 314006.	1.8	11

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91	Crystal growth of copper-rich ytterbium compounds: The predicted giant unit cell structures YbCu <sub>4.4</sub> and YbCu <sub>4.25</sub> . <i>Intermetallics</i> , 2009, 17, 6-10.	3.9	11
92	Basic Co-rich decagonal Al-Co-Ni: Superstructure. <i>Physical Review B</i> , 2010, 82, .	3.2	11
93	Cluster packing from a higher dimensional perspective. <i>Structural Chemistry</i> , 2012, 23, 1115-1120.	2.0	11
94	Correlating scanning tunneling spectroscopy with the electrical resistivity of Al-based quasicrystals and approximants. <i>Physical Review B</i> , 2013, 87, .	3.2	11
95	The quasicrystal-to-crystal transformation. II. Landau theory. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2001, 216, 573-585.	0.8	10
96	Basic Co-rich decagonal Al-Co-Ni: Average structure. <i>Physical Review B</i> , 2009, 80, .	3.2	10
97	<i>Ab initio</i> structure solution by iterative phase-retrieval methods: performance tests on charge flipping and low-density elimination. <i>Journal of Applied Crystallography</i> , 2010, 43, 89-100.	4.5	10
98	A comparative scanning tunneling spectroscopy investigation of the (12110)-surface of decagonal Al <sub>70</sub> Ni <sub>10</sub> Co and the (100)-surface of its approximant Y <sub>20</sub> Al <sub>70</sub> Ni <sub>10</sub> Co. <i>New Journal of Physics</i> , 2010, 12, 073043.	2.9	10
99	Analysis and modelling of structural disorder by the use of the three-dimensional pair distribution function method exemplified by the disordered twofold superstructure of decagonal Al <sub>70</sub> Cu <sub>10</sub> Co. <i>Journal of Applied Crystallography</i> , 2011, 44, 134-149.	4.5	10
100	<i>Ab initio</i> investigations on the stability of seven-fold approximants. <i>Philosophical Magazine</i> , 2011, 91, 2567-2578.	1.6	10
101	Laue centennial. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 1-2.	0.3	10
102	X-ray structure determination of quasicrystals – limits and potentiality. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000, 215, .	0.8	9
103	Reflections on symmetry and formation of axial quasicrystals. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2006, 221, 402-411.	0.8	9
104	The quasiperiodic average structure of highly disordered decagonal Zn <sub>20</sub> Mg <sub>70</sub> Dy and its temperature dependence. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 315-330.	1.1	9
105	Structural model of the Al <sub>70</sub> Pd decagonal quasicrystal. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996, 74, 299-305.	0.6	8
106	<i>Ab initio</i> study of W <sub>20</sub> Al <sub>70</sub> Co <sub>10</sub> Ni: An approximant of the decagonal Al <sub>70</sub> Co <sub>10</sub> Ni quasicrystal. <i>Physical Review B</i> , 2007, 75, .	3.2	8
107	Crystal structure and high-pressure studies of WAl <sub>2</sub> , an aluminide crystallizing with the CrSi <sub>2</sub> structure type. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2719-2724.	2.9	8
108	Disappearance of plastic anisotropy in decagonal quasicrystals at small scales and room temperature. <i>Extreme Mechanics Letters</i> , 2016, 8, 229-234.	4.1	8

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109	Structures and phase transitions of $\hat{1}\pm$ -bis(N-methylsalicylaldiminato)nickel(II). Acta Crystallographica Section B: Structural Science, 1983, 39, 344-349.	1.8	7
110	The structure of the incommensurate modulated phase of $\hat{1}\pm$ -bis(N-methylsalicylaldiminato)nickel(II). Acta Crystallographica Section B: Structural Science, 1983, 39, 349-355.	1.8	7
111	Comparative study of the structures of $\hat{1}\pm$ -bis(N-methylsalicylaldiminato)M II (M = Ni, Cu, Pd). Acta Crystallographica Section B: Structural Science, 1983, 39, 718-721.	1.8	7
