Xu-Tang Tao

List of Publications by Year
in descending order

177	5,738	81900	102487
papers	citations	39 h-index	66 g-index

177	177	177	5886
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bulk crystal growth of hybrid perovskite material CH₃NH₃PbI₃. CrystEngComm, 2015, 17, 665-670.	2.6	483
2	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Topâ€Seeded Solution Growth. Angewandte Chemie - International Edition, 2016, 55, 3447-3450.	13.8	238
3	Single Crystal Perovskite Solar Cells: Development and Perspectives. Advanced Functional Materials, 2020, 30, 1905021.	14.9	171
4	Polymorphism of BaTeMo₂O₉: A New Polar Polymorph and the Phase Transformation. Chemistry of Materials, 2011, 23, 3752-3761.	6.7	167
5	Recent progress in the synthesis of hybrid halide perovskite single crystals. CrystEngComm, 2016, 18, 4476-4484.	2.6	119
6	Bulk Growth and Characterization of a Novel Nonlinear Optical Crystal BaTeMo₂O₉. Crystal Growth and Design, 2008, 8, 304-307.	3.0	118
7	Chiral halide perovskite crystals for optoelectronic applications. Matter, 2021, 4, 794-820.	10.0	113
8	Rational Design of a LiNbO₃-like Nonlinear Optical Crystal, Li₂ZrTeO₆, with High Laser-Damage Threshold and Wide Mid-IR Transparency Window. Journal of the American Chemical Society, 2018, 140, 13089-13096.	13.7	108
9	1D versus 2D cocrystals growth via microspacing in-air sublimation. Nature Communications, 2019, 10, 761.	12.8	99
10	Bulk Chiral Halide Perovskite Single Crystals for Active Circular Dichroism and Circularly Polarized Luminescence. Journal of Physical Chemistry Letters, 2020, 11, 1689-1696.	4.6	98
11	MgTeMoO6: A neutral layered material showing strong second-harmonic generation. Journal of Materials Chemistry, 2012, 22, 9921.	6.7	97
12	High quality crystal growth and anisotropic physical characterization of Î² -Ga 2 O 3 single crystals grown by EFG method. Journal of Alloys and Compounds, 2017, 714, 453-458.	5.5	94
13	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH₃NH₃Pb_xSn_{1â€“x}Br₃ Single Crystals. Chemistry of Materials, 2018, 30, 1556-1565.	6.7	93
14	Crystallographic Investigations into Properties of Acentric Hybrid Perovskite Single Crystals NH(CH₃)₃SnX₃ (X = Cl, Br). Chemistry of Materials, 2016, 28, 6968-6974.	6.7	92
15	Bulk crystal growth and characterization of a new polar polymorph of BaTeMo2O9: Î±-BaTeMo2O9. CrystEngComm, 2011, 13, 6985.	2.6	87
16	Anisotropic Optoelectronic Properties of Melt-Grown Bulk CsPbBr₃ Single Crystal. Journal of Physical Chemistry Letters, 2018, 9, 5040-5046.	4.6	84
17	Synthesis, Structure, and Aggregation-Induced Emission of a Novel Lambda (Î›)-Shaped Pyridinium Salt Based on TrÃ¶ger's Base. Journal of Physical Chemistry C, 2007, 111, 12811-12816.	3.1	82
18	Ga₂O₃ Field-Effect-Transistor-Based Solar-Blind Photodetector With Fast Response and High Photo-to-Dark Current Ratio. IEEE Electron Device Letters, 2018, 39, 1696-1699.	3.9	73

#	Article	IF	Citations
19	Ultrasensitive and Robust 120ÂkeV Hard Xâ€Ray Imaging Detector based on Mixedâ€Halide Perovskite CsPbBr_{3â^'}_nI_n Single Crystals. Advanced Materials, 2022, 34, e2106562.	21.0	72
20	Top-Seeded Solution Growth, Morphology, and Properties of a Polar Crystal Cs₂TeMo₃O₁₂. Crystal Growth and Design, 2011, 11, 1863-1868.	3.0	69
21	Narrow band gap and high mobility of lead-free perovskite single crystal Sn-doped MA₃Sb₂I₉. Journal of Materials Chemistry A, 2018, 6, 20753-20759.	10.3	67
