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List of Publications by Year
in descending order

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84 papers	1,394 citations	304368 22 h-index	414034 32 g-index
84 all docs	84 docs citations	84 times ranked	920 citing authors

#	Article	IF	Citations
1	Whitlockite solid solutions Ca9â^'x M x R(PO4)7 (x = 1, 1.5; M = Mg, Zn, Cd; R = Ln, Y) with antiferroelectric properties. Russian Journal of Inorganic Chemistry, 2007, 52, 308-314.	0.3	67
2	Crystal structures of double calcium and alkali metal phosphates Ca10 M(PO4)7(M = Li, Na, K). Crystallography Reports, 2000, 45, 13-20.	0.1	62
3	Effect of silane/nano-silica on the mechanical properties of basalt fiber reinforced epoxy composites. Composite Interfaces, 2017, 24, 13-34.	1.3	57
4	Ferroelectric and Ionic-Conductive Properties of Nonlinear-Optical Vanadate, Ca9Bi(VO4)7. Chemistry of Materials, 2003, 15, 3003-3010.	3.2	56
5	Ferroelectric phase transition in the whitlockite-type Ca9Fe(PO4)7; crystal structure of the paraelectric phase at 923ÂK. Solid State Sciences, 2004, 6, 185-195.	1.5	49
6	Polar and Centrosymmetric Phases in Solid Solutions Ca3-xSrx(PO4)2(0 â©½xâ©½ 16/7). Chemistry of Materials, 2002, 14, 3197-3205.	3.2	47
7	Ca8MgSm1â€“(PO4)7:xEu3+, promising red phosphors for WLED application. Journal of Alloys and Compounds, 2019, 776, 897-903.	2.8	45
8	Influence of alumina on the properties of continuous basalt fibers. Russian Journal of Inorganic Chemistry, 2009, 54, 191-196.	0.3	42
9	Antiferroelectric properties and site occupations of R 3+ cations in Ca 8 Mg R (PO 4) 7 luminescent host materials. Journal of Alloys and Compounds, 2017, 699, 928-937.	2.8	40
10	A novel red Ca8.5Pb0.5Eu(PO4)7 phosphor for light emitting diodes application. Journal of Alloys and Compounds, 2015, 647, 965-972.	2.8	38
11	Effect of ZrO2 on the alkali resistance and mechanical properties of basalt fibers. Inorganic Materials, 2012, 48, 751-756.	0.2	35
12	Positional and Orientational Disorder in a Solid Solution of Sr9+xNi1.5-x(PO4)7 (x = 0.3). Chemistry of Materials, 2002, 14, 4464-4472.	3.2	33
13	Antibacterial and cell-friendly copper-substituted tricalcium phosphate ceramics for biomedical implant applications. Materials Science and Engineering C, 2021, 129, 112410.	3.8	33
14	New Solid Electrolyte Na₉Al(MoO₄)₆: Structure and Na⁺ Ion Conductivity. Chemistry of Materials, 2017, 29, 8901-8913.	3.2	29
15	Crystal Structure and Luminescent Properties of R_{2â€“x}Eu_x(MoO₄)₃ (R = Gd, Sm) Red Phosphors. Chemistry of Materials, 2014, 26, 7124-7136.	3.2	28
16	Crystal structure of double vanadates Ca9 R(VO4)7. II. R = Tb, Dy, Ho, and Y. Crystallography Reports, 2000, 45, 389-394.	0.1	27
17	Effect of iron oxides on the fabrication and properties of continuous glass fibers. Inorganic Materials, 2008, 44, 1026-1030.	0.2	27
18	Luminescence, structure and antiferroelectric-type phase transition in Ca8ZnEu(PO4)7. Materials Research Bulletin, 2018, 104, 20-26.	2.7	25

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19	Ferroelectricâ€“Ionic Conductor Phase Transitions in Optical Nonlinear Ca9R(VO4)7 Vanadates. Doklady Physical Chemistry, 2002, 384, 144-148.	0.2	24
20	Luminescence of Eu³⁺as a probe for the determination of the local site symmetry in Î²-Ca₃(PO₄)₂-related structures. CrystEngComm, 2019, 21, 5235-5242.	1.3	24
21	Antiferroelectric phase transition inSr9In(PO4)7. Physical Review B, 2004, 70, .	1.1	23
