Qingfeng Yan

List of Publications by Citations

161 papers	3,997 citations	35 h-index	54 g-index
170 ext. papers	4,495 ext. citations	5.3 avg, IF	5.6 L-index

#	Paper	IF	Citations
161	High-Performance Planar-Type Photodetector on (100) Facet of MAPbI3 Single Crystal. *Scientific Reports*, **2015**, 5, 16563	4.9	222
160	Perovskite CH3NH3PbI3(Cl) Single Crystals: Rapid Solution Growth, Unparalleled Crystalline Quality, and Low Trap Density toward 10(8) cm(-3). *Journal of the American Chemical Society*, **2016**, 138, 9409-12	16.4	174
159	Templating methods for preparation of porous structures. *Journal of Materials Chemistry*, **2006**, 16, 637-648	4	170
158	282-nm AlGaN-based deep ultraviolet light-emitting diodes with improved performance on nano-patterned sapphire substrates. *Applied Physics Letters*, **2013**, 102, 241113	3.4	159
157	Inward-growing self-assembly of colloidal crystal films on horizontal substrates. *Langmuir*, **2005**, 21, 3158-64	4	123
156	Structure and luminescence properties of green-emitting NaBaScSi2O7:Eu2+ phosphors for near-UV-pumped light emitting diodes. *Journal of Materials Chemistry C*, **2013**, 1, 7139-7147	7.1	115
155	Co-self-assembly of binary colloidal crystals at the air-water interface. *ACS Applied Materials & Interfaces*, **2010**, 2, 1922-6	9.5	89
154	Size Effect on the Cytotoxicity of Layered Black Phosphorus and Underlying Mechanisms. *Small*, **2017**, 13, 1701210	11	83
153	A self-powered photodetector based on a CH3NH3PbI3 single crystal with asymmetric electrodes. *CrystEngComm*, **2016**, 18, 4405-4411	3.3	76
152	A self-powered organolead halide perovskite single crystal photodetector driven by a DVD-based triboelectric nanogenerator. *Journal of Materials Chemistry C*, **2016**, 4, 630-636	7.1	75
151	Particle and substrate charge effects on colloidal self-assembly in a sessile drop. *Langmuir*, **2008**, 24, 11518-22	4	67
150	A Stretchable Nanogenerator with Electric/Light Dual-Mode Energy Conversion. *Advanced Energy Materials*, **2016**, 6, 1600829	21.8	62
149	Giant Negative Electrocaloric Effect in (Pb,La)(Zr,Sn,Ti)O Antiferroelectrics Near Room Temperature. *ACS Applied Materials & Interfaces*, **2018**, 10, 11747-11755	9.5	56
148	AlGaN-based deep ultraviolet light-emitting diodes grown on nano-patterned sapphire substrates with significant improvement in internal quantum efficiency. *Journal of Crystal Growth*, **2014**, 395, 9-13	1.6	54
147	Enhancement of light output power from LEDs based on monolayer colloidal crystal. *Small*, **2014**, 10, 1668-86	11	52
146	Layer transfer approach to opaline hetero photonic crystals. *Langmuir*, **2008**, 24, 1796-800	4	51
145	New Pb(Mg1/3Nb2/3)O3-Pb(In1/2Nb1/2)O3-PbZrO3-PbTiO3 Quaternary Ceramics: Morphotropic Phase Boundary Design and Electrical Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 15506-17	9.5	49