112	Phase transitions in quasicrystals â€” the example of decagonal Alâ€”Coâ€”Ni. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 17-22.	5.6	7
113	On the compressibility of TiC in microcrystalline and nanoparticulate form. Journal of Physics Condensed Matter, 2008, 20, 445226.	1.8	7
114	On the Symmetry and Composition of Complex Intermetallics. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	7
115	Exceptionally large areas of local tenfold symmetry in decagonal Al <sub>59</sub> Cr <sub>21</sub> Fe <sub>10</sub> Si <sub>10</sub> . Journal of Alloys and Compounds, 2018, 765, 753-756.	5.5	7
116	A new single-crystal mounting technique for low-background high-temperature X-ray diffraction. Journal of Applied Crystallography, 1997, 30, 1162-1164.	4.5	6
117	Ultrasonic investigation of phononic Penrose crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2716-2719.	0.8	6
118	Prediction of band gaps in phononic quasicrystals based on single-rod resonances. Physical Review B, 2007, 75, .	3.2	6
119	The effect of thermal treatment on the magnetic state and cluster-related disorder of icosahedral Alâ€”Pdâ€”Mn quasicrystals. Intermetallics, 2010, 18, 623-632.	3.9	6
120	A new complex intermetallic phase in the system Alâ€”Cuâ€”Ta with familiar clusters and packing principles. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 238-248.	1.1	6
121	More of the â€œFullercagesâ€”, Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 693-700.	1.2	6
122	Novel kind of decagonal ordering in Al <sub>74</sub> Cr <sub>15</sub> Fe <sub>11</sub> . Nature Communications, 2020, 11, 6209.	12.8	6
123	The structure of the incommensurate modulated phase of $\hat{1}\pm$ -bis(N-methylsalicylaldiminato)copper(II). Acta Crystallographica Section B: Structural Science, 1983, 39, 721-724.	1.8	5
124	The incommensurately modulated structure of the triclinic form of N,N-dimethylmorpholinium di-7,7,8,8-tetracyano-p-quinodimethanide; DMM(TCNQ) <sub>2</sub> (II) at 99 K. Acta Crystallographica Section B: Structural Science, 1987, 43, 567-574.	1.8	5
125	Structural models of high-order approximants of the Al-Mn-Pd decagonal quasicrystal. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 1101-1110.	0.6	5
126	High-Temperature Furnace for an Imaging-Plate Data-Acquisition System. Journal of Applied Crystallography, 1996, 29, 365-370.	4.5	5



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127	X-Ray Investigation of a Co <sup>~</sup> 0.25 wt% C Alloy: Stacking Disorder in the Martensite Phase and Reverse H.C.P. to F.C.C. Martensitic Transformation. <i>Physica Status Solidi A</i> , 1996, 154, 517-530.	1.7	5
128	A helium beam path for an imaging-plate detector system. <i>Journal of Applied Crystallography</i> , 1997, 30, 1165-1166.	4.5	5
129	Weak Bragg scattering in icosahedral Mg-Y-Zn. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 294-296, 237-241.	5.6	5
130	Structure solution of a high-order decagonal approximant Al <sub>71</sub> Co <sub>14.5</sub> Ni <sub>14.5</sub> by maximum entropy patterson deconvolution. <i>Ferroelectrics</i> , 2001, 250, 245-248.	0.6	5
131	Structural relationships between decagonal Al-Co-Ni and its approximants. <i>Ferroelectrics</i> , 2001, 250, 377-380.	0.6	5
132	In situ study of icosahedral Zn <sup>~</sup> Mg <sup>~</sup> Dy and Co-rich decagonal Al <sup>~</sup> Co <sup>~</sup> Ni at high pressures and high temperatures. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 116203.	1.8	5
133	The Co <sup>~</sup> Ni distribution in decagonal Al <sub>9.7(4)</sub> Co <sub>10.0(4)</sub> Ni <sub>20.3(4)</sub> . <i>Zeitschrift für Kristallographie</i> , 2008, 223, 863-867.	1.1	5
134	Pressure-induced phase transitions in MO <sub>8</sub> O <sub>23</sub> . <i>Phase Transitions</i> , 1994, 47, 1-8.	1.3	4
