

# Hans-Rudolf Wenk

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/785644/publications.pdf>

Version: 2024-02-01

173  
papers

9,515  
citations

28190

55  
h-index

45213

90  
g-index

180  
all docs

180  
docs citations

180  
times ranked

6003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Method for <i>in situ</i> texture investigation of recrystallization of Cu and Ti by high-energy synchrotron X-ray diffraction. <i>International Journal of Materials Research</i> , 2022, 94, 1199-1205.	0.1	0
2	3D Nanotomography of calcium silicate hydrates by transmission electron microscopy. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1852-1862.	1.9	9
3	Intrinsic Elastic Anisotropy of Westerly Granite Observed by Ultrasound Measurements, Microstructural Investigations, and Neutron Diffraction. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	1.4	15
4	Exploring microstructures in lower mantle mineral assemblages with synchrotron x-rays. <i>Science Advances</i> , 2021, 7, .	4.7	6
5	Using Multigrain Crystallography to Explore the Microstructural Evolution of the $\hat{\Gamma}$ -Olivine to $\hat{\Gamma}$ -Ringwoodite Transformation and $\hat{\Gamma}$ -Mg <sub>2</sub> SiO <sub>4</sub> at High Pressure and Temperature. <i>Minerals (Basel)</i> , 2021, 11, 1078.	0.784314	14
6	Deformation of binary and boron-doped Ni <sub>3</sub> Al alloys at high pressures studied with synchrotron x-ray diffraction. <i>Journal of Applied Physics</i> , 2021, 129, 225101.	1.1	0
7	Seismic anisotropy, dominant slip systems and phase transitions in the lowermost mantle. <i>Geophysical Journal International</i> , 2021, 227, 1665-1681.	1.0	6
8	<i>XtalCAMP</i> : a comprehensive program for the analysis and visualization of scanning Laue X-ray micro-/nanodiffraction data. <i>Journal of Applied Crystallography</i> , 2020, 53, 1392-1403.	1.9	7
9	Residual lattice strain in quartzites as a potential palaeo-piezometer. <i>Geophysical Journal International</i> , 2020, 222, 1363-1378.	1.0	7
10	Deformation heterogeneity and intragrain lattice misorientation in high strength contrast, dual-phase bridgmanite/periclase. <i>Acta Materialia</i> , 2020, 189, 284-298.	3.8	14
11	Fabric and anisotropy of slates: From classical studies to new results. <i>Journal of Structural Geology</i> , 2020, 138, 104066.	1.0	12
12	Microstructural evolution and deformation mechanisms of Khao Kho Fault, Thailand. <i>Journal of Structural Geology</i> , 2020, 136, 104055.	1.0	4
13	A simple variant selection in stress-driven martensitic transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14905-14909.	3.3	10
14	Slags as Evidence for Copper Mining above Casaccia, Val Bregaglia (Central Alps). <i>Minerals (Basel)</i> , 2019, 9, 1078.	0.8	2
15	Preferred Orientation of Quartz in Metamorphic Rocks from the Bergell Alps. <i>Minerals (Basel)</i> , 2019, 9, 1078.	0.8	11
16	Fallout melt debris and aerodynamically-shaped glasses in beach sands of Hiroshima Bay, Japan. <i>Anthropocene</i> , 2019, 25, 100196.	1.6	8
17	Slate – A new record for crystal preferred orientation. <i>Journal of Structural Geology</i> , 2019, 125, 319-324.	1.0	13
18	Tracking mechanical DauphinÅ© twin evolution with applied stress in axial compression experiments on a low-grade metamorphic quartzite. <i>Journal of Structural Geology</i> , 2018, 112, 81-94.	1.0	9

