

Juergen Schreuer

List of Publications by Year in descending order

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107
papers

3,082
citations

257450

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111
docs citations

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times ranked

3030
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Cr/Ni ratio on physical properties of Cr-Mn-Fe-Co-Ni high-entropy alloys. <i>Acta Materialia</i> , 2022, 227, 117693.	7.9	47
2	Revisiting the Growth of Large (Mg,Zr):SrGa ₁₂ O ₁₉ Single Crystals: Core Formation and Its Impact on Structural Homogeneity Revealed by Correlative X-ray Imaging. <i>Crystal Growth and Design</i> , 2022, 22, 2557-2568.	3.0	4
3	Thermoelastic properties and $\hat{\gamma}$ -solvus temperatures of single-crystal Ni-base superalloys. <i>Journal of Materials Science</i> , 2021, 56, 7637-7658.	3.7	12
4	A High-Pressure High-Temperature Column for the Simulation of Hydrothermal Water Circulation at Laboratory Scale. <i>Geotechnical Testing Journal</i> , 2021, 44, 1577-1594.	1.0	2
5	Characterisation of an artesian groundwater system in the Valle de Iglesia in the Central Andes of Argentina. <i>International Journal of Earth Sciences</i> , 2021, 110, 2559-2571.	1.8	3
6	Design of a Co-Al-W-Ta Alloy Series with Varying $\hat{\gamma}$ Volume Fraction and Their Thermophysical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 3931-3944.	2.2	11
7	Elastic, piezoelectric, and dielectric properties of rare-earth calcium oxoborates $\text{Ca}_4\text{O}(\text{BO}_3)_3$ (Er, Y, Dy, Gd, Sm, Nd, La). <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	9
8	On the relation of structural disorder and thermoelastic properties in ZnGa ₂ O ₄ and Zn _{1-x} Mg _x Ga ₂ O ₄ (x=0.33). <i>Journal of Alloys and Compounds</i> , 2021, 886, 161214.	5.5	2
9	Processing of a single-crystalline CrCoNi medium-entropy alloy and evolution of its thermal expansion and elastic stiffness coefficients with temperature. <i>Scripta Materialia</i> , 2020, 177, 44-48.	5.2	44
10	Thermoelastic anisotropy in NdScO ₃ and NdGaO ₃ perovskites. <i>Materials Chemistry and Physics</i> , 2020, 254, 123528.	4.0	3
11	Elastic properties of single crystal Bi ₁₂ SiO ₂₀ as a function of pressure and temperature and acoustic attenuation effects in Bi ₁₂ MO ₂₀ (M=Si, Ge and Ti). <i>Materials Research Express</i> , 2020, 7, 025701.	1.6	7
12	Thermo-mechanical properties of mullite ceramics: New data. <i>Journal of the American Ceramic Society</i> , 2019, 102, 416-426.	3.8	17
13	Ni-base superalloy single crystal (SX) mosaicity characterized by the Rotation Vector Base Line Electron Back Scatter Diffraction (RVB-EBSD) method. <i>Ultramicroscopy</i> , 2019, 206, 112817.	1.9	11
14	Order/disorder processes and electromechanical properties of monoclinic GdCa ₄ O(BO ₃) ₃ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019, 234, 707-723.	0.8	8
15	Thermoelastic properties of rare-earth scandates SmScO ₃ , TbScO ₃ and DyScO ₃ . <i>Journal of Applied Physics</i> , 2019, 126, 165103.	2.5	4
16	Elastic moduli and thermal expansion coefficients of medium-entropy subsystems of the CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018, 746, 244-255.	5.5	215
17	A phenomenological creep model for nickel-base single crystal superalloys at intermediate temperatures. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 055001.	2.0	9
18	High-Temperature Ultrasound Attenuation in Langasite and Langatate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1250-1257.	3.0	10

