

# Kenneth Poepelmeier

## List of Publications by Year in descending order

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323  
papers

22,138  
citations

13332

70  
h-index

11946

139  
g-index

339  
all docs

339  
docs citations

339  
times ranked

16321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding the Ambient-Pressure Phase Space of CaFe <sub>2</sub> O <sub>4</sub> -Type Sodium Postspinel Host-Guest Compounds. ACS Organic & Inorganic Au, 2022, 2, 8-22.	1.9	5
2	Low Thermal Conductivity in Heteroanionic Materials with Layers of Homoleptic Polyhedra. Journal of the American Chemical Society, 2022, 144, 2569-2579.	6.6	13
3	Strong Nonlinearity Induced by Coaxial Alignment of Polar Chain and Dense [BO <sub>3</sub> ] Units in CaZn <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> . Angewandte Chemie - International Edition, 2022, 61, .	7.2	116
4	Synthesis of perovskite polyhedron nanocrystals with equivalent facets and the controlled growth of Pt nanoparticles with differing surface concentration of oxidized Pt <sup>4+</sup> /Pt <sup>2+</sup> species. Catalysis Today, 2022, , .	2.2	1
5	Triple-Wavelength Lasing with a Stabilized <sup>2+</sup> -LaBSiO <sub>5</sub> :Nd <sup>3+</sup> Crystal. Journal of the American Chemical Society, 2022, 144, 11822-11830.	6.6	15
6	Two Distinct Cu(II)↔V(IV) Superexchange Interactions with Similar Bond Angles in a Triangular $\alpha$ -CuV <sub>2</sub> Fragment. Inorganic Chemistry, 2022, 61, 10234-10241.	1.9	3
7	Synthesis, crystal structure, and magnetic properties of a one-dimensional chain antiferromagnet NiC <sub>2</sub> O <sub>4</sub> ·2NH <sub>3</sub> . Journal of Solid State Chemistry, 2022, 314, 123360.	1.4	1
8	Symmetry-Dependent Intermolecular $\pi$ - $\pi$ Stacking Directed by Hydrogen Bonding in Racemic Copper-Phenanthroline Compounds. Crystal Growth and Design, 2021, 21, 552-562.	1.4	10
9	Borates: A Rich Source for Optical Materials. Chemical Reviews, 2021, 121, 1130-1202.	23.0	534
10	Crystal structures of three copper(II)↔2,2'-bipyridine (bpy) compounds, [Cu(bpy) <sub>2</sub> (H <sub>2</sub> O)] [SiF <sub>6</sub> ]·4H <sub>2</sub> O, [Cu(bpy) <sub>2</sub> (TaF <sub>6</sub> ) <sub>2</sub> ] and [Cu(bpy) <sub>3</sub> ][TaF <sub>6</sub> ] <sub>2</sub> and a related coordination polymer, [Cu(bpy)(H <sub>2</sub> O) <sub>2</sub> SnF <sub>6</sub> ] <sub>n</sub> . Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 158-164.	0.2	4
11	Energy storage mechanisms in vacancy-ordered Wadsley-Roth layered niobates. Journal of Materials Chemistry A, 2021, 9, 20006-20023.	5.2	12
12	Fluoridation of HfO <sub>2</sub> . Inorganic Chemistry, 2021, 60, 4463-4474.	1.9	7
13	First-Principles Hydrothermal Synthesis Design to Optimize Conditions and Increase the Yield of Quaternary Heteroanionic Oxychalcogenides. Chemistry of Materials, 2021, 33, 2726-2741.	3.2	15
14	Expanding the chemistry of borates with functional [BO <sub>2</sub> ] <sup>-</sup> anions. Nature Communications, 2021, 12, 2597.	5.8	99
15	Synthetic Lubricants Derived from Plastic Waste and their Tribological Performance. ChemSusChem, 2021, 14, 4181-4189.	3.6	25
16	Show me your $\alpha$ -Hand! Direct determination of $\alpha$ -handedness in NaCu <sub>5</sub> S <sub>3</sub> chiral crystal via aberration-corrected scanning transmission electron microscopy. Microscopy and Microanalysis, 2021, 27, 2652-2654.	0.2	1
17	Crystal structures of two copper(I)↔6,6'-dimethyl-2,2'-bipyridyl (dmbpy) compounds, [Cu(dmbpy) <sub>2</sub> ][M <sub>6</sub> F <sub>6</sub> ]·xH <sub>2</sub> O (M = Tl, EtOg) 1 0.784314 rge 2021, 77, 819-823.	0.2	1
18	The crystal structure of LiSc <sub>2</sub> SbO <sub>6</sub> . Journal of Solid State Chemistry, 2021, 304, 122615.	1.4	2

