

# Zhongxiang Zhou

## List of Publications by Year in Descending Order

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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	Attenuation of Microwave Radiation by Post-Anode Plasma in a Composite Grid Electrode Structure. <i>IEEE Access</i> , <b>2022</b> , 10, 7675-7683	3.5	
153	A neutron diffraction investigation of high valent doped barium ferrite with wideband tunable microwave absorption. <i>Journal of Advanced Ceramics</i> , <b>2022</b> , 11, 263-272	10.7	0
152	Novel 2D HfTeS <sub>4</sub> for water splitting with high visible-light absorption. <i>Applied Surface Science</i> , <b>2022</b> , 578, 151992	6.7	0
151	Na <sup>+</sup> /Ag <sup>+</sup> substitution induced birefringence enhancement from AgGaS <sub>2</sub> to NaGaS <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 896, 163093	5.7	0
150	Specificities of the Nonlocal EDF Formation in a Dusty Plasma With the Different Spatial Distribution of the Microparticle Density. <i>IEEE Transactions on Plasma Science</i> , <b>2022</b> , 1-8	1.3	0
149	Rational design direct Z-scheme Bi <sub>2</sub> Se <sub>3</sub> /HfS <sub>2</sub> heterostructure by interfacial engineering: Efficient photocatalyst for overall water splitting in the wide solar spectrum. <i>Applied Surface Science</i> , <b>2022</b> , 589, 153025	6.7	2
148	Microwave Diagnostics of Cold Atmospheric Pressure Plasma Jets Based on the Radiation Pattern Measurements. <i>IEEE Transactions on Plasma Science</i> , <b>2022</b> , 1-6	1.3	
147	Enhanced fatigue resistance and lattice dynamics induced by the strong local strain in Fe-doped KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> single crystals. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 10, 142-149	7.1	0
146	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> , <b>2021</b> , 12, 11143-11150	6.4	10
145	The Possibility of Measuring Electron Density of Plasma at Atmospheric Pressure by a Microwave Cavity Resonance Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 49, 1001-1008	1.3	1
144	A method of electron density of positive column diagnosis combining machine learning and Langmuir probe. <i>AIP Advances</i> , <b>2021</b> , 11, 045028	1.5	3
143	Features of the EEDF formation in the dusty plasma of the positive column of a glow discharge. <i>Plasma Sources Science and Technology</i> , <b>2021</b> , 30, 047001	3.5	1
142	Strain engineering on the electrical properties and photocatalytic activity in gold sulfide monolayer. <i>Applied Surface Science</i> , <b>2021</b> , 546, 149066	6.7	7
141	Ambipolar Trap for Dust Particles in a V-Shaped Homogeneous Positive Column of Glow Discharge at Low and Medium Pressures. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 49, 997-1000	1.3	
140	Effects of Mn-doping on anti-fatigue and anti-leakage current characteristics in KNN single crystals. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 042903	3.4	2
139	Control of photorefractive space-charge field and its deflection application in Mn-doped KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> crystal. <i>New Journal of Physics</i> , <b>2021</b> , 23, 013014	2.9	2
138	Manganese-doping enhanced local heterogeneity and piezoelectric properties in potassium tantalate niobate single crystals. <i>IUCrJ</i> , <b>2021</b> , 8, 319-326	4.7	5