#	ARTICLE	IF	CITATIONS
19	Strength and texture of sodium chloride to 56 GPa. <i>Journal of Applied Physics</i> , 2018, 123, 135901.	1.1	10
20	Microstructures in landslides in northwest China – Implications for creeping displacements?. <i>Journal of Structural Geology</i> , 2018, 106, 70-85.	1.0	24
21	Preferred orientation of calcium aluminosilicate hydrate induced by confined compression. <i>Cement and Concrete Research</i> , 2018, 113, 186-196.	4.6	63
22	Microlite orientation in obsidian flow measured by synchrotron X-ray diffraction. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	1.2	5
23	Seismic anisotropy of the D <sup>3</sup> layer induced by (001) deformation of post-perovskite. <i>Nature Communications</i> , 2017, 8, 14669.	5.8	20
24	Anisotropy in the deep Earth. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 269, 58-90.	0.7	70
25	Quartz preferred orientation in naturally deformed mylonitic rocks (Montalto shear zone – Italy): a comparison of results by different techniques, their advantages and limitations. <i>International Journal of Earth Sciences</i> , 2017, 106, 2259-2278.	0.9	21
26	Phillipsite and Al-tobermorite mineral cements produced through low-temperature water-rock reactions in Roman marine concrete. <i>American Mineralogist</i> , 2017, 102, 1435-1450.	0.9	140
27	Preferred Orientation Patterns of Phyllosilicates In Surface Clays. <i>Clays and Clay Minerals</i> , 2017, 65, 329-341.	0.6	7
28	The Textures of Rocks in the Earth's Deep Interior: Part I. Understanding Anisotropy and Textures in Earth Materials . , 2017, , .		0
29	Compressional residual stress in Bastogne boudins revealed by synchrotron X-ray microdiffraction. <i>Geophysical Research Letters</i> , 2016, 43, 6178-6185.	1.5	8
30	Microstructures and their implications for faulting processes – Insights from DGLab core samples from the Gulf of Corinth. <i>Journal of Structural Geology</i> , 2016, 86, 62-74.	1.0	8
31	Texture development and slip systems in bridgmanite and bridgmanite+ferropericase aggregates. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 597-613.	0.3	39
32	On the evolution of the elastic properties of organic-rich shale upon pyrolysis-induced thermal maturation. <i>Geophysics</i> , 2016, 81, D263-D281.	1.4	33
33	Seismic anisotropy of serpentinite from Val Malenco, Italy. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4113-4129.	1.4	13
34	Linking preferred orientations to elastic anisotropy in Muderong Shale, Australia. <i>Geophysics</i> , 2015, 80, C9-C19.	1.4	20
35	Texture and elastic anisotropy of a mylonitic anorthosite from the Morin Shear Zone (Quebec, Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	1.0	6
36	Preferred mineral orientation of a chloritoid-bearing slate in relation to its magnetic fabric. <i>Journal of Structural Geology</i> , 2015, 71, 125-135.	1.0	15

#	ARTICLE	IF	CITATIONS
37	Preferred orientation in experimentally deformed stishovite: implications for deformation mechanisms. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 275-285.	0.3	7
38	Residual stress preserved in quartz from the San Andreas Fault Observatory at Depth. <i>Geology</i> , 2015, 43, 219-222.	2.0	33
39	Mechanical resilience and cementitious processes in Imperial Roman architectural mortar. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18484-18489.	3.3	163
40	Rietveld texture analysis from synchrotron diffraction images. I. Calibration and basic analysis. <i>Powder Diffraction</i> , 2014, 29, 76-84.	0.4	129
41	Ab initio calculations of elastic constants of plagioclase feldspars. <i>American Mineralogist</i> , 2014, 99, 2344-2352.	0.9	14
42	Calcium Sulfoaluminate Sodalite ( $\text{Ca}_4\text{Al}_6\text{O}_{12}\text{SO}_4$ ) Crystal Structure Evaluation and Bulk Modulus Determination. <i>Journal of the American Ceramic Society</i> , 2014, 97, 892-898.	1.9	36
43	Rietveld texture analysis from synchrotron diffraction images. II. Complex multiphase materials and diamond anvil cell experiments. <i>Powder Diffraction</i> , 2014, 29, 220-232.	0.4	102
44	Antigorite crystallographic preferred orientations in serpentinites from Japan. <i>Tectonophysics</i> , 2014, 615-616, 199-212.	0.9	76
45	The influence of grain shape and volume fraction of sheet silicates on elastic properties of aggregates: Biotite platelets in an isotropic matrix. <i>Geophysics</i> , 2014, 79, D433-D441.	1.4	10
46	Synthetic seismic anisotropy models within a slab impinging on the core-mantle boundary. <i>Geophysical Journal International</i> , 2014, 199, 164-177.	1.0	34
47	In situ TEM observations of plastic deformation in quartz crystals. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 757-765.	0.3	7
48	Faulting processes in active faults – Evidences from TCDP and SAFOD drill core samples. <i>Journal of Structural Geology</i> , 2014, 65, 100-116.	1.0	29
49	OS1101 Dynamic observations of Dauphine twinning of $\hat{\epsilon}$ -quartz by in-situ TEM compression testing. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2014, 2014, OS1101-1-OS1101-2.	0.0	0
50	Incorporating carbon sequestration materials in civil infrastructure: A micro and nano-structural analysis. <i>Cement and Concrete Composites</i> , 2013, 40, 14-20.	4.6	28
51	Unlocking the secrets of Al-tobermorite in Roman seawater concrete. <i>American Mineralogist</i> , 2013, 98, 1669-1687.	0.9	133
52	A comparative study of X-ray tomographic microscopy on shales at different synchrotron facilities: ALS, APS and SLS. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 172-180.	1.0	44
53	Material and Elastic Properties of Al-tobermorite in Ancient Roman Seawater Concrete. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2598-2606.	1.9	106
54	In situ radial X-ray diffraction study of texture and stress during phase transformations in bcc-, fcc- and hcp-iron up to 36 GPa and 1000 K. <i>Acta Materialia</i> , 2013, 61, 5144-5151.	3.8	37

