Prabhakar P Rao

List of Publications by Year
in descending order

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113	2,078	201674	302126
papers	citations	27 h-index	39 g-index

116	116	116	1653
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brilliant yellow color and enhanced NIR reflectance of monoclinic BiVO4 through distortion in VO43â˜’ tetrahedra. Solar Energy Materials and Solar Cells, 2013, 112, 134-143.	6.2	109
2	Narrow-band red-emitting phosphor, Gd 3 Zn 2 Nb 3 O 14 :Eu 3+ with high color purity for phosphor-converted white light emitting diodes. Journal of Alloys and Compounds, 2018, 751, 148-158.	5.5	75
3	Novel powellite-based red-emitting phosphors: CaLa1â˜’xNbMoO8:xEu3+ for white light emitting diodes. Journal of Solid State Chemistry, 2009, 182, 203-207.	2.9	65
4	Dielectric and ferroelectric properties of Ba3M3Ti5Nb5O30 (M=Sm or Y) ceramics. Journal of Materials Science: Materials in Electronics, 2001, 12, 729-732.	2.2	62
5	Influence of disorder-to-order transition on lattice thermal expansion and oxide ion conductivity in (CaxGd1â˜’x)2(Zr1â˜’xMx)2O7 pyrochlore solid solutions. Dalton Transactions, 2011, 40, 3839.	3.3	60
6	Electrical conductivity and impedance spectroscopy studies of cerium based aeschynite type semiconducting oxides: CeTiMO6 (M=Nb or Ta). Journal of Applied Physics, 2010, 108, .	2.5	54
7	Pigments based on terbium-doped yttrium cerate with high NIR reflectance for cool roof and surface coating applications. Dyes and Pigments, 2015, 122, 116-125.	3.7	52
8	Terbium doped Sr2MO4 [M = Sn and Zr] yellow pigments with high infrared reflectance for energy saving applications. Powder Technology, 2017, 311, 52-58.	4.2	50
9	Pigmentary colors from yellow to red in Bi2Ce2O7 by rare earth ion substitutions as possible high NIR reflecting pigments. Dyes and Pigments, 2019, 160, 177-187.	3.7	47
10	High IR reflecting BiVO 4 -CaMoO 4 based yellow pigments for cool roof applications. Energy and Buildings, 2017, 154, 491-498.	6.7	45
11	New pyrochlore-type oxides in Caâ€“Râ€“Tiâ€“Nbâ€“O system (R=Y, Sm or Gd)â€”structure, FT-IR spectra and dielectric properties. Materials Letters, 2004, 58, 1924-1927.	2.6	44
12	Brilliant IR Reflecting Yellow Colorants in Rare Earth Double Molybdate Substituted BiVO₄ Solid Solutions for Energy Saving Applications. ACS Sustainable Chemistry and Engineering, 2015, 3, 1227-1233.	6.7	42
13	Enhanced Near Infrared Reflectance with Brilliant Yellow Hues in Scheelite Type Solid Solutions, (LiLaZn)_{1/3}MoO₄â€“BiVO₄ for Energy Saving Products. ACS Sustainable Chemistry and Engineering, 2017, 5, 5118-5126.	6.7	42
14	Influence of Cation Substitution and Activator Site Exchange on the Photoluminescence Properties of Eu³⁺-Doped Quaternary Pyrochlore Oxides. Inorganic Chemistry, 2013, 52, 13304-13313.	4.0	41
15	Environment-friendly red pigments from CeO2â€“Fe2O3â€“Pr6O11 solid solutions. Journal of Alloys and Compounds, 2008, 461, 509-515.	5.5	40
16	(TiO2)1 (CeO2)1â˜’x (RE2O3)x â€“ novel environmental secure pigments. Dyes and Pigments, 2007, 73, 292-297.	3.7	38
17	New Negative Temperature Coefficient Ceramics in Caâ€“Ceâ€“Nbâ€“Mâ€“O (M=Mo or W) System. Journal of the American Ceramic Society, 2010, 93, 1576-1579.	3.8	36
18	Structural and photoluminescence properties of stannate based displaced pyrochlore-type red phosphors: Ca_{3â˜’x}Sn₃Nb₂O₁₄:xEu³⁺. Dalton Transactions, 2015, 44, 8718-8728.	3.3	36

