Rukang K Li

List of Publications by Year
in descending order

67	4,225	361413 20	128289 60
papers	citations	h-index	g-index

76	76	76	1799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, Structure Determination, and Characterizations of a Polar Salt-Inclusion Scandium Germanate, Rb₁₀Li₃Sc₄Ge₁₂O₃₆F. Inorganic Chemistry, 2022, 61, 1973-1981.	4.0	3
2	Introducing a New d⁰ Sc³⁺ Asymmetric Ion for Functional Materials: Large Birefringence Enhancement by ScO₆ in Ba₃Sc₂(BO₃)₄. ChemPhysChem, 2022, 23, e202200002.	2.1	7
3	Proton-Rich POM-Type K₁₂Mo₈O₂₀(HPO₄)₈(PO₄)Cl with Ion-Exchange Capabilities. Inorganic Chemistry, 2022, 61, 5262-5269.	4.0	1
4	Theoretical studies on nonlinear optical properties of BaGa4Q7 (Q = S, Se) Crystals. Optics Letters, 2022, 47, 2069-2072.	3.3	2
5	Theoretical study of borate nonlinear optical crystals in low symmetry. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1666.	2.1	3
6	Growth and optical properties of nonlinear optical crystal Rb4Li2TiOGe4O12. Journal of Crystal Growth, 2021, 555, 125962.	1.5	6
7	New insights into the band gaps and nonlinear optical properties of borate crystals. Computational Materials Science, 2021, 188, 110185.	3.0	2
8	Lone-pair stabilized channels and blocked transport in apatite-related structures. Dalton Transactions, 2021, 50, 13232-13235.	3.3	0
9	BiMnPO5 with ferromagnetic Mn2+â€“(Î¼-O)2â€“Mn2+ units: a model for magnetic exchange in edge-linked Mn2+O6 octahedra. Chemical Communications, 2021, 57, 7027-7030.	4.1	1
10	Cubic nonlinearities of borate and related crystals with wide band gaps. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1990.	2.1	4
11	Excitonic Nature of the Bandâ€Edge Absorptions in Borate Nonlinear Optical Materials. Advanced Photonics Research, 2021, 2, 2100041.	3.6	6
12	A Titanium and Tantalum Phosphate LiNaTiTa₂P₂O₁₃ with An Open Framework hosting Li and Na Ions. Chemistry - A European Journal, 2021, 27, 15479-15483.	3.3	2
13	Synthesis, structure and property studies of a new series of rare earth (Ce, Tb) bismuth silicates. Journal of Solid State Chemistry, 2021, 304, 122568.	2.9	1
14	A nonâ€“centrosymmetric compound K7Li2Y2B15O30 by introducing more alkali metals into A7MRe2B15O30 family. Journal of Solid State Chemistry, 2021, 304, 122630.	2.9	5
15	KNiB₄O₆F₃: A Layered Fluorooxoborate with Chargeâ€Oriented Ordering. Chemistry - A European Journal, 2020, 26, 3709-3712.	3.3	12
16	Structural, Magnetic, Magnetocaloric, and Magnetostrictive Properties of Pb_{1-x}Sr_xMnBO₄ (x = 0, 0.5, and 1.0). Chemistry of Materials, 2020, 32, 10184-10199.	6.7	16
17	Molten Salt Synthesis of an Open-Frame Aluminum Phosphate Ba₃Al₂P₄O₁₆ with a Rare-Pyramidal AlO₅ Group. Inorganic Chemistry, 2020, 59, 12978-12982.	4.0	10
18	Tunable deep ultraviolet laser based near ambient pressure photoemission electron microscope for surface imaging in the millibar regime. Review of Scientific Instruments, 2020, 91, 113704.	1.3	5

