

Xu-Tang Tao

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on $\hat{\Gamma}^2$ -Ga ₂ O ₃ (101) plane with high-density surface dangling bonds. Journal of Alloys and Compounds, 2022, 889, 161714.	5.5	5
2	Crystal growth and design of Sn-doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ : Morphology, defect and property studies of cylindrical crystal by EFG. Journal of Alloys and Compounds, 2022, 896, 162830.	5.5	13
3	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
4	Ultrasensitive and Robust 120 keV Hard X-ray Imaging Detector based on Mixed-Halide Perovskite CsPbBr ₃ Single Crystals. Advanced Materials, 2022, 34, e2106562.	21.0	72
5	Multiple stimuli triggered structural isomerization of copper iodide-pyridine crystals. CrystEngComm, 2022, 24, 788-795.	2.6	3
6	Optimized Bridgman growth and quality improvement of LiInSe ₂ crystal by annealing in Li ₂ Se vapor atmosphere. Journal of Alloys and Compounds, 2022, 904, 163991.	5.5	2
7	Fluorine-free synthesis of ambient-stable delaminated Ti ₂ CT _x (MXene). Journal of Materials Chemistry A, 2022, 10, 7960-7967.	10.3	17
8	Hysteresis-free and $\frac{1}{4}$ -switching of D/E-modes Ga ₂ O ₃ hetero-junction FETs with the BV ₂ /Ron,sp of 0.74/0.28 GW/cm ² . Applied Physics Letters, 2022, 120, .	3.3	24
9	Thermochromism Perovskite (COOH(CH ₂) ₃ NH ₃) ₂ PbI ₄ 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
10	Effect of probe pulse duration in picosecond ultrasonics. Applied Physics Letters, 2022, 120, 202201.	3.3	1
11	Enhancement Mode Ga ₂ O ₃ Field Effect Transistor with Local Thinning Channel Layer. Crystals, 2022, 12, 897.	2.2	3
12	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
13	Design, growth, and characterization of Y ₂ Mo ₄ O ₁₅ crystals for Raman laser applications. RSC Advances, 2021, 11, 1164-1171.	3.6	6
14	Size-dependent solution-mediated phase transformation of piroxicam monohydrate particles. CrystEngComm, 2021, 23, 2928-2932.	2.6	3
15	Optimized growth of high length-to-diameter ratio Lu ₂ O ₃ single crystal fibers by the LHPG method. CrystEngComm, 2021, 23, 1657-1662.	2.6	11
16	New near-infrared optical modulator of Co ²⁺ : $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystal. Optical Materials Express, 2021, 11, 442.	3.0	6
17	Laser damage mechanism and in situ observation of stacking fault relaxation in a $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystal by the EFG method. CrystEngComm, 2021, 23, 3724-3730.	2.6	6
18	Large-sized crystal growth and piezoelectric properties of the single crystals of LiNa ₅ Mo ₉ O ₃₀ . CrystEngComm, 2021, 23, 1912-1917.	2.6	3

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19	Low-Symmetry and Nontoxic 2D SiP with Strong Polarization-Sensitivity and Fast Photodetection. <i>Advanced Optical Materials</i> , 2021, 9, 2100198.	7.3	29
20	Chiral halide perovskite crystals for optoelectronic applications. <i>Matter</i> , 2021, 4, 794-820.	10.0	113
21	High-Detectivity $\hat{\Gamma}^2$ -Ga ₂ O ₃ Microflake Solar-Blind Phototransistor for Weak Light Detection. <i>IEEE Electron Device Letters</i> , 2021, 42, 383-386.	3.9	40
22	Balancing the Transmittance and Carrier-Collection Ability of Ag Nanowire Networks for High-Performance Self-Powered Ga ₂ O ₃ Schottky Photodiode. <i>Advanced Optical Materials</i> , 2021, 9, 2100173.	7.3	32
23	Young's modulus and corresponding orientation in $\hat{\Gamma}^2$ -Ga ₂ O ₃ thin films resolved by nanomechanical resonators. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	14
24	Design and Directional Growth of (Mg _{1-x} Zn _x)(Al _{1-y} Cr _y) ₂ Single-Crystal Fibers for High-Sensitivity and High-Temperature Sensing Based on Lattice Doping Engineering and Acoustic Anisotropy. <i>Advanced Functional Materials</i> , 2021, 31, 2103224.	14.9	4