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19	Pyrochlore type semiconducting ceramic oxides in Caâ€“Ceâ€“Tiâ€“Mâ€“O system (M=Nb or Ta)â€”Structure, microstructure and electrical properties. Materials Research Bulletin, 2009, 44, 1481-1488.	5.2	35
20	Role of Bond Strength on the Lattice Thermal Expansion and Oxide Ion Conductivity in Quaternary Pyrochlore Solid Solutions. Inorganic Chemistry, 2012, 51, 2409-2419.	4.0	35
21	Multiferroic based reddish brown pigments: Bi1â^'xMxFeO3 (M=Y and La) for coloring applications. Ceramics International, 2014, 40, 2229-2235.	4.8	35
22	Remarkable changes in the photoluminescent properties of Y₂Ce₂O₇:Eu³⁺ red phosphors through modification of the cerium oxidation states and oxygen vacancy ordering. Physical Chemistry Chemical Physics, 2014, 16, 23699-23710.	2.8	35
23	Effect of host structure on the photoluminescence properties of Ln3TaO7:Eu3+ red phosphors. Optical Materials, 2016, 52, 134-143.	3.6	35
24	Synthesis and characterisation of (BiRE)2O3 (RE: Y, Ce) pigments. Dyes and Pigments, 2004, 63, 169-174.	3.7	33
25	Induced oxygen vacancies and their effect on the structural and electrical properties of a fluorite-type CaZrO₃â€“Gd₂Zr₂O₇ system. New Journal of Chemistry, 2015, 39, 1469-1476.	2.8	32
26	Influence of local structure on photoluminescence properties of Eu³⁺ doped CeO₂ red phosphors through induced oxygen vacancies by contrasting rare earth substitutions. Physical Chemistry Chemical Physics, 2017, 19, 20110-20120.	2.8	30
27	Structural influence on the photoluminescence properties of Eu³⁺doped Gd₃MO₇(M = Nb, Sb, and Ta) red phosphors. Physical Chemistry Chemical Physics, 2014, 16, 17108-17115.	2.8	28
28	Luminescence properties of Eu³⁺, Bi³⁺ coactivated CaLaNbWO₈ red phosphors under near UV and blue excitations. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2170-2175.	1.8	24
29	New orange-red emitting phosphor La3NbO7:Eu3+ under blue excitation. Materials Letters, 2012, 81, 142-144.	2.6	24
30	Oxide ion conductivity and relaxation in CaREZrNbO7 (RE=La, Nd, Sm, Gd, and Y) system. Solid State Ionics, 2009, 180, 1164-1172.	2.7	23
31	Yâ€Doped Bi₂MoO₆ Yellow Pigments for the Coloration of Plastics. Journal of the American Ceramic Society, 2011, 94, 320-323.	3.8	23
32	Influence of (LiLa)1/2MoO4 substitution on the pigmentary properties of BiVO4. Dyes and Pigments, 2014, 104, 41-47.	3.7	22
33	Probing structural variation and multifunctionality in niobium doped bismuth vanadate materials. Dalton Transactions, 2014, 43, 15851-15860.	3.3	22
34	Color Tunable Pigments with High NIR Reflectance in Terbium-Doped Cerate Systems for Sustainable Energy Saving Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 8804-8815.	6.7	22
35	The synthesis and characterization of environmentally benign praseodymium-doped TiCeO4 pigments. Dyes and Pigments, 2008, 77, 427-431.	3.7	21
36	Influence of different additives on anataseâ€“rutile transformation in titania system. Advances in Applied Ceramics, 2001, 100, 151-154.	0.4	20

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37	Red Pigments Based on CeO₂â€“MO₂â€“Pr₆O₁₁(M=Zr and) Tj ETQq1 1 0.7843 1402-1408.	3.8	20
38	Electrical transport properties of manganese containing pyrochlore type semiconducting oxides using impedance analyses. Materials Research Bulletin, 2012, 47, 4365-4375.	5.2	20
