Ferdinando Bosi

List of Publications by Year
in descending order

105	2,495	159585 30	254184 43
papers	citations	h-index	g-index

105	105	105	1436
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal chemistry of the magnetite-ulvospinel series. American Mineralogist, 2009, 94, 181-189.	1.9	111
2	Crystal chemical relationships in the tourmaline group: Structural constraints on chemical variability. American Mineralogist, 2007, 92, 1054-1063.	1.9	94
3	Nomenclature and classification of the spinel supergroup. European Journal of Mineralogy, 2019, 31, 183-192.	1.3	87
4	Crystal chemistry of the schorl-dravite series. European Journal of Mineralogy, 2004, 16, 335-344.	1.3	85
5	The tetrahedrite group: Nomenclature and classification. American Mineralogist, 2020, 105, 109-122.	1.9	76
6	Tourmaline crystal chemistry. American Mineralogist, 2018, 103, 298-306.	1.9	66
7	Crystal chemistry of the elbaite-schorl series. American Mineralogist, 2005, 90, 1784-1792.	1.9	59
8	Iron redox reactions in the tourmaline structure: High-temperature treatment of Fe3+-rich schorl. Geochimica Et Cosmochimica Acta, 2012, 86, 239-256.	3.9	59
9	On the application of the IMAâˆ’CNMNC dominant-valency rule to complex mineral compositions. Mineralogical Magazine, 2019, 83, 627-632.	1.4	58
10	Linking Mossbauer and structural parameters in elbaite-schorl-dravite tourmalines. American Mineralogist, 2008, 93, 658-666.	1.9	54
11	Structure of the Molten Salt Methyl Ammonium Nitrate Explored by Experiments and Theory. Journal of Physical Chemistry B, 2011, 115, 13149-13161.	2.6	52
12	Crystal chemistry of the dravite-chromdravite series. European Journal of Mineralogy, 2004, 16, 345-352.	1.3	48
13	Short-range order in tourmaline: a vibrational spectroscopic approach to elbaite. Physics and Chemistry of Minerals, 2012, 39, 811-816.	0.8	47
14	Structural features in Tutton's salts K2[M2+(H2O)6](SO4)2, with M2+ = Mg, Fe, Co, Ni, Cu, and Zn. American Mineralogist, 2009, 94, 74-82.	1.9	46
15	Stereochemical constraints in tourmaline: from a short-range to a long-range structure. Canadian Mineralogist, 2011, 49, 17-27.	1.0	46
16	Behavior of cation vacancy in kenotetrahedral Cr-spinels from Albanian eastern belt ophiolites. American Mineralogist, 2004, 89, 1367-1373.	1.9	45
17	Crystal structure analyses of four tourmaline specimens from the Cleopatra's Mines (Egypt) and Jabal Zalm (Saudi Arabia), and the role of Al in the tourmaline group. American Mineralogist, 2010, 95, 510-518.	1.9	44
18	Galaxite, MnAl2O4, a spectroscopic standard for tetrahedrally coordinated Mn2+ in oxygen-based mineral structures. American Mineralogist, 2007, 92, 1225-1231.	1.9	42

#	Article	IF	Citations
19	Structural refinement and crystal chemistry of Mn-doped spinel: A case for tetrahedrally coordinated Mn3+ in an oxygen-based structure. American Mineralogist, 2007, 92, 27-33.	1.9	42
20	Disordering of Fe2+ over octahedrally coordinated sites of tourmaline. American Mineralogist, 2008, 93, 1647-1653.	1.9	42
21	Tsilaisite, NaMn3Al6(Si6O18)(BO3)3(OH)3OH, a new mineral species of the tourmaline supergroup from Grotta d'Oggi, San Pietro in Campo, island of Elba, Italy. American Mineralogist, 2012, 97, 989-994.	1.9	42
22	Blue spinel crystals in the MgAl2O4-CoAl2O4 series: Part II. Cation ordering over short-range and long-range scales. American Mineralogist, 2012, 97, 1834-1840.	1.9	35
23	Bond-valence constraints around the O1 site of tourmaline. Mineralogical Magazine, 2013, 77, 343-351.	1.4	35
