

Boriana Mihailova

List of Publications by Year in descending order

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162
papers

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167
all docs

167
docs citations

167
times ranked

3367
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical surface alteration of biodegradable magnesium exposed to corrosion media. Acta Biomaterialia, 2011, 7, 2704-2715.	8.3	174
2	Aging effects on the nucleation and crystallization kinetics of colloidal TPA-silicalite-1. Microporous and Mesoporous Materials, 2001, 43, 51-59.	4.4	125
3	Zeolite Beta nanosized assemblies. Microporous and Mesoporous Materials, 2005, 80, 227-235.	4.4	85
4	Stress, strain and Raman shifts. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 129-140.	0.8	83
5	The nucleation period for crystallization of colloidal TPA-silicalite-1 with varying silica source. Microporous and Mesoporous Materials, 2000, 40, 53-62.	4.4	78
6	High-temperature structural transformations in the relaxor ferroelectrics $\text{PbSc}_{1-x}\text{Nb}_x\text{Ta}_{1-x}\text{O}_3$. Physical Review B, 2008, 77, .	3.2	76
7	Vibrational spectra of ETS-4 and ETS-10. Zeolites, 1996, 16, 22-24.	0.5	70
8	Local structure and dynamics in relaxor-ferroelectric $\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3$ and $\text{PbSc}_{1/2}\text{Ta}_{1/2}\text{O}_3$ single crystals. Journal of Physics Condensed Matter, 2002, 14, 1091-1105.	1.8	65
9	Zeolite beta spheres. Microporous and Mesoporous Materials, 2001, 48, 31-37.	4.4	64
10	Exploring the potential of Raman spectroscopy for crystallochemical analyses of complex hydrous silicates: II. Tourmalines. American Mineralogist, 2016, 101, 970-985.	1.9	61
11	Magnesium degradation influenced by buffering salts in concentrations typical of in vitro and in vivo models. Materials Science and Engineering C, 2016, 58, 817-825.	7.3	61
12	Temperature-dependent Raman spectra of HoMn_2O_5 and TbMn_2O_5 . Physical Review B, 2005, 71, .	3.2	60
13	Raman spectroscopy study of sillenites. I. Comparison between $\text{Bi}_2(\text{Si,Mn})\text{O}_{10}$ single crystals. Journal of Physics and Chemistry of Solids, 1999, 60, 1821-1827.	4.0	58
14	How geometry and anisotropy affect residual strain in host-inclusion systems: Coupling experimental and numerical approaches. American Mineralogist, 2018, 103, 2032-2035.	1.9	58
15	Interlayer stacking disorder in zeolite beta family: a Raman spectroscopic study. Physical Chemistry Chemical Physics, 2005, 7, 2756.	2.8	52
16	Local structural phenomena in pure and Ru-doped $\text{PbZn}_{0.9}\text{Nb}$. Physical Review B, 2014, 90, .	3.2	51
17	Atomistic origin of huge response functions at the morphotropic phase boundary of $\text{PbZn}_{0.9}\text{Nb}$. Physical Review B, 2014, 90, .	3.2	51
18	Closely Packed Zeolite Nanocrystals Obtained via Transformation of Porous Amorphous Silica. Chemistry of Materials, 2004, 16, 5452-5459.	6.7	50