137	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> , <b>2021</b> , 49, 878-885	1.3	3
136	Formation of inverse EDF in glow discharges with an inhomogeneous electric field. <i>Plasma Sources Science and Technology</i> , <b>2021</b> , 30, 095006	3.5	4
135	Significantly enhanced photocatalytic performance of the N-doped GeP3 monolayer: A first-principles study. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150628	6.7	1
134	Low magnetic-field induced high temperature dynamic magnetoelectric coupling performances in Z-type Sr3Co2Fe24O41. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> ,	1.8	1
133	Measurement of the densities of plasma and ambient gas particles using a short direct current discharge. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 053508	2.1	1
132	Ultra-high piezoresponse in tantalum doped potassium sodium niobate single crystal. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 112902	3.4	2
131	Formation of inverse electron distribution function and absolute negative conductivity in nonlocal plasma of a dc glow discharge. <i>Physical Review E</i> , <b>2020</b> , 101, 031202	2.4	10
130	Ultrahigh-Q and Polarization-Independent Terahertz Metamaterial Perfect Absorber. <i>Plasmonics</i> , <b>2020</b> , 15, 1943-1947	2.4	5
129	Enhanced ferroelectricity and magnetism of quenched (1-x)BiFeO3-xBaTiO3 ceramics. <i>Journal of Advanced Ceramics</i> , <b>2020</b> , 9, 511-516	10.7	11
128	Electro-optic evolution driven by static and relaxational nano ferroelectric domains in KTa1-xNbxO3. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3235-3239	7.1	7
127	Boundary conditions for drift-diffusion equations in gas-discharge plasmas. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 013505	2.1	2
126	Ultra-large electric field-induced strain in potassium sodium niobate crystals. <i>Science Advances</i> , <b>2020</b> , 6, eaay5979	14.3	35
125	Photovoltaic properties in an orthorhombic Fe doped KTN single crystal. <i>Optics Express</i> , <b>2020</b> , 28, 34754-34760	3.5	3
124	Paschen curves and current-voltage characteristics of large-area short glow discharge with different electrode structures. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 123509	2.1	3
123	Role of finite-size effect in BiFeO3 nanoparticles to enhance ferromagnetism and microwave absorption. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 013103	3.4	21
122	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. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 375-387	1.3	6
121	Controllable Gradient in the Composition of a Ferroelectric Single Crystal. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 449-453	3.5	3
120	The Influence of Plasma Distribution on Microwave Reflection in a Plasma-Metal Model. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 359-363	1.3	3

119	Conductivity and Permittivity in Plasma With Nonequilibrium Electron Distribution Function. <i>IEEE Transactions on Plasma Science</i> , <b>2020</b> , 48, 388-393	1.3	1
118	LiCdSiS, a promising IR NLO material with a balanced E and SHG response originating from the effect of Cd with d configuration. <i>Dalton Transactions</i> , <b>2020</b> , 49, 1975-1980	4.3	13
117	Bi-component symbiotic crystal. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 092901	3.4	1
116	Improving strain in single crystal by composition-gradients design. <i>Acta Materialia</i> , <b>2020</b> , 200, 24-34	8.4	6
115	Laser Deflector Based on Electric-Field-Induced Strain of Manganese-Doped Potassium Tantalate-Niobate Single Crystals. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 8053-8058	3.5	
114	Effect of octahedron tilt on the structure and magnetic properties of bismuth ferrite. <i>Journal of Advanced Ceramics</i> , <b>2020</b> , 9, 641-646	10.7	14
113	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> , <b>2020</b> , 56, 11565-11576	5.8	17
112	Theoretical Insights into Two-Dimensional IV-V Compounds: Photocatalysts for the Overall Water Splitting and Nanoelectronic Applications. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12053-12068	5.1	13
111	The smooth effect of fast electron detection in the positive column in DC glow discharge. <i>AIP Advances</i> , <b>2019</b> , 9, 095033	1.5	1
110	Defect dipole evolution and its impact on the ferroelectric properties of Fe-doped KTN single crystals. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 3117-3122	3.8	11
109	1D photonic crystal filled with low-temperature plasma for controlling broadband microwave transmission. <i>AIP Advances</i> , <b>2019</b> , 9, 065302	1.5	9
108	Analysis and optimization of microwave reflections in a plasma-metal model. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 163306	2.5	2
107	A kinetic model for investigating the dielectric properties of rocket exhaust dusty plasmas. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 043704	2.1	0
106	Lightweight Composite Microwave Absorbing Materials Based on Graphene Aerogels with Honeycomb Structure. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900179	2.5	15
105	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> , <b>2019</b> , 256, 1800759	1.3	2
104	A water splitting photocatalysis: Blue phosphorus/g-GeC van der Waals heterostructure. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 093902	3.4	34
103	[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> , <b>2019</b> , 25, 5440-5444	4.8	3
102	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> , <b>2019</b> , 28, 035017	3.5	4