#	ARTICLE	IF	CITATIONS
55	Orientation Relations During the $\pm$ Phase Transition of Zirconium: <i>In Situ</i> Texture Observations at High Pressure and Temperature. <i>Physical Review Letters</i> , 2013, 111, 195701.	2.9	57
56	Combined resistive and laser heating technique for <i>in situ</i> radial X-ray diffraction in the diamond anvil cell at high pressure and temperature. <i>Review of Scientific Instruments</i> , 2013, 84, 025118.	0.6	27
57	Elastic anisotropy modeling of Kimmeridge shale. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3931-3956.	1.4	147
58	Unambiguous indexing of trigonal crystals from white-beam Laue diffraction patterns: application to Dauphin twinning and lattice stress mapping in deformed quartz. <i>Journal of Applied Crystallography</i> , 2012, 45, 982-989.	1.9	20
59	Clay fabrics in SAFOD core samples. <i>Journal of Structural Geology</i> , 2012, 43, 118-127.	1.0	23
60	Texture of Nanocrystalline Nickel: Probing the Lower Size Limit of Dislocation Activity. <i>Science</i> , 2012, 338, 1448-1451.	6.0	101
61	Crystallographic preferred orientation in $\frac{1}{4}$ stite (FeO) through the cubic-to-rhombohedral phase transition. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 613-626.	0.3	17
62	Mineral Preferred Orientation and Microstructure in the Posidonia Shale in Relation to Different Degrees of Thermal Maturity. <i>Clays and Clay Minerals</i> , 2012, 60, 315-329.	0.6	61
63	Revisiting elastic anisotropy of biotite gneiss from the Outokumpu scientific drill hole based on new texture measurements and texture-based velocity calculations. <i>Tectonophysics</i> , 2012, 570-571, 123-134.	0.9	41
64	Application of Neutron Scattering in Earth Sciences. <i>Jom</i> , 2012, 64, 127-137.	0.9	5
65	Significance of mechanical twinning in hexagonal metals at high pressure. <i>Acta Materialia</i> , 2012, 60, 430-442.	3.8	26
66	Compositional Evolution of Calcium Silicate Hydrate (CSH) Structures by Total X-Ray Scattering. <i>Journal of the American Ceramic Society</i> , 2012, 95, 793-798.	1.9	86
67	Morphology and microstructure of magnetite and ilmenite inclusions in plagioclase from Adirondack anorthositic gneiss. <i>American Mineralogist</i> , 2011, 96, 1316-1324.	0.9	42
68	Evidence for high stress in quartz from the impact site of Vredefort, South Africa. <i>European Journal of Mineralogy</i> , 2011, 23, 169-178.	0.4	19
69	Deformation in the lowermost mantle: From polycrystal plasticity to seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2011, 306, 33-45.	1.8	54
70	Texture and anisotropy analysis of Qusaiba shales. <i>Geophysical Prospecting</i> , 2011, 59, 536-556.	1.0	131
71	Low-temperature deformation in calcite veins of SAFOD core samples (San Andreas Fault) – Microstructural analysis and implications for fault rheology. <i>Tectonophysics</i> , 2011, 509, 107-119.	0.9	29
72	Mechanical twinning in quartz: Shock experiments, impact, pseudotachylites and fault breccias. <i>Tectonophysics</i> , 2011, 510, 69-79.	0.9	36