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19	Vibrational spectra of rings in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1994, 168, 265-274.	3.1	48
20	Structural state of microcrystalline opals: A Raman spectroscopic study. <i>American Mineralogist</i> , 2007, 92, 1325-1333.	1.9	48
21	Raman spectra of various types of tourmaline. <i>European Journal of Mineralogy</i> , 1997, 9, 935-940.	1.3	48
22	Effect of local elastic strain on the structure of Pb-based relaxors: A comparative study of pure and Ba- and Bi-doped $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. <i>Physical Review B</i> , 2009, 79, .	3.2	47
23	Pressure-Induced Phase Transition in $\text{PbSc}_{0.5}\text{Ta}_x\text{O}_3$ as a Model Pb-Based Perovskite-Type Relaxor Ferroelectric. <i>Physical Review Letters</i> , 2008, 101, 017602.	7.8	45
24	Raman spectroscopy study of sillenites. II. Effect of doping on Raman spectra of $\text{Bi}_{12}\text{TiO}_{20}$. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1829-1834.	4.0	43
25	Photochemistry of 2-(2-Hydroxyphenyl)benzothiazole Encapsulated in Nanosized Zeolites. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10640-10648.	2.5	43
26	Transformation processes in relaxor ferroelectric $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$ heavily doped with Nb and Sn. <i>Zeitschrift für Kristallographie</i> , 2011, 226, 126-137.	1.1	42
27	Nanosized Gismondine Grown in Colloidal Precursor Solutions. <i>Langmuir</i> , 2004, 20, 5271-5276.	3.5	38
28	Synthesis and nonlinear optical properties of $\text{TeO}_2\text{-Bi}_2\text{O}_3\text{-GeO}_2$ glasses. <i>Scripta Materialia</i> , 2009, 61, 493-496.	5.2	38
29	Blood compatibility of magnesium and its alloys. <i>Acta Biomaterialia</i> , 2015, 25, 384-394.	8.3	38
30	Phase transformation above T_m in $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$. <i>Physical Review B</i> , 2010, 82, .	3.2	37
31	Silicalite-1 macrostructures – preparation and structural features. <i>Microporous and Mesoporous Materials</i> , 2000, 39, 91-101.	4.4	36
32	Exploring the potential of Raman spectroscopy for crystallochemical analyses of complex hydrous silicates: I. Amphiboles. <i>American Mineralogist</i> , 2015, 100, 2682-2694.	1.9	34
33	Hydrothermal synthesis of microporous titanosilicates. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 232-238.	4.4	33
34	Langmuir-Blodgett Deposited Monolayers of Silicalite-1 Seeds for Secondary Growth of Continuous Zeolite Films. <i>Chemistry of Materials</i> , 2007, 19, 5806-5808.	6.7	32
35	Micron- and nanosized FAU-type zeolites from fly ash for antibacterial applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 16897.	6.7	32
36	The dynamics of Fe oxidation in riebeckite: A model for amphiboles. <i>American Mineralogist</i> , 2018, 103, 1103-1111.	1.9	32

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37	Periodic precipitation pattern formation in hydrothermally treated metamict zircon. American Mineralogist, 2004, 89, 1341-1347.	1.9	31
38	Structural transformations in $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$. Physical Review B, 2017, 96, .	2.9	29
39	Influence of Non-Tetrahedral Cations on Si-O Vibrations in Complex Silicates. Journal of Raman Spectroscopy, 1996, 27, 829-833.	2.5	27
40	The effect of seed size on the growth of silicalite-1 films on gold surfaces. Microporous and Mesoporous Materials, 2000, 38, 51-60.	4.4	27
41	Octahedral tilting in Pb-based relaxor ferroelectrics at high pressure. Acta Crystallographica Section B: Structural Science, 2010, 66, 280-291.	1.8	27
42	Measurement of strains in zircon inclusions by Raman spectroscopy. European Journal of Mineralogy, 2019, 31, 685-694.	1.3	27
43	Atomic arrangements in amorphous sodium titanosilicate precursor powders. Microporous and Mesoporous Materials, 2005, 86, 223-230.	4.4	26
44	Effect of doping on Raman spectra of $\text{Bi}_{12}\text{SiO}_{20}$. Solid State Communications, 1997, 102, 441-444.	1.9	24
45	Effect of La doping on the ferroic order in Pb-based perovskite-type relaxor ferroelectrics. Physical Review B, 2011, 83, .	3.2	24
46	Comparison of physicochemical properties of zorite and ETS-4. Materials Research Bulletin, 1996, 31, 163-169.	5.2	23
47	High pressure Raman spectroscopic study on the relaxor ferroelectric $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Journal of Physics Condensed Matter, 2009, 21, 235901.	1.8	23
48	Characterization of water in microporous titanium silicates. Journal of Materials Science Letters, 1997, 16, 1303-1304.	0.5	21
49	Electric field dependence of characteristic temperatures in $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$ and $\text{Pb}_{0.78}\text{Ba}_{0.22}\text{Sc}_{0.5}\text{Ta}_{0.5}\text{O}_3$. Europhysics Letters, 2011, 94, 57002.	2.0	21
50	Silver zeolite-loaded silicone elastomers: a multidisciplinary approach to synthesis and antimicrobial assessment. RSC Advances, 2015, 5, 40932-40939.	3.6	21
51	New insights into the zircon-reidite phase transition. American Mineralogist, 2019, 104, 830-837.	1.9	21
52	Nondestructive Identification of Colloidal Molecular Sieves Stabilized in Water. Journal of Physical Chemistry B, 2005, 109, 17060-17065.	2.6	20
53	Structural correlations of relaxor ferroelectrics $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$ and $\text{Pb}_{0.78}\text{Ba}_{0.22}\text{Sc}_{0.5}\text{Ta}_{0.5}\text{O}_3$. Journal of Physics Condensed Matter, 2009, 21, 235901.	3.2	20
54	Atomic-level structural correlations across the morphotropic phase boundary of a ferroelectric solid solution: $x\text{BiMg}_{1/2}\text{Ti}_{1/2}\text{O}_3$ - $(1-x)\text{PbTiO}_3$. Scientific Reports, 2017, 7, 471.	3.3	20