25	Li ₂ MTeO ₆ (M=Ti, Sn): Mid-Infrared Nonlinear Optical Crystal with Strong Second Harmonic Generation Response and Wide Transparency Range. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23320-23326.	13.8	39
26	Li ₂ MTeO ₆ (M=Ti, Sn): Mid-Infrared Nonlinear Optical Crystal with Strong Second Harmonic Generation Response and Wide Transparency Range. <i>Angewandte Chemie</i> , 2021, 133, 23508.	2.0	3
27	Recent progress in terahertz modulation using photonic structures based on two-dimensional materials. <i>Informa-Materially</i> , 2021, 3, 1110-1133.	17.3	28
28	High-Performance $\hat{\Gamma}^2$ -Ga ₂ O ₃ Solar-Blind Photodetector With Extremely Low Working Voltage. <i>IEEE Electron Device Letters</i> , 2021, 42, 1492-1495.	3.9	23
29	Exploring promising up-conversion luminescence single crystal fiber in sesquioxide family for high temperature optical thermometry application. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161348.	5.5	9
30	Review on quasi-2D square planar nickelates. <i>CrystEngComm</i> , 2021, 23, 3249-3264.	2.6	18
31	Filter-free color image sensor based on CsPbBr ₃ X ₃ (X = Cl, I) single crystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2840-2847.	5.5	27
32	Back Cover Image. <i>Informa-Materially</i> , 2021, 3, .	17.3	0
33	Growth and Temperature-Dependent Mechanical and Thermal Properties of One-Dimensional Chain Structure Hg ₂ Br ₂ Crystals for Infrared Acousto-Optic Device Application. <i>Crystal Growth and Design</i> , 2021, 21, 7034-7042.	3.0	3
34	Toward emerging gallium oxide semiconductors: A roadmap. <i>Fundamental Research</i> , 2021, 1, 697-716.	3.3	56
35	Strong In-Plane Anisotropic SiP ₂ as a IV-V 2D Semiconductor for Polarized Photodetection. <i>ACS Nano</i> , 2021, 15, 20442-20452.	14.6	45
36	Investigation of the blue color center in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals by the EFG method. <i>CrystEngComm</i> , 2021, 23, 8360-8366.	2.6	11

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37	Two-Dimensional GeP-Based Broad-Band Optical Switches and Photodetectors. <i>Advanced Optical Materials</i> , 2020, 8, 1901490.	7.3	45
38	Bimetallic Selenide LiInSe_2 Decorated with a Uniform Carbon Layer with Superior Lithium Storage Performance. <i>ChemElectroChem</i> , 2020, 7, 139-147.	3.4	8
39	Cracking mechanism and spectral properties of Er,Yb:CaGdAlO_4 crystals grown by the LHPG method. <i>CrystEngComm</i> , 2020, 22, 955-960.	2.6	8
40	Single Crystal Perovskite Solar Cells: Development and Perspectives. <i>Advanced Functional Materials</i> , 2020, 30, 1905021.	14.9	171
41	Efficient Anti-solvent-free Spin-Coated and Printed Sn-Perovskite Solar Cells with Crystal-Based Precursor Solutions. <i>Matter</i> , 2020, 2, 167-180.	10.0	38
42	Controllable and directional growth of $\text{Er:Lu}_2\text{O}_3$ single crystals by the edge-defined film-fed technique. <i>CrystEngComm</i> , 2020, 22, 6569-6573.	2.6	17
43	Layered Perovskite $(\text{CH}_3\text{NH}_3)_2\text{Pb}(\text{SCN})_2\text{I}_2$ Single Crystals: Phase Transition and Moisture Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37713-37721.	8.0	20
44	Broadband near-infrared $\text{Cr}^{3+}:\text{I}^2\text{-Ga}_2\text{O}_3$ fluorescent single crystal grown by the EFG method. <i>CrystEngComm</i> , 2020, 22, 7654-7659.	2.6	10
45	Antioxidation and High-Resolution Ultrasonic Temperature Sensor Based on $\text{Cr}^{3+}:\text{MgAl}_2\text{O}_4$ Single Crystal Fiber. <i>Crystal Growth and Design</i> , 2020, 20, 6763-6768.	3.0	4
46	Unravelling the effect of sulfur vacancies on the electronic structure of the MoS_2 crystal. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21776-21783.	2.8	34
