

Zhongxiang Zhou

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154 papers	2,008 citations	23 h-index	36 g-index
173 ext. papers	2,488 ext. citations	3.6 avg, IF	5.3 L-index

#	Paper	IF	Citations
154	Na ₂ ZnGe ₂ S ₆ : A New Infrared Nonlinear Optical Material with Good Balance between Large Second-Harmonic Generation Response and High Laser Damage Threshold. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7422-8	16.4	205
153	A congruently melting and deep UV nonlinear optical material: Li ₃ Cs ₂ B ₅ O ₁₀ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 2890		92
152	From AgGaS ₂ to Li ₂ ZnSiS ₄ : Realizing Impressive High Laser Damage Threshold Together with Large Second-Harmonic Generation Response. <i>Chemistry of Materials</i> , 2018 , 30, 602-606	9.6	77
151	NaCdGeQ (Q = S, Se): two metal-mixed chalcogenides with phase-matching abilities and large second-harmonic generation responses. <i>Dalton Transactions</i> , 2017 , 46, 2778-2784	4.3	57
150	Structural, electronic, and optical properties of ferroelectric KTa _{1/2} Nb _{1/2} O ₃ solid solutions. <i>Journal of Applied Physics</i> , 2008 , 103, 074113	2.5	52
149	Graphene/g-GeC bilayer heterostructure: Modulated electronic properties and interface contact via external vertical strains and electric fields. <i>Carbon</i> , 2019 , 146, 337-347	10.4	48
148	Novel lithium-nitrogen compounds at ambient and high pressures. <i>Scientific Reports</i> , 2015 , 5, 14204	4.9	48
147	Top-Seeded Solution Growth and Properties of K _{1-x} Na _x NbO ₃ Crystals. <i>Crystal Growth and Design</i> , 2015 , 15, 1180-1185	3.5	48
146	BaB ₂ S ₄ : An Efficient and Air-Stable Thioborate as Infrared Nonlinear Optical Material with High Laser Damage Threshold. <i>Chemistry of Materials</i> , 2018 , 30, 7428-7432	9.6	45
145	ZnO/g-GeC van der Waals heterostructure: novel photocatalyst for small molecule splitting. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4791-4799	7.1	39
144	Structure and Piezoelectric Properties of Fe-Doped Potassium Sodium Niobate Tantalate Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2489-2493	3.8	37
143	Ultra-large electric field-induced strain in potassium sodium niobate crystals. <i>Science Advances</i> , 2020 , 6, eaay5979	14.3	35
142	A water splitting photocatalysis: Blue phosphorus/g-GeC van der Waals heterostructure. <i>Applied Physics Letters</i> , 2019 , 114, 093902	3.4	34
141	Normal incidence filters using symmetry-protected modes in dielectric subwavelength gratings. <i>Scientific Reports</i> , 2016 , 6, 36066	4.9	34
140	The propagation of radially polarized partially coherent beam through an optical system in turbulent atmosphere. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 101, 361-369	1.9	31
139	Dielectric, piezoelectric, and elastic properties of K _{0.8} Na _{0.2} NbO ₃ single crystals. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9609-9614	7.1	30
138	Propagation of broadband terahertz pulses through a dense-magnetized-collisional-bounded plasma layer. <i>Physics of Plasmas</i> , 2010 , 17, 113304	2.1	30

137	Field-driven electro-optic dynamics of polar nanoregions in nanodisordered $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ crystal. <i>Applied Physics Letters</i> , 2017 , 111, 012903	3.4	28
136	Double-loop hysteresis in tetragonal $\text{KTa}_{0.58}\text{Nb}_{0.42}\text{O}_3$ correlated to recoverable reorientations of the asymmetric polar domains. <i>Applied Physics Letters</i> , 2015 , 106, 102903	3.4	27
135	Dynamic response of polar nanoregions under an electric field in a paraelectric $\text{KTa}_{0.61}\text{Nb}_{0.39}\text{O}_3$ single crystal near the para-ferroelectric phase boundary. <i>Scientific Reports</i> , 2015 , 5, 13751	4.9	26