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19	Identifying Support Effects in Au-Catalyzed CO Oxidation. ACS Catalysis, 2021, 11, 11921-11928.	5.5	4
20	Heteroanionic Ruddlesden-Popper ferroelectrics from anion order and octahedral tilts. Physical Review Materials, 2021, 5, .	0.9	0
21	Perovskite-like $K_3TiO_5$ Exhibits (3 + 1)-Dimensional Commensurate Structure Induced by Octahedrally Coordinated Potassium Ions. Journal of the American Chemical Society, 2021, 143, 18907-18916.	6.6	4
22	Scalable Synthesis of Pt/SrTiO <sub>3</sub> Hydrogenolysis Catalysts in Pursuit of Manufacturing-Relevant Waste Plastic Solutions. ACS Applied Materials & Interfaces, 2021, 13, 58691-58700.	4.0	19
23	Phase transitions and potential ferroelectricity in noncentrosymmetric KNaNbOF <sub>5</sub> . Physical Review Materials, 2021, 5, .	0.9	1
24	NaRb <sub>3</sub> B <sub>6</sub> O <sub>9</sub> (OH) <sub>3</sub> (HCO <sub>3</sub> ): A Borate-Bicarbonate Nonlinear Optical Material. Inorganic Chemistry, 2020, 59, 759-766.	1.9	13
25	Factors Defining the Intercalation Electrochemistry of CaFe <sub>2</sub> O <sub>4</sub> -Type Manganese Oxides. Chemistry of Materials, 2020, 32, 8203-8215.	3.2	6
26	Identification of Structure and Chemical Occupancy of Emerging Complex Compounds via Analytical Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 744-746.	0.2	0
27	Liln <sub>2</sub> SbO <sub>6</sub> : A New Rutile-Related Structure Type with Unique Ion Channels. Chemistry of Materials, 2020, 32, 4785-4794.	3.2	10
28	Messungen an 1/4-Proben – ein alternativer Weg zur Untersuchung intrinsischer Eigenschaften von Festkörpermaterialien am Beispiel des Halbleiters TaGe. Angewandte Chemie, 2020, 132, 11230-11235.	1.6	1
29	Multimodal Structure Solution with <sup>19</sup> F NMR Crystallography of Spin Singlet Molybdenum Oxyfluorides. Journal of the American Chemical Society, 2020, 142, 12288-12298.	6.6	11
30	Periodic Tendril Perversion and Helices in the AMoO <sub>2</sub> F <sub>3</sub> (A = K, Rb,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	6.6	31
31	Microscale Device – An Alternative Route for Studying the Intrinsic Properties of Solid State Materials: The Case of Semiconducting TaGe. Angewandte Chemie - International Edition, 2020, 59, 11136-11141.	7.2	9
32	Machine-Learning-Assisted Synthesis of Polar Racemates. Journal of the American Chemical Society, 2020, 142, 7555-7566.	6.6	24
33	Microscopic Insights into the Reconstructive Phase Transition of KNaNbOF <sub>5</sub> with <sup>19</sup> F NMR Spectroscopy. Chemistry of Materials, 2020, 32, 5715-5722.	3.2	5
34	Ferri-chiral compounds with potentially switchable Dresselhaus spin splitting. Physical Review B, 2020, 102, .	1.1	4
35	Research and Development of Zincoborates: Crystal Growth, Structural Chemistry and Physicochemical Properties. Molecules, 2019, 24, 2763.	1.7	14
36	Spontaneous Non-stoichiometry and Ordering in Degenerate but Gapped Transparent Conductors. Matter, 2019, 1, 280-294.	5.0	27