24	Mn-tourmaline from island of Elba (Italy): Crystal chemistry. American Mineralogist, 2005, 90, 1661-1668.	1.9	34
25	Atomic arrangements around the O3 site in Al- and Cr-rich oxy-tourmalines: a combined EMP, SREF, FTIR and Raman study. Physics and Chemistry of Minerals, 2015, 42, 441-453.	0.8	33
26	Oxy-dravite, Na(Al2Mg)(Al5Mg)(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup. American Mineralogist, 2013, 98, 1442-1448.	1.9	32
27	First accurate location of two proton sites in tourmaline: A single-crystal neutron diffraction study of oxy-dravite. Mineralogical Magazine, 2014, 78, 681-692.	1.4	32
28	Octahedrally coordinated vacancies in tourmaline: a theoretical approach. Mineralogical Magazine, 2010, 74, 1037-1044.	1.4	31
29	Experimental evidence for partial Fe²⁺ disorder at the Y and Z sites of tourmaline: a combined EMP, SREF, MS, IR and OAS study of schorl. Mineralogical Magazine, 2015, 79, 515-528.	1.4	31
30	Crystal chemistry of the MgAl2O4-MgMn2O4-MnMn2O4 system: Analysis of structural distortion in spinel- and hausmannite-type structures. American Mineralogist, 2010, 95, 602-607.	1.9	30
31	A first record of strong structural relaxation of TO4 tetrahedra in a spinel solid solution. American Mineralogist, 2011, 96, 617-622.	1.9	30
32	On the Chemical Identification and Classification of Minerals. Minerals (Basel, Switzerland), 2019, 9, 591.	2.0	29
33	Crystallographic and spectroscopic characterization of a natural Zn-rich spinel approaching the endmember gahnite (ZnAl₂O₄) composition. Mineralogical Magazine, 2013, 77, 2941-2953.	1.4	28
34	The elasticity of MgAl2O4-MnAl2O4 spinels by Brillouin scattering and an empirical approach for bulk modulus prediction. American Mineralogist, 2015, 100, 644-651.	1.9	28
35	Mn-tourmaline crystals from island of Elba (Italy): Growth history and growth marks. American Mineralogist, 2006, 91, 944-952.	1.9	27
36	Zn-O tetrahedral bond length variations in normal spinel oxides. American Mineralogist, 2011, 96, 594-598.	1.9	27

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37	Vanadio-oxy-chromium-dravite, NaV3(Cr4Mg2)(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup. American Mineralogist, 2014, 99, 1155-1162.	1.9	27
38	Thermal stability of extended clusters in dravite: a combined EMP, SREF and FTIR study. Physics and Chemistry of Minerals, 2016, 43, 395-407.	0.8	27
39	Oxy-vanadium-dravite, NaV3(V4Mg2)(Si6O18)(BO3)3(OH)3O: Crystal structure and redefinition of the "vanadium-dravite" tourmaline. American Mineralogist, 2013, 98, 501-505.	1.9	26
40	Geothermometric study of Cr-spinels of peridotite mantle xenoliths from northern Victoria Land (Antarctica). American Mineralogist, 2014, 99, 839-846.	1.9	25
41	Cation ordering over short-range and long-range scales in the MgAl2O4-CuAl2O4 series. American Mineralogist, 2012, 97, 1821-1827.	1.9	23
42	Oxy-chromium-dravite, NaCr3(Cr4Mg2)(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup. American Mineralogist, 2012, 97, 2024-2030.	1.9	22
43	Crystal chemistry of Alâ€“Vâ€“Cr oxy-tourmalines from Sludyanka complex, Lake Baikal, Russia. European Journal of Mineralogy, 2017, 29, 457-472.	1.3	22
44	Blue spinel crystals in the MgAl2O4-CoAl2O4 series: Part I. Flux growth and chemical characterization. American Mineralogist, 2012, 97, 1828-1833.	1.9	21
45	Thermally induced cation redistribution in Fe-bearing oxy-dravite and potential geothermometric implications. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	21