#	ARTICLE	IF	CITATIONS
73	Elastic properties of MgO nanocrystals and grain boundaries at high pressures by Brillouin scattering. <i>Physical Review B</i> , 2011, 84, .	1.1	33
74	Deformation twinning and residual stress in calcite studied with synchrotron polychromatic X-ray microdiffraction. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 491-500.	0.3	18
75	The enigma of post-perovskite anisotropy: deformation versus transformation textures. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 665-678.	0.3	33
76	First-principles calculation of the elastic moduli of sheet silicates and their application to shale anisotropy. <i>American Mineralogist</i> , 2011, 96, 125-137.	0.9	92
77	Preferred orientation of phyllosilicates: Comparison of fault gouge, shale and schist. <i>Journal of Structural Geology</i> , 2010, 32, 478-489.	1.0	66
78	Slip Systems in MgSiO <sub>3</sub> Post-Perovskite: Implications for $\epsilon$ Anisotropy. <i>Science</i> , 2010, 329, 1639-1641.	6.0	93
79	Rietveld texture analysis from TOF neutron diffraction data. <i>Powder Diffraction</i> , 2010, 25, 283-296.	0.4	164
80	Amorphous material in SAFOD core samples (San Andreas Fault): Evidence for crush-origin pseudotachylytes?. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	52
81	Texture analysis of a turbostratically disordered Ca-montmorillonite. <i>American Mineralogist</i> , 2010, 95, 98-103.	0.9	57
82	Chapter 95 Dislocations in Minerals. <i>Dislocations in Solids</i> , 2010, , 171-232.	1.6	21
83	Experimental method for <i>in situ</i> determination of material textures at simultaneous high pressure and high temperature by means of radial diffraction in the diamond anvil cell. <i>Review of Scientific Instruments</i> , 2009, 80, 104501.	0.6	43
84	Evidence for residual elastic strain in deformed natural quartz. <i>American Mineralogist</i> , 2009, 94, 1059-1062.	0.9	24
85	Dauphinite twinning and texture memory in polycrystalline quartz. Part 3: texture memory during phase transformation. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 567-583.	0.3	27
86	Deformation of lower-mantle ferropericlaase (Mg,Fe)O across the electronic spin transition. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 585-592.	0.3	39
87	Transformations for monoclinic crystal symmetry in texture analysis. <i>Journal of Applied Crystallography</i> , 2009, 42, 564-571.	1.9	33
88	Large strain shearing of halite: Experimental and theoretical evidence for dynamic texture changes. <i>Earth and Planetary Science Letters</i> , 2009, 280, 205-210.	1.8	34
89	Diamond anvil cell deformation of CaSiO <sub>3</sub> perovskite up to 49GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 159-164.	0.7	25
90	Anisotropy of experimentally compressed kaolinite-illite-quartz mixtures. <i>Geophysics</i> , 2009, 74, D13-D23.	1.4	85

