

# Rukang K Li

## List of Publications by Year in descending order

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67  
papers

4,225  
citations

361413

20  
h-index

128289

60  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1799  
citing authors

#	ARTICLE	IF	CITATIONS
1	New nonlinear-optical crystal: LiB <sub>3</sub> O <sub>5</sub> . Journal of the Optical Society of America B: Optical Physics, 1989, 6, 616.	2.1	1,753
2	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
3	The development of new NLO crystals in the borate series. Journal of Crystal Growth, 1990, 99, 790-798.	1.5	224
4	“All-Three-in-One” A New Bismuth-Tellurium Borate Bi <sub>3</sub> TeBO <sub>9</sub> Exhibiting Strong Second Harmonic Generation Response. Journal of the American Chemical Society, 2016, 138, 14190-14193.	13.7	185
5	Top-Seeded Solution Growth and Optical Properties of Deep-UV Birefringent Crystal Ba <sub>2</sub> Ca(B <sub>3</sub> O <sub>6</sub> ) <sub>2</sub> . Crystal Growth and Design, 2017, 17, 558-562.	3.0	122
6	Chemical engineering of a birefringent crystal transparent in the deep UV range. CrystEngComm, 2012, 14, 5421.	2.6	112
7	Cation Coordination Control of Anionic Group Alignment to Maximize SHG Effects in the BaMBO <sub>3</sub> F (M = Zn, Mg) Series. Inorganic Chemistry, 2010, 49, 1561-1565.	4.0	110
8	The preparation and structure of a new layered cuprate: TaSr <sub>2</sub> (NdCe) <sub>2</sub> Cu <sub>2</sub> O <sub>y</sub> , the Ta analog of the Tl-1222 phase. Physica C: Superconductivity and Its Applications, 1991, 176, 19-23.	1.2	72
9	The interpretation of UV absorption of borate glasses and crystals. Journal of Non-Crystalline Solids, 1989, 111, 199-204.	3.1	56
10	Beryllium-Free KBBF Family of Nonlinear-Optical Crystals: AZn <sub>2</sub> BO <sub>3</sub> X <sub>2</sub> (A = Na, K, Rb; X = Cl, Br). Inorganic Chemistry, 2016, 55, 12496-12499.	4.0	55
11	Double-layered ruthenate Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> F <sub>2</sub> formed by fluorine insertion into Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . Physical Review B, 2000, 62, 3811-3815.	3.2	51
12	Formation of a new series of 1222 layered cuprates MSr <sub>2</sub> (LnR) <sub>2</sub> Cu <sub>2</sub> O <sub>y</sub> . Journal of Solid State Chemistry, 1991, 94, 206-209.	2.9	50
13	Rb <sub>4</sub> Li <sub>2</sub> TiOGe <sub>4</sub> O <sub>12</sub> : A Titanyl Nonlinear Optical Material with the Widest Transparency Range. Angewandte Chemie - International Edition, 2019, 58, 18257-18260.	13.8	49
14	Noncentrosymmetric Cubic Cyanurate K <sub>6</sub> Cd <sub>3</sub> (C <sub>3</sub> N <sub>3</sub> O <sub>3</sub> ) <sub>4</sub> Containing Isolated Planar π-Conjugated (C <sub>3</sub> N <sub>3</sub> O <sub>3</sub> ) <sup>3-</sup> Groups. Inorganic Chemistry, 2018, 57, 32-36.	4.0	48
15	Synthesis and Characterization of the Electron-Doped Single-Layer Manganite La <sub>1.2</sub> Sr <sub>0.8</sub> MnO <sub>4</sub> and Its Oxidized Phase La <sub>1.2</sub> Sr <sub>0.8</sub> MnO <sub>4</sub> +x. Journal of Solid State Chemistry, 2000, 153, 34-40.	2.9	39
16	A bright continuous-wave laser source at 193 nm. Applied Physics Letters, 2013, 103, .	3.3	31
17	On the Anionic Group Approximation to the Borate Nonlinear Optical Materials. Crystals, 2017, 7, 50.	2.2	31
18	K <sub>3</sub> Li <sub>3</sub> Gd <sub>7</sub> (BO <sub>3</sub> ) <sub>9</sub> : A New Gadolinium-Rich Orthoborate for Cryogenic Magnetic Cooling. Chemistry - A European Journal, 2018, 24, 3147-3150.	3.3	30

