

Juergen Schreuer

List of Publications by Year in descending order

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107
papers

3,082
citations

257450

24
h-index

168389

53
g-index

111
all docs

111
docs citations

111
times ranked

3030
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and properties of mullite—A review. Journal of the European Ceramic Society, 2008, 28, 329-344.	5.7	902
2	Elastic moduli and thermal expansion coefficients of medium-entropy subsystems of the CrMnFeCoNi high-entropy alloy. Journal of Alloys and Compounds, 2018, 746, 244-255.	5.5	215
3	Mullite: Crystal Structure and Related Properties. Journal of the American Ceramic Society, 2015, 98, 2948-2967.	3.8	208
4	The Samson phase, $\hat{1}^2$ -Mg ₂ Al ₃ , revisited. Zeitschrift Für Kristallographie, 2007, 222, .	1.1	118
5	Advanced Scale Bridging Microstructure Analysis of Single Crystal Ni—Base Superalloys. Advanced Engineering Materials, 2015, 17, 216-230.	3.5	117
6	Nature of the Spin Dynamics and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Magnetization Plateau in Azurite. Physical Review Letters, 2008, 100, 117202.	7.8	109
7	Elastic properties of tantalum carbide (TaC). Solid State Communications, 2005, 134, 245-250.	1.9	101
8	Resistivity studies under hydrostatic pressure on a low-resistance variant of the quasi-two-dimensional organic superconductor $\hat{1}^2$ -(BEDT—TTF) ₂ Cu[N(CN) ₂]Br: Search for intrinsic scattering contributions. Physical Review B, 2005, 72, .	3.2	67
9	Radial-fibrous calcites: A new look at an old problem. Sedimentary Geology, 2011, 239, 23-36.	2.1	64
10	Elastic and piezoelectric properties of La ₃ /Ga ₅ /SiO ₁₄ / and La ₃ /Ga _{5.5} /Ta ₃ /O ₁₄ : an application of resonant ultrasound spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1474-1479.	3.0	63
11	Thermophysical and Mechanical Properties of Advanced Single Crystalline Co-base Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4099-4109.	2.2	58
12	Calculation of the elastic constants of the Al ₂ SiO ₅ polymorphs andalusite, sillimanite and kyanite. Zeitschrift Fur Kristallographie - Crystalline Materials, 2001, 216, 67-70.	0.8	56
13	Physicochemical characteristics of drip waters: Influence on mineralogy and crystal morphology of recent cave carbonate precipitates. Geochimica Et Cosmochimica Acta, 2014, 145, 13-29.	3.9	48
14	Effects of Cr/Ni ratio on physical properties of Cr-Mn-Fe-Co-Ni high-entropy alloys. Acta Materialia, 2022, 227, 117693.	7.9	47
15	Numerical Modelling of the Czochralski Growth of $\hat{1}^2$ -Ga ₂ O ₃ . Crystals, 2017, 7, 26.	2.2	46
16	Processing of a single-crystalline CrCoNi medium-entropy alloy and evolution of its thermal expansion and elastic stiffness coefficients with temperature. Scripta Materialia, 2020, 177, 44-48.	5.2	44
17	Elastic Properties of Mullite Single Crystals up to 1400oC. Journal of the American Ceramic Society, 2006, 89, 1624-1631.	3.8	41
18	Elastic and anelastic anomalies in (Ca,Sr)TiO ₃ perovskites: Analogue behaviour for silicate perovskites. Physics of the Earth and Planetary Interiors, 2008, 167, 110-117.	1.9	39