134	Variable gradient refractive index engineering: design, growth and electro-deflective application of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10968-10973	7.1	25
133	$\text{M}_2\text{Cd}_3\text{B}_{16}\text{O}_{28}$ (M = Rb, Cs): Two Isostructural Alkali Cadmium Borates with a New Type of Borate Layer. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 203-207	2.3	25
132	Growth and optical properties of paraelectric $\text{K}_{1-y}\text{Na}_y\text{Ta}_{1-x}\text{Nb}_x\text{O}_3$ single crystals. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 91, 75-78	1.9	23
131	Effects of Growth Temperature on Crystal Morphology and Size Uniformity in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ and $\text{K}_{1-y}\text{Na}_y\text{NbO}_3$ Single Crystals. <i>Crystal Growth and Design</i> , 2016 , 16, 325-330	3.5	21
130	Impact of polar nanoregions on the quadratic electro-optic effect in $\text{K}_{0.95}\text{Na}_{0.05}\text{Ta}_{1-x}\text{Nb}_x\text{O}_3$ crystals near the Curie temperature. <i>Applied Physics Express</i> , 2014 , 7, 062601	2.4	21
129	Ferromagnetic antiphase domain boundary in Mn-doped hexagonal BaTiO_3 multiferroics. <i>Applied Physics Letters</i> , 2013 , 102, 242910	3.4	21
128	Effects of ionization distribution on plasma beam focusing characteristics in Hall thrusters. <i>Applied Physics Letters</i> , 2011 , 99, 221502	3.4	21
127	Role of finite-size effect in BiFeO_3 nanoparticles to enhance ferromagnetism and microwave absorption. <i>Applied Physics Letters</i> , 2020 , 116, 013103	3.4	21
126	Propagation of Gaussian laser beam in cold plasma of Drude model. <i>Physics of Plasmas</i> , 2011 , 18, 113105	2.1	20
125	Frequency Dependent Electro-Optic Properties of Potassium Lithium Tantalate Niobate Single Crystal. <i>Ferroelectrics</i> , 2011 , 425, 82-89	0.6	19
124	Strain-Gradient-Controlled Disorder Dynamics in Chemically Substituted Ferroelectrics. <i>Physical Review Applied</i> , 2019 , 11,	4.3	19
123	Numerical and Experimental Diagnostics of Dusty Plasma in a Coaxial Gridded Hollow Cathode Discharge. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 2973-2978	1.3	18
122	Origin of giant piezoelectric effect in lead-free $\text{K}_{1-x}\text{Na}_x\text{Ta}_{1-y}\text{Nb}_y\text{O}_3$ single crystals. <i>Scientific Reports</i> , 2016 , 6, 25637	4.9	18
121	A review on the development of infrared nonlinear optical materials with triangular anionic groups. <i>Journal of Solid State Chemistry</i> , 2019 , 271, 266-272	3.3	18
120	A review of the ABCD family as infrared nonlinear optical materials: the effect of each site on the structure and optical properties. <i>Chemical Communications</i> , 2020 , 56, 11565-11576	5.8	17

- 119 Temperature field driven polar nanoregions in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. *Applied Physics Letters*, **2016**, 109, 252904 3.4 17
- 118 Large Room Temperature Electrocaloric Effect in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ Single Crystal. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800515 2.5 17
- 117 $\text{Na}_2\text{Cd}_7\text{B}_8\text{O}_{20}$: a new noncentrosymmetric compound with special $[\text{B}_3\text{O}_7]$ units. *CrystEngComm*, **2013**, 15, 3412 3.3 16
- 116 Spectroscopic and upconversion properties of erbium-doped potassium lithium tantalate niobate crystals under 800 nm femtosecond laser excitation. *Journal of Applied Physics*, **2010**, 108, 043520 2.5 16
