

Michail N Taran

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Is the mean value of the 3d-electron radius $\langle r^4 \rangle$ in the equation of the crystal-field theory constant?. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.8	0
2	A new emerald occurrence from Kruta Balka, Western Peri-Azovian region, Ukraine: Implications for understanding the crystal chemistry of emerald. <i>American Mineralogist</i> , 2020, 105, 162-181.	1.9	8
3	Electronic intervalence Fe ²⁺ -Ti ⁴⁺ -Fe ³⁺ -Ti ³⁺ charge-transfer transition in ilmenite. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 839-843.	0.8	3
4	Be, Fe ²⁺ -substitution in natural beryl: an optical absorption spectroscopy study. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 795-806.	0.8	8
5	Evidence for a pressure-induced spin transition in olivine-type LiFePO ₄ triphylite. <i>Physical Review B</i> , 2018, 97, .	3.2	6
6	Spectroscopic study of synthetic hydrothermal Fe ³⁺ -bearing beryl. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 489-496.	0.8	14
7	High-pressure optical spectroscopy study of natural siderite. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 537-546.	0.8	8
8	Optical absorption, Mössbauer, and FTIR spectroscopic studies of two blue bazzites. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 497-507.	0.8	7
9	Usambara effect in tourmaline: optical spectroscopy and colourimetric studies. <i>Mineralogical Magazine</i> , 2016, 80, 705-717.	1.4	2
10	Spectroscopy of red dravite from northern Tanzania. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 559-568.	0.8	4
11	Synthetic and natural chromium-bearing spinels: an optical spectroscopy study. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 593-602.	0.8	13
12	Fe ²⁺ , Mg-distribution among non-equivalent structural sites M1 and M2 in natural olivines: an optical spectroscopy study. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 309-318.	0.8	7
13	Hydrogen incorporation and the oxidation state of iron in ringwoodite: A spectroscopic study. <i>American Mineralogist</i> , 2013, 98, 629-636.	1.9	19
14	FTIR spectroscopic study of natural andalusite showing electronic Fe ²⁺ -Ti charge-transfer processes: zoning and thermal evolution of OH-vibration bands. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 63-71.	0.8	3
15	Coupled H and Nb, Cr, and V trace element behavior in synthetic rutile at 600 °C, 400 MPa and possible geological application. <i>American Mineralogist</i> , 2013, 98, 7-18.	1.9	14
16	Optical absorption spectroscopy study of three synthetic V ³⁺ -bearing clinopyroxenes. <i>European Journal of Mineralogy</i> , 2012, 24, 823-829.	1.3	5
17	Pressure-induced hydrogen bond symmetrisation in guyanaite, ¹²⁵ I ²⁺ -CrOOH: evidence from spectroscopy and ab initio simulations. <i>European Journal of Mineralogy</i> , 2012, 24, 839-850.	1.3	14
18	Structural relaxation and crystal field stabilization in Cr ³⁺ -containing oxides and silicates. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 17-25.	0.8	14

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19	Optical absorption of electronic Fe ²⁺ -Ti charge-transfer transition in natural andalusite: the thermal stability of the charge-transfer band. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 215-222.	0.8	8
20	High-pressure electronic absorption spectroscopy of natural and synthetic Cr ³⁺ -bearing clinopyroxenes. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 345-356.	0.8	16
21	Titanium-bearing pyroxenes of some E asteroids: Coexisting of igneous and hydrated rocks. <i>Planetary and Space Science</i> , 2010, 58, 1400-1403.	1.7	13
22	Optical spectroscopic study of natural Fe-rich Pizzo Forno staurolite at different temperatures and pressures. <i>American Mineralogist</i> , 2010, 95, 323-328.	1.9	1
23	New accurate compression data for $\hat{\Gamma}^3$ -Fe ₂ SiO ₄ . <i>Physics of the Earth and Planetary Interiors</i> , 2010, 183, 421-425.	1.9	18
24	Optical spectroscopic study of tetrahedrally coordinated Co ²⁺ in natural spinel and staurolite at different temperatures and pressures. <i>American Mineralogist</i> , 2009, 94, 1647-1652.	1.9	26
25	Spectroscopic studies of synthetic and natural ringwoodite, $\hat{\Gamma}^3$ -(Mg, Fe) ₂ SiO ₄ . <i>Physics and Chemistry of Minerals</i> , 2009, 36, 217-232.	0.8	18
26	Optical spectroscopic study of synthetic NaScSi ₂ O ₆ and CaNiSi ₂ O ₆ pyroxenes at normal and high pressures. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 117-127.	0.8	20
27	Pressure dependence of color of natural uvarovite: the barochromic effect. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 175-177.	0.8	12
28	Electronic absorption spectra of phosphate minerals with olivine-type Structures: II. The oxidized minerals ferrisicklerite, M ₁ [6](1xLi _x)M ₂ [6](Fe ₃ +1xMn ₂ +x)[PO ₄], and heterosite, M ₁ [6](1.00)M ₂ [6](Fe ₃ +1xMn ₃ +x)[PO ₄], with x 0.5. <i>European Journal of Mineralogy</i> , 2007, 19, 589-592.	1.3	3
29	High-pressure optical spectroscopy and X-ray diffraction studies on synthetic cobalt aluminum silicate garnet. <i>American Mineralogist</i> , 2007, 92, 1616-1623.	1.9	6
30	Optical absorption study of natural garnets of almandine-skiagite composition showing intervalence Fe ²⁺ + Fe ³⁺ → Fe ³⁺ + Fe ²⁺ charge-transfer transition. <i>American Mineralogist</i> , 2007, 92, 753-760.	1.9	21
31	Infrared spectroscopy study of nitrogen centers in microdiamonds from Ukrainian Neogene placers. <i>European Journal of Mineralogy</i> , 2006, 18, 71-81.	1.3	9
32	Electronic absorption spectra of phosphate minerals with olivine-type structures: I. Members of the triphylite-lithiophilite series, M ₁ [6]LiM ₂ [6](Fex ₂ +Mn _{1-x} 2+)[PO ₄]. <i>European Journal of Mineralogy</i> , 2006, 18, 337-344.	1.3	16
33	Luminescence spectroscopic study of Cr ³⁺ in Brazilian topazes from Ouro Preto. <i>Physics and Chemistry of Minerals</i> , 2006, 32, 679-690.	0.8	12
34	Octahedral cation ordering in Mg, Fe ²⁺ -olivine: an optical absorption spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 511-518.	0.8	8
35	Electronic absorption spectroscopy of natural (Fe ²⁺ , Fe ³⁺)-bearing spinels of spinel s.s.-hercynite and gahnite-hercynite solid solutions at different temperatures and high-pressures. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 175-188.	0.8	32
36	Absorption properties of synthetic Cr-doped spinels in the UV, visible and infrared range and their astronomical implications. <i>Mineralogy and Petrology</i> , 2005, 85, 53-65.	1.1	5