22	Complex Structural Behavior of BiMn₇O₁₂ Quadruple Perovskite. Inorganic Chemistry, 2017, 56, 12272-12281.	1.9	23
23	SrFe2(PO4)2:Â Ab Initio Structure Determination with X-ray Powder Diffraction Data and Unusual Magnetic Properties. Chemistry of Materials, 2004, 16, 4311-4318.	3.2	20
24	The influence of second coordination-sphere interactions on the luminescent properties of Î²-Ca3(PO4)2-related compounds. Journal of Alloys and Compounds, 2020, 815, 152352.	2.8	20
25	Reduction and Re-oxidation Behavior of Calcium Iron Phosphate, Ca9Fe(PO4)7. Chemistry of Materials, 2003, 15, 625-631.	3.2	19
26	New alluaudite-related triple molybdates Na₂₅Cs₈R₅(MoO₄)₂₄(R = Sc, In): synthesis, crystal structures and properties. New Journal of Chemistry, 2017, 41, 5450-5457.	1.4	19
27	New Noncentrosymmetric Vanadates Sr9R(VO4)7(R = Tm, Yb, and Lu):Â Synthesis, Structure Analysis, and Characterization. Chemistry of Materials, 2005, 17, 122-129.	3.2	18
28	Effect of deferrization on continuous basalt fiber properties. Mendeleev Communications, 2015, 25, 386-388.	0.6	18
29	Role of the Eu³⁺ Distribution on the Properties of Î²-Ca₃(PO₄)₂ Phosphors: Structural, Luminescent, and ¹⁵¹Eu MÃ¶ssbauer Spectroscopy Study of Ca_{9.5â€“1.5x}MgEu_x(PO₄)₇. Inorganic Chemistry, 2021, 60, 3961-3971.	1.9	18
30	Crystal structures of double vanadates, Ca9 R(VO4)7 â‹… III. R = Nd, Sm, Gd, or Ce. Crystallography Reports, 2000, 45, 728-733.	0.1	17
31	Large second order optical nonlinearity in thermally poled amorphous niobium borophosphate films. Journal of Applied Physics, 2006, 100, 013108.	1.1	17
32	Optical non-linearity tuning in Ca8-PbMBi(VO4)7 whitlockite-type systems. Journal of Alloys and Compounds, 2016, 674, 323-330.	2.8	17
33	Luminescence Property Upgrading via the Structure and Cation Changing in Ag_xEu_{(2â€“x)/3}WO₄ and Ag_xGd_{(2â€“x)/3â€“0.3}Eu_{0.3}WO₄. Chemistry of Materials, 2017, 29, 8811-8823.	3.2	17
34	Ferroelectric crystal Ca₉Yb(VO₄)₇in the series of Ca₉R(VO₄)₇non-linear optical materials (R = REE, Bi, Y). Journal of Materials Chemistry C, 2017, 5, 2301-2310.	2.7	16
35	Enhanced nonlinear optical activity and Ca2+-conductivity in Ð¡Ð°10.5-Pb (VO4)7 ferroelectrics. Journal of Alloys and Compounds, 2018, 735, 1826-1837.	2.8	16
36	The crystal site engineering and turning of cross-relaxation in green-emitting Î²-Ca3(PO4)2-related phosphors. Journal of Luminescence, 2020, 223, 117196.	1.5	16

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37	Effects of Ion Exchange on the Mechanical Properties ofÂBasaltic Glass Fibers. International Journal of Applied Glass Science, 2016, 7, 118-127.	1.0	14
38	Tunable luminescence and energy transfer in Eu3+ doped Ca8MTb(PO4)7 (M = Mg, Zn, Ca) phosphors. Materials Research Bulletin, 2020, 130, 110925.	2.7	13
39	Ca10.5 â˜ x Pb x (PO4)7 and Ca9.5 â˜ x Pb x M(PO4)7 ferroelectrics with the whitlockite structure. Inorganic Materials, 2013, 49, 807-812.	0.2	12
40	Influence of Synthesis Conditions on Gadolinium-Substituted Tricalcium Phosphate Ceramics and Its Physicochemical, Biological, and Antibacterial Properties. Nanomaterials, 2022, 12, 852.	1.9	12
41	Production of Fibres from Lunar Soil: Feasibility, Applicability and Future Perspectives. Advanced Fiber Materials, 2022, 4, 923-937.	7.9	12
42	Antimicrobial properties of co-doped tricalcium phosphates Ca3-2(MËŠMËŠËŠ) (PO4)2 (M = Zn2+, Cu2+, Mn2+) Tj ETQq0 0 0 rgBT /Ove	2.3	12
43	Structural Changes and Phase Transitions in Whitlockite-Like Phosphates. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1899-1902.	0.8	11