- 115 A High Laser Damage Threshold and a Good Second-Harmonic Generation Response in a New Infrared NLO Material: $\text{LiSm}_3\text{SiS}_7$. *Crystals*, **2016**, 6, 121 2.3 16
- 114 Lightweight Composite Microwave Absorbing Materials Based on Graphene Aerogels with Honeycomb Structure. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1900179 2.5 15
- 113 Propagation of terahertz waves in an atmospheric pressure microplasma with Epstein electron density profile. *Journal of Applied Physics*, **2011**, 109, 063305 2.5 15
- 112 Influence of dust particles on positive column of DC glow discharge. *Journal of Applied Physics*, **2018**, 123, 103301 2.5 14
- 111 Investigation on photocatalytic mechanism of graphitic SiC (g-SiC)/MoS van der Waals heterostructured photocatalysts for overall water splitting. *Physical Chemistry Chemical Physics*, **2019**, 21, 15372-15379 3.6 14
- 110 Dynamic Evolution of Polar Regions in $\text{KTa}_{0.56}\text{Nb}_{0.44}\text{O}_3$ near the Para-Ferroelectric Phase Transition. *Crystal Growth and Design*, **2019**, 19, 1041-1047 3.5 14
- 109 Piezoelectric properties of the lead-free $\text{K}_{0.95}\text{Li}_{0.05}\text{Ta}_{0.61}\text{Nb}_{0.39}\text{O}_3$ single crystal. *Journal Physics D: Applied Physics*, **2009**, 42, 125405 3 14
- 108 Effect of octahedron tilt on the structure and magnetic properties of bismuth ferrite. *Journal of Advanced Ceramics*, **2020**, 9, 641-646 10.7 14
- 107 High-quality $\text{K}_{0.47}\text{Na}_{0.53}\text{NbO}_3$ single crystal toward high performance transducer. *RSC Advances*, **2017**, 7, 7003-7007 3.7 13
- 106 Theoretical Insights into Two-Dimensional IV-V Compounds: Photocatalysts for the Overall Water Splitting and Nanoelectronic Applications. *Inorganic Chemistry*, **2019**, 58, 12053-12068 5.1 13
- 105 LiCdSiS , a promising IR NLO material with a balanced E and SHG response originating from the effect of Cd with d configuration. *Dalton Transactions*, **2020**, 49, 1975-1980 4.3 13
- 104 Investigation of Low-Pressure Glow Discharge in a Coaxial Gridded Hollow Cathode. *IEEE Transactions on Plasma Science*, **2016**, 44, 2965-2972 1.3 13
- 103 Influence of dust particles on DC glow discharge plasma. *Physics of Plasmas*, **2018**, 25, 023701 2.1 12
- 102 Ambipolar field role in formation of electron distribution function in gas discharge plasma. *Scientific Reports*, **2017**, 7, 14613 4.9 12

101	Electrical Properties of Lead-free Niobium Rich Piezoelectric (K _{0.95} Li _{0.05}) (Ta _{1-x} Nb _x) O ₃ Single Crystals. <i>Integrated Ferroelectrics</i> , 2011 , 130, 65-72	0.8	12
100	Incoherently coupled bright-dark hybrid soliton families in biased photovoltaic-photorefractive crystals. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 72, 191-194	1.9	12
99	Determining the spectrum of penning electrons by current to a wall probe in nonlocal negative glow plasma. <i>Physics of Plasmas</i> , 2018 , 25, 104501	2.1	12
98	Defect dipole evolution and its impact on the ferroelectric properties of Fe-doped KTN single crystals. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3117-3122	3.8	11
97	Enhanced ferroelectricity and magnetism of quenched (1-x)BiFeO ₃ -xBaTiO ₃ ceramics. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 511-516	10.7	11
96	The Effect of Composition Gradient on Microdomain Structure and the Macro-Ferroelectric/Piezoelectric Properties. <i>Crystal Growth and Design</i> , 2019 , 19, 5362-5368	3.5	11
95	The novel two-dimensional photocatalyst SnN with enhanced visible-light absorption for overall water splitting. <i>Nanoscale</i> , 2019 , 11, 18628-18639	7.7	11