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19	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
20	Crystal chemistry and properties of mullite-type $\text{Bi}_2\text{M}_{4-9}\text{O}_9$: An overview. International Journal of Materials Research, 2012, 103, 422-429.	0.3	30
21	Influence of microstructure on macroscopic elastic properties and thermal expansion of nickel-base superalloys ERBO/1 and LEK94. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 563-576.	0.9	30
22	Small-angle neutron scattering study of volcanic rocks. European Journal of Mineralogy, 2004, 16, 407-417.	1.3	27
23	Crystal growth and elastic properties of orthorhombic $\text{Bi}_2\text{Ga}_4\text{O}_9$. Journal of Physics Condensed Matter, 2006, 18, 10977-10988.	1.8	27
24	Anomalous elastic behavior of relaxor ferroelectric $\text{Ca}_{0.28}\text{O}_6$ single crystals. Physical Review B, 2011, 84, .	2.7	27
25	Chemically induced fracturing in alkali feldspar. Physics and Chemistry of Minerals, 2014, 41, 1-16.	0.8	24
26	Discontinuous evolution of single-crystal elastic constants as a function of pressure through the $\text{C2/c} \rightarrow \text{P2}_1/\text{c}$ phase transition in spodumene ($\text{LiAlSi}_2\text{O}_6$). Journal of Geophysical Research, 2006, 111, .	3.3	20
27	Thermal expansion and elastic properties of mullite-type $\text{Bi}_2\text{Ga}_4\text{O}_9$ and $\text{Bi}_2\text{Fe}_4\text{O}_9$ single crystals. International Journal of Materials Research, 2012, 103, 438-448.	0.3	18
28	Elastic and piezoelectric constants of tourmaline single crystals at non-ambient temperatures determined by resonant ultrasound spectroscopy. Journal of Applied Physics, 2012, 111, .	2.5	18
29	Incommensurate modulation of calcium barium niobate (CBN28 and Ce:CBN28). Acta Crystallographica Section B: Structural Science, 2012, 68, 101-106.	1.8	18
30	Relaxor behavior of $\text{Ca}_{0.28}\text{Ba}_{1-x}\text{Nb}_{1-x}\text{O}_6$. Physical Review B, 2013, 87, .	3.2	18
31	Thermally induced structural changes in incommensurate calcium barium niobate $\text{Ca}_{0.28}\text{Ba}_{0.72}\text{Nb}_2\text{O}_6$ (CBN28). Journal of Solid State Chemistry, 2012, 196, 255-266.	2.9	17
32	Thermo-mechanical properties of mullite ceramics: New data. Journal of the American Ceramic Society, 2019, 102, 416-426.	3.8	17
33	Elastic properties of icosahedral $\text{Cd}_{84}\text{Yb}_{16}$ and hexagonal $\text{Cd}_{51}\text{Yb}_{14}$. Philosophical Magazine Letters, 2004, 84, 643-653.	1.2	16
34	Structural evolution, strain and elasticity of perovskites at high pressures and temperatures. Journal of Mineralogical and Petrological Sciences, 2006, 101, 95-109.	0.9	16
35	Towards an understanding of the anomalous electromechanical behaviour of langasite and related compounds at high temperatures. , 0, , .		14
36	Structure-property relations and thermodynamic properties of monoclinic petalite, $\text{LiAlSi}_4\text{O}_{10}$. Journal of Physics Condensed Matter, 2012, 24, 345402.	1.8	14

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37	Magnetoelastic and structural properties of azurite< mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		
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55	Anomalous elastic behavior of relaxor ferroelectric $\text{Ca}_{0.28}\text{Ba}_{0.72}\text{Nb}_2\text{O}_6\text{:Ce}$ studied by resonant ultrasound spectroscopy. <i>Applied Physics Letters</i> , 2011, 99, 252901.	3.3	8
56	Order/disorder processes and electromechanical properties of monoclinic $\text{GdCa}_4\text{O}(\text{BO}_3)_3$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019, 234, 707-723.	0.8	8
57	Crystal structure of catena-tri- $\frac{1}{4}$ -trimethylammoniumacetatomanganese tetrachloromanganate, $((\text{CH}_3)_3\text{NCH}_2\text{COO})_3\text{MnMnCl}_4$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1993, 205, 309-310.	0.8	7
58	Electrical conductivity of synthetic mullite single crystals. <i>American Mineralogist</i> , 2014, 99, 1104-1108.	1.9	7
59	On Shear Testing of Single Crystal Ni-Base Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3951-3962.	2.2	7
60	Elastic properties of single crystal $\text{Bi}_{12}\text{SiO}_{20}$ as a function of pressure and temperature and acoustic attenuation effects in $\text{Bi}_{12}\text{MO}_{20}$ ($\text{M}=\text{Asi, Ge and Ti}$). <i>Materials Research Express</i> , 2020, 7, 025701.	1.6	7
61	A new single-crystal mounting technique for low-background high-temperature X-ray diffraction. <i>Journal of Applied Crystallography</i> , 1997, 30, 1162-1164.	4.5	6
62	Correlation between dielectric properties and chemical composition of the tourmaline single crystals. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	6
63	Elastic and piezoelectric properties of minerals II. Structure-property relationships. , 0, , 173-198.		6
64	Crystal structure, elastic properties and phase transition of triclinic ammonium hydrogen succinate, $\text{NH}_4\text{HC}_4\text{H}_4\text{O}_4$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1993, 206, 255-265.	0.8	5
65	High-Temperature Furnace for an Imaging-Plate Data-Acquisition System. <i>Journal of Applied Crystallography</i> , 1996, 29, 365-370.	4.5	5
66	Crystal structure of methylammonium sulfanilate, $(\text{CH}_3\text{NH}_3)\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3$. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 1999, 214, 317-318.	0.3	5
67	Structural and magnetic properties of betaine adducts with transition metals: I. $((\text{CH}_3)_3\text{NCH}_2\text{COO})_3\text{MnMCl}_4$ with $\text{M} = \text{Mn}^{2+}, \text{Co}^{2+}, \text{Zn}^{2+}$. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 11067-11079.	1.8	5
68	Crystal structure, thermal expansion and elastic properties of triclinic betaine hydrogen dihydrogen triiodate, $((\text{CH}_3)_3\text{NCH}_2\text{COOH})\text{H}_2(\text{IO}_3)_3$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1996, 211, 903-907.	0.8	4
69	Crystal structure of rubidium sulfamate, RbH_2NSO_3 . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 1999, 214, 305.	0.3	4
70	Crystal structure of silver sulfanilate, $\text{AgH}_2\text{NC}_6\text{H}_4\text{SO}_3$. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 1999, 214, 311-312.	0.3	4
71	Crystal structure of cesium sulfamate, CSH_2NSO_3 . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 1999, 214, 306.	0.3	4
72	Exploring antiferromagnetic $S = 1/2$ dimer systems in high magnetic fields. <i>Journal of Physics: Conference Series</i> , 2006, 51, 1-8.	0.4	4