46	Structural relationships in (Mn_{1â^'x}Zn_x)Mn₂O₄(0 â‰¤ x) Tj ETQq0 0 0 rgBT /Overlo 1121-1127.	1.9	19
47	A critical comment on Ertl et al. (2012): "Limitations of Fe2+ and Mn2+ site occupancy in tourmaline: Evidence from Fe2+- and Mn2+-rich tourmaline". American Mineralogist, 2013, 98, 2183-2192.	1.9	19
48	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
49	Lucchesiite, CaFe²⁺₃Al₆(Si₆O₁₈)(BO₃)₃(OH)₃, a new mineral species of the tourmaline supergroup. Mineralogical Magazine, 2017, 81, 1-14.	1.4	19
50	Late magmatic controls on the origin of schorlitic and foititic tourmalines from late-Variscan peraluminous granites of the Arbus pluton (SW Sardinia, Italy): Crystal-chemical study and petrological constraints. Lithos, 2018, 308-309, 395-411.	1.4	19
51	Fluor-elbaite, lepidolite and Taâ€“Nb oxides from a pegmatite of the 3000â€‰Ma Sinceni Pluton, Swaziland: evidence for lithiumâ€“cesiumâ€“tantalum (LCT) pegmatites in the Mesoarchean. European Journal of Mineralogy, 2018, 30, 205-218.	1.3	19
52	Stoichiometry of synthetic ulvospinel single crystals. American Mineralogist, 2008, 93, 1312-1316.	1.9	18
53	Crystallographic and spectroscopic characterization of Fe-bearing chromo-alumino-povondraite and its relations with oxy-chromium-dravite and oxy-dravite. American Mineralogist, 2013, 98, 1557-1564.	1.9	18
54	Fluor-elbaite, Na(Li1.5Al1.5)Al6(Si6O18)(BO3)3(OH)3F, a new mineral species of the tourmaline supergroup. American Mineralogist, 2013, 98, 297-303.	1.9	18

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55	Pressure-volume equation of state for chromite and magnesiochromite: A single-crystal X-ray diffraction investigation. American Mineralogist, 2014, 99, 1248-1253.	1.9	18
56	OxyplumboromÃ©ite, Pb₂Sb₂O₇, a new mineral species of the pyrochlore supergroup from Harstigen mine, VÃrmland, Sweden. Mineralogical Magazine, 2013, 77, 2931-2939.	1.4	17
57	Crystal chemistry of spinels in the system MgAl₂O₄-MgV₂O₄-Mg₂VO₄. American Mineralogist, 2016, 101, 580-586.	1.9	17
58	Color mechanisms in spinel: a multi-analytical investigation of natural crystals with a wide range of coloration. Physics and Chemistry of Minerals, 2019, 46, 343-360.	0.8	17
59	Chromo-alumino-povondraite, NaCr3(Al4Mg2)(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup. American Mineralogist, 2014, 99, 1767-1773.	1.9	16
60	Thermal behavior of afghanite, an ABABACAC member of the cancrinite group. American Mineralogist, 2012, 97, 630-640.	1.9	15
61	Bond valence at mixed occupancy sites. I. Regular polyhedra. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 864-870.	1.1	15
62	Neutron and XRD Single-Crystal Diffraction Study and Vibrational Properties of Whitlockite, the Natural Counterpart of Synthetic Tricalcium Phosphate. Crystals, 2021, 11, 225.	2.2	15
63	Crystal chemistry of some Mg, Cr, V normal spinels from Sludyanka (Lake Baikal, Russia): the influence of V 3+ on structural stability. Physics and Chemistry of Minerals, 2003, 30, 599-605.	0.8	14
64	Optical absorption spectroscopy study of the causes for color variations in natural Fe-bearing gahnite: Insights from iron valency and site distribution data. American Mineralogist, 2014, 99, 2187-2195.	1.9	14
65	Minerals in cement chemistry: A single-crystal neutron diffraction study of ettringite, Ca6Al2(SO4)3(OH)12Â·27H2O. American Mineralogist, 2019, 104, 73-78.	1.9	14