94	Formation of inverse electron distribution function and absolute negative conductivity in nonlocal plasma of a dc glow discharge. <i>Physical Review E</i> , 2020 , 101, 031202	2.4	10
93	The quantum dusty magnetosonic solitary wave in magnetized plasma. <i>Physics of Plasmas</i> , 2012 , 19, 013704	10.4	10
92	Computational Screening of High Activity and Selectivity TM/g-CN Single-Atom Catalysts for Electrocatalytic Reduction of Nitrates to Ammonia. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11143-11150	6.4	10
91	Probe Diagnostics of Plasma Parameters in a Large-Volume Glow Discharge With Coaxial Gridded Hollow Electrodes. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 3110-3113	1.3	9
90	1D photonic crystal filled with low-temperature plasma for controlling broadband microwave transmission. <i>AIP Advances</i> , 2019 , 9, 065302	1.5	9
89	Improvement of anti-fatigued strain in KTN-based single crystals with regular periodic hierarchical domain structure. <i>Applied Physics Letters</i> , 2019 , 115, 172901	3.4	9
88	Good temperature stability and high piezoelectric properties of pure and La-doped tetragonal (K _{0.45} Na _{0.55}) _{0.94} Li _{0.06} (Ta _x Nb _{1-x})O ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4185-4192	6.1	9
87	Impact of dipolar clusters on electro-optic effects in KTa NbO crystal. <i>Optics Letters</i> , 2018 , 43, 5009-5012	1.3	9
86	Numerical simulation and analysis of electromagnetic-wave absorption of a plasma slab created by a direct-current discharge with gridded anode. <i>Journal of Applied Physics</i> , 2018 , 123, 113303	2.5	8
85	Microstructure and piezoelectric properties of NaF-doped K _{0.5} Na _{0.5} Nb _{0.95} Ta _{0.05} O ₃ lead-free ceramics. <i>Journal of Materials Science</i> , 2013 , 48, 1396-1400	4.3	8
84	Na ₂ ZnSn ₂ S ₆ : A mixed-metal thioostannate with large second-harmonic generation response activated by penta-tetrahedral [ZnSn ₄ S ₁₄] ¹⁰⁺ clusters. <i>Science China Technological Sciences</i> , 2017 , 60, 1465-1472	3.5	7

- 83 On self-sustainment of DC discharges with gridded anode. *Journal of Applied Physics*, **2017**, 122, 143304 2.5 7
- 82 Electro-optic evolution driven by static and relaxational nano ferroelectric domains in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. *Journal of Materials Chemistry C*, **2020**, 8, 3235-3239 7.1 7
- 81 Discovery and evolution of double P-E loops in a tetragonal Fe-doped $\text{KTa}_{0.57}\text{Nb}_{0.43}\text{O}_3$ single crystal. *Journal of the American Ceramic Society*, **2018**, 101, 3755-3760 3.8 7
- 80 Laser-diode-pumped Nd:YVO₄/Nd:YAG MOPA burst-mode laser. *Optical Review*, **2017**, 24, 611-616 0.9 7
- 79 Synthesis, structure, and properties of the non-centrosymmetric borate $\text{Rb}_2\text{CaB}_8\text{O}_{26}\text{H}_{24}$. *Journal of Materials Science*, **2011**, 46, 7443-7448 4.3 7
- 78 Modulational instability of dust acoustic waves in dusty plasmas with ultraviolet irradiation and nonadiabatic dust charge variation. *Physics of Plasmas*, **2009**, 16, 033706 2.1 7
- 77 Large negative and positive lateral shift on reflection from a left-handed prism coated with a weakly absorbing dielectric film. *Applied Physics B: Lasers and Optics*, **2010**, 99, 513-517 1.9 7
- 76 Strain engineering on the electrical properties and photocatalytic activity in gold sulfide monolayer. *Applied Surface Science*, **2021**, 546, 149066 6.7 7
- 75 Structure, microstructure, and piezoelectric properties of ytterbium-doped potassium sodium niobate lead-free ceramics. *Electronic Materials Letters*, **2013**, 9, 649-654 2.9 6
- 74 The effects of nonadiabatic dust charge variation and ultraviolet irradiation on the modulational instability of dust ion acoustic waves. *Physics of Plasmas*, **2010**, 17, 113701 2.1 6