47	Layered hybrid lead perovskite single crystals: phase transformations and tunable optical properties. <i>CrystEngComm</i> , 2020, 22, 6310-6315.	2.6	9
48	Anisotropic properties and Raman spectra of a $\text{LiNa}_5\text{Mo}_9\text{O}_{30}$ single crystal grown by the TSSG method. <i>CrystEngComm</i> , 2020, 22, 7716-7722.	2.6	4
49	Nd doped CaYAl_3O_7 : exploration and laser performance of a novel disordered laser crystal. <i>CrystEngComm</i> , 2020, 22, 4723-4729.	2.6	7
50	Enhancing Carrier Transport Properties of Melt-grown CsPbBr_3 Single Crystals by Eliminating Inclusions. <i>Crystal Growth and Design</i> , 2020, 20, 2424-2431.	3.0	35
51	A study on the technical improvement and the crystalline quality optimization of columnar $\text{I}^2\text{-Ga}_2\text{O}_3$ crystal growth by an EFG method. <i>CrystEngComm</i> , 2020, 22, 5060-5066.	2.6	31
52	Fabrication and sensitivity optimization of garnet crystal-fiber ultrasonic temperature sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3830-3837.	5.5	6
53	Bulk Chiral Halide Perovskite Single Crystals for Active Circular Dichroism and Circularly Polarized Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1689-1696.	4.6	98
54	$(1\text{-C}_5\text{H}_{14}\text{N}_2\text{Br})_2\text{MnBr}_4$: A Lead-Free Zero-Dimensional Organic-Metal Halide With Intense Green Photoluminescence. <i>Frontiers in Chemistry</i> , 2020, 8, 352.	3.6	19

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55	Ultrasensitive and Broadband All-Optically Controlled THz Modulator Based on MoTe ₂ /Si van der Waals Heterostructure. <i>Advanced Optical Materials</i> , 2020, 8, 2000160.	7.3	33
56	Anisotropy and in-plane polarization of low-symmetrical $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystal in the deep ultraviolet band. <i>Applied Surface Science</i> , 2020, 527, 146648.	6.1	13
57	Stable highly-efficient white-light emission from panchromatic luminescent aldehyde-based diphenylanthracene derivatives doped with triplet sensitizer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5015-5019.	5.5	6
58	Crystal growth, thermal and optical properties of TSLAG magneto-optical crystals. <i>Journal of Alloys and Compounds</i> , 2019, 805, 496-501.	5.5	13
59	The characteristics of high-quality Yb:YAG single crystal fibers grown by a LHPG method and the effects of their discoloration. <i>RSC Advances</i> , 2019, 9, 22567-22575.	3.6	20
60	Exploring Organic Metal Halides with Reversible Temperature-Responsive Dual-Emissive Photoluminescence. <i>ChemSusChem</i> , 2019, 12, 5228-5232.	6.8	37
61	Crystallographic Investigations into the Polar Polymorphism of BaTeW ₂ O ₉ : Phase Transformation, Controlled Crystallization, and Linear and Nonlinear Optical Properties. <i>Crystal Growth and Design</i> , 2019, 19, 1767-1777.	3.0	17
62	A fractional crystallization technique towards pure mega-size CsPb ₂ Br ₅ single crystal films. <i>CrystEngComm</i> , 2019, 21, 1352-1357.	2.6	11
63	A review of $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystal defects, their effects on device performance and their formation mechanism. <i>Journal of Semiconductors</i> , 2019, 40, 011804.	3.7	67
64	First-principles study of dopant stability and related optical properties in CdSiP ₂ crystal. <i>Journal of Alloys and Compounds</i> , 2019, 802, 310-317.	5.5	2
65	Shedding Light on the Intrinsic Characteristics of 3D Distorted Fluorite-Type Zirconium Tellurite Single Crystals. <i>Inorganic Chemistry</i> , 2019, 58, 7794-7802.	4.0	10
66	Bulk crystal growth and characterization of the bismuth ferrite-based material Bi ₃ FeO ₄ (MoO ₄) ₂ . <i>CrystEngComm</i> , 2019, 21, 2508-2516.	2.6	10