101	ZnO/g-GeC van der Waals heterostructure: novel photocatalyst for small molecule splitting. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4791-4799	7.1	39
100	LD End-Pumped Doubly Q-Switched Nd:YAG 946 nm Laser. <i>Journal of Russian Laser Research</i> , <b>2019</b> , 40, 100-104	0.7	
99	Graphene/g-GeC bilayer heterostructure: Modulated electronic properties and interface contact via external vertical strains and electric fields. <i>Carbon</i> , <b>2019</b> , 146, 337-347	10.4	48
98	The Effect of Composition Gradient on Microdomain Structure and the Macro-Ferroelectric/Piezoelectric Properties. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 5362-5368	3.5	11
97	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> , <b>2019</b> , 47, 4391-4395	1.3	2
96	Nonlocal control of plasma conductivity. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 073301	2.1	3
95	Investigation on photocatalytic mechanism of graphitic SiC (g-SiC)/MoS van der Waals heterostructured photocatalysts for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 15372-15379	3.6	14
94	Improvement of anti-fatigued strain in KTN-based single crystals with regular periodic hierarchical domain structure. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 172901	3.4	9
93	Dynamic Evolution of Polar Regions in KTa <sub>0.56</sub> Nb <sub>0.44</sub> O <sub>3</sub> near the Para-Ferroelectric Phase Transition. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1041-1047	3.5	14
92	Calculation of nonlocal EDF using a one-dimensional Boltzmann equation solver. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 023509	2.1	3
91	Strain-Gradient-Controlled Disorder Dynamics in Chemically Substituted Ferroelectrics. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	19
90	Ba(BSS)S: a new thioborate with unprecedented [BS-S] and [S] fundamental building blocks. <i>Chemical Communications</i> , <b>2019</b> , 55, 14793-14796	5.8	5
89	Controllable anisotropic characteristics in solid solution ferroelectrics. <i>CrystEngComm</i> , <b>2019</b> , 21, 7002-7010	5.1	6
88	The novel two-dimensional photocatalyst SnN with enhanced visible-light absorption for overall water splitting. <i>Nanoscale</i> , <b>2019</b> , 11, 18628-18639	7.7	11
87	Elastic, piezoelectric, and dielectric properties of high-quality KTa <sub>0.53</sub> Nb <sub>0.47</sub> O <sub>3</sub> single crystal with tetragonal phase. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 21-26	5.7	2
86	Effects of Non-Maxwellian Electron Distribution Function to the Propagation Coefficients of Electromagnetic Waves in Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 100-103	1.3	3
85	Measurement of Microwave Propagation in Weakly Ionized Dusty Plasma. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 109-112	1.3	1
84	A review on the development of infrared nonlinear optical materials with triangular anionic groups. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 271, 266-272	3.3	18

83	Large Room Temperature Electrocaloric Effect in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ Single Crystal. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800515	2.5	17
82	From $\text{LaAlO}_3/\text{SrTiO}_3$ to $\text{LaAlO}_3/\text{KNbO}_3$ : Improving the transport properties of two-dimensional electronic gas in created +1/+1 interfaces. <i>Computational Materials Science</i> , <b>2019</b> , 156, 286-291	3.2	4
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. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3755-3760	3.8	7
80	Colossal Dielectric Behavior and Dielectric Relaxation of (Li, Fe) Co-Doped ZnO Ceramics. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1800126	2.5	5
79	Influence of dust particles on DC glow discharge plasma. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 023701	2.1	12
78	From $\text{AgGaS}_2$ to $\text{Li}_2\text{ZnSiS}_4$ : Realizing Impressive High Laser Damage Threshold Together with Large Second-Harmonic Generation Response. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 602-606	9.6	77
77	Influence of dust particles on positive column of DC glow discharge. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 103301	2.5	14
76	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> , <b>2018</b> , 123, 113303	2.5	8
75	Vortex electron flux and EDF nonlocality of moderate and high-pressure gas discharge plasmas. <i>Plasma Sources Science and Technology</i> , <b>2018</b> , 27, 045007	3.5	4
74	A First Principles Study of Ferroelectricity and Magnetism Coexisting in Fe-Doped $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ . <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 5773-5779	1.9	5
73	The nonlocal electron kinetics for a low-pressure glow discharge dusty plasma. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 053702	2.1	3
72	Impact of dipolar clusters on electro-optic effects in $\text{KTa NbO}$ crystal. <i>Optics Letters</i> , <b>2018</b> , 43, 5009-5013		9
71	Structural, dielectric, ferroelectric, and ferromagnetic properties of multiferroic ceramics $(1-x)\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3\text{-xBa}_{0.7}\text{Ca}_{0.3}\text{FeTaO}_5$ . <i>Ferroelectrics</i> , <b>2018</b> , 534, 164-171	0.6	1
70	$\text{BaB}_2\text{S}_4$ : An Efficient and Air-Stable Thioborate as Infrared Nonlinear Optical Material with High Laser Damage Threshold. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7428-7432	9.6	45
69	Determining the spectrum of penning electrons by current to a wall probe in nonlocal negative glow plasma. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 104501	2.1	12
68	$\text{NaCdGeQ}$ ( $\text{Q} = \text{S, Se}$ ): two metal-mixed chalcogenides with phase-matching abilities and large second-harmonic generation responses. <i>Dalton Transactions</i> , <b>2017</b> , 46, 2778-2784	4.3	57
67	High-quality $\text{K}_{0.47}\text{Na}_{0.53}\text{NbO}_3$ single crystal toward high performance transducer. <i>RSC Advances</i> , <b>2017</b> , 7, 7003-7007	3.7	13
66	$\text{Na}_2\text{ZnSn}_2\text{S}_6$ : A mixed-metal thioostannate with large second-harmonic generation response activated by penta-tetrahedral $[\text{ZnSn}_4\text{S}_{14}]_{10}$ clusters. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 1465-1472	3.5	7