- 73 Photovoltaic properties in an orthorhombic Fe doped KTN single crystal. *Optics Express*, **2020**, 28, 34754-34760 3.9 6
- 72 Influence of the Spatial Distribution of the Dust Particle Density on the Radial Profile Formation of Particles and Fluxes in a Dusty Plasma of DC Glow Discharge. *IEEE Transactions on Plasma Science*, **2020**, 48, 375-387 1.3 6
- 71 Improving strain in single crystal by composition-gradients design. *Acta Materialia*, **2020**, 200, 24-34 8.4 6
- 70 Controllable anisotropic characteristics in solid solution ferroelectrics. *CrystEngComm*, **2019**, 21, 7002-7010 3.9 6
- 69 Ultrahigh-Q and Polarization-Independent Terahertz Metamaterial Perfect Absorber. *Plasmonics*, **2020**, 15, 1943-1947 2.4 5
- 68 Colossal Dielectric Behavior and Dielectric Relaxation of (Li, Fe) Co-Doped ZnO Ceramics. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1800126 2.5 5
- 67 A First Principles Study of Ferroelectricity and Magnetism Coexisting in Fe-Doped $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$. *Journal of Electronic Materials*, **2018**, 47, 5773-5779 1.9 5
- 66 The terahertz characteristics of a sandwich type microplasma structure. *Journal of Applied Physics*, **2013**, 114, 123302 2.5 5

65	LiGeSe: the first ternary lithium germanium selenide with interesting [GeSe] chains constructed by ethane-like [GeSe] clusters. <i>Dalton Transactions</i> , 2017 , 46, 16399-16403	4.3	5
64	Large electrostrictive effect in K _{0.99} Li _{0.01} Ta _{1-x} Nb _x O ₃ lead-free single crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2291-2294	1.6	5
63	High-peak-power, high-repetition-rate LD end-pumped Nd:YVO ₄ burst mode laser. <i>Optical Review</i> , 2016 , 23, 386-390	0.9	5
62	Ba(BSS)S: a new thioborate with unprecedented [BS-S] and [S] fundamental building blocks. <i>Chemical Communications</i> , 2019 , 55, 14793-14796	5.8	5
61	Boosting the photon absorption, exciton dissociation, and photocatalytic hydrogen- and oxygen-evolution reactions by built-in electric fields in Janus platinum dichalcogenides. <i>Journal of Materials Chemistry C</i> ,	7.1	5
60	Manganese-doping enhanced local heterogeneity and piezoelectric properties in potassium tantalate niobate single crystals. <i>IUCrJ</i> , 2021 , 8, 319-326	4.7	5
59	Influence of metastable atoms on the formation of nonlocal EDF, electron reaction rates, and transport coefficients in argon plasma. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 035017	3.5	4
58	Vortex electron flux and EDF nonlocality of moderate and high-pressure gas discharge plasmas. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 045007	3.5	4
57	From LaAlO ₃ /SrTiO ₃ to LaAlO ₃ /KNbO ₃ : Improving the transport properties of two-dimensional electronic gas in created +1/+1 interfaces. <i>Computational Materials Science</i> , 2019 , 156, 286-291	3.2	4
56	Formation of inverse EDF in glow discharges with an inhomogeneous electric field. <i>Plasma Sources Science and Technology</i> , 2021 , 30, 095006	3.5	4
55	[Ge S (S)], A NLO-Active Unit Leading to an Asymmetric Structure Discovered in Li Cs Ge S (S)Cl: An Experimental and Theoretical study. <i>Chemistry - A European Journal</i> , 2019 , 25, 5440-5444	4.8	3
54	The nonlocal electron kinetics for a low-pressure glow discharge dusty plasma. <i>Physics of Plasmas</i> , 2018 , 25, 053702	2.1	3
53	Nonlocal control of plasma conductivity. <i>Physics of Plasmas</i> , 2019 , 26, 073301	2.1	3
52	Structure, piezoelectric performance and liquid phase aid sintering of SiO ₂ doped (K _{0.5} Na _{0.5}) NbO ₃ lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 17363-17369	2.1	3