22	A review of Î²-Ga₂O₃ single crystal defects, their effects on device performance and their formation mechanism. Journal of Semiconductors, 2019, 40, 011804.	3.7	67
23	Fluorescent Turn-On Detection and Assay of Protein Based on Lambda (Î›)-Shaped Pyridinium Salts with Aggregation-Induced Emission Characteristics. Journal of Physical Chemistry C, 2009, 113, 6809-6814.	3.1	65
24	One-step exfoliation of ultra-smooth Î²-Ga₂O₃ wafers from bulk crystal for photodetectors. CrystEngComm, 2017, 19, 5122-5127.	2.6	64
25	Elastic, dielectric, and piezoelectric properties of BaTeMo2O9 single crystal. Applied Physics Letters, 2008, 93, .	3.3	60
26	Structure and Thermal Properties of the Nonlinear Optical Crystal BaTeMo₂O₉. Crystal Growth and Design, 2009, 9, 2633-2636.	3.0	60
27	Theoretical and experimental study on the Nd:YAG/BaWO_4/KTP yellow laser generating 83 W output power. Optics Express, 2010, 18, 12111.	3.4	56
28	Characterization of the inhomogeneous barrier distribution in a Pt/(100)Î²-Ga2O3 Schottky diode via its temperature-dependent electrical properties. AIP Advances, 2018, 8, .	1.3	56
29	Reversible Band Gap Narrowing of Snâ€Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. Angewandte Chemie - International Edition, 2018, 57, 14868-14872.	13.8	56
30	Toward emerging gallium oxide semiconductors: A roadmap. Fundamental Research, 2021, 1, 697-716.	3.3	56
31	Femtosecond solid-state laser based on a few-layered black phosphorus saturable absorber. Optics Letters, 2016, 41, 1945.	3.3	55
32	Schottky Barrier Rectifier Based on (100) eta -Ga₂O₃ and its DC and AC Characteristics. IEEE Electron Device Letters, 2018, 39, 556-559.	3.9	50
33	Ca_{1â€“x}RE_xAg_{1â€“y}Sb (RE = La, Ce, Pr, Nd, Sm; 0 â‰¤ Tj ETQq1 1 0.784 Thermoelectric Performance. Journal of the American Chemical Society, 2013, 135, 11840-11848.	13.7	48
34	Twoâ€Dimensional GePâ€Based Broadâ€Band Optical Switches and Photodetectors. Advanced Optical Materials, 2020, 8, 1901490.	7.3	45
35	Strong In-Plane Anisotropic SiP₂ as a IVâ€“V 2D Semiconductor for Polarized Photodetection. ACS Nano, 2021, 15, 20442-20452.	14.6	45
36	Highly sensitive detection of polarized light using a new group IVâ€“V 2D orthorhombic SiP. Journal of Materials Chemistry C, 2018, 6, 7219-7225.	5.5	44

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37	Effect of OH^{â^'} on chemical mechanical polishing of Î²-Ga₂O₃ (100) substrate using an alkaline slurry. RSC Advances, 2018, 8, 6544-6550.	3.6	42
38	Tuning the Thermoelectric Properties of Ca₉Zn_{4+x}Sb₉ by Controlled Doping on the Interstitial Structure. Chemistry of Materials, 2016, 28, 6917-6924.	6.7	41
39	C-V and J-V investigation of HfO2/Al2O3 bilayer dielectrics MOSCAPs on (100) Î²-Ga2O3. AIP Advances, 2018, 8, .	1.3	40
40	High-Detectivity Î²-Gaâ„Oâ„ Microflake Solar-Blind Phototransistor for Weak Light Detection. IEEE Electron Device Letters, 2021, 42, 383-386.	3.9	40
41	Li₂MTeO₆ (M=Ti, Sn): Midâ€Infrared Nonlinear Optical Crystal with Strong Second Harmonic Generation Response and Wide Transparency Range. Angewandte Chemie - International Edition, 2021, 60, 23320-23326.	13.8	39
42	Visualization of Single-Crystal-to-Single-Crystal Phase Transition of Luminescent Molecular Polymorphs. Journal of Physical Chemistry C, 2018, 122, 15744-15752.	3.1	38
43	Efficient Anti-solvent-free Spin-Coated and Printed Sn-Perovskite Solar Cells with Crystal-Based Precursor Solutions. Matter, 2020, 2, 167-180.	10.0	38
44	Self-frequency-doubled KTiOAsO_4 Raman laser emitting at 573 nm. Optics Letters, 2009, 34, 2183.	3.3	37