#	ARTICLE	IF	CITATIONS
91	Modeling analysis of the influence of plasticity on high pressure deformation of hcp-Co. Physical Review B, 2009, 79, .	1.1	66
92	Relationship between aggregate microstructure and mortar expansion. A case study of deformed granitic rocks from the Santa Rosa mylonite zone. Journal of Materials Science, 2008, 43, 1278-1285.	1.7	30
93	Experimental determination of the elasticity of iron at high pressure. Journal of Geophysical Research, 2008, 113, .	3.3	43
94	<i>In situ</i> phase transformation and deformation of iron at high pressure and temperature. Journal of Applied Physics, 2008, 104, .	1.1	50
95	Deformation and texture development in CaIrO <sub>3</sub> post-perovskite phase up to 6 ÅGPa and 1300 ÅK. Earth and Planetary Science Letters, 2008, 268, 515-525.	1.8	57
96	Preferred orientations and anisotropy in shales: Callovo-Oxfordian shale (France) and Opalinus Clay (Switzerland). Clays and Clay Minerals, 2008, 56, 285-306.	0.6	171
97	Anisotropy in shale from Mont Terri. The Leading Edge, 2008, 27, 742-748.	0.4	33
98	Deformation of (Mg,Fe)SiO <sub>3</sub> Post-Perovskite and D'' Anisotropy. Science, 2007, 316, 1729-1732.	6.0	139
99	Dauphin Å© twinning in polycrystalline quartz. Modelling and Simulation in Materials Science and Engineering, 2007, 15, 369-384.	0.8	15
100	Preferred orientation and elastic anisotropy of illite-rich shale. Geophysics, 2007, 72, E69-E75.	1.4	76
101	Basal slip and texture development in calcite: new results from torsion experiments. Physics and Chemistry of Minerals, 2007, 34, 73-84.	0.3	38
102	Preferred orientation and elastic anisotropy in shales. Geophysics, 2007, 72, D33-D40.	1.4	87
103	In situ observation of texture evolution during $\hat{\Gamma}_2$ and $\hat{\Gamma}_1$ phase transformations in titanium alloys investigated by neutron diffraction. Acta Materialia, 2007, 55, 5718-5727.	3.8	174
104	Dauphin Å© twinning and texture memory in polycrystalline quartz. Physics and Chemistry of Minerals, 2007, 34, 599-607.	0.3	25
105	In-Situ Observation of Texture Changes during Phase Transformations in Ultra-Low-Carbon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 261-267.	1.1	38
106	Neutron Diffraction Texture Analysis. Reviews in Mineralogy and Geochemistry, 2006, 63, 399-426.	2.2	43
107	Preferred orientation and anisotropy of seismic and magnetic properties in gabbro-norites from the Bushveld layered intrusion. Tectonophysics, 2006, 420, 345-356.	0.9	36
108	Texture development and elastic stresses in magnesiow Å±stite at high pressure. Physics and Chemistry of Minerals, 2006, 33, 84-97.	0.3	29

#	ARTICLE	IF	CITATIONS
109	DauphinÅ© twinning and texture memory in polycrystalline quartz. Part 1: Experimental deformation of novaculite. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 667-676.	0.3	40
110	Deformation textures produced in diamond anvil experiments, analysed in radial diffraction geometry. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S933-S947.	0.7	42
111	Plastic Deformation of MgGeO <sub>3</sub> Post-Perovskite at Lower Mantle Pressures. <i>Science</i> , 2006, 311, 644-646.	6.0	143
112	Evidence for regional DauphinÅ© twinning in quartz from the Santa Rosa mylonite zone in Southern California. A neutron diffraction study. <i>Journal of Structural Geology</i> , 2005, 27, 1741-1749.	1.0	38
113	Texture analysis from synchrotron diffraction images with the Rietveld method: dinosaur tendon and salmon scale. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 354-360.	1.0	103
114	Quantitative Rietveld texture analysis of zirconium from single synchrotron diffraction images. <i>Journal of Applied Crystallography</i> , 2005, 38, 377-380.	1.9	96
115	Quantitative texture analysis with the HIPPO neutron TOF diffractometer. <i>Journal of Applied Crystallography</i> , 2005, 38, 462-475.	1.9	107
116	DauphinÅ© twinning as evidence for an impact origin of preferred orientation in quartzite: An example from Vredefort, South Africa. <i>Geology</i> , 2005, 33, 273.	2.0	34
117	Texture development and deformation mechanisms in ringwoodite. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 152, 191-199.	0.7	43
118	Epitaxial relationships of clinopyroxene-hosted magnetite determined using electron backscatter diffraction (EBSD) technique. <i>American Mineralogist</i> , 2004, 89, 462-466.	0.9	59
119	Texture changes in the hcpÅ†'bccÅ†'hcp transformation of zirconium studied in situ by neutron diffraction. <i>Acta Materialia</i> , 2004, 52, 1899-1907.	3.8	90
120	In situ observation of texture development in olivine, ringwoodite, magnesiowÅ¼stite and silicate perovskite at high pressure. <i>Earth and Planetary Science Letters</i> , 2004, 226, 507-519.	1.8	82
121	Deformation of polycrystalline iron up to 30GPa and 1000K. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 145, 239-251.	0.7	72
122	Texture measurements using the new neutron diffractometer HIPPO and their analysis using the Rietveld method. <i>Powder Diffraction</i> , 2004, 19, 65-68.	0.4	118
123	Texture analysis with the new HIPPO TOF diffractometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 515, 575-588.	0.7	328
124	Synchrotron texture analysis with area detectors. <i>Journal of Applied Crystallography</i> , 2003, 36, 1040-1049.	1.9	88
125	Plagioclase preferred orientation by TOF neutron diffraction and SEM-EBSD. <i>Tectonophysics</i> , 2003, 370, 269-286.	0.9	49
126	Heterogeneous deformation and texture development in halite polycrystals: comparison of different modeling approaches and experimental data. <i>Tectonophysics</i> , 2003, 370, 287-311.	0.9	56