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55	Adaptive strain prompting a pseudo-morphotropic phase boundary in ferroelectric (1-x)Pb _{1-x} Bi _x TiO ₃ . Physical Review B, 2018, 97, .	3.2	20
56	Radiation-damaged zircon under high pressures. Physics and Chemistry of Minerals, 2018, 45, 981-993.	0.8	20
57	Nondestructive determination of the amphibole crystal chemical formulae by Raman spectroscopy: One step closer. Journal of Raman Spectroscopy, 2020, 51, 1530-1548.	2.5	20
58	Local phenomena in relaxor-ferroelectric PbSc _{0.5} Ba _{0.5} O ₃ (Ba ³⁺ =Nb, Ta) studied by Raman spectroscopy. Journal of Molecular Structure, 2003, 661-662, 469-479.	3.6	19
59	Gravimetric and spectroscopic studies of the chemical combination of moisture by as-fired and reheated terracotta. Journal of the European Ceramic Society, 2010, 30, 1867-1872.	5.7	19
60	Effect of A-site La and Ba doping on threshold field and characteristic temperatures of PbSc _{0.5} Ta _{0.5} O ₃ relaxor studied by acoustic emission. Journal of Applied Physics, 2012, 112, 064107.	2.5	19
61	Raman and IR reflection microspectroscopic study of Er:YAG laser treated permanent and deciduous human teeth. Journal of Raman Spectroscopy, 2013, 44, 1483-1490.	2.5	19
62	Influence of the octahedral cationic-site occupancies on the framework vibrations of Li-free tourmalines, with implications for estimating temperature and oxygen fugacity in host rocks. American Mineralogist, 2016, 101, 2554-2563.	1.9	19
63	The effect of osteoblasts on the surface oxidation processes of biodegradable Mg and Mg-Ag alloys studied by synchrotron IR microspectroscopy. Materials Science and Engineering C, 2018, 91, 659-668.	7.3	19
64	Structural, optical and dielectric properties of relaxor-ferroelectric Pb _{0.78} Ba _{0.22} Sc _{0.5} Ta _{0.5} O ₃ . Journal of Physics Condensed Matter, 2006, 18, L385-L393.	1.8	18
65	New Insights into Structural Alteration of Enamel Apatite Induced by Citric Acid and Sodium Fluoride Solutions. Journal of Physical Chemistry B, 2008, 112, 8840-8848.	2.6	18
66	Effect of A-site La, Ba, and Sr doping on the threshold field and characteristic temperatures of PbSc _{0.5} Nb _{0.5} O ₃ relaxor studied by acoustic emission. Journal of Applied Physics, 2013, 113, 054105.	2.5	18
67	Favorable Concurrence of Static and Dynamic Phenomena at the Morphotropic Phase Boundary of xBiNi _{0.5} Zr _{0.5} O ₃ -(1-x)PbTiO ₃ . Physical Review Letters, 2017, 119, 207604.	7.8	18
68	Raman spectroscopy study of pyrochlore Pb ₂ Sc _{0.5} Ta _{1.5} O _{6.5} crystals. Solid State Communications, 1997, 103, 623-627.	1.9	17
69	Temperature-induced structural transformations of layered titanosilicate JDF-L1. Solid State Sciences, 2004, 6, 967-972.	3.2	17
70	Side effects of a nonperoxide-based home bleaching agent on dental enamel. Journal of Biomedical Materials Research - Part A, 2009, 88A, 195-204.	4.0	17
71	The structural state of lead-based relaxor ferroelectrics under pressure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1905-1913.	3.0	17
72	Structural anisotropy and annealing-induced nanoscale atomic rearrangements in metamict titanite. American Mineralogist, 2012, 97, 1354-1365.	1.9	17

