Michail N Taran

List of Publications by Year
in descending order

60 papers	943 citations	471509 17 h-index	552781 26 g-index
60 all docs	60 docs citations	60 times ranked	756 citing authors

#	Article	IF	Citations
1	Electronic absorption spectra of Fe 2+ ions in oxygen-based rock-forming minerals at temperatures between 297 and 600 K. Physics and Chemistry of Minerals, 2001, 28, 199-210.	0.8	59
2	Optical absorption investigation of Cr3+ ion-bearing minerals in the temperature range 77?797 K. Physics and Chemistry of Minerals, 1994, 21, 360.	0.8	57
3	Spectroscopic standards for four- and fivefold-coordinated Fe²⁺in oxygen-based minerals. American Mineralogist, 2001, 86, 896-903.	1.9	48
4	Optical absorption spectroscopy of synthetic tourmalines. Physics and Chemistry of Minerals, 1993, 20, 209.	0.8	43
5	Optical spectroscopic study of tuhualite and a re-examination of the beryl, cordierite, and osumilite spectra. American Mineralogist, 2001, 86, 973-980.	1.9	42
6	Optical spectra of Co²⁺in three synthetic silicate minerals. American Mineralogist, 2001, 86, 889-895.	1.9	34
7	Electronic absorption spectroscopy of natural (Fe2+, Fe3+)-bearing spinels of spinel s.s.-hercynite and gahnite-hercynite solid solutions at different temperatures and high-pressures. Physics and Chemistry of Minerals, 2005, 32, 175-188.	0.8	32
8	Local relaxation around [6]Cr3+ in synthetic pyrope?knorringite garnets, [8]Mg3[6](Al1?X) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Tc 650-657.	0.8	31
9	Compression moduli of Cr 3+ -centered octahedra in a variety of oxygen-based rock-forming minerals. Physics and Chemistry of Minerals, 1997, 24, 109-114.	0.8	28
10	Optical spectroscopic study of tetrahedrally coordinated Co2+ in natural spinel and staurolite at different temperatures and pressures. American Mineralogist, 2009, 94, 1647-1652.	1.9	26
11	Pressure- and temperature-effects on exchange-coupled-pair bands in electronic spectra of some oxygen-based iron-bearing minerals. Physics and Chemistry of Minerals, 1996, 23, 230.	0.8	22
12	High-temperature, high-pressure optical spectroscopic study of ferric-iron-bearing tourmaline. American Mineralogist, 2002, 87, 1148-1153.	1.9	22
13	Optical absorption study of natural garnets of almandine-skiagite composition showing intervalence Fe2+ + Fe3+ -> Fe3+ + Fe2+ charge-transfer transition. American Mineralogist, 2007, 92, 753-760.	1.9	21
14	Optical and mï¿½ssbauer study of minerals of the eudialyte group. Physics and Chemistry of Minerals, 1991, 18, 117-125.	0.8	20
15	Optical spectroscopic study of synthetic NaScSi2O6â€"CaNiSi2O6 pyroxenes at normal and high pressures. Physics and Chemistry of Minerals, 2008, 35, 117-127.	0.8	20
16	Hydrogen incorporation and the oxidation state of iron in ringwoodite: A spectroscopic study. American Mineralogist, 2013, 98, 629-636.	1.9	19
17	Single-crystal electronic absorption spectroscopy of synthetic chromium-, cobalt-, and vanadium-bearing pyropes at different temperatures and pressures. Physics and Chemistry of Minerals, 2002, 29, 362-368.	0.8	18
18	Spectroscopic studies of synthetic and natural ringwoodite, Î³-(Mg, Fe)2SiO4. Physics and Chemistry of Minerals, 2009, 36, 217-232.	0.8	18