44	Comment on â€œTuning of Photoluminescence and Local Structures of Substituted Cations in xSr₂Ca(PO₄)₂â€“(1 â€“) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (x)Ca<sub> Materials, 2017, 29, 3800-3802.	3.2	11
45	Crystal structure, dielectric, and optical properties of Î²-calcium orthophosphates heavily doped with ytterbium. Journal of Alloys and Compounds, 2019, 787, 1301-1309.	2.8	11
46	Correlation of Phase Composition, Structure, and Mechanical Properties of Natural Basalt Continuous Fibers. Natural Resources Research, 2021, 30, 1105-1119.	2.2	11
47	Correlation of the chemical composition, structure and mechanical properties of basalt continuous fibers. AIMS Materials Science, 2019, 6, 806-832.	0.7	11
48	Structure and properties of Ca9 â˜ x Pb x R(PO4)7 (R = Sc, Cr, Fe, Ga, In) whitlockite-like solid solutions. Inorganic Materials, 2013, 49, 507-512.	0.2	10
49	Luminescent properties of Er3+ in centrosymmetric and acentric phosphates Ca8MEr(PO4)7 (M = Ca,) Tj ETQq1 1 0.784314 rgBT /Ov	2.7	10
50	Strontium phosphates with Î²-Ca3(PO4)2-type structures: Sr9NiLi(PO4)7, Sr9.04Ni1.02Na0.88(PO4)7, and Sr9.08Ni1.04K0.76(PO4)7. Journal of Materials Chemistry, 2002, 12, 3803-3808.	6.7	9
51	Pure, lithium- or magnesium-doped ferroelectric single crystals of Ca₉Y(VO₄)₇: cation arrangements and phase transitions. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 453-462.	0.4	9
52	Isovalent and aliovalent cation substitutions in the anion sublattice of whitlockite-type ferroelectrics Ca9RE(VO4)7 with RE =Y and Yb. Journal of Solid State Chemistry, 2019, 279, 120966.	1.4	9
53	Ferroelectricity, ionic conductivity and structural paths for large cation migration in Ca_{10.5â˜x}Pb_x(VO₄)₇single crystals,x= 1.9, 3.5, 4.9. CrystEngComm, 2019, 21, 1309-1319.	1.3	9
54	Symmetry Inhomogeneity of Ca_{9â€“x}Zn_xEu(PO₄)₇ Phosphor Determined by Second-Harmonic Generation and Dielectric and Photoluminescence Spectroscopy. Crystal Growth and Design, 2020, 20, 6461-6468.	1.4	9

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55	A novel high color purity blue-emitting Tm3+-doped Î²-Ca3(PO4)2-type phosphor for WLED application. Optik, 2021, 227, 166027.	1.4	9
56	Sr8MSm1-Eu (PO4)7 phosphors derived by different synthesis routes: Solid state, sol-gel and hydrothermal, the comparison of properties. Journal of Alloys and Compounds, 2021, 887, 161340.	2.8	9
57	Magnetic and vibrational properties and crystal structure of Sr9.2Co1.3(PO4)7 with disordered arrangements of some strontium, cobalt, and phosphate ions. Journal of Solid State Chemistry, 2006, 179, 161-168.	1.4	8
58	KTb(MoO₄)₂ Green Phosphor with K⁺-Ion Conductivity: Derived from Different Synthesis Routes. Inorganic Chemistry, 2021, 60, 9471-9483.	1.9	8
59	Barium-induced effects on structure and properties of Î²-Ca3(PO4)2-type Ca9Bi(VO4)7. Journal of Alloys and Compounds, 2019, 793, 56-64.	2.8	7
60	Influence of annealing conditions on the structure and luminescence properties of KGd_{1âˆ’x}Eu_x(MoO₄)₂ (0 â‰¤ x â‰¤ 1). CrystEngComm, 2019, 21, 6460-6471.	1.3	7
61	K₅Eu_{1â€“x}Tb_x(MoO₄)₄ Phosphors for Solid-State Lighting Applications: Aperiodic Structures and the Tb³⁺ â†’ Eu³⁺ Energy Transfer. Inorganic Chemistry, 2022, 61, 7910-7921.	1.9	7
62	Influence of magnesium on dielectric properties of Ca 9â€“x Mg x Bi(VO 4) 7 ceramics. Journal of the American Ceramic Society, 2018, 101, 4011-4022.	1.9	6
63	Â«EllestaditeÂ»-type anionic [PO4]3â€“ â†’ [SO4]2â€“ substitutions in Î²-Ca3(PO4)2 type compounds: A new route to design the inorganic phosphors. Ceramics International, 2022, 48, 24012-24020.	2.3	6