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73	Thermal annealing of natural, radiation-damaged pyrochlore. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 25-38.	0.8	17
74	Using the elastic properties of zircon-garnet host-inclusion pairs for thermobarometry of the ultrahigh-pressure Dora-Maira whiteschists: problems and perspectives. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	17
75	Ferroc nanoclusters in relaxors: the effect of oxygen vacancies. Journal of Physics Condensed Matter, 2007, 19, 246220.	1.8	16
76	Zeolite Beta Films Prepared via the Langmuir-Blodgett Technique. Journal of Physical Chemistry C, 2007, 111, 12052-12057.	3.1	16
77	Effect of Ba incorporation on pressure-induced structural changes in the relaxor ferroelectric $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Physical Review B, 2009, 80, .	3.2	16
78	High-pressure powder neutron diffraction study on lead scandium niobate. Journal of Physics Condensed Matter, 2011, 23, 035902.	1.8	16
79	The pressure-induced phase transition(s) of ZrSiO_4 : revised. Physics and Chemistry of Minerals, 2019, 46, 807-814.	0.8	16
80	Wall-related Raman scattering in ferroelastic lead phosphate $\text{Pb}_3(\text{PO}_4)_2$. Journal of Physics Condensed Matter, 2001, 13, 9383-9392.	1.8	15
81	Ferroelectric properties of ruthenium-doped lead zinc niobate-lead titanate single crystal. Journal of Applied Physics, 2009, 106, 074108.	2.5	15
82	Site doping-induced renormalization of structural transformations in the $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Physical Review B, 2010, 81, .	3.2	15
83	Structural phenomena of metamict titanite: a synchrotron, X-ray diffraction and vibrational spectroscopic study. Phase Transitions, 2010, 83, 694-702.	1.3	15
84	Electric-field-induced local structural phenomena in relaxor ferroelectric $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$ near the intermediate temperature T^* studied by Raman spectroscopy. Journal of Physics Condensed Matter, 2014, 26, 175401.	1.8	15
85	X-ray absorption spectroscopy of Ru-doped relaxor ferroelectrics with a perovskite-type structure. Physical Review B, 2014, 89, .	3.2	15
86	Mesoscopic-scale structure and dynamics near the morphotropic phase boundary of $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Physical Review B, 2015, 92, .	3.2	15
87	Quartz metastability at high pressure: what new can we learn from polarized Raman spectroscopy?. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	15
88	Establishing a protocol for the selection of zircon inclusions in garnet for Raman thermobarometry. American Mineralogist, 2020, 105, 992-1001.	1.9	15
89	Luminescence Matching with the Sensitivity Curve of the Human Eye: Optical Ceramics $\text{Mg}_{8-x}\text{M}_x(\text{BN}_2)_2\text{N}_4$ with $M = \text{Al}$ ($x = 2$) and $M = \text{Si}$ ($x = 1$). European Journal of Inorganic Chemistry, 2015, 2015, 1716-1725.	2.0	14
90	Raman spectroscopic study of Mn-doped $\text{Bi}_4\text{Ge}_3\text{O}_{12}$. Solid State Communications, 1999, 112, 11-15.	1.9	13