135	Modeling atomic surfaces for the Al <sup>~</sup> Ni <sup>~</sup> Co basic decagonal phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 294-296, 276-278.	5.6	4
136	A single-crystal high-pressure x-ray diffraction study of decagonal Al <sup>~</sup> Co <sup>~</sup> Cu up to 19.1 GPa. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 7769-7777.	1.8	4
137	Thermophysical properties and deposition of B2 structure based Al <sup>~</sup> Ni <sup>~</sup> Ru <sup>~</sup> M alloys. <i>Surface and Coatings Technology</i> , 2005, 192, 131-138.	4.8	4
138	<i>Ab initio</i> reconstruction of difference densities by charge flipping. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, 9-20.	0.3	4
139	Quasicrystals: Sections of Hyperspace. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10775-10778.	13.8	4
140	Crystal Structures of Metallic Elements and Compounds. , 2014, , 1-101.		4
141	Incommensurate structure of epsilon-PAMC at 130K. <i>Phase Transitions</i> , 1989, 16, 181-184.	1.3	3
142	The Disordered 8 Å... Superstructure of a Decagonal Al <sub>70</sub> Co <sub>12</sub> Ni <sub>18</sub> Quasicrystal. <i>Ferroelectrics</i> , 2004, 305, 213-216.	0.6	3
143	Fascinating quasicrystals. <i>Chemical Society Reviews</i> , 2012, 41, 6717.	38.1	3
144	Structure of decagonal Al <sup>~</sup> Ni <sup>~</sup> Rh. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 732-742.	1.1	3

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145	Quasicrystal-related mosaics with periodic lattices interlaid with aperiodic tiles. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 137-144.	0.1	3
146	Experimental observation of carousel-like phason flips in the decagonal quasicrystal $\text{Al}_{60}\text{Cr}_{20}\text{Fe}_{10}\text{Si}_{10}$ . Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 355-361.	0.1	3
147	N-Dimensional structure analysis - auxiliary approaches. Phase Transitions, 1989, 16, 103-118.	1.3	2
148	Approximants – the Key to the Structure of Quasicrystals. Materials Research Society Symposia Proceedings, 2000, 643, 321.	0.1	2
149	Modelling Disorder of Decagonal Al-Co-Ni Quasicrystals. Ferroelectrics, 2004, 305, 185-188.	0.6	2
150	Experimental evidence of the stability of net planes in decagonal quasicrystals. Journal of Non-Crystalline Solids, 2004, 334-335, 486-490.	3.1	2
151	Physicochemical materials research. Powder Metallurgy and Metal Ceramics, 2007, 46, 357-364.	0.8	2
152	Stability range of the ternary W-phase in the system $\text{Al-Co-Ni}$ . Journal of Alloys and Compounds, 2009, 481, 258-263.	5.5	2
153	Higher-Dimensional Approach. Springer Series in Materials Science, 2009, , 61-188.	0.6	2
154	Synthesis of decagonal $\text{Zn-Mg-RE}$ compounds. Philosophical Magazine, 2011, 91, 2466-2473.	1.6	2
155	Higher-dimensional crystallography of $N$ -fold quasiperiodic tilings. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 266-277.	0.3	2
156	Quasicrystal structure and growth models: discussion of the status quo and the still open questions. Journal of Physics: Conference Series, 2017, 809, 012001.	0.4	2
157	Compressibility of $\text{Al}_{64}\text{Pd}_{30.4}\text{Fe}_{5.6}$ . Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 119-122.	0.8	2
158	Modelling and solving decagonal quasicrystals. Ferroelectrics, 2001, 250, 237-240.	0.6	1
159	Crystallography and crystallographers. Personal reflections on the past, the present and the future of crystallography on the occasion of the 125-year anniversary of Zeitschrift für Kristallographie. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, .	0.8	1
160	Generalized Quasiperiodic Structures. Springer Series in Materials Science, 2009, , 359-371.	0.6	1
161	Quasikristalle – Schnittstellen zum Hyperraum. Nachrichten Aus Der Chemie, 2011, 59, 1035-1038.	0.0	1
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