66	Thermally induced cation redistribution in fluor-elbaite and Fe-bearing tourmalines. Physics and Chemistry of Minerals, 2019, 46, 371-383.	0.8	14
67	Crystal-chemical relations and classification problems in tourmalines belonging to the oxy-schorlâ€“oxy-draviteâ€“bosiiteâ€“povondraite series. European Journal of Mineralogy, 2017, 29, 445-455.	1.3	13
68	Fluor-tsilaisite, NaMn3Al6(Si6O18)(BO3)3(OH)3F, a new tourmaline from San Piero in Campo (Elba, Italy) and new data on tsilaisitic tourmaline from the holotype specimen locality. Mineralogical Magazine, 2015, 79, 89-101.	1.4	12
69	Experimental cation redistribution in the tourmaline lucchesiite, CaFe2â€‰+â€‰3Al6(Si6O18)(BO3)3(OH)3O. Physics and Chemistry of Minerals, 2018, 45, 621-632.	0.8	12
70	Chemical and structural variability in cubic spinel oxides. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 279-285.	1.1	12
71	Vanadio-oxy-dravite, NaV3(Al4Mg2)(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup. American Mineralogist, 2014, 99, 218-224.	1.9	11
72	Petrogenetic controls on the origin of tourmalinite veins from Mandrolisai igneous massif (central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	11

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73	Crystal chemistry of the ulvospinel-qandilite series. American Mineralogist, 2014, 99, 847-851.	1.9	10
74	Redetermination of the Tutton's salt Cs2[Cu(H2O)6](SO4)2. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, i164-i165.	0.2	9
75	Geothermometric study of Mg-rich spinels from the Somma-Vesuvius volcanic complex (Naples, Italy). American Mineralogist, 2010, 95, 617-621.	1.9	9
76	Color of Mn-bearing gahnite: A first example of electronic transitions in heterovalent exchange coupled IVMn2+-VIMn3+ pairs in minerals. American Mineralogist, 2014, 99, 261-266.	1.9	9
77	Crystal-chemical behavior of Fe2+ in tourmaline dictated by structural stability: insights from a schorl with formula NaY(Fe2+2Al)Z(Al5Fe2+)(Si6O18)(BO3)3(OH)3(OH,F) from Seagull batholith (Yukon) Tj ETQq1 1 0.7843	1.3	14 rgBT
78	Chromium influence on Mg-Al intracrystalline exchange in spinels and geothermometric implications. American Mineralogist, 2017, 102, 333-340.	1.9	8
79	Mn-bearing purplish-red tourmaline from the Anjanabonoina pegmatite, Madagascar. Mineralogical Magazine, 2021, 85, 242-253.	1.4	8
80	In situ high-temperature behaviour of fluor-elbaite: breakdown conditions and products. Physics and Chemistry of Minerals, 2021, 48, 1.	0.8	8
81	Crystal structure and chemistry of skarn-associated bismuthian vesuvianite. American Mineralogist, 2013, 98, 566-573.	1.9	7
82	Static positional disorder in ulvospinel: A single-crystal neutron diffraction study. American Mineralogist, 2014, 99, 255-260.	1.9	7
83	Mean bond-length variation in crystal structures: a bond-valence approach. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 697-704.	1.1	7
84	Crystal Chemical Characterisation of Red Beryl by â€˜Standardlessâ€™ Laserâ€Induced Breakdown Spectroscopy and Singleâ€Crystal Refinement by Xâ€Ray Diffraction: An Example of Validation of an Innovative Method for the Chemical Analysis of Minerals. Geostandards and Geoanalytical Research, 2020, 44, 685-693.	3.1	7
85	Cation ordering in Pb2+-bearing, Mn3+-rich pargasite from Langban, Sweden. American Mineralogist, 2012, 97, 1635-1640.	1.9	6
86	Crystal-chemical aspects of the romÃ©ite group, A₂Sb₂O₆Y, of the pyrochlore supergroup. Mineralogical Magazine, 2017, 81, 1287-1302.	1.4	6