65	Local Magnetic Control in a Large-Scale Low-Pressure Nonlocal Plasma Source. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 3114-3117	1.3	1
64	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> , <b>2017</b> , 38, 387-391	0.7	2
63	On self-sustainment of DC discharges with gridded anode. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 143304	2.5	7
62	Probe Diagnostics of Plasma Parameters in a Large-Volume Glow Discharge With Coaxial Gridded Hollow Electrodes. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 3110-3113	1.3	9
61	Structure, piezoelectric performance and liquid phase aid sintering of SiO <sub>2</sub> doped (K <sub>0.5</sub> Na <sub>0.5</sub> ) NbO <sub>3</sub> lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 17363-17369	2.1	3
60	Strong electromechanical coupling in paraelectric KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> crystals. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5220-5225	3.8	2
59	Field-driven electro-optic dynamics of polar nanoregions in nanodisordered KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> crystal. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 012903	3.4	28
58	Ambipolar field role in formation of electron distribution function in gas discharge plasma. <i>Scientific Reports</i> , <b>2017</b> , 7, 14613	4.9	12
57	LiGeSe: the first ternary lithium germanium selenide with interesting [GeSe] chains constructed by ethane-like [GeSe] clusters. <i>Dalton Transactions</i> , <b>2017</b> , 46, 16399-16403	4.3	5
56	Propagation characters of multi-Gaussian beam with large eccentric displacement in collisionless plasma: Higher order paraxial theory. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 062306	2.1	
55	Laser-diode-pumped Nd:YVO <sub>4</sub> /Nd:YAG MOPA burst-mode laser. <i>Optical Review</i> , <b>2017</b> , 24, 611-616	0.9	7
54	Origin of the dielectric abnormalities and tunable dielectric properties in doped KTN single crystals. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 242902	3.4	3
53	Numerical and Experimental Diagnostics of Dusty Plasma in a Coaxial Gridded Hollow Cathode Discharge. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2973-2978	1.3	18
52	Effects of Growth Temperature on Crystal Morphology and Size Uniformity in KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> and K <sub>1-x</sub> Na <sub>x</sub> NbO <sub>3</sub> Single Crystals. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 325-330	3.5	21
51	A High Laser Damage Threshold and a Good Second-Harmonic Generation Response in a New Infrared NLO Material: LiSm <sub>3</sub> Si <sub>5</sub> . <i>Crystals</i> , <b>2016</b> , 6, 121	2.3	16
50	Temperature field driven polar nanoregions in KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 109, 252904	3.4	17
49	Origin of giant piezoelectric effect in lead-free K <sub>1-x</sub> Na <sub>x</sub> Ta <sub>1-y</sub> Nb <sub>y</sub> O <sub>3</sub> single crystals. <i>Scientific Reports</i> , <b>2016</b> , 6, 25637	4.9	18
48	Normal incidence filters using symmetry-protected modes in dielectric subwavelength gratings. <i>Scientific Reports</i> , <b>2016</b> , 6, 36066	4.9	34