67	Solid-liquid interface optimization and properties of ultra-wide bandgap $\hat{\Gamma}^2$ -Ga ₂ O ₃ grown by Czochralski and EFG methods. <i>CrystEngComm</i> , 2019, 21, 2762-2767.	2.6	20
68	Beta gallium oxide ($\hat{\Gamma}^2$ -Ga ₂ O ₃) nanoelectromechanical transducer for dual-modality solar-blind ultraviolet light detection. <i>APL Materials</i> , 2019, 7, .	5.1	23
69	1D versus 2D cocrystals growth via microspacing in-air sublimation. <i>Nature Communications</i> , 2019, 10, 761.	12.8	99
70	Bulk growth and an efficient mid-IR laser of high-quality Er:YSGG crystals. <i>CrystEngComm</i> , 2019, 21, 1928-1933.	2.6	30
71	Optimized seeded Bridgman growth and temperature dependent THz optical properties of LiInS ₂ crystals. <i>CrystEngComm</i> , 2019, 21, 2614-2619.	2.6	2
72	Investigation into the optimized growth, anisotropic properties and theoretical calculations of the polar material Cs ₂ TeW ₃ O ₁₂ . <i>CrystEngComm</i> , 2019, 21, 2345-2354.	2.6	5

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73	Factors influencing optical uniformity of YAG single-crystal fiber grown by micro-pulling-down technology. <i>CrystEngComm</i> , 2019, 21, 6929-6934.	2.6	9
74	Single Crystal Fibers: Diversified Functional Crystal Material. <i>Advanced Fiber Materials</i> , 2019, 1, 163-187.	16.1	19
75	Investigations into anisotropic properties of the nonlinear optical material CdTeMoO ₆ with quasi-two-dimensional structure. <i>Journal of Alloys and Compounds</i> , 2019, 777, 59-66.	5.5	13
76	Tuning the Solution-Mediated Concomitant Phase Transformation Outcome of the Piroxicam Monohydrate by Two Hydroxyl-Containing Additives: Hydroxypropyl Cellulose and H ₂ O. <i>Crystal Growth and Design</i> , 2019, 19, 583-590.	3.0	9
77	Effect of OH ⁻ on chemical mechanical polishing of $\hat{\Gamma}^2$ -Ga ₂ O ₃ (100) substrate using an alkaline slurry. <i>RSC Advances</i> , 2018, 8, 6544-6550.	3.6	42
78	Tunable Band Gap and Long Carrier Recombination Lifetime of Stable Mixed CH ₃ NH ₃ Pb _{1-x} Sn _x Br ₃ Single Crystals. <i>Chemistry of Materials</i> , 2018, 30, 1556-1565.	6.7	93
79	Tailored fabrication of a prospective acousto-optic crystal TiTe ₃ O ₈ endowed with high performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2443-2451.	5.5	18
80	Characterization of the inhomogeneous barrier distribution in a Pt/(100) $\hat{\Gamma}^2$ -Ga ₂ O ₃ Schottky diode via its temperature-dependent electrical properties. <i>AIP Advances</i> , 2018, 8, .	1.3	56
81	Crystal growth and optimization of Pr:CaGdAlO ₄ by the flux-Czochralski method. <i>CrystEngComm</i> , 2018, 20, 590-596.	2.6	8
82	Controlled Growth of Layered Acentric CdTeMoO ₆ Single Crystals with Linear and Nonlinear Optical Properties. <i>Crystal Growth and Design</i> , 2018, 18, 3376-3384.	3.0	31
83	Insights into the polymorphism of Bi ₂ W ₂ O ₉ : single crystal growth and a complete survey of the variable-temperature thermal and dielectric properties. <i>CrystEngComm</i> , 2018, 20, 2669-2680.	2.6	6
84	Ti-Doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ : A Promising Material for Ultrafast and Tunable Lasers. <i>Crystal Growth and Design</i> , 2018, 18, 3037-3043.	3.0	18
85	Optimizing growth, structure, and elastic-electrical properties of acentric melilite CaYAl ₃ O ₇ crystal. <i>Journal of Alloys and Compounds</i> , 2018, 748, 57-62.	5.5	13
86	Schottky Barrier Rectifier Based on (100) β -Ga ₂ O ₃ and its DC and AC Characteristics. <i>IEEE Electron Device Letters</i> , 2018, 39, 556-559.	3.9	50
87	Narrow band gap and high mobility of lead-free perovskite single crystal Sn-doped MA ₃ Sb ₂ I ₉ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 20753-20759.	10.3	67
88	Optimized oriented seed growth and optical properties of high-quality LiInSe ₂ crystals. <i>CrystEngComm</i> , 2018, 20, 7802-7808.	2.6	10
