

Ming Zhang

List of Publications by Year in descending order

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112
docs citations

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times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage effects in 6H-SiC single crystals by Si&H dual ion irradiation: A combined Raman and XRD study. Nuclear Instruments & Methods in Physics Research B, 2020, 485, 20-25.	1.4	7
2	An intensive exploration on structure transformation of talc under \hat{I}^3 -ray irradiation at $0\hat{A}^{\circ}1000\hat{A}kGy$. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 33-42.	1.5	3
3	Effect of leaching solutions on chemical durability of a natural metamict titanite. Journal of Nuclear Science and Technology, 2020, 57, 792-799.	1.3	2
4	Influence of radiation damage on the structure and chemical durability of titanites. Applied Radiation and Isotopes, 2020, 164, 109165.	1.5	1
5	Crystalline structure variation within phlogopite, muscovite and talc under $0\hat{A}^{\circ}1000\hat{A}kGy \hat{I}^3$ ray irradiation: A clear dependence on intrinsic characteristic. Applied Clay Science, 2020, 187, 105475.	5.2	9
6	Intensive study on structure transformation of muscovite single crystal under high-dose \hat{I}^3 -ray irradiation and mechanism speculation. Royal Society Open Science, 2019, 6, 190594.	2.4	8
7	Intensive evaluation of radiation stability of phlogopite single crystals under high doses of \hat{I}^3 -ray irradiation. RSC Advances, 2019, 9, 6199-6210.	3.6	9
8	Damage production in silicon carbide by dual ion beams irradiation. Journal of Nuclear Materials, 2018, 499, 326-333.	2.7	12
9	Cross-sectional investigation of radiation damage of $2\hat{A}MeV$ proton-irradiated silicon carbide. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	1
10	In-depth analysis of international collaboration and inter-institutional collaboration in nuclear science and technology during 2006 \hat{A}° 2015. Journal of Nuclear Science and Technology, 2018, 55, 29-40.	1.3	3
11	Strain Coupling and Dynamic Relaxation in a Molecular Perovskite \hat{A}° Like Multiferroic Metal \hat{A}° Organic Framework. Advanced Functional Materials, 2018, 28, 1806013.	14.9	28
12	Damage effects of Au&He dual ion irradiated silicon carbide. Materials Research Express, 2018, 5, 105902.	1.6	1
13	Growth of centimeter-sized $[(CH_3)_2NH]_2[Mn(HCOO)_3]$ hybrid formate perovskite single crystals and Raman evidence of pressure-induced phase transitions. New Journal of Chemistry, 2017, 41, 151-159.	2.8	31
14	Optical phonons, OH vibrations, and structural modifications of phlogopite at high temperatures: An in-situ infrared spectroscopic study. American Mineralogist, 2016, 101, 1873-1883.	1.9	8
15	Positron annihilation lifetime study of radiation-damaged natural zircons. Journal of Nuclear Materials, 2016, 471, 44-50.	2.7	5
16	Giant electrocaloric effect in lead-free $Ba_{0.94}Ca_{0.06}Ti_{1-x}Sn_xO_3$ ceramics with tunable Curie temperature. Applied Physics Letters, 2015, 107, .	3.3	60
17	Polarization fatigue in antiferroelectric $(Pb,La)(Zr,Ti)O_3$ thin films: The role of the effective strength of driving waveform. Ceramics International, 2015, 41, S289-S295.	4.8	6
18	Facile synthesis of three-dimensional structured carbon fiber-NiCo ₂ O ₄ -Ni(OH) ₂ high-performance electrode for pseudocapacitors. Scientific Reports, 2015, 5, 9277.	3.3	78