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19	New accurate compression data for Î³-Fe2SiO4. Physics of the Earth and Planetary Interiors, 2010, 183, 421-425.	1.9	18
20	Electronic absorption spectra of Fe3+ in andradite and epidote at different temperatures and pressures. European Journal of Mineralogy, 2000, 12, 7-15.	1.3	17
21	Fe2+ -Ti4+ charge-transfer in dumortierite. European Journal of Mineralogy, 2000, 12, 521-528.	1.3	17
22	Optical absorption spectra of iron ions in vivianite. Physics and Chemistry of Minerals, 1988, 16, 304.	0.8	16
23	Electronic absorption spectra of phosphate minerals with olivine-type structures: I. Members of the triphylite-lithiophilite series, M1[6]LiM2[6](Fex2+Mn1-x2+)[PO4]. European Journal of Mineralogy, 2006, 18, 337-344.	1.3	16
24	High-pressure electronic absorption spectroscopy of natural and synthetic Cr3+-bearing clinopyroxenes. Physics and Chemistry of Minerals, 2011, 38, 345-356.	0.8	16
25	Fe2+-Ti4+ charge-transfer in garnets from mantle eclogites. European Journal of Mineralogy, 1991, 3, 19-26.	1.3	15
26	Pressure-induced hydrogen bond symmetrisation in guyanaite, Î²-CrOOH: evidence from spectroscopy and ab initio simulations. European Journal of Mineralogy, 2012, 24, 839-850.	1.3	14
27	Structural relaxation and crystal field stabilization in Cr3+-containing oxides and silicates. Physics and Chemistry of Minerals, 2012, 39, 17-25.	0.8	14
28	Coupled H and Nb, Cr, and V trace element behavior in synthetic rutile at 600 ÂC, 400 MPa and possible geological application. American Mineralogist, 2013, 98, 7-18.	1.9	14
29	Spectroscopic study of synthetic hydrothermal Fe3+-bearing beryl. Physics and Chemistry of Minerals, 2018, 45, 489-496.	0.8	14
30	Spectroscopic study of natural gem quality "Imperial"-Topazes from Ouro Preto, Brazil. European Journal of Mineralogy, 2003, 15, 701-706.	1.3	13
31	Titanium-bearing pyroxenes of some E asteroids: Coexisting of igneous and hydrated rocks. Planetary and Space Science, 2010, 58, 1400-1403.	1.7	13
32	Synthetic and natural chromium-bearing spinels: an optical spectroscopy study. Physics and Chemistry of Minerals, 2014, 41, 593-602.	0.8	13
33	Polarized optical absorption spectra of synthetic chromium doped Mg2SiO4 (forsterite). Physics and Chemistry of Minerals, 1991, 18, 37.	0.8	12
34	Luminescence spectroscopic study of Cr3+ in Brazilian topazes from Ouro Preto. Physics and Chemistry of Minerals, 2006, 32, 679-690.	0.8	12
35	Pressure dependence of color of natural uvarovite: the barochromic effect. Physics and Chemistry of Minerals, 2008, 35, 175-177.	0.8	12
36	Optical spectroscopy study of variously colored gem-quality topazes from Ouro Preto, Minas Gerais, Brazil. Physics and Chemistry of Minerals, 2003, 30, 546-555.	0.8	10