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37	Identification of Anion Sites in BiCuXO (X= Se, S) Heteroanionic Materials. Microscopy and Microanalysis, 2019, 25, 2106-2107.	0.2	0
38	Upcycling Single-Use Polyethylene into High-Quality Liquid Products. ACS Central Science, 2019, 5, 1795-1803.	5.3	283
39	Predicting the Structure Stability of Layered Heteroanionic Materials Exhibiting Anion Order. Inorganic Chemistry, 2019, 58, 13229-13240.	1.9	9
40	Site-Selective Occupancy of Eu <sup>2+</sup> Toward Blue-Light-Excited Red Emission in a Rb <sub>3</sub> YSi <sub>2</sub> O <sub>7</sub> :Eu Phosphor. Angewandte Chemie, 2019, 131, 11645-11650.	1.6	63
41	Site-Selective Occupancy of Eu <sup>2+</sup> Toward Blue-Light-Excited Red Emission in a Rb <sub>3</sub> YSi <sub>2</sub> O <sub>7</sub> :Eu Phosphor. Angewandte Chemie - International Edition, 2019, 58, 11521-11526.	7.2	136
42	Two closely related polymorphs of ammonium trifluorooxovanadate. Journal of Solid State Chemistry, 2019, 276, 261-265.	1.4	2
43	Controlled Two-Step Formation of Faceted Perovskite Rare-Earth Scandate Nanoparticles. Crystals, 2019, 9, 218.	1.0	7
44	Effect of Fluoride Doping on Lithium Diffusivity in Layered Molybdenum Oxide. ACS Applied Energy Materials, 2019, 2, 2080-2086.	2.5	12
45	Heteroanionic Materials by Design: Progress Toward Targeted Properties. Advanced Materials, 2019, 31, e1805295.	11.1	150
46	(Cu <sub>x</sub> Zn <sub>1-x</sub> ) <sub>0.456</sub> In <sub>1.084</sub> Ge <sub>0.46</sub> O <sub>3</sub> (O ≈ 1): A Complex, Ordered, Anion-Deficient Fluorite with Unusual Site-Specific Cation Mixing. Inorganic Chemistry, 2019, 58, 15610-15617.	1.9	2
47	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. Science Advances, 2019, 5, eaav0363.	4.7	153
48	Transparent Conductors: Complex Coordination in Complex Metal Oxides. , 2019, , 131-155.		0
49	Expanding frontiers in materials chemistry and physics with multiple anions. Nature Communications, 2018, 9, 772.	5.8	612
50	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO <sub>3</sub> Nanopolyhedra. ACS Catalysis, 2018, 8, 4751-4760.	5.5	38
51	All Roads Lead to TiO <sub>2</sub> : TiO <sub>2</sub> -Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. Chemistry of Materials, 2018, 30, 841-846.	3.2	29
52	CsCu <sub>5</sub> Se <sub>3</sub> : A Copper-Rich Ternary Chalcogenide Semiconductor with Nearly Direct Band Gap for Photovoltaic Application. Chemistry of Materials, 2018, 30, 1121-1126.	3.2	30
53	Synthesis of Gadolinium Scandate from a Hydroxide Hydrogel. Inorganic Chemistry, 2018, 57, 4104-4108.	1.9	17
54	Structure Sensitivity of Acrolein Hydrogenation by Platinum Nanoparticles on Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> Nanocuboids. ChemCatChem, 2018, 10, 632-641.	1.8	8