39	Impedance spectroscopic investigation on electrical conduction and relaxation in manganese substituted pyrochlore type semiconducting oxides. Ceramics International, 2015, 41, 5992-5998.	4.8	20
40	Exploitation of Eu³⁺ red luminescence through orderâ€“disorder structural transitions in lanthanide stannate pyrochlores for warm white LED applications. Physical Chemistry Chemical Physics, 2018, 20, 24287-24299.	2.8	19
41	Ca3Ce3â^'xMxTi7Nb2O26.5 (M=Y, Sm or Gd; x=0, 1 or 2)â€”pyrochlore-type ceramic oxide semiconductors. Physica B: Condensed Matter, 2004, 349, 115-118.	2.7	18
42	Synthesis and Characterization of Environmentally Benign Nontoxic Pigments: RE2Mo2O9(RE = La or) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	18
43	Orderâ€“disorder phase transformations in quaternary pyrochlore oxide system: Investigated by X-ray diffraction, transmission electron microscopy and Raman spectroscopic techniques. Journal of Solid State Chemistry, 2009, 182, 2312-2318.	2.9	18
44	Synthesis and optical properties of Ce0.95Pr0.05â^'xMxO2 (M=Mn, Si) as potential ecological red pigments for coloration of plastics. Ceramics International, 2012, 38, 4009-4016.	4.8	18
45	Intense red line emitting phosphor LuNbO4:Eu3+ for white light emitting diode applications. Materials Letters, 2014, 120, 115-117.	2.6	18
46	New perovskite type orange red emitting phosphors, SrGd0.5Nb0.5O3:xEu3+ for WLED applications. Materials Letters, 2018, 229, 182-184.	2.6	17
47	Structural and electrical properties of nonstoichiometric semiconducting pyrochlores in Caâ€“Ceâ€“Tiâ€“Nbâ€“O system. Materials Chemistry and Physics, 2011, 127, 162-169.	4.0	16
48	Photoluminescence characteristics of new stannate pyrochlore based red phosphors: CaLaSnNbO7: Eu3+. Journal of Materials Science: Materials in Electronics, 2012, 23, 1605-1609.	2.2	16
49	Influence of aliovalent cation substitution on structural and electrical properties of Gd₂(Zr_{1â^'x}M_x)₂O_{7â^'Î´} (M = Sc, Y) systems. RSC Advances, 2015, 5, 88675-88685.	3.6	16
50	Studies on the photoluminescent properties of a single phase white light emitting phosphor CaLa1â^'xNbMoO8: x Dy3+ for pc-white LED applications. Materials Letters, 2016, 170, 196-198.	2.6	16
51	New Scheelite-based Environmentally Friendly Yellow Pigments: (BiV)x(CaW)1â^'xO4. Chemistry Letters, 2009, 38, 1088-1089.	1.3	15
52	Potential NIR Reflecting Yellow Pigments in (BiV)1â^'x(YNb)xO4 Solid Solutions. Chemistry Letters, 2013, 42, 521-523.	1.3	15
53	Effect of Zr4+ and Si4+ substitution on the luminescence properties of CaMoO4:Eu3+ red phosphors. Journal of Materials Science: Materials in Electronics, 2014, 25, 2387-2393.	2.2	15
54	Influence of Ce substitution on the order-to-disorder structural transition, thermal expansion and electrical properties in Sm2Zr2â^'xCexO7 system. RSC Advances, 2014, 4, 12321.	3.6	15

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55	Synthesis of Novel Nontoxic Yellow Pigments: Sr2Ce1â^'xTbxO4. Chemistry Letters, 2014, 43, 985-987.	1.3	15
56	New series of brilliant yellow colorants in rare earth doped scheelite type oxides, (LiRE)1/2WO4-BiVO4 for cool roof applications. Solar Energy Materials and Solar Cells, 2019, 200, 110015.	6.2	15
57	New perovskite type oxides: NaATiMO6 (A=Ca or Sr; M=Nb or Ta) and their electrical properties. Materials Letters, 2008, 62, 623-628.	2.6	14