45	Exploring Organic Metal Halides with Reversible Temperatureâ€Responsive Dualâ€Emissive Photoluminescence. ChemSusChem, 2019, 12, 5228-5232.	6.8	37
46	Flux method growth of bulk MoS₂single crystals and their application as a saturable absorber. CrystEngComm, 2015, 17, 4026-4032.	2.6	35
47	Controllable seeded flux growth and optoelectronic properties of bulk o-SiP crystals. CrystEngComm, 2017, 19, 6986-6991.	2.6	35
48	Gas induced conversion of hybrid perovskite single crystal to single crystal for great enhancement of their photoelectric properties. Journal of Materials Chemistry A, 2017, 5, 21919-21925.	10.3	35
49	Enhancing Carrier Transport Properties of Melt-grown CsPbBr₃ Single Crystals by Eliminating Inclusions. Crystal Growth and Design, 2020, 20, 2424-2431.	3.0	35
50	Top-Seeded Solution Growth, Structure, Morphology, and Functional Properties of a New Polar Crystal â€" Cs₂TeW₃O₁₂. Crystal Growth and Design, 2015, 15, 4484-4489.	3.0	34
51	The origin of coloration of CaGdAlO₄crystals and its effect on their physical properties. CrystEngComm, 2017, 19, 537-545.	2.6	34
52	Unravelling the effect of sulfur vacancies on the electronic structure of the MoS₂ crystal. Physical Chemistry Chemical Physics, 2020, 22, 21776-21783.	2.8	34
53	Growth and properties of Nd:(LuxGd1â^'x)3Ga5O12 laser crystal by Czochralski method. Optical Materials, 2008, 31, 346-349.	3.6	33
54	Ultrasensitive and Broadband Allâ€Optically Controlled THz Modulator Based on MoTe₂/Si van der Waals Heterostructure. Advanced Optical Materials, 2020, 8, 2000160.	7.3	33

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55	Balancing the Transmittance and Carrierâ€Collection Ability of Ag Nanowire Networks for Highâ€Performance Selfâ€Powered Ga₂O₃ Schottky Photodiode. Advanced Optical Materials, 2021, 9, 2100173.	7.3	32
56	Controlled Growth of Layered Acentric CdTeMoO₆ Single Crystals with Linear and Nonlinear Optical Properties. Crystal Growth and Design, 2018, 18, 3376-3384.	3.0	31
57	A study on the technical improvement and the crystalline quality optimization of columnar Î²-Ga2O3 crystal growth by an EFG method. CrystEngComm, 2020, 22, 5060-5066.	2.6	31
58	Investigation of the second-order nonlinear optical properties of Cs2TeMo3O12 single crystal. Applied Physics Letters, 2014, 104, .	3.3	30
59	Bulk growth and an efficient mid-IR laser of high-quality Er:YSGG crystals. CrystEngComm, 2019, 21, 1928-1933.	2.6	30
60	Efficient Nd3+â†'Yb3+ energy transfer in Nd3+,Yb3+:Gd3Ga5O12 multicenter garnet crystal. Journal of Applied Physics, 2009, 105, 083113.	2.5	29
61	Anisotropic Thermal Properties of the Nonlinear Optical and Polar Oxide Material Na2TeW2O9. Crystal Growth and Design, 2011, 11, 3636-3641.	3.0	29
62	Growth of CdSiP2 single crystals by self-seeding vertical Bridgman method. Journal of Crystal Growth, 2012, 340, 197-201.	1.5	29
63	Lowâ€Symmetry and Nontoxic 2D SiP with Strong Polarizationâ€Sensitivity and Fast Photodetection. Advanced Optical Materials, 2021, 9, 2100198.	7.3	29
64	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Topâ€Seeded Solution Growth. Angewandte Chemie, 2016, 128, 3508-3511.	2.0	28
65	Recent progress in terahertz modulation using photonic structures based on twoâ€dimensional materials. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1110-1133.	17.3	28
66	Filter-free color image sensor based on CsPbBr_{3â^'3n}X_{3n} (X = Cl, I) single crystals. Journal of Materials Chemistry C, 2021, 9, 2840-2847.	5.5	27