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91	Indirect Observation of Structured Incipient Zeolite Nanoparticles in Clear Precursor Solutions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8650-8653.	13.8	13
92	Evidence of local anisotropic strains in relaxor ferroelectrics below intermediate temperature T^* detected by acoustic emission. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 222201.	1.8	13
93	Effect of Artificial Saliva on the Apatite Structure of Eroded Enamel. <i>International Journal of Spectroscopy</i> , 2011, 2011, 1-9.	1.6	13
94	Influence of electric field on local phase transformations in relaxor ferroelectrics $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$ and $\text{Pb}_{0.78}\text{Ba}_{0.22}\text{Sc}_{0.5}\text{Ta}_{0.5}\text{O}_3$. <i>Journal of Applied Physics</i> , 2012, 112, 124111.	2.5	13
95	Pressure-induced structural transformations in pure and Bi-doped $0.9\text{PbZn}_{0.1}\text{Nb}_{0.9}\text{O}_{3-x}$. <i>Physical Review B</i> , 2012, 85, 044111.	3.2	13
96	Structural phase transitions of clinoptacumite and the dynamic Jahn-Teller effect. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 307-321.	0.8	13
97	The crystal-chemistry of riebeckite, ideally $\text{Na}_2\text{Fe}^{3+}_3\text{Fe}^{2+}_2\text{Si}_8\text{O}_{22}(\text{OH})_2$: a multi-technique study. <i>Mineralogical Magazine</i> , 2018, 82, 837-852.	1.4	13
98	Modeling of Raman spectra of $\text{H}:\text{LiNbO}_3$. <i>Solid State Communications</i> , 2000, 116, 11-15.	1.9	12
99	In situ high-temperature high-pressure Raman spectroscopy on single-crystal relaxor ferroelectrics $\text{PbSc}_{1/2}\text{Ta}_{1/2}\text{O}_3$ and $\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3$. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 155902.	1.8	12
100	TEMPERATURE-INDUCED $P2_1/c$ TO $C2/c$ PHASE TRANSITION IN PARTIALLY AMORPHOUS (METAMICT) TITANITE REVEALED BY RAMAN SPECTROSCOPY. <i>Canadian Mineralogist</i> , 2014, 52, 91-100.	1.0	12
101	The degree of crystallinity of ZSM-5 determined by Raman spectroscopy. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1791.	2.0	11
102	Cluster-approximation modelling of infrared and Raman spectra of crystalline and vitreous CaSiO_3 . <i>Journal of Non-Crystalline Solids</i> , 1995, 191, 79-84.	3.1	11
103	Vibrational spectroscopy study of the structure of silicalite-1 films on a gold surface. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 297-304.	4.4	11
104	Raman spectroscopic study of $\text{Bi}_2(\text{MoO}_4)_3$. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 195-198.	2.5	11
105	Ferroc clustering and phonon anomalies in Pb-based perovskite-type relaxors. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 275205.	1.8	11
106	Stochastic Polarization Instability in PbTiO_3 . <i>Physical Review Letters</i> , 2018, 121, 137602.	7.8	11
107	The effect of disorder on the Raman spectra of glasses. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 3813-3820.	1.8	10
108	Vibration spectroscopy study of hydrolyzed precursors for sintering calcium phosphate bio-ceramics. <i>Journal of Materials Science</i> , 2001, 36, 4291-4297.	3.7	10

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109	Nanoscale phase transformations in relaxor-ferroelectric lead scandium tantalate and lead scandium niobate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.8	10
110	CO ₂ laser-induced zonation in dental enamel: A Raman and IR microspectroscopic study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 81B, 499-507.	3.4	10
111	Chemically induced renormalization phenomena in Pb-based relaxor ferroelectrics under high pressure. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115403.	1.8	10
112	Further insights into the structural transformations in PbBi ₄ Ti ₄ O ₁₅ revealed by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2015, 117, 064102.	2.5	10
113	Structural transformations in Pb _{1-x} Bi _{4x} Ti ₄ O ₁₅ Mn ₂ S ₄ x ₂		
114	Composition-thermal expandability relations and oxidation processes in tourmaline studied by in situ Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 735-748.	0.8	9
115	Raman spectroscopy study of metal-containing boron carbide-based ceramics. <i>Solid State Sciences</i> , 2002, 4, 37-41.	3.2	8
116	Organic functionalization of Silicalite-1 nanocrystals by ultrasonic treatment in methanol. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 59-62.	4.4	8
117	Pressure-induced structural transformations in advanced ferroelectrics with relaxor behaviour. <i>High Pressure Research</i> , 2013, 33, 595-606.	1.2	8
118	Electric-field-induced local structural phenomena in Pb-based ABO ₃ -type relaxor ferroelectrics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 7-17.	3.0	8
119	The effect of the A-Site cation on the structural transformations in ABi ₄ Ti ₄ O ₁₅ (A= Ba, Sr): Raman scattering studies. <i>Journal of Solid State Chemistry</i> , 2020, 283, 121131.	2.9	8
120	Atomistic insight into lithospheric conductivity revealed by phonon-electron excitations in hydrous iron-bearing silicates. <i>Communications Materials</i> , 2021, 2, .	6.9	8
121	Infrared spectroscopic study of a γ -mercaptopropyltrimethoxysilane monolayer on a gold surface. <i>Journal of Materials Chemistry</i> , 1999, 9, 1507-1510.	6.7	6
122	Resonance Raman scattering of relaxors PbSc _{0.5} Ta _{0.5} O ₃ and PbSc _{0.5} Nb _{0.5} O ₃ . <i>Applied Physics Letters</i> , 2007, 90, 042907.	3.3	6
123	Resonance Raman scattering of perovskite-type relaxor ferroelectrics under nonambient conditions. <i>Physical Review B</i> , 2014, 90, .	3.2	6
124	A new polar symmetry of huebnerite (MnWO ₄) with ferrodistorive domains. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 160-172.	2.3	6
125	Synthesis of new cobalt aluminophosphate framework by opening a cobalt methylphosphonate layered material. <i>CrystEngComm</i> , 2017, 19, 5100-5105.	2.6	6
126	The role of symmetry-breaking strains on quartz inclusions in anisotropic hosts: Implications for Raman elastic geobarometry. <i>Lithos</i> , 2022, 422-423, 106716.	1.4	6