58	Synthesis and Characterization of CeO2â€“TiO2â€“Pr6O11Solid Solutions for Environmentally Benign Nontoxic Red Pigments. Chemistry Letters, 2006, 35, 1412-1413.	1.3	13
59	Monoclinic LaGa_{1â^'x}Mn_xGe₂O₇: a new blue chromophore based on Mn³⁺in the trigonal bipyramidal coordination with longer apical bond lengths. RSC Advances, 2015, 5, 27278-27281.	3.6	13
60	Multiband Orange-Red-Emitting Phosphors SrY[sub 3]SiP[sub 5]O[sub 20]:Eu[sup 3+] under Near-UV Irradiation. Journal of the Electrochemical Society, 2009, 156, P127.	2.9	12
61	Effects of rare earth substitution on the optical properties of Bi2MoO6 for coloring applications. Materials Research Bulletin, 2015, 70, 93-98.	5.2	12
62	Nanoparticles of Ba2MSnO6â^'x (M=Ce, La and Nd; x=0 or 0.5): a new group of complex perovskite oxides. Materials Letters, 2003, 57, 3641-3647.	2.6	11
63	New Red- and Green-Emitting Phosphors, AYP2O7.5:RE3+(A=Ca and Sr; RE=Eu and Tb) under Near-UV Irradiation. Journal of the American Ceramic Society, 2008, 91, 473-477.	3.8	11
64	New powellite type oxides in Caâ€“Râ€“Nbâ€“Moâ€“O system (R=Y, La, Nd, Sm or Bi)â€”Their synthesis, structure and dielectric properties. Materials Letters, 2008, 62, 2868-2871.	2.6	11
65	Improvement of Morphology and Luminescence Properties of Powellite Type Red Phosphors <scp><scp>CaGd</scp></scp>_{1â^'x}<scp><scp>NbMoO</scp></scp>₈:x<scp><scp>Eu</scp></scp>³⁺ Synthesized <scp>via</scp> Citrate Gel Route. Journal of the American Ceramic Society, 2012, 95, 2260-2265.	3.8	11
66	Studies on order â€“ Disorder transition, lattice expansion and ionic conductivity in aliovalent cation substituted Sm2Zr2O7 System. Journal of Solid State Chemistry, 2017, 255, 121-128.	2.9	11
67	Enhanced Eu³⁺Red Luminescence in Scheelite Based Oxides, CaLaSbWO₈. ECS Journal of Solid State Science and Technology, 2013, 2, R44-R48.	1.8	10
68	New dielectric materials based on pyrochlore-type oxides- Ca3RE3Ti7Ta2O26.5 (RE = Pr, Sm, Gd, Dy or Y): Structure, FT-IR spectra, microstructure and dielectric properties. Journal of Materials Science: Materials in Electronics, 2006, 17, 497-502.	2.2	9
69	Manganese double substituted pyrochlore type semiconducting oxides for high temperature NTC thermistor applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 2985-2991.	2.2	9
70	Microwave dielectric properties of new pyrochlore type oxides: Pb3R3Ti7Nb2O26.5 (R=Y, Pr, Nd, Gd or) Tj ETQq0 0 0 rgBT /Overlock 10 1 184-187.	3.5	8
71	New Family of Dielectric Materials in Caâ€“Yâ€“Tiâ€“Nbâ€“O System Having Pyrochlore Type Structure. Journal of the American Ceramic Society, 2007, 90, 3656-3659.	3.8	8
72	Ionic conductivity in new perovskite type oxides: NaAZrMO6 (A=Ca or Sr; M=Nb or Ta). Materials Chemistry and Physics, 2008, 109, 189-193.	4.0	8

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73	Novel monazite type rare earth based phosphates ARP3O10 (A=Ba or Ca; R=La, Ce or Sm) â€" Studies on their preparation, structure, microstructure and dielectric properties. Materials Letters, 2006, 60, 1796-1799.	2.6	7
74	Microwave dielectric properties of novel lithium containing pyrochlore type oxides: Li3Sm3â^'xBixTi7Nb2O25 (x=0, 1, 2 or 3). Materials Letters, 2007, 61, 4188-4191.	2.6	7
75	Novel red phosphors Gd2GaTaO7:Eu3+,Bi3+ for white LED applications. Journal of Materials Science: Materials in Electronics, 2015, 26, 5743-5747.	2.2	7