67	A₁₄MgBi₁₁ (A = Ca, Sr, Eu): Magnesium Bismuth Based Zintl Phases as Potential Thermoelectric Materials. Inorganic Chemistry, 2017, 56, 10576-10583.	4.0	26
68	High efficient external resonator Raman laser based on the monoclinic single crystal BaTeMo2O9. Applied Physics Letters, 2012, 100, .	3.3	24
69	Hysteresis-free and Î¼s-switching of D/E-modes Ga2O3 hetero-junction FETs with the BV2/Ron,sp of 0.74/0.28 GW/cm2. Applied Physics Letters, 2022, 120, .	3.3	24
70	Î›-shaped optoelectronic materials based on TrÃ¶gerâ€™s base. Science China Chemistry, 2011, 54, 587-595.	8.2	23
71	Synthesis, crystal growth, and characterization of the orthorhombic BaTeW2O9: a new polymorph of BaTeW2O9. CrystEngComm, 2013, 15, 10197.	2.6	23
72	Bulk growth, structure, and characterization of the new monoclinic TbCa₄O(BO₃)₃crystal. CrystEngComm, 2014, 16, 4008-4015.	2.6	23

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73	Beta gallium oxide (Î²-Ga2O3) nanoelectromechanical transducer for dual-modality solar-blind ultraviolet light detection. APL Materials, 2019, 7, .	5.1	23
74	High-Performance Î²-Ga₂O₃ Solar-Blind Photodetector With Extremely Low Working Voltage. IEEE Electron Device Letters, 2021, 42, 1492-1495.	3.9	23
75	Tunable 7â€“12â€‰â€‰Î¼m picosecond optical parametric amplifier based on a LiInSe_2 mid-infrared crystal. Optics Letters, 2017, 42, 2098.	3.3	22
76	Structure and growth of single crystal SiP 2 using flux method. Solid State Sciences, 2014, 37, 1-5.	3.2	21
77	Investigation of the dielectric, elastic, and piezoelectric properties of Cs₂TeMo₃O₁₂ crystals. Applied Physics Letters, 2012, 101, 062901.	3.3	20
78	Growth and characterization of Nd:LGGG laser crystal. Journal of Crystal Growth, 2012, 353, 72-76.	1.5	20
79	Vertical Bridgman growth and optical properties of CdSiP2 crystals. CrystEngComm, 2013, 15, 4255.	2.6	20
80	An acidic pH fluorescent probe based on TrÃ¶ger's base. RSC Advances, 2017, 7, 55577-55581.	3.6	20
81	Biaxial crystal Î²-BaTeMo_2O_9: theoretical analysis and the feasibility as high-efficiency acousto-optic Q-switch. Optics Express, 2017, 25, 24893.	3.4	20
82	Defect modulation on CaZn_{1â^'x}Ag_{1â^'y}Sb (0 < x < 1; 0 < y) Tj ETQq0 0 0 rgBT /Overlock Materials Chemistry A, 2018, 6, 11773-11782.	10.3	20
83	The characteristics of high-quality Yb:YAG single crystal fibers grown by a LHPG method and the effects of their discoloration. RSC Advances, 2019, 9, 22567-22575.	3.6	20
84	Solidâ€“liquid interface optimization and properties of ultra-wide bandgap Î²-Ga2O3 grown by Czochralski and EFG methods. CrystEngComm, 2019, 21, 2762-2767.	2.6	20
85	Layered Perovskite (CH₃NH₃)₂Pb(SCN)₂I₂ Single Crystals: Phase Transition and Moisture Stability. ACS Applied Materials & Interfaces, 2020, 12, 37713-37721.	8.0	20
86	Growth and thermal annealing effect on infrared transmittance of ZnGeP2 single crystal. Journal of Crystal Growth, 2011, 318, 717-720.	1.5	19
87	Modified Bridgman growth and properties of mid-infrared LiInSe2 crystal. Journal of Crystal Growth, 2014, 401, 150-155.	1.5	19
88	Crystal Growth and Effects of Annealing on Optical and Electrical Properties of Mid-Infrared Single Crystal LiInS₂. Crystal Growth and Design, 2014, 14, 5957-5961.	3.0	19
89	An extended application of Î²-Ga₂O₃ single crystals to the laser field: Cr⁴⁺:Î²-Ga₂O₃ utilized as a new promising saturable absorber. RSC Advances, 2017, 7, 21815-21819.	3.6	19