47	High-peak-power, high-repetition-rate LD end-pumped Nd:YVO <sub>4</sub> burst mode laser. <i>Optical Review</i> , <b>2016</b> , 23, 386-390	0.9	5
46	Na <sub>2</sub> ZnGe <sub>2</sub> S <sub>6</sub> : 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> , <b>2016</b> , 138, 7422-8	16.4	205
45	Investigation of Low-Pressure Glow Discharge in a Coaxial Gridded Hollow Cathode. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2965-2972	1.3	13
44	Double-loop hysteresis in tetragonal KTa <sub>0.58</sub> Nb <sub>0.42</sub> O <sub>3</sub> correlated to recoverable reorientations of the asymmetric polar domains. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 102903	3.4	27
43	Variable gradient refractive index engineering: design, growth and electro-deflective application of KTa <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10968-10973	7.1	25
42	Dielectric, piezoelectric, and elastic properties of K <sub>0.8</sub> Na <sub>0.2</sub> NbO <sub>3</sub> single crystals. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9609-9614	7.1	30
41	Two-dimensional electron gas in the KNbO <sub>3</sub> :Y ultrathin film. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 74-78	4.3	2
40	Novel lithium-nitrogen compounds at ambient and high pressures. <i>Scientific Reports</i> , <b>2015</b> , 5, 14204	4.9	48
39	Dynamic response of polar nanoregions under an electric field in a paraelectric KTa <sub>0.61</sub> Nb <sub>0.39</sub> O <sub>3</sub> single crystal near the para-ferroelectric phase boundary. <i>Scientific Reports</i> , <b>2015</b> , 5, 13751	4.9	26
38	Top-Seeded Solution Growth and Properties of K <sub>1-x</sub> Na <sub>x</sub> NbO <sub>3</sub> Crystals. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 1180-1185	3.5	48
37	Impact of polar nanoregions on the quadratic electro-optic effect in K <sub>0.95</sub> Na <sub>0.05</sub> Ta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> crystals near the Curie temperature. <i>Applied Physics Express</i> , <b>2014</b> , 7, 062601	2.4	21
36	Good temperature stability and high piezoelectric properties of pure and La-doped tetragonal (K <sub>0.45</sub> Na <sub>0.55</sub> ) <sub>0.94</sub> Li <sub>0.06</sub> Ta <sub>x</sub> Nb <sub>1-x</sub> O <sub>3</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 4185-4192	4.6	9
35	The structure and optical properties of lead-free transparent KNLTN-La <sub>0.01</sub> ceramics prepared by conventional sintering technique. <i>Materials Science-Poland</i> , <b>2014</b> , 32, 597-603	0.6	0
34	Ferromagnetic antiphase domain boundary in Mn-doped hexagonal BaTiO <sub>3</sub> multiferroics. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 242910	3.4	21
33	The terahertz characteristics of a sandwich type microplasma structure. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 123302	2.5	5
32	Structure, microstructure, and piezoelectric properties of ytterbium-doped potassium sodium niobate lead-free ceramics. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 649-654	2.9	6
31	Na <sub>2</sub> Cd <sub>7</sub> B <sub>8</sub> O <sub>20</sub> : a new noncentrosymmetric compound with special [B <sub>3</sub> O <sub>7</sub> ] units. <i>CrystEngComm</i> , <b>2013</b> , 15, 3412	3.3	16
30	Microstructure and piezoelectric properties of NaF-doped K <sub>0.5</sub> Na <sub>0.5</sub> Nb <sub>0.95</sub> Ta <sub>0.05</sub> O <sub>3</sub> lead-free ceramics. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1396-1400	4.3	8