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55	Atomistic determination of the surface structure of Cu <sub>2</sub> O(111): experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27456-27463.	1.3	33
56	Designing an Excellent Deep-Ultraviolet Birefringent Material for Light Polarization. <i>Journal of the American Chemical Society</i> , 2018, 140, 16311-16319.	6.6	350
57	Why Some Noncentrosymmetric Borates Do Not Make Good Nonlinear Optical Materials: A Case Study with K <sub>3</sub> B <sub>5</sub> O <sub>8</sub> (OH) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 11801-11808.	1.9	17
58	Replication of SMSI via ALD: TiO <sub>2</sub> Overcoats Increase Pt-Catalyzed Acrolein Hydrogenation Selectivity. <i>Catalysis Letters</i> , 2018, 148, 2223-2232.	1.4	17
59	Synthesis and Characterization of MgCr <sub>2</sub> S <sub>4</sub> Thiospinel as a Potential Magnesium Cathode. <i>Inorganic Chemistry</i> , 2018, 57, 8634-8638.	1.9	50
60	Module-Guided Design Scheme for Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 10726-10733.	6.6	127
61	Syntheses, Structures, and Properties of Non-Centrosymmetric Quaternary Tellurates Bi <sub>M</sub> TeO <sub>6</sub> (M = Al, Ga). <i>Inorganic Chemistry</i> , 2018, 57, 7950-7956.	1.9	19
62	Assisting the Effective Design of Polar Iodates with Early Transition-Metal Oxide Fluoride Anions. <i>Journal of the American Chemical Society</i> , 2018, 140, 8868-8876.	6.6	166
63	Vacancy relaxation in cuprous oxide (Cu <sub>2</sub> O). <i>Journal of Luminescence</i> , 2017, 183, 281-290.	1.5	14
64	Top-Seeded Solution Crystal Growth and Linear and Nonlinear Optical Properties of Ba <sub>4</sub> B <sub>11</sub> O <sub>20</sub> F. <i>Crystal Growth and Design</i> , 2017, 17, 1404-1410.	1.4	37
65	Seeing the invisible plasma with transient phonons in cuprous oxide. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1151-1157.	1.3	1
66	Nucleation and growth process of atomic layer deposition platinum nanoparticles on strontium titanate nanocuboids. <i>Nanotechnology</i> , 2017, 28, 185704.	1.3	13
67	Chemistry-Inspired Adaptable Framework Structures. <i>Accounts of Chemical Research</i> , 2017, 50, 1222-1230.	7.6	316
68	Finding the Next Deep-Ultraviolet Nonlinear Optical Material: NH <sub>4</sub> B <sub>4</sub> O <sub>6</sub> F. <i>Journal of the American Chemical Society</i> , 2017, 139, 10645-10648.	6.6	889
69	Controllable ALD synthesis of platinum nanoparticles by tuning different synthesis parameters. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415301.	1.3	12
70	Crystal Growth and Linear and Nonlinear Optical Properties of KIO <sub>3</sub> ·Te(OH) <sub>6</sub> . <i>Crystal Growth and Design</i> , 2017, 17, 4405-4412.	1.4	13
71	Site Identity and Importance in Cosubstituted Bixbyite In <sub>2</sub> O <sub>3</sub> . <i>Crystals</i> , 2017, 7, 47.	1.0	3
72	Packing of Helices: Is Chirality the Highest Crystallographic Symmetry?. <i>Crystals</i> , 2016, 6, 106.	1.0	8