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19	Ba <sub>5</sub> Zn <sub>4</sub> (BO <sub>3</sub> ) <sub>6</sub> : A Nonlinear-Optical Material with Reinforced Interlayer Connections and Large Second-Harmonic-Generation Response. Inorganic Chemistry, 2017, 56, 11458-11461.	4.0	28
20	d <sup>d</sup> Transitions of Fe <sup>3+</sup> ions in Fe-doped K <sub>2</sub> Al <sub>2</sub> B <sub>2</sub> O <sub>7</sub> crystal. Optical Materials, 2010, 32, 1313-1316.	3.6	27
21	Homologous Series of 2D Chalcogenides CsAgBiQ (Q = S, Se) with Ion-Exchange Properties. Journal of the American Chemical Society, 2017, 139, 12601-12609.	13.7	22
22	13-mW tunable and narrow-band continuous-wave light source at 191 nm. Optics Express, 2012, 20, 18659.	3.4	21
23	Rb <sub>4</sub> Li <sub>2</sub> TiOGe <sub>4</sub> O <sub>12</sub> : A Titanyl Nonlinear Optical Material with the Widest Transparency Range. Angewandte Chemie, 2019, 131, 18425-18428.	2.0	21
24	Gaufroyite: a mineral with excellent magnetocaloric effect suitable for liquefying hydrogen. Journal of Materials Chemistry A, 2018, 6, 5260-5264.	10.3	16
25	Li <sub>3</sub> Ba <sub>4</sub> Sc <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> (B <sub>2</sub> O <sub>5</sub> ) <sub>2</sub> : featuring the coexistence of isolated BO <sub>3</sub> and B <sub>2</sub> O <sub>5</sub> units. New Journal of Chemistry, 2019, 43, 11469-11472.	2.8	16
26	Structural, Magnetic, Magnetocaloric, and Magnetostrictive Properties of Pb <sub>1-x</sub> Sr <sub>x</sub> MnBO <sub>4</sub> (x = 0, 0.5, and 1.0). Chemistry of Materials, 2020, 32, 10184-10199.	6.7	16
27	Flux growth of a potential nonlinear optical crystal BaMgBO <sub>3</sub> F. Journal of Crystal Growth, 2011, 318, 971-973.	1.5	15
28	Two new bismuth thiourea bromides: crystal structure, growth, and characterization. Dalton Transactions, 2014, 43, 2577-2580.	3.3	15
29	Thermo-physical properties of nonlinear optical crystal K <sub>3</sub> B <sub>6</sub> O <sub>10</sub> Br. Journal of Applied Crystallography, 2016, 49, 539-543.	4.5	15
30	On the calculation of refractive indices of borate crystals based on group approximation. Zeitschrift Fur Kristallographie - Crystalline Materials, 0, , 130729000230000.	0.8	12
31	KNiB <sub>4</sub> O <sub>6</sub> F <sub>3</sub> : A Layered Fluorooxoborate with Charge-Oriented Ordering. Chemistry - A European Journal, 2020, 26, 3709-3712.	3.3	12
32	Pb <sub>2</sub> BaCuFeO <sub>5</sub> X (X = Cl, Br): New Intergrowth Compounds Composed of CsCl Type and Bipyramidal Defective Perovskite Blocks. Inorganic Chemistry, 1997, 36, 4895-4896.	4.0	11
33	High-Performance Magnetic Refrigerant Featuring One-Dimensional Gd Chains and Gd <sub>3</sub> Triangles. Chemistry - an Asian Journal, 2018, 13, 2834-2837.	3.3	11
34	Synthesis and structure of layered cuprates containing Pb <sub>2</sub> Cl as separating layer, Pb <sub>2</sub> Ba <sub>2</sub> Cu <sub>2</sub> MO <sub>8</sub> Cl (M) Tj ETQq0 0.0 rgBT /Overlock 10	1.2	10
35	Molten Salt Synthesis of an Open-Frame Aluminum Phosphate Ba <sub>3</sub> Al <sub>2</sub> P <sub>4</sub> O <sub>16</sub> with a Rare-Pyramidal AlO <sub>5</sub> Group. Inorganic Chemistry, 2020, 59, 12978-12982.	4.0	10
36	(Batio <sub>3</sub> ) <sub>m</sub> (Gd,Ce) <sub>3</sub> Cu <sub>2</sub> O <sub>7</sub> : a new homologous series of layered cuprates containing various layers of perovskite units. Journal of Materials Chemistry, 1994, 4, 773.	6.7	8