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19	Phase transition sequence in Pb-free $0.96(\text{K}0.5\text{Na}0.5)0.95\text{Li}0.05\text{Nb}0.93\text{Sb}0.07\text{O}3\hat{\wedge}0.04\text{BaZrO}3$ ceramic with large piezoelectric response. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	37
20	Effective driving voltage on polarization fatigue in $(\text{Pb},\text{La})(\text{Zr},\text{Ti})\text{O}3$ antiferroelectric thin films. <i>Ceramics International</i> , 2015, 41, 109-114.	4.8	9
21	Experimental and infrared characterization of the miscibility gap along the tremolite-glaucophane join. <i>American Mineralogist</i> , 2014, 99, 730-741.	1.9	7
22	Effect of polarization fatigue on the Rayleigh coefficients of ferroelectric lead zirconate titanate thin films: Experimental evidence and implications. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	13
23	Rayleigh-like nonlinear dielectric response and its evolution during electrical fatigue in antiferroelectric $(\text{Pb},\text{La})(\text{Zr},\text{Ti})\text{O}_{3\langle\text{sub}\rangle 3\langle\text{sub}\rangle}$ thin film. <i>Applied Physics Letters</i> , 2014, 104, 142904.	3.3	23
24	Infrared absorption spectroscopy of SiO_2 -moganite. <i>American Mineralogist</i> , 2014, 99, 671-680.	1.9	23
25	Phase transitions and the piezoelectricity around morphotropic phase boundary in $\text{Ba}(\text{Zr}0.2\text{Ti}0.8)\text{O}3\text{-x}(\text{Ba}0.7\text{Ca}0.3)\text{TiO}3$ lead-free solid solution. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	122
26	Mineralogical characteristics of unusual black talc ores in Guangfeng County, Jiangxi Province, China. <i>Applied Clay Science</i> , 2013, 74, 37-46.	5.2	19
27	Intermediate structures in radiation damaged titanite ($\text{CaTiSiO}_{5\langle\text{sub}\rangle 5\langle\text{sub}\rangle}$): a Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115402.	1.8	22
28	In situ infrared spectroscopic studies of OH, H ₂ O and CO ₂ in moganite at high temperatures. <i>European Journal of Mineralogy</i> , 2012, 24, 123-131.	1.3	11
29	Reverse age zonation of zircon formed by metamictisation and hydrothermal fluid leaching. <i>Lithos</i> , 2012, 150, 256-267.	1.4	42
30	Exact timing of granulite metamorphism in the Namche-Barwa, eastern Himalayan syntaxis: new constrains from SIMS Uâ€Pb zircon age. <i>International Journal of Earth Sciences</i> , 2012, 101, 239-252.	1.8	26
31	Amorphization in natural omphacite and its implications. <i>Journal of Asian Earth Sciences</i> , 2011, 42, 694-703.	2.3	5
32	OH species, U ions, and CO/CO ₂ in thermally annealed metamict zircon (ZrSiO_4). <i>American Mineralogist</i> , 2010, 95, 1717-1724.	1.9	11
33	Thermal behavior of vibrational phonons and hydroxyls of muscovite in dehydroxylation: In situ high-temperature infrared spectroscopic investigations. <i>American Mineralogist</i> , 2010, 95, 1444-1457.	1.9	36
34	Water incorporation in synthetic and natural MgAl_2O_4 spinel. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 705-718.	3.9	28
35	H ₂ O and the dehydroxylation of phyllosilicates: An infrared spectroscopic study. <i>American Mineralogist</i> , 2010, 95, 1686-1693.	1.9	23
36	Local Phenomena in meta-mict Titanite. <i>Acta Physica Polonica A</i> , 2010, 117, 74-77.	0.5	10