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73	Direct optical band gap measurement in polycrystalline semiconductors: A critical look at the Tauc method. <i>Journal of Solid State Chemistry</i> , 2016, 240, 43-48.	1.4	252
74	Top-Seeded Solution Crystal Growth, Morphology, Optical and Thermal Properties of $\text{Ba}_3(\text{ZnB}_5\text{O}_{10})\text{PO}_4$ . <i>Crystal Growth and Design</i> , 2016, 16, 3976-3982.	1.4	34
75	Optical activity from racemates. <i>Nature Materials</i> , 2016, 15, 591-592.	13.3	35
76	A Rutile Chevron Modulation in Delafossite-Like $\text{Ga}_3\text{In}_3\text{Ti}_x\text{O}_{9+x/2}$ . <i>Inorganic Chemistry</i> , 2016, 55, 4403-4409.	1.9	10
77	Complex surface structure of (110) terminated strontium titanate nanododecahedra. <i>Nanoscale</i> , 2016, 8, 16606-16611.	2.8	17
78	Redox and phase behavior of Pd-substituted (La,Sr)CrO <sub>3</sub> perovskite solid oxide fuel cell anodes. <i>Solid State Ionics</i> , 2016, 296, 90-105.	1.3	26
79	Reconstructive Transitions from Rotations of Rigid Heteroanionic Polyhedra. <i>Journal of the American Chemical Society</i> , 2016, 138, 11882-11889.	6.6	13
80	Building a Fast Lane for Mg Diffusion in $\text{La}_{1-x}\text{MoO}_3$ by Fluorine Doping. <i>Chemistry of Materials</i> , 2016, 28, 6900-6908.	3.2	60
81	Deep Ultraviolet Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2016, 28, 5238-5258.	3.2	481
82	A New Deep-Ultraviolet Transparent Orthophosphate $\text{LiCs}_2\text{PO}_4$ with Large Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2016, 138, 9101-9104.	6.6	307
83	Atomic Surface Structures of Oxide Nanoparticles with Well-defined Shapes. <i>Microscopy and Microanalysis</i> , 2016, 22, 360-361.	0.2	0
84	A Deep-Ultraviolet Nonlinear Optical Crystal: Strontium Beryllium Borate Fluoride with Planar $\text{Be}(\text{O/F})_3$ Groups. <i>Chemistry of Materials</i> , 2016, 28, 4563-4571.	3.2	47
85	Hydrogen Oxidation Mechanisms on Perovskite Solid Oxide Fuel Cell Anodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, F952-F961.	1.3	50
86	$\text{LiNa}_5\text{Mo}_9\text{O}_{30}$ : Crystal Growth, Linear, and Nonlinear Optical Properties. <i>Chemistry of Materials</i> , 2016, 28, 4483-4491.	3.2	61
87	Tuning of Photoluminescence by Cation Nanosegregation in the $(\text{CaMg})_x(\text{NaSc})_{1-x}\text{Si}_2\text{O}_6$ Solid Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 1158-1161.	6.6	167
88	Metals amassing transparency. <i>Nature Materials</i> , 2016, 15, 132-134.	13.3	13
89	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO <sub>2</sub> - and SrO-terminated SrTiO <sub>3</sub> nanocuboids. <i>Surface Science</i> , 2016, 648, 291-298.	0.8	14
90	Mismatched lattices patched up. <i>Nature Chemistry</i> , 2016, 8, 292-294.	6.6	14