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37	Magnetic ordering of the cryogenic magnetic cooling mineral gaufreyite. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21149-21155.	10.3	8
38	BaLiZn <sub>3</sub> B <sub>3</sub> O <sub>9</sub> : a Mixed-Cation KBe <sub>2</sub> BO <sub>3</sub> F <sub>2</sub> -Type Zinc-Borate with a (LiZn <sub>3</sub> B <sub>3</sub> O <sub>9</sub> ) <sup>2+</sup> Network. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3686-3689.	2.0	8
39	Enhancing the Magnetocaloric Effect of a Paramagnet to above Liquid Hydrogen Temperature. <i>Energy Technology</i> , 2019, 7, 1801070.	3.8	7
40	Introducing a New d <sup>0</sup> Sc <sup>3+</sup> Asymmetric Ion for Functional Materials: Large Birefringence Enhancement by ScO <sub>6</sub> in Ba <sub>3</sub> Sc <sub>2</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>ChemPhysChem</i> , 2022, 23, e202200002.	2.1	7
41	The superconductivity and metal-insulator transition in the Mg doped LaSrCuO system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 144, 35-38.	2.1	6
42	Mixed Alkali Neodymium Orthoborates: K <sub>9</sub> Li <sub>3</sub> Nd <sub>3</sub> (BO <sub>3</sub> ) <sub>7</sub> and <i>A</i> <sub>2</sub> LiNd(BO <sub>3</sub> ) <sub>2</sub> ( <i>A</i> = Rb, Cs). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 424-430.	1.2	6
43	Li <sub>2</sub> Ca <sub>5</sub> Tb(BO <sub>3</sub> ) <sub>5</sub> : An orthoborate with large spherical hollow cages. <i>Optical Materials</i> , 2019, 96, 109358.	3.6	6
44	Growth and optical properties of nonlinear optical crystal Rb <sub>4</sub> Li <sub>2</sub> TiOGe <sub>4</sub> O <sub>12</sub> . <i>Journal of Crystal Growth</i> , 2021, 555, 125962.	1.5	6
45	Excitonic Nature of the Band Edge Absorptions in Borate Nonlinear Optical Materials. <i>Advanced Photonics Research</i> , 2021, 2, 2100041.	3.6	6
46	Crystal growth and spectral properties of Nd:Ca <sub>5</sub> (BO <sub>3</sub> ) <sub>3</sub> F. <i>Crystal Research and Technology</i> , 2012, 47, 1243-1248.	1.3	5
47	Li <sub>2</sub> Na <sub>2</sub> TiP <sub>2</sub> O <sub>9</sub> : an ordered Na <sub>4</sub> TiP <sub>2</sub> O <sub>9</sub> -type crystal with ion-exchange properties. <i>CrystEngComm</i> , 2019, 21, 6514-6517.	2.6	5
48	Tunable deep ultraviolet laser based near ambient pressure photoemission electron microscope for surface imaging in the millibar regime. <i>Review of Scientific Instruments</i> , 2020, 91, 113704.	1.3	5
49	A non-centrosymmetric compound K <sub>7</sub> Li <sub>2</sub> Y <sub>2</sub> B <sub>15</sub> O <sub>30</sub> by introducing more alkali metals into A <sub>7</sub> MRe <sub>2</sub> B <sub>15</sub> O <sub>30</sub> family. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122630.	2.9	5
50	A new ferromagnetic oxide containing two dimensional bipyramidal layers. <i>Materials Research Bulletin</i> , 1994, 29, 1281-1286.	5.2	4
51	Cubic nonlinearities of borate and related crystals with wide band gaps. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1990.	2.1	4
52	Synthesis, Structure Determination, and Characterizations of a Polar Salt-Inclusion Scandium Germanate, Rb <sub>10</sub> Li <sub>3</sub> Sc <sub>4</sub> Ge <sub>12</sub> O <sub>36</sub> F. <i>Inorganic Chemistry</i> , 2022, 61, 1973-1981.	4.0	3
53	Theoretical study of borate nonlinear optical crystals in low symmetry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1666.	2.1	3
54	Structure and optical properties of a new borate K <sub>2</sub> Ba <sub>4</sub> Ga <sub>4</sub> Li <sub>2</sub> B <sub>6</sub> O <sub>21</sub> . <i>Optical Materials</i> , 2014, 36, 2026-2029.	3.6	2