76	Influence of Structural Disorder on the Photoluminescence Properties of Eu³⁺ Doped Red Phosphors: Ca₂Y_{3â€x}Nb₃O₁₄: xEu³⁺. ChemistrySelect, 2016, 1, 3413-3422.	1.5	7
77	Strong Narrow Red Emission in a Perturbed Fergusonite System: Y3Mg2Nb3O14:Eu3+ for White LED Applications. Journal of Electronic Materials, 2020, 49, 2332-2342.	2.2	7
78	Ba3Ce3Ti5Nb5O30â€"a novel ceramic oxide semiconductor. Materials Letters, 2003, 57, 4127-4129.	2.6	6
79	Novel molybdenum based pyrochlore type red phosphors, NaGd1SnMoO7: xEu3+ under near UV and blue excitation. Journal of Luminescence, 2017, 190, 6-9.	3.1	6
80	Broad greenish-yellow luminescence in CaMoO4 by Si4+ acceptor doping as potential phosphors for white light emitting diode applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 16647-16653.	2.2	6
81	Color - Tunable Phosphors in Weberite Type System, La₃ SbO₇ :Bi³⁺ , Eu³⁺ for Near-UV LED Applications. ChemistrySelect, 2017, 2, 7602-7611.	1.5	5
82	New lanthanideâ€free selfâ€activated fullâ€color emission phosphor in Y³⁺ doped Sr₃Bi(VO₄)₃ system for white light emitting diode applications. Luminescence, 2021, 36, 819-825.	2.9	5
83	Pyrochlore-based oxides with small temperature coefficient of dielectric constant. Applied Physics Letters, 2008, 92, 252906.	3.3	4
84	Structure and dielectric properties of a new series of pyrochlores in the Caâ€"Smâ€"Tiâ€"Mâ€"O (MÂ=ÂNb and) Tj ETQq0 0 0 rgBT /Ove	2.2	4
85	Influence of phase transition from order to disorder and Philip's ionicity on the thermal expansion coefficient of pyrochlore type compositions with a multivalent environment. New Journal of Chemistry, 2017, 41, 245-255.	2.8	4
86	Influence of morphology on luminescence properties of xenotime-type phosphors NaYP2O7:Eu3+ synthesized via solid state and citrate-gel routes. Journal of Materials Science: Materials in Electronics, 2018, 29, 7458-7467.	2.2	4
87	Intense Blue Colors in Wolframiteâ€Type Co²⁺:MgWO₄ Oxides Through Distortion in Co²⁺ Octahedra.. ChemistrySelect, 2018, 3, 410-417.	1.5	4
88	White light emitting stannate pyrochlore based single phase phosphor CaLa1â^'xSnNbO7:xDy3+ for pc-WLED applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 16174-16183.	2.2	4
89	Intense Blue Chromophores in Cobalt Doped Phenaciteâ€Type Zinc Germanate System through Jahnâ€Teller Distortion of Co Tetrahedron. ChemistrySelect, 2021, 6, 11344-11351.	1.5	4
90	Effects of charge transfer band position and intensity on the photoluminescence properties of Ca1.9M2O7:0.1Eu3+ (M = Nb, Sb and Ta). Solid State Sciences, 2022, 123, 106783.	3.2	4

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91	Preparation and characterisation of Ba3RE3Ti5Ta5O30ceramics. Advances in Applied Ceramics, 2003, 102, 16-18.	0.4	3
92	Dependence on charge transfer band and emission properties by the crystal chemistry of A- and B-site cations in Eu3+-doped quaternary pyrochlore-type red phosphors Ca(RÉ)1â˜'x(M)NbO7 (REâ€‰=â€‰Y, Gd; Mâ€‰=â€‰Ti,	3.2	3 Tj ETQq0
93	New full color emitting phosphor through energy transfer in Bi3+ and Eu3+ co-doped La3TaO7 weberite system. Journal of Materials Science: Materials in Electronics, 2020, 31, 5141-5151.	2.2	3
94	Structural and dielectric properties of Ba3R3Ti5Nb5O30 (R = Pr or Ce) system. Journal of Materials Science Letters, 2003, 22, 217-219.	0.5	2