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19	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
20	Interplay of cation ordering and thermoelastic properties of spinel structure MgGa ₂ O ₄ . Journal of Applied Physics, 2018, 124, .	2.5	11
21	On Shear Testing of Single Crystal Ni-Base Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3951-3962.	2.2	7
22	Numerical Modelling of the Czochralski Growth of \hat{I}^2 -Ga ₂ O ₃ . Crystals, 2017, 7, 26.	2.2	46
23	Influence of the Bi ^{6<i>s</i></sup> lone electron pair on elastic properties of monoclinic Bi₄B₂O₉. Zeitschrift Fur Kristallographie - Crystalline Materials, 2015, 230, 667-676.}	0.8	4
24	Mullite: Crystal Structure and Related Properties. Journal of the American Ceramic Society, 2015, 98, 2948-2967.	3.8	208
25	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
26	Crystal physics in Germany – The lifework of Siegfried Hauss ¹ hl (*25th November 1927, –07th January) Tj ETQo 0 0 rgBT /Overlo	0.8	0
27	Advanced Scale Bridging Microstructure Analysis of Single Crystal Ni-Base Superalloys. Advanced Engineering Materials, 2015, 17, 216-230.	3.5	117
28	Incommensurate modulations of relaxor ferroelectric Ca _{0.24} Ba _{0.76} Nb ₂ O ₆ (CBN24) and Ca _{0.31} Ba _{0.69} Nb ₂ O ₆ (CBN31). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 743-749.	1.1	10
29	Relaxor Behavior of Pure and Cerium Doped Ca _x Ba _{1-x} Nb ₂ O ₆ . Ferroelectrics, 2014, 464, 80-87.	0.6	0
30	Electrical conductivity of synthetic mullite single crystals. American Mineralogist, 2014, 99, 1104-1108.	1.9	7
31	Chemically induced fracturing in alkali feldspar. Physics and Chemistry of Minerals, 2014, 41, 1-16.	0.8	24
32	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
33	Relaxor behavior of Ca _{0.22} Sr _{0.12} Ba _{0.66} Nb ₂ O ₆ . Applied Physics Letters, 2013, 102, 022903.	2.9	3
34	Relaxor behavior of ferroelectric Ca _{0.22} Sr _{0.12} Ba _{0.66} Nb ₂ O ₆ . Applied Physics Letters, 2013, 102, 022903.	3.2	18
35	Structure-property relations and thermodynamic properties of monoclinic petalite, LiAlSi ₄ O ₁₀ . Journal of Physics Condensed Matter, 2012, 24, 345402.	1.8	14

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37	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
38	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
39	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
40	Single crystal growth and characterization of mullite-type $\text{Bi}_{2}\text{Mn}_{4}\text{O}_{10}$. International Journal of Materials Research, 2012, 103, 449-455.	0.3	11
41	Crystal chemistry and properties of mullite-type $\text{Bi}_{2}\text{M}_{4}\text{O}_{9}$: An overview. International Journal of Materials Research, 2012, 103, 422-429.	0.3	30
42	Incommensurate modulation of calcium barium niobate (CBN28 and Ce:CBN28). Acta Crystallographica Section B: Structural Science, 2012, 68, 101-106.	1.8	18
43	High temperature elastic properties of Mg-cordierite: experimental studies and atomistic simulations. Zeitschrift für Kristallographie, 2011, 226, 236-253.	1.1	11
44	Radial-fibrous calcites: A new look at an old problem. Sedimentary Geology, 2011, 239, 23-36.	2.1	64
45	Correlation between dielectric properties and chemical composition of the tourmaline single crystals. Applied Physics Letters, 2011, 99, .	3.3	6
46	Anomalous elastic behavior of relaxor ferroelectric $\text{Ca}_{0.28}\text{Ba}_{0.72}\text{Nb}_{2}\text{O}_{6}$ single crystals. Physical Review B, 2011, 84, .	3.3	27
47	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. Applied Physics Letters, 2011, 99, 252901.	3.3	8
48	Thermally induced structural changes in modulated $\text{Ca}_{0.28}\text{Ba}_{0.72}\text{Nb}_{2}\text{O}_{6}$ (CBN28). Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C759-C759.	0.3	1
49	Ultrasonic investigation on the distorted diamond chain compound Azurite. Journal of Physics: Conference Series, 2010, 200, 012226.	0.4	4
50	Publisher's Note: Magnetoelastic and structural properties of azurite $\text{Cu}_{3}(\text{CO}_{3})_{2}(\text{OH})_{2}$ from neutron scattering and muon spin rotation [Phys. Rev. B 81, 140406(R) (2010)]. Physical Review B, 2010, 81, .	3.2	0
51	Magnetoelastic and structural properties of azurite		