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37	Local relaxation around [6]Cr ³⁺ in synthetic pyrope?knorringite garnets, [8]Mg ₃ [6](Al ^{1?} X) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5 650-657.	0.8	31
38	On unusual deep-violet microcrystals of diamonds from placers of Ukraine. <i>European Journal of Mineralogy</i> , 2004, 16, 241-245.	1.3	7
39	Optical spectroscopy study of variously colored gem-quality topazes from Ouro Preto, Minas Gerais, Brazil. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 546-555.	0.8	10
40	Spectroscopic study of natural gem quality "Imperial"-Topazes from Ouro Preto, Brazil. <i>European Journal of Mineralogy</i> , 2003, 15, 701-706.	1.3	13
41	Single-crystal high-pressure electronic absorption spectroscopic study of natural orthopyroxenes. <i>European Journal of Mineralogy</i> , 2003, 15, 689-695.	1.3	8
42	High-temperature, high-pressure optical spectroscopic study of ferric-iron-bearing tourmaline. <i>American Mineralogist</i> , 2002, 87, 1148-1153.	1.9	22
43	Single-crystal electronic absorption spectroscopy of synthetic chromium-, cobalt-, and vanadium-bearing pyropes at different temperatures and pressures. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 362-368.	0.8	18
44	Spectroscopic standards for four- and fivefold-coordinated Fe ²⁺ in oxygen-based minerals. <i>American Mineralogist</i> , 2001, 86, 896-903.	1.9	48
45	Optical spectra of Co ²⁺ in three synthetic silicate minerals. <i>American Mineralogist</i> , 2001, 86, 889-895.	1.9	34
46	Electronic absorption spectra of Fe ²⁺ ions in oxygen-based rock-forming minerals at temperatures between 297 and 600 K. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 199-210.	0.8	59
47	Optical spectroscopic study of tuhualite and a re-examination of the beryl, cordierite, and osumilite spectra. <i>American Mineralogist</i> , 2001, 86, 973-980.	1.9	42
48	Electronic absorption spectra of Fe ³⁺ in andradite and epidote at different temperatures and pressures. <i>European Journal of Mineralogy</i> , 2000, 12, 7-15.	1.3	17
49	Fe ²⁺ -Ti ⁴⁺ charge-transfer in dumortierite. <i>European Journal of Mineralogy</i> , 2000, 12, 521-528.	1.3	17
50	Optical spectroscopy study of natural Fe, Ti-bearing calcic amphiboles. <i>Physics and Chemistry of Minerals</i> , 1999, 27, 59-69.	0.8	5
51	Compression moduli of Cr ³⁺ -centered octahedra in a variety of oxygen-based rock-forming minerals. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 109-114.	0.8	28
52	Pressure- and temperature-effects on exchange-coupled-pair bands in electronic spectra of some oxygen-based iron-bearing minerals. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 230.	0.8	22
53	Temperature dependent polarized single crystal absorption spectra of kaemmererite. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 242.	0.8	3
54	Optical absorption investigation of Cr ³⁺ ion-bearing minerals in the temperature range 77-797 K. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 360.	0.8	57

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55	Optical absorption spectroscopy of synthetic tourmalines. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 209.	0.8	43
56	Polarized optical absorption spectra of synthetic chromium doped Mg ₂ SiO ₄ (forsterite). <i>Physics and Chemistry of Minerals</i> , 1991, 18, 37.	0.8	12
57	Optical and Mössbauer study of minerals of the eudialyte group. <i>Physics and Chemistry of Minerals</i> , 1991, 18, 117-125.	0.8	20
58	Fe ²⁺ -Ti ⁴⁺ charge-transfer in garnets from mantle eclogites. <i>European Journal of Mineralogy</i> , 1991, 3, 19-26.	1.3	15
59	Optical spectra of Cu ²⁺ ions in synthetic beryl. <i>Journal of Applied Spectroscopy</i> , 1990, 53, 1167-1169.	0.7	3
60	Optical absorption spectra of iron ions in vivianite. <i>Physics and Chemistry of Minerals</i> , 1988, 16, 304.	0.8	16