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37	Infrared spectroscopy study of nitrogen centers in microdiamonds from Ukrainian Neogene placers. European Journal of Mineralogy, 2006, 18, 71-81.	1.3	9
38	Single-crystal high-pressure electronic absorption spectroscopic study of natural orthopyroxenes. European Journal of Mineralogy, 2003, 15, 689-695.	1.3	8
39	Octahedral cation ordering in Mg, Fe2+-olivine: an optical absorption spectroscopic study. Physics and Chemistry of Minerals, 2006, 33, 511-518.	0.8	8
40	Optical absorption of electronic Feâ€“Ti charge-transfer transition in natural andalusite: the thermal stability of the charge-transfer band. Physics and Chemistry of Minerals, 2011, 38, 215-222.	0.8	8
41	High-pressure optical spectroscopy study of natural siderite. Physics and Chemistry of Minerals, 2017, 44, 537-546.	0.8	8
42	Be, Fe2+-substitution in natural beryl: an optical absorption spectroscopy study. Physics and Chemistry of Minerals, 2019, 46, 795-806.	0.8	8
43	A new emerald occurrence from Kruta Balka, Western Peri-Azovian region, Ukraine: Implications for understanding the crystal chemistry of emerald. American Mineralogist, 2020, 105, 162-181.	1.9	8
44	On unusual deep-violet microcrystals of diamonds from placers of Ukraine. European Journal of Mineralogy, 2004, 16, 241-245.	1.3	7
45	Fe2+, Mg-distribution among non-equivalent structural sites M1 and M2 in natural olivines: an optical spectroscopy study. Physics and Chemistry of Minerals, 2013, 40, 309-318.	0.8	7
46	Optical absorption, MÃ¶ssbauer, and FTIR spectroscopic studies of two blue bazzites. Physics and Chemistry of Minerals, 2017, 44, 497-507.	0.8	7
47	High-pressure optical spectroscopy and X-ray diffraction studies on synthetic cobalt aluminum silicate garnet. American Mineralogist, 2007, 92, 1616-1623.	1.9	6
48	Evidence for a pressure-induced spin transition in olivine-type LiFePO4 triphylite. Physical Review B, 2018, 97, .	3.2	6
49	Optical spectroscopy study of natural Fe, Ti-bearing calcic amphiboles. Physics and Chemistry of Minerals, 1999, 27, 59-69.	0.8	5
50	Absorption properties of synthetic Cr-doped spinels in the UV, visible and infrared range and their astronomical implications. Mineralogy and Petrology, 2005, 85, 53-65.	1.1	5
51	Optical absorption spectroscopy study of three synthetic V3+-bearing clinopyroxenes. European Journal of Mineralogy, 2012, 24, 823-829.	1.3	5
52	Spectroscopy of red dravite from northern Tanzania. Physics and Chemistry of Minerals, 2015, 42, 559-568.	0.8	4
53	Optical spectra of Cu2+ ions in synthetic beryl. Journal of Applied Spectroscopy, 1990, 53, 1167-1169.	0.7	3
54	Temperature dependent polarized single crystal absorption spectra of kaemmererite. Physics and Chemistry of Minerals, 1996, 23, 242.	0.8	3

#	ARTICLE	IF	CITATIONS
55	Electronic absorption spectra of phosphate minerals with olivine-type Structures: II. The oxidized minerals ferrisicklerite, M1[6](1xLix)M2[6](Fe3+1xMn2+x)[PO4], and heterosite,M1[6](1.00)M2[6](Fe3+1xMn3+x)[PO4], with x 0.5. European Journal of Mineralogy, 2007, 19, 589-592.	1.3	3
56	FTIR spectroscopic study of natural andalusite showing electronic Feâ€"Ti charge-transfer processes: zoning and thermal evolution of OH-vibration bands. Physics and Chemistry of Minerals, 2013, 40, 63-71.	0.8	3
57	Electronic intervalence Fe2+â€‰+â€‰Ti4+â€‰â†'â€‰Fe3+â€‰+â€‰Ti3+ charge-transfer transition in ilmenite. Physics and Chemistry of Minerals, 2019, 46, 839-843.	0.8	3
58	Usambara effect in tourmaline: optical spectroscopy and colourimetric studies. Mineralogical Magazine, 2016, 80, 705-717.	1.4	2
59	Optical spectroscopic study of natural Fe-rich Pizzo Forno staurolite at different temperatures and pressures. American Mineralogist, 2010, 95, 323-328.	1.9	1
60	Is the mean value of the 3d-electron radius $$langle r^{4} angle$$ in the equation of the crystal-field theory constant?. Physics and Chemistry of Minerals, 2021, 48, 1.	0.8	0