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37	Pb+ irradiation of synthetic zircon (ZrSiO ₄): Infrared spectroscopic investigation–Reply. American Mineralogist, 2009, 94, 856-858.	1.9	5
38	OH in zoned amphiboles of eclogite from the western Tianshan, NW-China. International Journal of Earth Sciences, 2009, 98, 1299-1309.	1.8	15
39	Cubic–tetragonal transition in KMnF ₃ : IR hard-mode spectroscopy and the temperature evolution of the (precursor) order parameter. Journal of Physics Condensed Matter, 2009, 21, 335402.	1.8	9
40	Cation ordering and phase transitions in feldspars along the join CaAl ₂ Si ₂ O ₈ -SrAl ₂ Si ₂ O ₈ : a TEM, IR and XRD investigation. Mineralogical Magazine, 2009, 73, 119-130.	1.4	6
41	Dehydroxylation of omphacite of eclogite from the Dabie-Sulu. Lithos, 2008, 105, 181-190.	1.4	14
42	Micro-Raman and micro-infrared spectroscopic studies of Pb- and Au-irradiated $Zr_{x}Si_{1-x}O_{4}$: Optical properties, structural damage, and amorphization. Physical Review B, 2008, 77, .	3.2	23
43	The crystal chemistry of Fe-bearing sphalerites: An infrared spectroscopic study. American Mineralogist, 2008, 93, 591-597.	1.9	31
44	Pb+ irradiation of synthetic zircon (ZrSiO ₄): Infrared spectroscopic investigation. American Mineralogist, 2008, 93, 1418-1423.	1.9	18
45	Raman studies of oxide minerals: a retrospective on cristobalite phases. Journal of Physics Condensed Matter, 2007, 19, 275201.	1.8	11
46	Fatigue as a local phase decomposition: A switching-induced charge-injection model. Physical Review B, 2007, 75, .	3.2	83
47	Formation of magnetite in bismuth ferrite under voltage stressing. Applied Physics Letters, 2007, 90, 262908.	3.3	33
48	Quartz-bearing C–O–H fluid inclusions diamond: Retracing the pressure–temperature path in the mantle using calibrated high temperature IR spectroscopy. Geochimica Et Cosmochimica Acta, 2007, 71, 6030-6039.	3.9	15
49	An infrared investigation of the otavite-magnesite solid solution. American Mineralogist, 2007, 92, 837-843.	1.9	6
50	Temperature dependence of IR absorption of hydrous/hydroxyl species in minerals and synthetic materials. American Mineralogist, 2007, 92, 1502-1517.	1.9	50
51	Impact of leach on lead vanado-iodoapatite [Pb ₅ (VO ₄) ₃ I]: An infrared and Raman spectroscopic study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 149-155.	3.5	33
52	Agate recrystallisation: Evidence from samples found in Archaean and Proterozoic host rocks, Western Australia. Australian Journal of Earth Sciences, 2006, 53, 235-248.	1.0	37
53	Dehydroxylation, proton migration, and structural changes in heated talc: An infrared spectroscopic study. American Mineralogist, 2006, 91, 816-825.	1.9	57
54	Hydrous species in ceramics for the encapsulation of nuclear waste: OH in zircon. Journal of Physics Condensed Matter, 2006, 18, L277-L281.	1.8	13

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55	Infrared spectroscopy of superionic conductor LiNaSO ₄ : Vibrational modes and thermodynamics. <i>Solid State Ionics</i> , 2006, 177, 37-43.	2.7	18
56	Phase separation in lead zirconate titanate and bismuth titanate during electrical shorting and fatigue. <i>Journal of Applied Physics</i> , 2006, 99, 044101.	2.5	26
57	Local Phase Decomposition as a Cause of Polarization Fatigue in Ferroelectric Thin Films. <i>Physical Review Letters</i> , 2006, 97, 177601.	7.8	131
58	Recent Materials Characterizations of [2D] and [3D] Thin Film Ferroelectric Structures. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1691-1701.	3.8	71
59	Composition-induced structural phase transitions in the (Ba _{1-x} La _x) ₂ In ₂ O _{5+x} (0 ≤ x ≤ 0.6) system. <i>Journal of Solid State Chemistry</i> , 2005, 178, 882-891.	2.9	21
60	MECHANISMS OF NANO-SHORTS IN THE ELECTRICAL BREAKDOWN OF FERROELECTRIC THIN FILMS. <i>Integrated Ferroelectrics</i> , 2005, 73, 93-98.	0.7	3
61	Transformation processes in LaAlO ₃ : Neutron diffraction, dielectric, thermal, optical, and Raman studies. <i>Physical Review B</i> , 2005, 72, .	3.2	211
62	Dehydroxylation and CO ₂ incorporation in annealed mica (sericite): An infrared spectroscopic study. <i>American Mineralogist</i> , 2005, 90, 173-180.	1.9	30
63	HIGH-TEMPERATURE AMORPHOUS HAFNIA (HfO ₂) FOR MICROELECTRONICS. <i>Integrated Ferroelectrics</i> , 2005, 74, 165-172.	0.7	5
64	Vibrational spectroscopy of fast-quenched ZrSiO ₄ melts produced by laser treatments: local structures and decomposed phases. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6363-6376.	1.8	8
65	Thermally-induced structural modification of dental enamel apatite: Decomposition and transformation of carbonate groups. <i>European Journal of Mineralogy</i> , 2005, 17, 769-776.	1.3	45
66	Periodic precipitation pattern formation in hydrothermally treated metamict zircon. <i>American Mineralogist</i> , 2004, 89, 1341-1347.	1.9	31
67	Applications of near-infrared FT-Raman spectroscopy in metamict and annealed zircon: oxidation state of U ions. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 405.	0.8	9
68	Infrared and Raman spectra of ZrSiO ₄ experimentally shocked at high pressures. <i>Mineralogical Magazine</i> , 2004, 68, 801-811.	1.4	65
69	Infrared, Raman, and cathodoluminescence studies of impact glasses. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1273-1285.	1.6	35
70	Vibrational spectroscopy of beta-eucryptite (LiAlSiO ₄): optical phonons and phase transition(s). <i>Physics and Chemistry of Minerals</i> , 2003, 30, 457-462.	0.8	32
71	Recrystallization of almost fully amorphous zircon under hydrothermal conditions: An infrared spectroscopic study. <i>Journal of Nuclear Materials</i> , 2003, 320, 280-291.	2.7	52
72	Spectroscopic methods applied to zircon. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 427-467.	4.8	121