29	M2Cd3B16O28 (M = Rb, Cs): Two Isostructural Alkali Cadmium Borates with a New Type of Borate Layer. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 203-207	2.3	25
28	Propagation characteristics of a Gaussian laser beam in plasma with modulated collision frequency. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 083114	2.1	3
27	Piezoelectric properties of tetragonal K0.95Li0.05Ta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> lead-free single crystals near tetragonal-cubic phase transition boundary. <i>Phase Transitions</i> , <b>2012</b> , 85, 523-529	1.3	1
26	The quantum dusty magnetosonic solitary wave in magnetized plasma. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 013704	2.4	10
25	Large electrostrictive effect in K0.99Li0.01Ta <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> lead-free single crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 2291-2294	1.6	5
24	Effects of ionization distribution on plasma beam focusing characteristics in Hall thrusters. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 221502	3.4	21
23	Structure and Piezoelectric Properties of Fe-Doped Potassium Sodium Niobate Tantalate Lead-Free Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2489-2493	3.8	37
22	Synthesis, structure, and properties of the non-centrosymmetric borate Rb <sub>2</sub> CaB <sub>8</sub> O <sub>26</sub> H <sub>24</sub> . <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7443-7448	4.3	7
21	Frequency Dependent Electro-Optic Properties of Potassium Lithium Tantalate Niobate Single Crystal. <i>Ferroelectrics</i> , <b>2011</b> , 425, 82-89	0.6	19
20	Propagation of terahertz waves in an atmospheric pressure microplasma with Epstein electron density profile. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 063305	2.5	15
19	A congruently melting and deep UV nonlinear optical material: Li <sub>3</sub> Cs <sub>2</sub> B <sub>5</sub> O <sub>10</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2890		92
18	Propagation of Gaussian laser beam in cold plasma of Drude model. <i>Physics of Plasmas</i> , <b>2011</b> , 18, 113105	2.1	20
17	Electrical Properties of Lead-free Niobium Rich Piezoelectric (K <sub>0.95</sub> Li <sub>0.05</sub> ) (Ta <sub>1-x</sub> Nb <sub>x</sub> ) O <sub>3</sub> Single Crystals. <i>Integrated Ferroelectrics</i> , <b>2011</b> , 130, 65-72	0.8	12
16	The effects of nonadiabatic dust charge variation and ultraviolet irradiation on the modulational instability of dust ion acoustic waves. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 113701	2.1	6
15	Spectroscopic and upconversion properties of erbium-doped potassium lithium tantalate niobate crystals under 800 nm femtosecond laser excitation. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 043520	2.5	16
14	Electric field control of a two-dimensional higher order diffraction optical beam splitter based on a cubic K <sub>0.99</sub> Li <sub>0.01</sub> Ta <sub>0.63</sub> Nb <sub>0.37</sub> O <sub>3</sub> single crystal. <i>Journal of Modern Optics</i> , <b>2010</b> , 57, 1571-1578	1.1	
13	Propagation of broadband terahertz pulses through a dense-magnetized-collisional-bounded plasma layer. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 113304	2.1	30
12	Large negative and positive lateral shift on reflection from a left-handed prism coated with a weakly absorbing dielectric film. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 99, 513-517	1.9	7

11	The propagation of radially polarized partially coherent beam through an optical system in turbulent atmosphere. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 101, 361-369	1.9	31
10	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> , <b>2010</b> , 101, 193-197	1.9	1
9	Modulational instability of dust acoustic waves in dusty plasmas with ultraviolet irradiation and nonadiabatic dust charge variation. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 033706	2.1	7
8	Piezoelectric properties of the lead-free K <sub>0.95</sub> Li <sub>0.05</sub> Ta <sub>0.61</sub> Nb <sub>0.39</sub> O <sub>3</sub> single crystal. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 125405	3	14
7	Mode Characteristics of the Strongly Anisotropic $a$ -Axis Single-Crystal Fiber. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 2989-2999	4	1
6	Structural, electronic, and optical properties of ferroelectric KTa <sub>1/2</sub> Nb <sub>1/2</sub> O <sub>3</sub> solid solutions. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 074113	2.5	52
5	Growth and optical properties of paraelectric K <sub>1-y</sub> NayTa <sub>1-x</sub> NbxO <sub>3</sub> single crystals. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 91, 75-78	1.9	23
4	Photorefractive real-time phase-coded optical correlation storage using a crossed cylindrical-collimating lens system. <i>Applied Optics</i> , <b>2007</b> , 46, 1963-7	1.7	
3	Incoherently coupled bright-dark hybrid soliton families in biased photovoltaic-photorefractive crystals. <i>Applied Physics B: Lasers and Optics</i> , <b>2001</b> , 72, 191-194	1.9	12
2	Dielectric Properties of Nb-Rich Potassium Lithium Tantalate Niobate Single Crystals. <i>Ceramic Transactions</i> , 179-190	0.1	
1	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