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19	Rb₄Li₂TiOGe₄O₁₂: A Titanyl Nonlinear Optical Material with the Widest Transparency Range. Angewandte Chemie - International Edition, 2019, 58, 18257-18260.	13.8	49
20	Rb₄Li₂TiOGe₄O₁₂: A Titanyl Nonlinear Optical Material with the Widest Transparency Range. Angewandte Chemie, 2019, 131, 18425-18428.	2.0	21
21	Li2Ca5Tb(BO3)5: An orthoborate with large spherical hollow cages. Optical Materials, 2019, 96, 109358.	3.6	6
22	Li₃Ba₄Sc₃(BO₃)₄(B₂O₅)₂: featuring the coexistence of isolated BO₃and B₂O₅units. New Journal of Chemistry, 2019, 43, 11469-11472.	2.8	16
23	Li₂Na₂TiP₂O₉: an ordered Na₄TiP₂O₉-type crystal with ion-exchange properties. CrystEngComm, 2019, 21, 6514-6517.	2.6	5
24	Enhancing the Magnetocaloric Effect of a Paramagnet to above Liquid Hydrogen Temperature. Energy Technology, 2019, 7, 1801070.	3.8	7
25	K₃Li₃Gd₇(BO₃)₉: A New Gadoliniumâ€Rich Orthoborate for Cryogenic Magnetic Cooling. Chemistry - A European Journal, 2018, 24, 3147-3150.	3.3	30
26	Gaudefroyite: a mineral with excellent magnetocaloric effect suitable for liquefying hydrogen. Journal of Materials Chemistry A, 2018, 6, 5260-5264.	10.3	16
27	Noncentrosymmetric Cubic Cyanurate K₆Cd₃(C₃N₃O₃)₄ Containing Isolated Planar Ï€-Conjugated (C₃N₃O₃)^{3â€“} Groups. Inorganic Chemistry, 2018, 57, 32-36.	4.0	48
28	Magnetic ordering of the cryogenic magnetic cooling mineral gaudefroyite. Journal of Materials Chemistry A, 2018, 6, 21149-21155.	10.3	8
29	BaLiZn3 B3 O9 : a Mixed-Cation KBe2 BO3 F2 -Type Zinc-Borate with a (LiZn3 B3 O9)âˆž Network. European Journal of Inorganic Chemistry, 2018, 2018, 3686-3689.	2.0	8
30	Highâ€Performance Magnetic Refrigerant Featuring Oneâ€Dimensional Gdâ€O Chains and Oâ€Gd₃ Triangles. Chemistry - an Asian Journal, 2018, 13, 2834-2837.	3.3	11
31	Top-Seeded Solution Growth and Optical Properties of Deep-UV Birefringent Crystal Ba₂Ca(B₃O₆)₂. Crystal Growth and Design, 2017, 17, 558-562.	3.0	122
32	Ba₅Zn₄(BO₃)₆: A Nonlinear-Optical Material with Reinforced Interlayer Connections and Large Second-Harmonic-Generation Response. Inorganic Chemistry, 2017, 56, 11458-11461.	4.0	28
33	Homologous Series of 2D Chalcogenides Csâ€“Agâ€“Biâ€“Q (Q = S, Se) with Ion-Exchange Properties. Journal of the American Chemical Society, 2017, 139, 12601-12609.	13.7	22
34	On the Anionic Group Approximation to the Borate Nonlinear Optical Materials. Crystals, 2017, 7, 50.	2.2	31
35	Mixed Alkali Neodymium Orthoborates: K₉Li₃Nd₃(BO₃)₇ and A₂LiNd(BO₃)₂ (A = Rb, Cs). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 424-430.	1.2	6
36	Beryllium-Free KBBF Family of Nonlinear-Optical Crystals: AZn₂BO₃X₂ (A = Na, K, Rb; X = Cl, Br). Inorganic Chemistry, 2016, 55, 12496-12499.	4.0	55