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55	Elastic and anelastic anomalies in (Ca,Sr)TiO ₃ perovskites: Analogue behaviour for silicate perovskites. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 167, 110-117.	1.9	39
56	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. <i>Physical Review Letters</i> , 2008, 100, 117202.	7.8	109
57	Magneto-structural correlations in a new oxalato-bridged Cu(II) alternating-exchange spin-chain compound. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 015221.	1.8	3
58	Crystal structure of monoqua(betaine)dichloridocopper(II), C ₅ H ₁₁ NO ₂ · CuCl ₂ · H ₂ O. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2008, 223, 485-486.	0.3	0
59	Crystal structure of triaqua-1,10-phenanthroline-nickel(II) maleate dihydrate, Ni(H ₂ O) ₃ (C ₁₂ H ₈ N ₂)(C ₄ H ₂ O ₄) · 2H ₂ O. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2008, 223, 82-84.	0.3	2
60	Crystal structure of diaquabis(¼-betaine-O,O')tris(copper(II) dichloride), (C ₅ H ₁₁ NO ₂) ₂ · 3CuCl ₂ · 2H ₂ O. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2008, 223, 487-488.	0.3	1
61	The Samson phase, $\hat{1}^2$ -Mg ₂ Al ₃ , revisited. <i>Zeitschrift Für Kristallographie</i> , 2007, 222, .	1.1	118
62	Intrinsic vs. extrinsic inelastic scattering contributions in $\hat{1}^e$ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br “ Transport measurements under hydrostatic pressure. <i>Comptes Rendus Chimie</i> , 2007, 10, 96-100.	0.5	0
63	Resistivity Studies on Different Variants of $\hat{1}^e$ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br: Evidence for Disorder and /or Defect-Induced Inelastic Scattering Contributions. <i>Journal of Low Temperature Physics</i> , 2007, 142, 191-197.	1.4	0
64	Ferromagnetic Shape Memory Materials: Underlying Physics and Practical Importance. <i>Sensor Letters</i> , 2007, 5, 229-233.	0.4	13
65	Structural and magnetic properties of betaine adducts with transition metals: I. ((CH ₃) ₃ NCH ₂ COO) ₃ MnMCl ₄ with M = Mn ²⁺ , Co ²⁺ , Zn ²⁺ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 11067-11079.	1.8	5
66	Discontinuous evolution of single-crystal elastic constants as a function of pressure through the C2/câ†”P21/c phase transition in spodumene (LiAlSi ₂ O ₆). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
67	Crystal structure of tetrakis(¼-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. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2006, 221, 529-531.	0.3	0
68	Structural evolution, strain and elasticity of perovskites at high pressures and temperatures. <i>Journal of Mineralogical and Petrological Sciences</i> , 2006, 101, 95-109.	0.9	16
69	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
70	Elastic Properties of Mullite Single Crystals up to 1400oC. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1624-1631.	3.8	41
71	Resistivity studies on different variants of $\hat{1}^e$ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br: Evidence for Disorder and/or defect-induced inelastic scattering contributions. <i>Journal of Low Temperature Physics</i> , 2006, 142, 191-196.	1.4	4
72	Crystal structure of bis(hydrogenbetaine) tetrachlorocuprate(II) monohydrate, [(CH ₃) ₃ NCH ₂ COOH] ₂ [CuCl ₄] · H ₂ O. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2006, 221, 525-526.	0.3	1