90	Single Crystal Fibers: Diversified Functional Crystal Material. Advanced Fiber Materials, 2019, 1, 163-187.	16.1	19

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91	(1-C5H14N2Br)2MnBr4: A Lead-Free Zero-Dimensional Organic-Metal Halide With Intense Green Photoluminescence. Frontiers in Chemistry, 2020, 8, 352.	3.6	19
92	Tailored fabrication of a prospective acoustoâ€“optic crystal TiTe₃O₈endowed with high performance. Journal of Materials Chemistry C, 2018, 6, 2443-2451.	5.5	18
93	Ti-Doped Î²-Ga₂O₃: A Promising Material for Ultrafast and Tunable Lasers. Crystal Growth and Design, 2018, 18, 3037-3043.	3.0	18
94	Layered hybrid perovskite solar cells based on single-crystalline precursor solutions with superior reproducibility. Sustainable Energy and Fuels, 2018, 2, 2237-2243.	4.9	18
95	Review on quasi-2D square planar nickelates. CrystEngComm, 2021, 23, 3249-3264.	2.6	18
96	Anisotropic thermal properties of the polar crystal Cs2TeMo3O12. Journal of Solid State Chemistry, 2012, 195, 120-124.	2.9	17
97	Second order nonlinear optical properties of Cs_2TeW_3O_12 single crystal. Optical Materials Express, 2016, 6, 451.	3.0	17
98	Crystal growth and spectral broadening of a promising Yb:CaLu_xGd_{1â^'x}AlO₄disordered crystal for ultrafast laser application. CrystEngComm, 2017, 19, 1643-1647.	2.6	17
99	Reversible Band Gap Narrowing of Snâ€Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. Angewandte Chemie, 2018, 130, 15084-15088.	2.0	17
100	Crystallographic Investigations into the Polar Polymorphism of BaTeW₂O₉: Phase Transformation, Controlled Crystallization, and Linear and Nonlinear Optical Properties. Crystal Growth and Design, 2019, 19, 1767-1777.	3.0	17
101	Controllable and directional growth of Er:Lu₂O₃ single crystals by the edge-defined film-fed technique. CrystEngComm, 2020, 22, 6569-6573.	2.6	17
102	Fluorine-free synthesis of ambient-stable delaminated Ti₂CT_x (MXene). Journal of Materials Chemistry A, 2022, 10, 7960-7967.	10.3	17
103	Large-Sized Crystal Growth and Electric-Elastic Properties of Î±-BaTeMo₂O₉ Single Crystal. Crystal Growth and Design, 2015, 15, 759-763.	3.0	16
104	Defect Chemistry, Phase Transitions, and Thermoelectric Properties of Ca1â€“xCexAg1â€“ySb (0 â‰¤ x â‰¤ 1; 0 â‰¤ y) Tj ETQq0 0 0 rgB	6.7	16
105	Charge compensations of Eu²⁺ and O_i^{2â^'} co-exist in Eu³⁺:CaMoO₄ single-crystal fibers grown by the micro-pulling-down method. CrystEngComm, 2018, 20, 6741-6751.	2.6	15
106	Intrinsic defects and their effects on the optical properties in the nonlinear optical crystal CdSiP₂: a first-principles study. Physical Chemistry Chemical Physics, 2017, 19, 9558-9565.	2.8	14
107	Young's modulus and corresponding orientation in Î²-Ga2O3 thin films resolved by nanomechanical resonators. Applied Physics Letters, 2021, 119, .	3.3	14
108	Optimized Growth of Large-Sized LiInSe2 Crystals and the Electricâ€“Elastic Properties. Crystal Growth and Design, 2017, 17, 5875-5880.	3.0	13

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109	Optimizing growth, structure, and elastic-electrical properties of acentric melilite CaYAl3O7 crystal. Journal of Alloys and Compounds, 2018, 748, 57-62.	5.5	13
110	Crystal growth, thermal and optical properties of TSLAG magneto-optical crystals. Journal of Alloys and Compounds, 2019, 805, 496-501.	5.5	13
111	Investigations into anisotropic properties of the nonlinear optical material CdTeMoO6 with quasi-two-dimensional structure. Journal of Alloys and Compounds, 2019, 777, 59-66.	5.5	13