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55	New insights into the band gaps and nonlinear optical properties of borate crystals. Computational Materials Science, 2021, 188, 110185.	3.0	2
56	A Titanium and Tantalum Phosphate $\text{LiNaTiTa}_2\text{P}_2\text{O}_{13}$ with An Open Framework hosting Li and Na Ions. Chemistry - A European Journal, 2021, 27, 15479-15483.	3.3	2
57	Dielectric, Piezoelectric, and Elastic Properties of a Polar Crystal $\text{Rb}_4\text{Li}_2\text{TiOGe}_4\text{O}_{12}$ . Crystal Growth and Design, 0, , .	3.0	2
58	Theoretical studies on nonlinear optical properties of $\text{BaGa}_4\text{Q}_7$ (Q = S, Se) Crystals. Optics Letters, 2022, 47, 2069-2072.	3.3	2
59	Materials Research in China: Successes and Problems. Advanced Materials, 1999, 11, 1065-1066.	21.0	1
60	A narrow-band continuous-wave laser source at 191 nm. , 2013, , .		1
61	$\text{BiMnPO}_5$ with ferromagnetic $\text{Mn}^{2+}$ ( $\frac{1}{4}\text{-O}$ ) $_{2\text{Mn}^{2+}}$ units: a model for magnetic exchange in edge-linked $\text{Mn}^{2+}\text{O}_6$ octahedra. Chemical Communications, 2021, 57, 7027-7030.	4.1	1
62	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
63	Proton-Rich POM-Type $\text{K}_{12}\text{Mo}_8\text{O}_{20}(\text{HPO}_4)_8(\text{PO}_4)_4\text{Cl}$ with Ion-Exchange Capabilities. Inorganic Chemistry, 2022, 61, 5262-5269.	4.0	1
64	The superconductivity of $\text{La}_{1.8}\text{Sr}_{0.1}\text{Cu}_{1-x}\text{M}_x\text{O}_{4-y}$ ( $0 < x < 0.03$ ) (M=Mg,Mn). Physica B: Condensed Matter, 1991, 169, 709-710.	2.7	0
65	15 mW of CW emission at 193 nm using the crystal KBBF. , 2014, , .		0
66	CW emission at 193 nm using an all solid-state laser source. , 2014, , .		0
67	Lone-pair stabilized channels and blocked transport in apatite-related structures. Dalton Transactions, 2021, 50, 13232-13235.	3.3	0