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73	Infrared Study Of Co ₂ Incorporation Into Pyrophyllite [Al ₂ Si ₄ O ₁₀ (OH) ₂] During Dehydroxylation. Clays and Clay Minerals, 2003, 51, 439-444.	1.3	18
74	Thermal behavior of dental enamel and geologic apatite: An infrared spectroscopic study. American Mineralogist, 2003, 88, 1866-1871.	1.9	20
75	Spectroscopic Characterization of Metamictization and Recrystallization in Zircon and Titanite. Phase Transitions, 2003, 76, 117-136.	1.3	15
76	Infrared spectra and second-harmonic generation in barium strontium titanate and lead zirconate-titanate thin films: Polarons artifacts. Journal of Applied Physics, 2003, 94, 3333-3344.	2.5	22
77	Oxidation state of uranium in metamict and annealed zircon: near-infrared spectroscopic quantitative analysis. Journal of Physics Condensed Matter, 2003, 15, 3445-3470.	1.8	27
78	15. Spectroscopic methods applied to zircon. , 2003, , 427-468.		19
79	Infrared spectra of Si-O overtones, hydrous species, and U ions in metamict zircon: radiation damage and recrystallization. Journal of Physics Condensed Matter, 2002, 14, 3333-3352.	1.8	34
80	Orientalional order-disorder of ND ₄ ⁺ /NH ₄ ⁺ in synthetic ND ₄ /NH ₄ -phlogopite: a low-temperature infrared study. European Journal of Mineralogy, 2002, 14, 1033-1039.	1.3	17
81	Orientalional order-disorder of N(D,H) ₄ ⁺ in tobelite. American Mineralogist, 2002, 87, 1686-1691.	1.9	15
82	Metamictization and recrystallization of titanite: An infrared spectroscopic study. American Mineralogist, 2002, 87, 882-890.	1.9	28
83	Dehydroxylation and Transformations of the 2:1 Phyllosilicate Pyrophyllite at Elevated Temperatures: An Infrared Spectroscopic Study. Clays and Clay Minerals, 2002, 50, 272-283.	1.3	60
84	LiFeSi ₂ O ₆ and NaFeSi ₂ O ₆ at low temperatures: an infrared spectroscopic study. Physics and Chemistry of Minerals, 2002, 29, 609-616.	0.8	23
85	Thermal response of structure and hydroxyl ion of phengite-2M1: an in situ neutron diffraction and FTIR study. European Journal of Mineralogy, 2001, 13, 545-555.	1.3	35
86	Hydrous species in crystalline and metamict titanites. American Mineralogist, 2001, 86, 904-909.	1.9	16
87	Polarons, oxygen vacancies, and hydrogen in Ba _x Sr _{1-x} TiO ₃ . Journal of the European Ceramic Society, 2001, 21, 1629-1632.	5.7	16
88	Infrared spectroscopic analysis of zircon: Radiation damage and the metamict state. Journal of Physics Condensed Matter, 2001, 13, 3057-3071.	1.8	65
89	An infrared spectroscopic study of Li ₂ B ₄ O ₇ . Journal of Physics Condensed Matter, 2001, 13, 6551-6561.	1.8	22
90	Dehydration and recrystallization of radiation-damaged titanite under thermal annealing. Phase Transitions, 2000, 71, 173-187.	1.3	15