112	Anisotropy and in-plane polarization of low-symmetrical Î²-Ga2O3 single crystal in the deep ultraviolet band. Applied Surface Science, 2020, 527, 146648.	6.1	13
113	Crystal growth and design of Sn-doped Î²-Ga2O3: Morphology, defect and property studies of cylindrical crystal by EFG. Journal of Alloys and Compounds, 2022, 896, 162830.	5.5	13
114	Top-seeded solution growth and characterization of a Bi₂Mo_{2.66}W_{0.34}O₁₂single crystal. CrystEngComm, 2015, 17, 4525-4532.	2.6	12
115	Thermochromism Perovskite (COOH(CH₂)₃NH₃)₂PbI₄ Crystals: Single-Crystal to Single-Crystal Phase Transition and Excitation-Wavelength-Dependent Emission. Journal of Physical Chemistry Letters, 2022, 13, 214-221.	4.6	12
116	Optimized growth and electro-elastic properties of centimeter-sized piezoelectric crystals of Na₂TeW₂O₉. CrystEngComm, 2016, 18, 5313-5319.	2.6	11
117	Laser floating zone growth of improper geometric ferroelectric GdInO₃ single crystals with Z₆ topological defects. Journal of Materials Chemistry C, 2018, 6, 7024-7029.	5.5	11
118	A fractional crystallization technique towards pure mega-size CsPb₂Br₅ single crystal films. CrystEngComm, 2019, 21, 1352-1357.	2.6	11
119	Optimized growth of high length-to-diameter ratio Lu₂O₃ single crystal fibers by the LHPG method. CrystEngComm, 2021, 23, 1657-1662.	2.6	11
120	Investigation of the blue color center in Î²-Ga₂O₃ crystals by the EFG method. CrystEngComm, 2021, 23, 8360-8366.	2.6	11
121	Optimized oriented seed growth and optical properties of high-quality LiInSe₂ crystals. CrystEngComm, 2018, 20, 7802-7808.	2.6	10
122	Shedding Light on the Intrinsic Characteristics of 3D Distorted Fluorite-Type Zirconium Tellurite Single Crystals. Inorganic Chemistry, 2019, 58, 7794-7802.	4.0	10
123	Bulk crystal growth and characterization of the bismuth ferrite-based material Bi₃FeO₄(MoO₄)₂. CrystEngComm, 2019, 21, 2508-2516.	2.6	10
124	Broadband near-infrared Cr³⁺:Î²-Ga₂O₃ fluorescent single crystal grown by the EFG method. CrystEngComm, 2020, 22, 7654-7659.	2.6	10
125	Conjugate and non-conjugate controls of a sensitizer to enhance dye-sensitized upconversion luminescence. Journal of Materials Chemistry C, 2022, 10, 2205-2212.	5.5	10
126	Crystal growth and piezoelectric, elastic and dielectric properties of novel LiInS2 crystal. Journal of Crystal Growth, 2013, 362, 308-311.	1.5	9

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127	An ab initio investigation of phosphorene/hexagonal boron nitride heterostructures with defects for high performance photovoltaic applications. Applied Surface Science, 2017, 423, 1003-1011.	6.1	9
128	Picosecond mid-infrared optical parametric amplifier based on LiInSe_2 with tenability extending from 36 to 48 Î¼m. Optics Express, 2017, 25, 12860.	3.4	9
129	Polymorphic Smooth Interfaces Formation Based on the Biphasic BaTeMo2O9 Using Top Multi-Seeded Growth. Crystal Growth and Design, 2018, 18, 5054-5062.	3.0	9
130	Factors influencing optical uniformity of YAG single-crystal fiber grown by micro-pulling-down technology. CrystEngComm, 2019, 21, 6929-6934.	2.6	9
131	Tuning the Solution-Mediated Concomitant Phase Transformation Outcome of the Piroxicam Monohydrate by Two Hydroxyl-Containing Additives: Hydroxypropyl Cellulose and H₂O. Crystal Growth and Design, 2019, 19, 583-590.	3.0	9
132	Layered hybrid lead perovskite single crystals: phase transformations and tunable optical properties. CrystEngComm, 2020, 22, 6310-6315.	2.6	9