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73	Crystal growth and elastic properties of orthorhombic Bi ₂ Ga ₄ O ₉ . Journal of Physics Condensed Matter, 2006, 18, 10977-10988.	1.8	27
74	Elastic Properties of Mullite Single Crystals up to 1400°C. Journal of the American Ceramic Society, 2006, .	3.8	0
75	Crystal structure of tetrakis(¼-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
76	Elastic properties of tantalum carbide (TaC). Solid State Communications, 2005, 134, 245-250.	1.9	101
77	Resistivity studies under hydrostatic pressure on a low-resistance variant of the quasi-two-dimensional organic superconductor (BEDT-TTF) ₂ Cu[N(CN) ₂]Br: Search for intrinsic scattering contributions. Physical Review B, 2005, 72, .	3.2	67
78	Elastic interaction between CuCl nanocrystals and a matrix of crystalline NaCl. Physical Review B, 2004, 69, .	3.2	2
79	Elastic properties of icosahedral i-Cd ₈₄ Yb ₁₆ and hexagonal h-Cd ₅₁ Yb ₁₄ . Philosophical Magazine Letters, 2004, 84, 643-653.	1.2	16
80	Small-angle neutron scattering study of volcanic rocks. European Journal of Mineralogy, 2004, 16, 407-417.	1.3	27
81	Elastic and piezoelectric properties of La ₃ /Ga ₅ /SiO ₁₄ and La ₃ /Ga _{5.5} /Ta _{sub 0.5} /O _{sub 14} : an application of resonant ultrasound spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1474-1479.	3.0	63
82	Personal reflections. Part 79. Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, 365-366.	0.8	0
83	Crystal structure and elastic properties of betaine fumarate and of betaine maleate, two isomers of		

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91	X-ray studies of the phase transitions of bis(guanidinium)zirconium bis(nitrilotriacetate) hydrate, $(C(NH_2)_3)_2Zr(N(CH_2COO)_3)_2 \cdot H_2O$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1999, 214, 173-177.	0.8	12
92	Crystal structure, dielectric, piezoelectric and elastic properties of $(\hat{A}\pm)$ -tris(ethylenediamine)cobalt(III) nitrate, $(\hat{A}\pm)\hat{A}\epsilon''[Co(H_2N(CH_2)_2NH_2)_3](NO_3)_3$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1998, 213, 161-167.	0.8	3
93	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
94	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
95	The Triclinic Room-Temperature Modification of $K_2MgWO_2(PO_4)_2$. Acta Crystallographica Section C: Crystal Structure Communications, 1997, 53, 11-14.	0.4	12
96	Crystal structure, thermal expansion and elastic properties of triclinic betaine hydrogen dihydrogen triiodate, $((CH_3)_3NCH_2COOH)H_2(IO_3)_3$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1996, 211, 903-907.	0.8	4
97	High-Temperature Furnace for an Imaging-Plate Data-Acquisition System. Journal of Applied Crystallography, 1996, 29, 365-370.	4.5	5
98	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
99	High-temperature furnace on an imaging plate scanner system. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C547-C547.	0.3	0
100	Crystal structure, thermal expansion and dielectric properties of monoclinic ethylenediammonium bis(hydrogensuccinate), $H_3N(CH_2)_2NH_3(HC_4H_4O_4)_2$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1994, 209, 32-35.	0.8	3
101	Crystal structure of catena-tri- $\frac{1}{4}$ -trimethylammoniumacetatomanganese tetrachloromanganate, $((CH_3)_3NCH_2COO)_3MnMnCl_4$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 309-310.	0.8	7
102	Crystal structure of di- $\frac{1}{4}$ -chloro-bis(trimethylammoniumacetatochlorodiaquamanganese) hydrate, $((CH_3)_3NCH_2COOMn(H_2O)_2Cl)_2Cl_2(H_2O)$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 311-312.	0.8	0
103	Crystal structure, elastic properties and phase transition of triclinic ammonium hydrogen succinate, $NH_4HC_4H_4O_4$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 206, 255-265.	0.8	5
104	Crystal structure of catena-(trimethylammoniumacetato) tetrachloro-aqua-dimanganese, $((CH_3)_3NCH_2COO)Cl_4(H_2O)Mn_2$. Zeitschrift Fur Kristallographie - Crystalline Materials, 1993, 205, 313-315.	0.8	1
105	Towards an understanding of the anomalous electromechanical behaviour of langasite and related compounds at high temperatures. , 0, , .		14
106	Anelastic relaxation effects and elastic instabilities in cgg-type compounds. , 0, , .		9
107	Elastic and piezoelectric properties of minerals II. Structure-property relationships. , 0, , 173-198.		6