89	Ultrasensitive photodetectors based on a high-quality LiInSe ₂ single crystal. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12615-12622.	5.5	8
90	Ga ₂ O ₃ Field-Effect-Transistor-Based Solar-Blind Photodetector With Fast Response and High Photo-to-Dark Current Ratio. <i>IEEE Electron Device Letters</i> , 2018, 39, 1696-1699.	3.9	73

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91	Charge compensations of Eu^{2+} and O^{i-2} co-exist in $\text{Eu}^{3+}:\text{CaMoO}_4$ single-crystal fibers grown by the micro-pulling-down method. <i>CrystEngComm</i> , 2018, 20, 6741-6751.	2.6	15
92	Reversible Band Gap Narrowing of Sn^{2+} -Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie</i> , 2018, 130, 15084-15088.	2.0	17
93	Reversible Band Gap Narrowing of Sn^{2+} -Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14868-14872.	13.8	56
94	Rational Design of a LiNbO_3 -like Nonlinear Optical Crystal, $\text{Li}_2\text{ZrTeO}_6$, with High Laser-Damage Threshold and Wide Mid-IR Transparency Window. <i>Journal of the American Chemical Society</i> , 2018, 140, 13089-13096.	13.7	108
95	Defect modulation on $\text{CaZn}_{1-x}\text{Ag}_{1-y}\text{Sb}$ ($0 \leq x \leq 1; 0 \leq y \leq 1$) $\text{Tj ETQq1 1 0.784314 rgBT}$ ($0 \leq T \leq 1$) $\text{Materials Chemistry A}$, 2018, 6, 11773-11782.	10.3	20
96	Visualization of Single-Crystal-to-Single-Crystal Phase Transition of Luminescent Molecular Polymorphs. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15744-15752.	3.1	38
97	Polymorphic Smooth Interfaces Formation Based on the Biphasic $\text{BaTeMo}_2\text{O}_9$ Using Top Multi-Seeded Growth. <i>Crystal Growth and Design</i> , 2018, 18, 5054-5062.	3.0	9
98	Layered hybrid perovskite solar cells based on single-crystalline precursor solutions with superior reproducibility. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2237-2243.	4.9	18
99	Anisotropic Optoelectronic Properties of Melt-Grown Bulk CsPbBr_3 Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5040-5046.	4.6	84
100	Electric-elastic properties of a novel high-quality CdTeMoO_6 piezoelectric crystal. <i>CrystEngComm</i> , 2018, 20, 5602-5608.	2.6	7
101	Laser floating zone growth of improper geometric ferroelectric GdInO_3 single crystals with Z_6 topological defects. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7024-7029.	5.5	11
102	Highly sensitive detection of polarized light using a new group IV-V 2D orthorhombic SiP. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7219-7225.	5.5	44
103	Structure transformation in $\text{Ca}_{1-x}\text{Sr}_x\text{La}_x\text{Ag}_y\text{Sb}$ ($0 \leq x \leq 1; 0 \leq y \leq 1$) $\text{Tj ETQq1 1 0.784314 rgBT}$ ($0 \leq T \leq 1$) $\text{Materials Chemistry A}$, 2018, 6, 11773-11782.	6.0	8
104	C-V and J-V investigation of $\text{HfO}_2/\text{Al}_2\text{O}_3$ bilayer dielectrics MOSCAPs on (100) Ga_2O_3 . <i>AIP Advances</i> , 2018, 8, .	1.3	40
105	Crystal growth and spectral broadening of a promising $\text{Yb}:\text{CaLu}_x\text{Gd}_{1-x}\text{AlO}_4$ disordered crystal for ultrafast laser application. <i>CrystEngComm</i> , 2017, 19, 1643-1647.	2.6	17
106	Characterization and optimization of the growth conditions of a novel $\text{Cs}_2\text{TeW}_3\text{O}_{12}$ piezoelectric crystal. <i>RSC Advances</i> , 2017, 7, 4278-4284.	3.6	4
107	An extended application of $\text{I}^2\text{-Ga}_2\text{O}_3$ single crystals to the laser field: $\text{Cr}^{4+}:\text{I}^2\text{-Ga}_2\text{O}_3$ utilized as a new promising saturable absorber. <i>RSC Advances</i> , 2017, 7, 21815-21819.	3.6	19