133	Exploring promising up-conversion luminescence single crystal fiber in sesquioxide family for high temperature optical thermometry application. Journal of Alloys and Compounds, 2021, 889, 161348.	5.5	9
134	Growth improvement and quality evaluation of ZnGeP2 single crystals using vertical Bridgman method. Journal of Crystal Growth, 2012, 352, 67-71.	1.5	8
135	Optical properties and birefringence in LiInS_2 in the terahertz frequency range. Optical Materials Express, 2014, 4, 575.	3.0	8
136	A new potential nonlinear optical hybrid semi-organic crystal of ZnMnCl₄(TPPO)₄ with attractive physical properties. CrystEngComm, 2016, 18, 1818-1824.	2.6	8
137	Crystal growth and optimization of Pr:CaGdAlO₄ by the flux-Czochralski method. CrystEngComm, 2018, 20, 590-596.	2.6	8
138	Ultrasensitive photodetectors based on a high-quality LiInSe₂ single crystal. Journal of Materials Chemistry C, 2018, 6, 12615-12622.	5.5	8
139	Structure transformation in Ca_{1â^'xâ^'Î´}Sr_{Î´}La_xAg_{1â^'y}Sb (0) Tj ETQq1 1 0.784314	6.0	8
140	Bimetallic Selenide LiInSe 2 Decorated with a Uniform Carbon Layer with Superior Lithium Storage Performance. ChemElectroChem, 2020, 7, 139-147.	3.4	8
141	Cracking mechanism and spectral properties of Er,Yb:CaGdAlO₄ crystals grown by the LHPG method. CrystEngComm, 2020, 22, 955-960.	2.6	8
142	Modified Bridgman growth and characterization of a novel mid-infrared transparent optical crystal: LiGa₃Te₅. RSC Advances, 2014, 4, 27830-27836.	3.6	7
143	Electricâ€“elastic properties of a novel high-quality CdTeMoO₆ piezoelectric crystal. CrystEngComm, 2018, 20, 5602-5608.	2.6	7
144	Nd doped CaYAl₃O₇: exploration and laser performance of a novel disordered laser crystal. CrystEngComm, 2020, 22, 4723-4729.	2.6	7

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145	Insights into the polymorphism of Bi₂W₂O₉: single crystal growth and a complete survey of the variable-temperature thermal and dielectric properties. CrystEngComm, 2018, 20, 2669-2680.	2.6	6
146	Fabrication and sensitivity optimization of garnet crystal-fiber ultrasonic temperature sensor. Journal of Materials Chemistry C, 2020, 8, 3830-3837.	5.5	6
147	Low-Dimensional Hybrid Lead Iodide Perovskites Single Crystals via Bifunctional Amino Acid Cross-Linkage: Structural Diversity and Properties Controllability. ACS Applied Materials & Interfaces, 2021, 13, 3325-3335.	8.0	6
148	Design, growth, and characterization of Y₂Mo₄O₁₅ crystals for Raman laser applications. RSC Advances, 2021, 11, 1164-1171.	3.6	6
149	New near-infrared optical modulator of Co²⁺:Î²-Ga₂O₃ single crystal. Optical Materials Express, 2021, 11, 442.	3.0	6
150	Laser damage mechanism and in situ observation of stacking fault relaxation in a Î²-Ga2O3 single crystal by the EFG method. CrystEngComm, 2021, 23, 3724-3730.	2.6	6
151	Stable highly-efficient white-light emission from panchromatic luminescent aldehyde-based diphenylanthracene derivatives doped with triplet sensitizer. Journal of Materials Chemistry C, 2020, 8, 5015-5019.	5.5	6
152	Third-order nonlinearity and saturable absorbed performance of Cr^4+:Gd_3Ga_5O_12 crystal. Optical Materials Express, 2016, 6, 2600.	3.0	5
153	Spectroscopic properties and ultrafast performance of Yb:CaLu_xGd_{1â^'x}AlO₄ crystal. Laser Physics Letters, 2017, 14, 045809.	1.4	5
154	Investigation into the optimized growth, anisotropic properties and theoretical calculations of the polar material Cs₂TeW₃O₁₂. CrystEngComm, 2019, 21, 2345-2354.	2.6	5