87	Feâ€“Mg substitution in aluminate spinels: effects on elastic properties investigated by Brillouin scattering. Physics and Chemistry of Minerals, 2018, 45, 759-772.	0.8	6
88	Celleriite, â˜(Mn22+Al)Al6(Si6O18)(BO3)3(OH)3(OH), a new mineral species of the tourmaline supergroup. American Mineralogist, 2022, 107, 31-42.	1.9	6
89	H-bonding scheme in allactite: a combined single-crystal X-ray and neutron diffraction, optical absorption spectroscopy, FTIR and EPMA-WDS study. Mineralogical Magazine, 2016, 80, 719-732.	1.4	5
90	The crystal structure of turneaureite, Ca₅(AsO₄)₃Cl, the arsenate analog of chlorapatite, and its relationships with the arsenate apatites johnbaumite and svabite. American Mineralogist, 2017, 102, 1981-1986.	1.9	5

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91	Oxy-foitite, [] (Fe2+ Al2)Al6 (Si6 O18)(BO3)3 (OH)3 O, a new mineral species of the tourmaline supergroup. European Journal of Mineralogy, 2017, 29, 889-896.	1.3	3
92	The crystal structure of svabite, Ca5(AsO4)3F, an arsenate member of the apatite supergroup. American Mineralogist, 2016, 101, 1750-1755.	1.9	2
93	Hydroxylhedyphane, Ca2Pb3(AsO4)3(OH), a new member of the apatite supergroup from LÃ¥ngban, Sweden. European Journal of Mineralogy, 2019, 31, 1015-1024.	1.3	2
94	Princivalleite, Na(Mn2Al)Al6(Si6O18)(BO3)3(OH)3O, a new mineral species of the tourmaline supergroup from Veddasca Valley, Varese, Italy. Mineralogical Magazine, 0, , 1-9.	1.4	2
95	As-bearing new mineral species from Valletta mine, Maira Valley, Piedmont, Italy: IV. Lombardoite, Ba₂Mn³⁺(AsO₄)₂(OH) and aldomarinoite, Sr₂Mn³⁺(AsO₄)₂(OH), description and crystal structure. Mineralogical Magazine, 0, , 1-34.	1.4	2
96	Uvite, CaMg₃(Al₅Mg)(Si₆O₁₈)(BO₃)₃(OH)₃(OH), a new, but long-anticipated mineral species of the tourmaline supergroup from San Piero in Campo, Elba Island, Italy. Mineralogical Magazine, 2022, 86, 767-776.	1.4	2
97	RÃ¼dlingerite, Mn2+2V5+As5+O7Â·2H2O, a New Species Isostructural with Fianelite. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /O	2.0	1
98	Isselite, Cu₆(SO₄)(OH)₁₀(H₂O)₄â‹…H₂O, a new mineral species from Eastern Liguria, Italy. Mineralogical Magazine, 2020, 84, 653-661.	1.4	1
99	Lowering R3m Symmetry in Mg-Fe-Tourmalines: The Crystal Structures of Triclinic Schorl and Oxy-Dravite, and the Mineral luinaite-(OH) Discredited. Minerals (Basel, Switzerland), 2022, 12, 430.	2.0	1
100	Armellinoite-(Ce), Ca₄Ce⁴⁺(AsO₄)₄â‹…H₂O, a new mineral species isostructural with pottsite, (Pb₃Bi)Bi(VO₄)₄â‹…H₂O. Mineralogical Magazine, 2021, 85, 901-909.	1.4	1
101	Gatedalite, Zr(Mn²⁺₂Mn³⁺₄)SiO₁₂, a new mineral species of the braunite group from LÃ¥ngban, Sweden. Mineralogical Magazine, 2015, 79, 625-634.	1.4	0
102	Chromium-rich vanadio-oxy-dravite from the Tzarevskoye uraniumâ€“vanadium deposit, Karelia, Russia: a second world-occurrence of Alâ€“Crâ€“Vâ€“oxy-tourmaline. Mineralogical Magazine, 2020, 84, 797-804.	1.4	0
103	Bianchiniite, Ba2(Ti4+V3+)(As2O5)2OF, a new diarsenite mineral from the Monte Arsiccio mine, Apuan Alps, Tuscany, Italy. Mineralogical Magazine, 2021, 85, 354-363.	1.4	0
104	Recommended X-ray single-crystal structure refinement and Rietveld refinement procedure for tremolite. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 537-549.	1.1	0
105	The 8th European Conference on Mineralogy and Spectroscopy. European Journal of Mineralogy, 2016, 28, 511-511.	1.3	0