64	Structural changes in Sr9In(PO4)7 during antiferroelectric phase transition. Inorganic Materials, 2016, 52, 176-185.	0.2	5
65	Crystallization and Thermal Stability of the P-Doped Basaltic Glass Fibers. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.8	5
66	(Ca,Mg)9Gd1 â€“xEux(PO4)7 Red Phosphors Activated with Gd3+ and Eu3+. Inorganic Materials, 2019, 55, 810-814.	0.2	4
67	A Comprehensive Study of Ca9Tb(PO4)7 and Ca9Ho(PO4)7 Doped Î²-Tricalcium Phosphates: Ab initio Crystal Structure Solution, Rietveld Analysis, and Dielectric Properties. Crystal Growth and Design, 2021, 21, 2263-2276.	1.4	4
68	Na9In(MoO4)6: synthesis, crystal structure, and Na+ ion diffusion. Ionics, 2021, 27, 4281-4293.	1.2	4
69	The spectral and structural properties of K5Nd(MoO4)4. Journal of Applied Spectroscopy, 1978, 29, 1342-1345.	0.3	3
70	Effect of Nozzle Diameter on Basalt Continuous Fiber Properties. Fibers, 2019, 7, 65.	1.8	3
71	Sr₉In(VO₄)₇as a model ferroelectric in the structural family of Î²-Ca₃(PO₄)₂-type phosphates and vanadates. RSC Advances, 2020, 10, 10867-10872.	1.7	3
72	GREEN LUMINOPHORS IN THE FAMILY OF PHOSPHATES WITH WHITLOCKITE STRUCTURE. Journal of Structural Chemistry, 2021, 62, 1621-1630.	0.3	3

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73	The role of anionic heterovalent [PO₄]^{3â^'} â†' [GeO₄]^{4â^'} substitution on the luminescence properties of inorganic phosphors with the Î²-Ca₃(PO₄)₂-type structure: new data based on accurate crystal structure refinement. Dalton Transactions, 2022, 51, 655-663.	1.6	3
74	Crystallization and dielectric and optical properties of borate glasses (1 â^' x)Na2B4O7 + xNb2O5. Russian Journal of Inorganic Chemistry, 2007, 52, 301-307.	0.3	2
75	Crystal structure refinement of new vanadates Ca8â^'xPbxCdBi(VO4)7. Powder Diffraction, 2017, 32, S106-S109.	0.4	2
76	Influence of lithium and magnesium on the real structure and dielectric properties of Ca₉Y(VO₄)₇ single crystals. CrystEngComm, 2018, 20, 6310-6318.	1.3	2
77	Centrosymmetric and acentric whitlockite-type phosphates and vanadates among Ca3(VO4)2-Ca3(PO4)2-Y2O3 compositions. IOP Conference Series: Materials Science and Engineering, 2020, 921, 012005.	0.3	2
78	Crystal structure of new phosphates Ca9â€“xPbxEu(PO4)7 from Rietveld refinement. Powder Diffraction, 2015, 30, S101-S103.	0.4	1
79	Ferroelectric properties and structural refinement of whitlockite-type phosphate Ca8.5Pb0.5Ho(PO4)7. Powder Diffraction, 2017, 32, S168-S171.	0.4	1
80	Ca6.5Pb1.5ZnBi(VO4)7, a novel whitlockite-type vanadate: crystal structure refinement and properties characterization. Powder Diffraction, 2017, 32, 175-178.	0.4	1
81	Synthesis, crystal structures and properties of the new compounds K_{7â€“x}Ag_{1+x}(XO₄)₄ (X = Mo, W). Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 1071-1077.	0.2	1
82	Comment on â€œTuning luminescence of Ca9La(PO4)7:Eu2+via artificially inducing potential luminescence centersâ€• by P. Li, Z. Wang, et al., J. Mater. Chem. C, 2019, 7, 14601. Journal of Materials Chemistry C, 0, , .	2.7	1
83	Ferroelectric Phase Transitions in Sr9Tm(VO4)7 upon Substitution of Calcium and Lead for Strontium. Physics of the Solid State, 2020, 62, 856-859.	0.2	0
84	Whitlockite-Type Structure as a Matrix for Optical Materials: Synthesis and Characterization of Novel TM-SM Co-Doped Phosphate Ca9Gd(PO4)7, a Single-Phase White Light Phosphors. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0	0