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37	â€œAll-Three-in-Oneâ€• A New Bismuthâ€“Telluriumâ€“Borate Bi₃TeBO₉ Exhibiting Strong Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 14190-14193.	13.7	185
38	Thermo-physical properties of nonlinear optical crystal K₃B₆O₁₀Br. Journal of Applied Crystallography, 2016, 49, 539-543.	4.5	15
39	15 mW of CW emission at 193 nm using the crystal KBBF. , 2014, , .		0
40	CW emission at 193 nm using an all solid-state laser source. , 2014, , .		0
41	Structure and optical properties of a new borate K2Ba4Ga4Li2B6O21. Optical Materials, 2014, 36, 2026-2029.	3.6	2
42	Two new bismuth thiourea bromides: crystal structure, growth, and characterization. Dalton Transactions, 2014, 43, 2577-2580.	3.3	15
43	A bright continuous-wave laser source at 193â€‰nm. Applied Physics Letters, 2013, 103, .	3.3	31
44	A narrow-band continuous-wave laser source at 191 nm. , 2013, , .		1
45	13-mW tunable and narrow-band continuous-wave light source at 191 nm. Optics Express, 2012, 20, 18659.	3.4	21
46	Crystal growth and spectral properties of Nd:Ca5(BO3)3F. Crystal Research and Technology, 2012, 47, 1243-1248.	1.3	5
47	Chemical engineering of a birefringent crystal transparent in the deep UV range. CrystEngComm, 2012, 14, 5421.	2.6	112
48	Flux growth of a potential nonlinear optical crystal BaMgBO3F. Journal of Crystal Growth, 2011, 318, 971-973.	1.5	15
49	dâ€“d Transitions of Fe3+ ions in Fe-doped K2Al2B2O7 crystal. Optical Materials, 2010, 32, 1313-1316.	3.6	27
50	Cation Coordination Control of Anionic Group Alignment to Maximize SHG Effects in the BaMBO₃F (M = Zn, Mg) Series. Inorganic Chemistry, 2010, 49, 1561-1565.	4.0	110
51	Synthesis and Characterization of the Electron-Doped Single-Layer Manganite La1.2Sr0.8MnO4âˆ'Î´ and Its Oxidized Phase La1.2Sr0.8MnO4+Î´. Journal of Solid State Chemistry, 2000, 153, 34-40.	2.9	39
52	Double-layered ruthenateSr3Ru2O7F2formed by fluorine insertion intoSr3Ru2O7. Physical Review B, 2000, 62, 3811-3815.	3.2	51
53	Materials Research in China: Successes and Problems. Advanced Materials, 1999, 11, 1065-1066.	21.0	1
54	Pb2BaCuFeO5X (X = Cl, Br):â€‰ New Intergrowth Compounds Composed of CsCl Type and Bipyramidal Defective Perovskite Blocks. Inorganic Chemistry, 1997, 36, 4895-4896.	4.0	11

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55	Synthesis and structure of layered cuprates containing Pb2Cl as separating layer, Pb2Ba2Cu2MO8Cl (M) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	10
56	A new ferromagnetic oxide containing two dimensional bipyramidal layers. Materials Research Bulletin, 1994, 29, 1281-1286.	5.2	4
57	(Batio3) m (Gd,Ce)3 Cu2O7: a new homologous series of layered cuprates containing various layers of perovskite units. Journal of Materials Chemistry, 1994, 4, 773.	6.7	8
58	The superconductivity of La1.8 5Sr0.1 5Cu1â^'xMxO4â^'y (0<x<0.03) (M=Mg,Mn). Physica B: Condensed Matter, 1991, 169, 709-710.	2.7	0
59	Formation of a new series of 1222 layered cuprates MSr2(LnR)2Cu2Oy. Journal of Solid State Chemistry, 1991, 94, 206-209.	2.9	50
60	The preparation and structure of a new layered cuprate: TaSr2(NdCe)2Cu2Oy, the Ta analog of the Tl-1222 phase. Physica C: Superconductivity and Its Applications, 1991, 176, 19-23.	1.2	72
61	The superconductivity and metal-insulator transition in the Mg doped LaSrCuO system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 144, 35-38.	2.1	6
62	The development of new NLO crystals in the borate series. Journal of Crystal Growth, 1990, 99, 790-798.	1.5	224
63	New nonlinear-optical crystal: LiB_3O_5. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 616.	2.1	1,753
64	The interpretation of UV absorption of borate glasses and crystals. Journal of Non-Crystalline Solids, 1989, 111, 199-204.	3.1	56
65	The anionic group theory of the non-linear optical effect and its applications in the development of new high-quality NLO crystals in the borate series. International Reviews in Physical Chemistry, 1989, 8, 65-91.	2.3	495
66	On the calculation of refractive indices of borate crystals based on group approximation. Zeitschrift Fur Kristallographie - Crystalline Materials, 0, , 130729000230000.	0.8	12
67	Dielectric, Piezoelectric, and Elastic Properties of a Polar Crystal Rb4Li2TiOGe4O12. Crystal Growth and Design, 0, , .	3.0	2