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91	High Thermal Stability of La <sub>2</sub> O <sub>3</sub> - and CeO <sub>2</sub> -Stabilized Tetragonal ZrO <sub>2</sub> . Inorganic Chemistry, 2016, 55, 2413-2420.	1.9	18
92	Reversible Magnesium Intercalation into a Layered Oxyfluoride Cathode. Chemistry of Materials, 2016, 28, 17-20.	3.2	70
93	Hydrothermal crystal growth, piezoelectricity, and triboluminescence of KNaNbOF <sub>5</sub> . Journal of Solid State Chemistry, 2016, 236, 78-82.	1.4	11
94	Emergence of a few distinct structures from a single formal structure type during high-throughput screening for stable compounds: The case of RbCuS and RbCuSe. Physical Review B, 2015, 92, .	1.1	10
95	Incomplete Peierls-like chain dimerization as a mechanism for intrinsic conductivity and optical transparency: A La-Cu-O-S phase with mixed-anion layers as a case study. Physical Review B, 2015, 92, .	1.1	4
96	Flux Growth and Crystal Structure Refinement of Calcite Type Borate GaBO <sub>3</sub> . Crystals, 2015, 5, 252-260.	1.0	14
97	Site Dependency of the High Conductivity of Ga <sub>2</sub> In <sub>6</sub> Sn <sub>2</sub> O <sub>16</sub> : The Role of the 7-Coordinate Site. Chemistry of Materials, 2015, 27, 8084-8093.	3.2	4
98	Phase Stability and Optoelectronic Properties of the Bixbyite Phase in the Gallium-Indium-Tin-Oxide System. Journal of the American Ceramic Society, 2015, 98, 669-674.	1.9	2
99	Wulff shape of strontium titanate nanocuboids. Surface Science, 2015, 632, L22-L25.	0.8	18
100	On the Origin of the Differences in Structure Directing Properties of Polar Metal Oxyfluoride [MO <sub>x</sub> F <sub>6</sub> ] <sup>2+</sup> (x = 1, 2) Building Units. Inorganic Chemistry, 2015, 54, 1712-1719.	1.9	44
101	Adhesion and Atomic Structures of Gold on Ceria Nanostructures: The Role of Surface Structure and Oxidation State of Ceria Supports. Nano Letters, 2015, 15, 5375-5381.	4.5	98
102	Pb <sub>17</sub> O <sub>8</sub> Cl <sub>18</sub> : A Promising IR Nonlinear Optical Material with Large Laser Damage Threshold Synthesized in an Open System. Journal of the American Chemical Society, 2015, 137, 8360-8363.	6.6	181
103	Pb <sub>2</sub> Ba <sub>3</sub> (BO <sub>3</sub> ) <sub>3</sub> Cl: A Material with Large SHG Enhancement Activated by Pb-Chelated BO <sub>3</sub> Groups. Journal of the American Chemical Society, 2015, 137, 9417-9422.	6.6	255
104	Structural, Electrical, and Optical Properties of the Tetragonal, Fluorite-Related Zn <sub>0.456</sub> In <sub>1.084</sub> Ge <sub>0.460</sub> O <sub>3</sub> . Chemistry of Materials, 2015, 27, 5072-5079.	3.2	9
105	Selective Crystal Growth and Structural, Optical, and Electronic Studies of Mn <sub>3</sub> Ta <sub>2</sub> O <sub>8</sub> . Inorganic Chemistry, 2015, 54, 6513-6519.	1.9	6
106	Decreasing the Polarization Resistance of (La,Sr)CrO <sub>3</sub> Solid Oxide Fuel Cell Anodes by Combined Fe and Ru Substitution. Chemistry of Materials, 2015, 27, 3683-3693.	3.2	48
107	Prediction and accelerated laboratory discovery of previously unknown 18-electron ABX compounds. Nature Chemistry, 2015, 7, 308-316.	6.6	349
108	Applications of Electron Microscopy in Heterogeneous Catalysis. , 2015, , 193-238.		1