#	ARTICLE	IF	CITATIONS
127	Method for <i>in situ</i> texture investigation of recrystallization of Cu and Ti by high-energy synchrotron X-ray diffraction. <i>International Journal of Materials Research</i> , 2003, 94, 1199-1205.	0.8	7
128	Texture development of calcite by deformation and dynamic recrystallization at 1000 K during torsion experiments of marble to large strains. <i>Tectonophysics</i> , 2001, 330, 119-140.	0.9	97
129	Slip and dislocation behaviour in dolomite. <i>European Journal of Mineralogy</i> , 2001, 13, 221-243.	0.4	24
130	Texturing of the Earth's inner core by Maxwell stresses. <i>Nature</i> , 2001, 413, 60-63.	13.7	117
131	Texturing of the upper mantle during convection. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000, 80, 573-598.	0.8	40
132	The plastic deformation of iron at pressures of the Earth's inner core. <i>Nature</i> , 2000, 405, 1044-1047.	13.7	173
133	Recent developments and goals in texture research of geological materials. <i>Journal of Structural Geology</i> , 2000, 22, 1531-1540.	1.0	18
134	Texture analysis of a recrystallized quartzite using electron diffraction in the scanning electron microscope. <i>Journal of Structural Geology</i> , 2000, 22, 91-104.	1.0	43
135	A convection model to explain anisotropy of the inner core. <i>Journal of Geophysical Research</i> , 2000, 105, 5663-5677.	3.3	53
136	Texture Analysis of Quartzite by Whole Pattern Deconvolution. <i>Textures and Microstructures</i> , 1999, 33, 139-149.	0.2	3
137	Texture Analysis of Earth Materials. Comparison of EBSD With Other Diffraction Techniques. <i>Microscopy and Microanalysis</i> , 1999, 5, 228-229.	0.2	0
138	Development of preferred orientation and microstructure in sheared quartzite: comparison of natural data and simulated results. <i>Tectonophysics</i> , 1999, 312, 133-155.	0.9	54
139	Modeling dynamic recrystallization of olivine aggregates deformed in simple shear. <i>Journal of Geophysical Research</i> , 1999, 104, 25513-25527.	3.3	94
140	Peristerite exsolution in metamorphic plagioclase from the Lepontine Alps; an analytical and transmission electron microscope study. <i>American Mineralogist</i> , 1999, 84, 517-527.	0.9	10
141	Deformation of mylonites in Palm Canyon, California, based on xenolith geometry. <i>Journal of Structural Geology</i> , 1998, 20, 559-571.	1.0	14
142	Microfibrous quartz varieties: characterization by quantitative X-ray texture analysis and transmission electron microscopy. <i>Contributions To Mineralogy and Petrology</i> , 1998, 130, 320-335.	1.2	29
143	Analysis of preferred orientations in PST and PZT thin films on various substrates. <i>Integrated Ferroelectrics</i> , 1998, 19, 121-140.	0.3	17
144	Phosphovanadylite; a new vanadium phosphate mineral with a zeolite-type structure. <i>American Mineralogist</i> , 1998, 83, 889-895.	0.9	24