51	Origin of the dielectric abnormalities and tunable dielectric properties in doped KTN single crystals. <i>Applied Physics Letters</i> , 2017 , 111, 242902	3.4	3
50	Propagation characteristics of a Gaussian laser beam in plasma with modulated collision frequency. <i>Physics of Plasmas</i> , 2012 , 19, 083114	2.1	3
49	Paschen curves and current-voltage characteristics of large-area short glow discharge with different electrode structures. <i>Physics of Plasmas</i> , 2020 , 27, 123509	2.1	3
48	Controllable Gradient in the Composition of a Ferroelectric Single Crystal. <i>Crystal Growth and Design</i> , 2020 , 20, 449-453	3.5	3

47	The Influence of Plasma Distribution on Microwave Reflection in a Plasma-Metal Model. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 359-363	1.3	3
46	A method of electron density of positive column diagnosis combining machine learning and Langmuir probe. <i>AIP Advances</i> , 2021 , 11, 045028	1.5	3
45	Calculation of nonlocal EDF using a one-dimensional Boltzmann equation solver. <i>Physics of Plasmas</i> , 2019 , 26, 023509	2.1	3
44	Effects of Non-Maxwellian Electron Distribution Function to the Propagation Coefficients of Electromagnetic Waves in Plasma. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 100-103	1.3	3
43	Influence of Discharge Current, Pressure, and Magnetic Field on the Spatial Distribution of Particles and Fluxes in the Dusty Plasma of the Positive Column of DC Glow Discharge. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 878-885	1.3	3
42	A Compact YAG/Nd:YAG/Cr:YAG Passively Q-Switched Pulse Burst Laser Pumped by 885 nm Laser Diode. <i>Journal of Russian Laser Research</i> , 2017 , 38, 387-391	0.7	2
41	Analysis and optimization of microwave reflections in a plasma-metal model. <i>Journal of Applied Physics</i> , 2019 , 125, 163306	2.5	2
40	Efficient Band Gap Engineering and Enhanced Optical Absorption of Vertical Germanene/h-AlN Bilayer Heterostructure: Potential New Electronics and Optoelectronics. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800759	1.3	2
39	Two-dimensional electron gas in the KNbO ₃ :Y ultrathin film. <i>Journal of Materials Science</i> , 2015 , 50, 74-78	4.3	2
38	Ultra-high piezoresponse in tantalum doped potassium sodium niobate single crystal. <i>Applied Physics Letters</i> , 2020 , 116, 112902	3.4	2
37	Boundary conditions for drift-diffusion equations in gas-discharge plasmas. <i>Physics of Plasmas</i> , 2020 , 27, 013505	2.1	2
36	The Influence of the Ambipolar Field on the Levitation Conditions of Dust Particles in the Positive Column of the Glow Discharge With a Change the Spatial Orientation of the Discharge Tube. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 4391-4395	1.3	2
35	Strong electromechanical coupling in paraelectric KTa _{1-x} Nb _x O ₃ crystals. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5220-5225	3.8	2
34	Elastic, piezoelectric, and dielectric properties of high-quality KTa _{0.53} Nb _{0.47} O ₃ single crystal with tetragonal phase. <i>Journal of Alloys and Compounds</i> , 2019 , 773, 21-26	5.7	2
33	Effects of Mn-doping on anti-fatigue and anti-leakage current characteristics in KNN single crystals. <i>Applied Physics Letters</i> , 2021 , 118, 042903	3.4	2
32	Control of photorefractive space-charge field and its deflection application in Mn-doped KTa _{1-x} Nb _x O ₃ crystal. <i>New Journal of Physics</i> , 2021 , 23, 013014	2.9	2
31	Rational design direct Z-scheme EGeSe/HfS ₂ heterostructure by interfacial engineering: Efficient photocatalyst for overall water splitting in the wide solar spectrum. <i>Applied Surface Science</i> , 2022 , 589, 153025	6.7	2