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109	Chemical Unit Cosubstitution and Tuning of Photoluminescence in the $\text{Ca}_2(\text{Al}_x\text{Mg}_x)(\text{Al}_x\text{Si}_{1+x}\text{O}_7)$ Phosphor. <i>Journal of the American Chemical Society</i> , 2015, 137, 12494-12497.		7
110	Prediction and Synthesis of Strain Tolerant RbCuTe Crystals Based on Rotation of One-Dimensional Nano Ribbons within a Three-Dimensional Inorganic Network. <i>Journal of the American Chemical Society</i> , 2015, 137, 11383-11390.	6.6	12
111	Cupric oxide inclusions in cuprous oxide crystals grown by the floating zone method. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 034901.	2.8	8
112	Research Update: Towards designed functionalities in oxide-based electronic materials. <i>APL Materials</i> , 2015, 3, .	2.2	26
113	Evaluation of defects in cuprous oxide through exciton luminescence imaging. <i>Journal of Luminescence</i> , 2015, 159, 294-302.	1.5	14
114	$\text{Na}_3\text{Ba}_2(\text{B}_3\text{O}_6)_2\text{F}$ : Next Generation of Deep-Ultraviolet Birefringent Materials. <i>Crystal Growth and Design</i> , 2015, 15, 523-529.	1.4	159
115	Electron-induced Ti-rich surface segregation on SrTiO <sub>3</sub> nanoparticles. <i>Micron</i> , 2015, 68, 152-157.	1.1	14
116	The Role of Oleic Acid: From Synthesis to Assembly of Perovskite Nanocuboid Two-Dimensional Arrays. <i>Inorganic Chemistry</i> , 2015, 54, 740-745.	1.9	30
117	Syntheses of Two Vanadium Oxide-Fluoride Materials That Differ in Phase Matchability. <i>Inorganic Chemistry</i> , 2015, 54, 765-772.	1.9	40
118	Third-harmonic generation in cuprous oxide: efficiency determination. <i>Optics Letters</i> , 2014, 39, 618.	1.7	8
119	In situ XANES study of methanol decomposition and partial oxidation to syn-gas over supported Pt catalyst on SrTiO <sub>3</sub> nanocubes. <i>Catalysis Today</i> , 2014, 237, 71-79.	2.2	16
120	Pb <sub>3</sub> B <sub>6</sub> O <sub>11</sub> F <sub>2</sub> : the first non-centrosymmetric lead borate fluoride with a large second harmonic generation response. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1704.	2.7	55
121	Stable, Low Polarization Resistance Solid Oxide Fuel Cell Anodes: $\text{LaSrCrFeO}_{3-\delta}$ ( $\delta = 0.2-0.67$ ). <i>Chemistry of Materials</i> , 2014, 26, 3113-3120.		48
122	Polar Alignment of $\hat{\nu}$ -Shaped Basic Building Units within Transition Metal Oxide Fluoride Materials. <i>Inorganic Chemistry</i> , 2014, 53, 221-228.	1.9	14
123	Imaging the Atomic Surface Structures of CeO <sub>2</sub> Nanoparticles. <i>Nano Letters</i> , 2014, 14, 191-196.	4.5	183
124	From Solution to the Solid State: Control of Niobium Oxide-Fluoride $[\text{NbO}_x\text{F}_y]_n^{\hat{\nu}}$ Species. <i>Inorganic Chemistry</i> , 2014, 53, 537-542.	1.9	20
125	Competing Cation-Anion Interactions and Noncentrosymmetry in Metal Oxide-Fluorides: A First-Principles Theoretical Study. <i>Crystal Growth and Design</i> , 2014, 14, 131-139.	1.4	8
126	How Lewis Acidity of the Cationic Framework Affects KNaNbO <sub>5</sub> Polymorphism. <i>Inorganic Chemistry</i> , 2014, 53, 6979-6984.	1.9	15



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127	Photoionization cross section of 1s orthoexcitons in cuprous oxide. <i>Physical Review B</i> , 2014, 89, .	1.1	5
128	Specific Chemistry of the Anions: [TaOF <sub>5</sub> ] <sup>2-</sup> , [TaF <sub>6</sub> ] <sup>-</sup> , and [TaF <sub>7</sub> ] <sup>2-</sup> . <i>Crystal Growth and Design</i> , 2014, 14, 844-850.	1.4	18
129	Synthesis and Magnetic Properties of $\text{KVOF}_3$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1109-1114.	0.6	13
130	Cs <sub>3</sub> Zn <sub>6</sub> B <sub>9</sub> O <sub>21</sub> : A Chemically Benign Member of the KBBF Family Exhibiting the Largest Second Harmonic Generation Response. <i>Journal of the American Chemical Society</i> , 2014, 136, 1264-1267.	6.6	310
131	Direct Observation of Atomic Surface Structures of CeO <sub>2</sub> Nanoparticles. <i>Microscopy and Microanalysis</i> , 2014, 20, 1918-1919.	0.2	0
132	Nonlinear Active Materials: An Illustration of Controllable Phase Matchability. <i>Journal of the American Chemical Society</i> , 2013, 135, 11942-11950.	6.6	89
133	Alignment of Acentric Units in Infinite Chains: A "Lock and Key" Model. <i>Crystal Growth and Design</i> , 2013, 13, 4084-4091.	1.4	16
134	Epitaxial Stabilization of Face Selective Catalysts. <i>Topics in Catalysis</i> , 2013, 56, 1829-1834.	1.3	20
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