155	Investigation on Î²-Ga2O3 (101) plane with high-density surface dangling bonds. Journal of Alloys and Compounds, 2022, 889, 161714.	5.5	5
156	Characterization and optimization of the growth conditions of a novel Cs2TeW3O12piezoelectric crystal. RSC Advances, 2017, 7, 4278-4284.	3.6	4
157	Defect control in Ca_{1â^'Î´}Ce_{Î´}Ag_{1â^'Î´}Sb (Î´ â‰ˆ 0.15) through Nb doping. Inorganic Chemistry Frontiers, 2017, 4, 1113-1119.	6.0	4
158	Development of longer Nd:LGGG crystal for high power laser application. Journal of Crystal Growth, 2017, 478, 28-32.	1.5	4
159	Antioxidation and High-Resolution Ultrasonic Temperature Sensor Based on Cr³⁺:MgAl₂O₄ Single Crystal Fiber. Crystal Growth and Design, 2020, 20, 6763-6768.	3.0	4
160	Anisotropic properties and Raman spectra of a LiNa₅Mo₉O₃₀ single crystal grown by the TSSG method. CrystEngComm, 2020, 22, 7716-7722.	2.6	4
161	Design and Directional Growth of (Mg_{1â^'}_xZn_x)(Al_{1â^'}_yCr_y)₂O₄ Singleâ€Crystal Fibers for Highâ€Sensitivity and Highâ€Temperature Sensing Based on Lattice Doping Engineering and Acoustic Anisotropy. Advanced Functional Materials, 2021, 31, 2103224.	14.9	4
162	Size-dependent solution-mediated phase transformation of piroxicam monohydrate particles. CrystEngComm, 2021, 23, 2928-2932.	2.6	3

#	Article	IF	Citations
163	Large-sized crystal growth and piezoelectric properties of the single crystals of LiNa₅Mo₉O₃₀. CrystEngComm, 2021, 23, 1912-1917.	2.6	3
164	Li 2 MTeO 6 (M=Ti, Sn): Midâ€Infrared Nonlinear Optical Crystal with Strong Second Harmonic Generation Response and Wide Transparency Range. Angewandte Chemie, 2021, 133, 23508.	2.0	3
165	Growth and Temperature-Dependent Mechanical and Thermal Properties of One-Dimensional Chain Structure Hg2Br2 Crystals for Infrared Acousto-Optic Device Application. Crystal Growth and Design, 2021, 21, 7034-7042.	3.0	3
166	Multiple stimuli triggered structural isomerization of copper iodideâ€“pyridine crystals. CrystEngComm, 2022, 24, 788-795.	2.6	3
167	Enhancement Mode Ga2O3 Field Effect Transistor with Local Thinning Channel Layer. Crystals, 2022, 12, 897.	2.2	3
168	Flux growth and characterization of an FeSi4P4 single crystal. RSC Advances, 2017, 7, 47938-47944.	3.6	2
169	First-principles study of dopant stability and related optical properties in CdSiP2 crystal. Journal of Alloys and Compounds, 2019, 802, 310-317.	5.5	2
170	Optimized seeded Bridgman growth and temperature dependent THz optical properties of LiInS₂ crystals. CrystEngComm, 2019, 21, 2614-2619.	2.6	2
171	Optimized growth and anisotropic properties of Li2ZrTeO6 nonlinear optical crystals. CrystEngComm, 0, , .	2.6	2
172	Optimized Bridgman growth and quality improvement of LiInSe2 crystal by annealing in Li2Se vapor atmosphere. Journal of Alloys and Compounds, 2022, 904, 163991.	5.5	2
173	Anisotropic Bubbles defects and Stress distribution in LuAG Single-Crystal Fibers Grown by the Laser-Heated Pedestal Growth Method. CrystEngComm, 0, , .	2.6	2
174	Growth of homogeneous Nd:LGGG single crystal plates by edge-defined film-fed growth method. Journal of Crystal Growth, 2017, 478, 17-21.	1.5	1
175	Effect of probe pulse duration in picosecond ultrasonics. Applied Physics Letters, 2022, 120, 202201.	3.3	1
176	Back Cover Image. InformaÄnÃ-MateriÃ¡ly, 2021, 3, .	17.3	0
177	Lead-Free Perovskite Solar Cells with Efficiencies Reaching 8.29% Based on Single-Crystalline Precursor Solutions. SSRN Electronic Journal, 0, , .	0.4	0