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127	Modified colloidal silicalite-1 crystals and their use for preparation of Langmuir-Blodgett films. <i>Studies in Surface Science and Catalysis</i> , 2007, , 577-584.	1.5	5
128	The new mineral erikapohlite, $\text{Cu}_3(\text{Zn,Cu,Mg})_4\text{Ca}_2(\text{AsO}_4)_6 \cdot 2\text{H}_2\text{O}$, the Ca-dominant analogue of keyite, from Tsumeb, Namibia. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2013, 190, 319-325.	0.3	5
129	Titanium silicalite-1 macrostructures for photocatalytic removal of organic pollutants from aqueous media. <i>Journal of Porous Materials</i> , 2016, 23, 1421-1429.	2.6	5
130	The effect of chemical variations on the structural polarity of relaxor ferroelectrics studied by resonance Raman spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 475902.	1.8	5
131	Crystal chemistry of tourmalines from the Erongo Mountains, Namibia, studied by Raman spectroscopy. <i>European Journal of Mineralogy</i> , 2017, 29, 257-267.	1.3	5
132	Multistep coupling of preexisting local ferroic distortions in PbTiO_3 above the Curie temperature. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 435401.	1.8	5
133	Local-scale structural response of $(1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-x\text{BaTiO}_3$ to external electric fields. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	5
134	Adaptive dipolar correlation in ferroelectric $\langle \text{mml:math} \rangle$		

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145	Detection of the critical end point in $\text{PbSc}_{0.5}\text{Ta}_{0.36}\text{Nb}_{0.14}\text{O}_3$ relaxor ferroelectrics crystals via acoustic emission. <i>Materials Research Express</i> , 2014, 1, 035026.	1.6	3
146	Galloplumbogummite from Tsumeb, Namibia, a new member of the alunite group with tetravalent charge balance. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2014, 191, 301-309.	0.3	3
147	Tuning the temperature-induced local-dipole coupling in $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3-x\text{BaTiO}_3$ via electric field. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	3
148	Dependence of vibrational spectra of rings of SiO_4 tetrahedra on their structural parameters. <i>Solid State Communications</i> , 1997, 101, 163-166.	1.9	2
149	A vibrational spectroscopic study of the growth of silicalite-1 films on seeded gold surfaces. <i>Studies in Surface Science and Catalysis</i> , 1999, , 221-228.	1.5	2
150	ATTENUATED TOTAL-REFLECTION INFRARED MICROSPECTROSCOPY OF PARTIALLY DISORDERED ZIRCON. <i>Canadian Mineralogist</i> , 2010, 48, 1409-1421.	1.0	2
151	The role of lone pairs in the ferroelastic phase transition in the palmierite-type lead phosphate-arsenate solid solution. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012, 227, 585-593.	0.8	2
152	Raman scattering study of the effect of <i>A</i> - and <i>B</i> -site substitution on the room-temperature structure of $\text{A}_4\text{B}_4\text{Ti}_4\text{O}_{15}$. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 196, 012041.	0.6	2
153	Microscopic origin of giant piezoelectricity in ferroelectric $\text{Bi}(\text{Mg}_{1-x}\text{Mn}_x\text{O}_3)$. <i>Physical Review B</i> , 2021, 104, .	3.2	1
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