#	ARTICLE	IF	CITATIONS
91	Thermally induced structural changes in modulated Ca _{0.28} Ba _{0.72} Nb ₂ O ₆ (CBN28). Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C759-C759.	0.3	1
92	Crystal structure of diaquabis($\frac{1}{4}$ -betaine-O,O')tris(copper(II) dichloride), (C ₅ H ₁₁ NO ₂) ₂ · 3CuCl ₂ · 2H ₂ O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 487-488.	0.3	1
93	Crystal structure of di- $\frac{1}{4}$ -chloro-bis(trimethylammoniumacetatochlorodiaquamanganese) hydrate, ((CH ₃) ₃ NCH ₂ COOMn(H ₂ O)2Cl)2Cl2(H ₂ O). Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 311-312.	0.8	0
94	Crystal structure of tetrakis($\frac{1}{4}$ -betaine-O,O')dibromo-dicopper(II) tetrabromocuprate(II) monohydrate, [Cu ₂ {(CH ₃) ₃ NCH ₂ COO}4Br ₂][CuBr ₄] · H ₂ O, with a propeller-shaped dinuclear copper complex. Zeitschrift Fur Kristallographie - New Crystal Structures, 2006, 221, 529-531.	0.3	0
95	Intrinsic vs. extrinsic inelastic scattering contributions in $\hat{\Gamma}^e$ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br “ Transport measurements under hydrostatic pressure. Comptes Rendus Chimie, 2007, 10, 96-100.	0.5	0
96	Resistivity Studies on Different Variants of $\hat{\Gamma}^e$ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br: Evidence for Disorder and /or Defect-Induced Inelastic Scattering Contributions. Journal of Low Temperature Physics, 2007, 142, 191-197.	1.4	0
97	Crystal structure of monoqua(betaine)dichloridocopper(II), C ₅ H ₁₁ NO ₂ · CuCl ₂ · H ₂ O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 485-486.	0.3	0
98	Crystal structure of trisbetaine manganese(II) dibromide dihydrate, (C ₅ H ₁₁ NO ₂) ₃ · MnBr ₂ · 2H ₂ O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, .	0.3	0
99	Publisher's Note: Magnetoelastic and structural properties of azuriteCu ₃ (CO ₃) ₂ (OH) ₂ from neutron scattering and muon spin rotation [Phys. Rev. B81, 140406(R) (2010)]. Physical Review B, 2010, 81, .	3.2	0
100	Relaxor Behavior of Pure and Cerium Doped Ca _x Ba _{1-x} Nb ₂ O ₆ . Ferroelectrics, 2014, 464, 80-87.	0.6	0
101	Crystal physics in Germany “ The lifework of Siegfried Hauss $\frac{1}{4}$ hl (*25th November 1927, â€07th January) Tj ETQq1 1 0.784314 rgBT	0.8	0
102	Personal reflections. Part 79. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 365-366.	0.8	0
103	Elastic Properties of Mullite Single Crystals up to 1400i; $\frac{1}{2}$ C. Journal of the American Ceramic Society, 2006, .	3.8	0
104	Crystal structure of tetrakis($\frac{1}{4}$ -betaine-O,O')dibromo-dicopper(II) dibromide dihydrate, [Cu ₂ {(CH ₃) ₃ NCH ₂ COO}4Br ₂]Br ₂ · 2H ₂ O, with a propeller-shaped dinuclear copper complex. Zeitschrift Fur Kristallographie - New Crystal Structures, 2006, 221, 527-528.	0.3	0
105	Crystal structure of catena-(tris($\frac{1}{4}$ -betaine-O,Oâ€2)manganese(II)) tetrabromomanganate, [Mn(C ₅ H ₁₁ NO ₂) ₃][MnBr ₄]. Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, .	0.3	0
106	Elastic properties of selected minerals and decagonal quasicrystals at high temperatures. Applications of the RPR-method. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C436-C436.	0.3	0
107	High-temperature furnace on an imaging plate scanner system. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C547-C547.	0.3	0