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91	Amorphization in zircon: evidence for direct impact damage. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 2401-2412.	1.8	125
92	Metamictization of zircon: Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 1915-1925.	1.8	163
93	A TEM investigation of natural metamict zircons: structure and recovery of amorphous domains. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 545-556.	0.8	71
94	Alpha-decay damage and recrystallization in zircon: evidence for an intermediate state from infrared spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 5189-5199.	1.8	37
95	DEHYDRATION OF METAMICT TITANITE: AN INFRARED SPECTROSCOPIC STUDY. <i>Canadian Mineralogist</i> , 2000, 38, 119-130.	1.0	28
96	Annealing of alpha-decay damage in zircon: a Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3131-3148.	1.8	102
97	The $\hat{I}^2\text{-}\hat{I}^3$ phase transition in titanite and the isosymmetric analogue in malayaite. <i>Phase Transitions</i> , 1999, 68, 545-556.	1.3	13
98	An infrared spectroscopic and single-crystal X-ray study of malayaite, CaSnSiO_5 . <i>Physics and Chemistry of Minerals</i> , 1999, 26, 546-553.	0.8	16
99	Phase transitions in between 1.5 K and 850 K: an infrared spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 11811-11827.	1.8	12
100	Natural titanite and malayaite: Structural investigations and the 500 K anomaly. <i>Phase Transitions</i> , 1998, 67, 27-49.	1.3	9
101	Phonon softening and MIR absorption in superconducting. <i>Superconductor Science and Technology</i> , 1997, 10, 209-212.	3.5	5
102	Phonon anomaly at 100-150K in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Phase Transitions</i> , 1997, 63, 171-186.	1.3	1
103	Exsolution and Al-Si disorder in alkali feldspars; their analysis by infrared spectroscopy. <i>American Mineralogist</i> , 1997, 82, 849-857.	1.9	28
104	Structural phase transition near 825 K in titanite; evidence from infrared spectroscopic observations. <i>American Mineralogist</i> , 1997, 82, 30-35.	1.9	44
105	Phase transformation of natural titanite: An infrared, Raman spectroscopic, optical birefringence and X-ray diffraction study. <i>Phase Transitions</i> , 1996, 59, 39-60.	1.3	32
106	Above T_c phonon renormalization in $\text{Bi}_{1.7}\text{Pb}_{0.3}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_x$: an infrared spectroscopic study. <i>European Physical Journal D</i> , 1996, 46, 1243-1244.	0.4	0
107	Phase transition(s) in titanite CaTiSiO_5 : An infrared spectroscopic, dielectric response and heat capacity study. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 41.	0.8	72
108	Optical properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. <i>Physical Review B</i> , 1995, 52, 15582-15591.	3.2	29

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109	On the thickness of ferroelastic twin walls in lead phosphate $\text{Pb}_3(\text{PO}_4)_2$ an X-ray diffraction study. Phase Transitions, 1994, 48, 135-148.	1.3	78
110	The current-voltage characteristics of single-crystal whiskers of 2:2:1:2 BiSCCO. Physica C: Superconductivity and Its Applications, 1993, 215, 67-76.	1.2	8
111	Low magnetic field anomalies in the electrical dissipation of superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7:\text{Y}_2\text{BaCuO}_5$ composites. Solid State Communications, 1992, 83, 619-623.	1.9	0
112	Raman Study of the Crystalline-to-Amorphous State in Alpha- Decay "Damaged Materials. , 0, , .		2