#	ARTICLE	IF	CITATIONS
145	Combined texture and structure analysis of deformed limestone from time-of-flight neutron diffraction spectra. <i>Journal of Applied Physics</i> , 1997, 81, 594-600.	1.1	784
146	A deformation-based model for recrystallization of anisotropic materials. <i>Acta Materialia</i> , 1997, 45, 3283-3296.	3.8	98
147	Time-of-Flight Texture Analysis of Limestone Standard: Dubna Results. <i>Journal of Applied Crystallography</i> , 1995, 28, 503-507.	1.9	24
148	Development of phyllonite from granodiorite: Mechanisms of grain-size reduction in the Santa Rosa mylonite zone, California. <i>Journal of Structural Geology</i> , 1995, 17, 689-707.	1.0	63
149	Recommendations on modeling polyphase plasticity: conclusions of panel discussions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 175, 1-5.	2.6	11
150	Effect of muscovite on the strength and lattice preferred orientations of experimentally deformed quartz aggregates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 175, 209-220.	2.6	66
151	3-D Imaging of Crystals at Atomic Resolution. <i>Materials Research Society Symposia Proceedings</i> , 1994, 332, 563.	0.1	4
152	Lattice preferred orientations and microstructures of deformed Cordilleran marbles: correlation of shear indicators and determination of strain path. <i>Journal of Structural Geology</i> , 1993, 15, 1189-1205.	1.0	30
153	Simulations of texture development in calcite: Comparison of polycrystal plasticity theories. <i>Journal of Geophysical Research</i> , 1991, 96, 11865-11875.	3.3	27
154	Calcite textures: examples from nappes with strain-path partitioning. <i>Journal of Structural Geology</i> , 1991, 13, 369-384.	1.0	62
155	Comments on the interpretation of deformation textures in rocks. <i>Journal of Structural Geology</i> , 1991, 13, 1091-1110.	1.0	138
156	Dauphiné½ twinning in deformed quartzites: Implications of an in situ TEM study of the ?-? phase transformation. <i>Physics and Chemistry of Minerals</i> , 1991, 17, 492.	0.3	27
157	Resolution of oxygen atoms in staurolite by three-dimensional transmission electron microscopy. <i>Nature</i> , 1990, 348, 525-528.	13.7	167
158	Texture development in deformed granodiorites from the Santa Rosa mylonite zone, southern California. <i>Journal of Structural Geology</i> , 1990, 12, 177-184.	1.0	45
159	Deformation microstructures and lattice orientations of plagioclase in Gabbros from central Australia. <i>Geophysical Monograph Series</i> , 1990, , 173-186.	0.1	7
160	Fabric-related velocity anisotropy and shear wave splitting in rocks from the Santa Rosa Mylonite Zone, California. <i>Journal of Geophysical Research</i> , 1990, 95, 11213-11223.	3.3	159
161	Viscoplastic modeling of texture development in quartzite. <i>Journal of Geophysical Research</i> , 1989, 94, 17895-17906.	3.3	108
162	TOF Measurements of Pulsed Neutrons for Texture Analysis of Low Symmetry Materials. <i>Materials Research Society Symposia Proceedings</i> , 1989, 166, 337.	0.1	1

#	ARTICLE	IF	CITATIONS
163	Some basic concepts of texture analysis and comparison of three methods to calculate orientation distributions from pole figures. <i>Journal of Applied Crystallography</i> , 1988, 21, 285-304.	1.9	140
164	Convection and anisotropy of the inner core. <i>Geophysical Research Letters</i> , 1988, 15, 72-75.	1.5	173
165	Single-crystal yield surface for trigonal lattices: Application to texture transitions in calcite polycrystals. <i>Journal of Geophysical Research</i> , 1987, 92, 12917-12930.	3.3	38
166	Preferred orientation of phyllosilicates in phyllonites and ultramylonites. <i>Journal of Structural Geology</i> , 1987, 9, 719-730.	1.0	50
167	Pure shear and simple shear calcite textures. Comparison of experimental, theoretical and natural data. <i>Journal of Structural Geology</i> , 1987, 9, 731-745.	1.0	151
168	The Microstructure of Some Naturally Deformed Quartzites. , 1976, , 419-427.		14
169	Anisotropy of physical properties in metamorphic rocks. <i>Tectonophysics</i> , 1974, 23, 79-98.	0.9	21
170	Fehlbau in Quarzkristallen aus Tektoniten. <i>Contributions To Mineralogy and Petrology</i> , 1966, 12, 63-72.	1.2	4
171	Orientation Distribution Diagrams for Three Yule Marble Fabrics. <i>Geophysical Monograph Series</i> , 0, , 83-94.	0.1	9
172	Elastic anisotropy of Tambo gneiss from Promontogno, Switzerland: a comparison of crystal orientation and microstructure-based modeling and experimental measurements. <i>Geophysical Journal International</i> , 0, , ggw487.	1.0	5
173	Texture Changes During Phase Transformations Studied in situ With Neutron Diffraction. <i>Ceramic Transactions</i> , 0, , 103-113.	0.1	0