95	New pyrochlore type semiconducting ceramic oxides: Ca3Ce3â˜'xBixTi7Nb2O26.5(x = 0.5, 1.0, 2.0, or) Tj ETQq1 1 0.784314 rgBT /Ov 4085-4088.	3.7	2
96	Improved dielectric properties in pyrochlore type oxides: Ca3Sm3â˜'xBixTi7Nb2O26.5 (x = 1.0, 2.0 or 3.0) by Bi substitution. Journal of Materials Science: Materials in Electronics, 2005, 16, 663-666.	2.2	2
97	Influence of aliovalent cation substitutions on the optical properties of In2Cu2O5 system. Dyes and Pigments, 2016, 134, 506-515.	3.7	2
98	Enhanced pigmentary properties of rare earth germanates of the type La 2 CuGe 2 O 8 through CuO 6 octahedron distortion. Dyes and Pigments, 2017, 142, 472-480.	3.7	2
99	Role of electronegativity on the crystal field splitting of Eu3+ manifold in pyrochlore-type oxides, Ca3M3Nb2O14 (M = Ti and Sn). Journal of Solid State Chemistry, 2019, 278, 120895.	2.9	2
100	Contrasting anion disorder behavior in Sm2Zr2O7 by simultaneous aliovalent cation substitutions and its structural and electrical properties. Journal of Applied Physics, 2019, 126, .	2.5	2
101	Structural stabilization of Î´-phase Bi2O3 in the MgBi1.5RE0.5O4 system through rare earth substitution for improved ionic conductivity. Ionics, 2020, 26, 5113-5121.	2.4	2
102	Control of defect formation and ordering in Eu3+ doped RE2Ce2O7 (REâ€‰=â€‰La, Y, and Gd) red phosphor. Journal of Applied Physics, 2020, 127, 243102.	2.5	2
103	Defect fluorite type phase in anion deficient rare earth zirconates, RE3Zr0.5Nb0.5O6.75 (RE = Nd, Sm,) Tj ETQq1 1 0.784314 rgBT /Ov	2.9	2
104	Grain Growth of Microtubes During Sintering in Semiconducting Ba3Ce3-xBixTi5Nb5O30 (x=0.5, 1.0, 2.0,) Tj ETQq0 0 0 rgBT /Overlock	3.8	1
105	High IR Reflecting Yellow Colorants in Yttrium-doped MgBi_{2â˜'}_xO₄Solid Solutions. Chemistry Letters, 2016, 45, 928-930.	1.3	1
106	New self charge compensating perovskite type red phosphors prepared via ball milling process for pc-white light emitting diode applications. Optics and Laser Technology, 2020, 128, 106217.	4.6	1
107	Effect of addition of calcined grains on the microstructure and non-linearity features of ZnO varistors. Journal of Materials Science Letters, 1994, 13, 731-733.	0.5	0
108	Preparation and electrical properties of semiconducting Ba3â˜'xLaxCe3Ti5Nb5O30 (x=0.5, 1.0 and 1.5) compounds. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 121, 224-228.	3.5	0

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109	Structural and optical characterization of pulsed laserâ€ablated potassium lithium niobate thin films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2801-2808.	1.8	0
110	Effect of iron substitution in pyrochlore type semiconducting oxides: CaCe[sub 0.6]Mn[sub 0.4]Sn[sub 1â^'x]Fe[sub x]NbO[sub 7â^'Î] (x = 0, 0.2, 0.4 and 0.6) for high temperature NTC thermistor applications. , 2013, , .		0
111	New narrow orange-emitting phosphors in 1:2 B-site cation ordered Eu3+ doped triple perovskite Ba3CaNb2O9. Journal of Materials Science: Materials in Electronics, 2021, 32, 12671-12680.	2.2	0
112	Reply to comment on â€œDependence on charge transfer band and emission properties by the crystal chemistry of A- and B-site cations in Eu3+-doped quaternary pyrochlore-type red phosphors, Ca(RE)1â^'x(M)NbO7 (RE=Y, Gd; M=Ti, Sn)â€• Journal of Materials Science: Materials in Electronics, 2021, 32, 23724-23727.	2.2	0
113	Photoluminescence in pyrochlore structures. , 2022, , 375-396.		0