108	Defect control in $\text{Ca}_{1-x}\text{Ce}_x\text{Ag}_y\text{Sb}$ ($x \leq 0.15$) through Nb doping. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1113-1119.	6.0	4

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109	High quality crystal growth and anisotropic physical characterization of \hat{I}^2 -Ga ₂ O ₃ single crystals grown by EFG method. Journal of Alloys and Compounds, 2017, 714, 453-458.	5.5	94
110	Defect Chemistry, Phase Transitions, and Thermoelectric Properties of Ca _{1-x} Ce _x Ag _{1-y} Sb (0 ≤ x ≤ 1; 0 ≤ y ≤ 1). Tj ETQq0 0 0 rgB	8.7	16
111	Spectroscopic properties and ultrafast performance of Yb:CaLu ₂ Gd ₂ AlO ₄ crystal. Laser Physics Letters, 2017, 14, 045809.	1.4	5
112	Intrinsic defects and their effects on the optical properties in the nonlinear optical crystal CdSiP ₂ : a first-principles study. Physical Chemistry Chemical Physics, 2017, 19, 9558-9565.	2.8	14
113	The origin of coloration of CaGdAlO ₄ crystals and its effect on their physical properties. CrystEngComm, 2017, 19, 537-545.	2.6	34
114	Controllable seeded flux growth and optoelectronic properties of bulk o-SiP crystals. CrystEngComm, 2017, 19, 6986-6991.	2.6	35
115	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
116	Optimized Growth of Large-Sized LiInSe ₂ Crystals and the Electric-Elastic Properties. Crystal Growth and Design, 2017, 17, 5875-5880.	3.0	13
117	Flux growth and characterization of an FeSi ₄ P ₄ single crystal. RSC Advances, 2017, 7, 47938-47944.	3.6	2
118	\hat{I}^{14} MgBi ₁₁ ($\hat{I} = \text{Ca, Sr, Eu}$): Magnesium Bismuth Based Zintl Phases as Potential Thermoelectric Materials. Inorganic Chemistry, 2017, 56, 10576-10583.	4.0	26
119	One-step exfoliation of ultra-smooth \hat{I}^2 -Ga ₂ O ₃ wafers from bulk crystal for photodetectors. CrystEngComm, 2017, 19, 5122-5127.	2.6	64
120	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
121	Development of longer Nd:LGGG crystal for high power laser application. Journal of Crystal Growth, 2017, 478, 28-32.	1.5	4
122	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
123	An acidic pH fluorescent probe based on Tröger's base. RSC Advances, 2017, 7, 55577-55581.	3.6	20
124	Picosecond mid-infrared optical parametric amplifier based on LiInSe ₂ with tenability extending from 36 to 48 \hat{I}^4 m. Optics Express, 2017, 25, 12860.	3.4	9
125	Biaxial crystal \hat{I}^2 -BaTeMo ₂₀ 9: theoretical analysis and the feasibility as high-efficiency acousto-optic Q-switch. Optics Express, 2017, 25, 24893.	3.4	20
126	Tunable \hat{I}^{12} \hat{I}^4 m picosecond optical parametric amplifier based on a LiInSe ₂ mid-infrared crystal. Optics Letters, 2017, 42, 2098.	3.3	22

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127	Second order nonlinear optical properties of Cs ₂ TeW ₃ O ₁₂ single crystal. Optical Materials Express, 2016, 6, 451.	3.0	17
128	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Top-Seed Solution Growth. Angewandte Chemie, 2016, 128, 3508-3511.	2.0	28
129	Optimized growth and electro-elastic properties of centimeter-sized piezoelectric crystals of Na ₂ TeW ₂ O ₉ . CrystEngComm, 2016, 18, 5313-5319.	2.6	11
130	Recent progress in the synthesis of hybrid halide perovskite single crystals. CrystEngComm, 2016, 18, 4476-4484.	2.6	119
131	Femtosecond solid-state laser based on a few-layered black phosphorus saturable absorber. Optics Letters, 2016, 41, 1945.	3.3	55
132	Crystallographic Investigations into Properties of Acentric Hybrid Perovskite Single Crystals NH(CH ₃) ₃ SnX ₃ (X = Cl, Br). Chemistry of Materials, 2016, 28, 6968-6974.	6.7	92
133	Tuning the Thermoelectric Properties of Ca ₉ Zn ₄ X ₃ Sb ₉ by Controlled Doping on the Interstitial Structure. Chemistry of Materials, 2016, 28, 6917-6924.	6.7	41
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