30	Local Magnetic Control in a Large-Scale Low-Pressure Nonlocal Plasma Source. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 3114-3117	1.3	1

29	The smooth effect of fast electron detection in the positive column in DC glow discharge. <i>AIP Advances</i> , 2019 , 9, 095033	1.5	1
28	Measurement of the densities of plasma and ambient gas particles using a short direct current discharge. <i>Physics of Plasmas</i> , 2020 , 27, 053508	2.1	1
27	Piezoelectric properties of tetragonal $K_{0.95}Li_{0.05}Ta_{1-x}Nb_xO_3$ lead-free single crystals near tetragonal-cubic phase transition boundary. <i>Phase Transitions</i> , 2012 , 85, 523-529	1.3	1
26	Mode Characteristics of the Strongly Anisotropic α -Axis Single-Crystal Fiber. <i>Journal of Lightwave Technology</i> , 2009 , 27, 2989-2999	4	1
25	Spectral studies on erbium doped potassium lithium tantalate niobate single crystal grown by the step-cooling technique. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 101, 193-197	1.9	1
24	Conductivity and Permittivity in Plasma With Nonequilibrium Electron Distribution Function. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 388-393	1.3	1
23	Bi-component symbiotic crystal. <i>Applied Physics Letters</i> , 2020 , 117, 092901	3.4	1
22	The Possibility of Measuring Electron Density of Plasma at Atmospheric Pressure by a Microwave Cavity Resonance Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 1001-1008	1.3	1
21	Features of the EEDF formation in the dusty plasma of the positive column of a glow discharge. <i>Plasma Sources Science and Technology</i> , 2021 , 30, 047001	3.5	1
20	Measurement of Microwave Propagation in Weakly Ionized Dusty Plasma. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 109-112	1.3	1
19	Structural, dielectric, ferroelectric, and ferromagnetic properties of multiferroic ceramics $(1-x)Ba(Zr_{0.2}Ti_{0.8})O_{3-x}Ba_{0.7}Ca_{0.3}FeTaO_5$. <i>Ferroelectrics</i> , 2018 , 534, 164-171	0.6	1
18	Significantly enhanced photocatalytic performance of the N-doped GeP ₃ monolayer: A first-principles study. <i>Applied Surface Science</i> , 2021 , 566, 150628	6.7	1
17	Low magnetic-field induced high temperature dynamic magnetoelectric coupling performances in Z-type $Sr_3Co_2Fe_{24}O_{41}$. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	1
16	A kinetic model for investigating the dielectric properties of rocket exhaust dusty plasmas. <i>Physics of Plasmas</i> , 2019 , 26, 043704	2.1	0
15	The structure and optical properties of lead-free transparent KNLTN-La _{0.01} ceramics prepared by conventional sintering technique. <i>Materials Science-Poland</i> , 2014 , 32, 597-603	0.6	0
14	A neutron diffraction investigation of high valent doped barium ferrite with wideband tunable microwave absorption. <i>Journal of Advanced Ceramics</i> , 2022 , 11, 263-272	10.7	0
13	Enhanced fatigue resistance and lattice dynamics induced by the strong local strain in Fe-doped $KTa_{1-x}Nb_xO_3$ single crystals. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 142-149	7.1	0
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11	Na ⁺ /Ag ⁺ substitution induced birefringence enhancement from AgGaS ₂ to NaGaS ₂ . <i>Journal of Alloys and Compounds</i> , 2022 , 896, 163093	5.7	o
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8	Propagation characters of multi-Gaussian beam with large eccentric displacement in collisionless plasma: Higher order paraxial theory. <i>Physics of Plasmas</i> , 2017 , 24, 062306	2.1	
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