144	Two-step heating synthesis of sub-3 millimeter-sized orthorhombic black phosphorus single crystal by chemical vapor transport reaction method. *Science China Materials*, **2016**, 59, 122-134	7.1	48
143	Preparation of high-quality colloidal mask for nanosphere lithography by a combination of air/water interface self-assembly and solvent vapor annealing. *Langmuir*, **2012**, 28, 12681-9	4	48
142	Progress in organic-inorganic hybrid halide perovskite single crystal: growth techniques and applications. *Science China Materials*, **2017**, 60, 1063-1078	7.1	47
141	Selectively grown photonic crystal structures for high efficiency InGaN emitting diodes using nanospherical-lens lithography. *Applied Physics Letters*, **2012**, 101, 211111	3.4	47
140	Replicating novel carbon nanostructures with 3D macroporous silica template. *Journal of Materials Chemistry*, **2005**, 15, 2569		45
139	Crystal structure refinement and luminescence properties of Ce3+ singly doped and Ce3+/Mn2+ co-doped KBaY(BO3)2 for n-UV pumped white-light-emitting diodes. *RSC Advances*, **2013**, 3, 16534	3.7	44
138	Fabrication of binary colloidal crystals and non-close-packed structures by a sequential self-assembly method. *Langmuir*, **2007**, 23, 1473-7	4	44
137	Coexistence of multiple positive and negative electrocaloric responses in (Pb, La)(Zr, Sn, Ti)O3 single crystal. *Applied Physics Letters*, **2016**, 108, 082904	3.4	43
136	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. *Applied Physics Letters*, **2018**, 112, 133901	3.4	39
135	Uniform Tellurium Doping in Black Phosphorus Single Crystals by Chemical Vapor Transport. *Inorganic Chemistry*, **2018**, 57, 4098-4103	5.1	39
134	Recent advancement on micro-/nano-spherical lens photolithography based on monolayer colloidal crystals. *Advances in Colloid and Interface Science*, **2016**, 228, 105-22	14.3	39
133	Thermal annealing of colloidal monolayer at the air/water interface: a facile approach to transferrable colloidal masks with tunable interstice size for nanosphere lithography. *Journal of Materials Chemistry*, **2012**, 22, 22678		38
132	A high performance triboelectric nanogenerator for self-powered non-volatile ferroelectric transistor memory. *Nanoscale*, **2015**, 7, 17306-11	7.7	36
131	From planar defect in opal to planar defect in inverse opal. *Langmuir*, **2006**, 22, 3481-4	4	36
130	Crystallographic dependence of internal bias in domain engineered Mn-doped relaxor-PbTiO3 single crystals. *Journal of Materials Chemistry C*, **2016**, 4, 4568-4576	7.1	36
129	An Origami Perovskite Photodetector with Spatial Recognition Ability. *ACS Applied Materials & Interfaces*, **2017**, 9, 10921-10928	9.5	35
128	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. *Nano Energy*, **2016**, 20, 48-56	17.1	35
127	Near-neutral-colored semitransparent perovskite films using a combination of colloidal self-assembly and plasma etching. *Solar Energy Materials and Solar Cells*, **2017**, 160, 193-202	6.4	35

126	The Role of Surface Defects in Photoluminescence and Decay Dynamics of High-Quality Perovskite MAPbI Single Crystals. *Journal of Physical Chemistry Letters*, **2018**, 9, 4221-4226	6.4	34
125	Phase transformations, anisotropic pyroelectric energy harvesting and electrocaloric properties of (Pb,La)(Zr,Sn,Ti)O single crystals. *Physical Chemistry Chemical Physics*, **2017**, 19, 13534-13546	3.6	33
124	Large field-induced strain, giant strain memory effect, and high thermal stability energy storage in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. *Acta Materialia*, **2018**, 148, 28-37	8.4	33
123	Optical properties of nanopillar AlGaN/GaN MQWs for ultraviolet light-emitting diodes. *Optics Express*, **2014**, 22 Suppl 2, A320-7	3.3	33
122	Electric field induced metastable ferroelectric phase and its behavior in (Pb, La)(Zr, Sn, Ti)O3 antiferroelectric single crystal near morphotropic phase boundary. *Applied Physics Letters*, **2014**, 104, 052912	3.4	32
121	Highly efficient solar-thermal storage coating based on phosphorene encapsulated phase change materials. *Energy Storage Materials*, **2020**, 32, 199-207	19.4	32
120	Self-Powered Ultrabroadband Photodetector Monolithically Integrated on a PMN-PT Ferroelectric Single Crystal. *ACS Applied Materials & Interfaces*, **2016**, 8, 32934-32939	9.5	30
119	Layer-by-Layer Approach to (2+1)D Photonic Crystal Superlattice with Enhanced Crystalline Integrity. *Small*, **2015**, 11, 4910-21	11	30
118	Recent Advances in Lead Halide Perovskites for Radiation Detectors. *Solar Rrl*, **2020**, 4, 1900210	7.1	29
117	Hexagonal crown-capped zinc oxide micro rods: hydrothermal growth and formation mechanism. *Inorganic Chemistry*, **2013**, 52, 10167-75	5.1	28
116	Solvent effect on the self-assembly of colloidal microspheres via a horizontal deposition method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 402, 37-44	5.1	28
115	High-performance stretchable photodetector based on CHNHPbI microwires and graphene. *Nanoscale*, **2018**, 10, 10538-10544	7.7	28
114	Structural phase transition, depolarization and enhanced pyroelectric properties of (Pb1−1.5xLax)(Zr0.66Sn0.23Ti0.11)O3 solid solution. *Journal of Materials Chemistry C*, **2016**, 4, 7110-7118	7.1	27
113	Efficiency improvement and droop behavior in nanospherical-lens lithographically patterned bottom and top photonic crystal InGaN/GaN light-emitting diodes. *Optics Letters*, **2014**, 39, 379-82	3	27
112	Hittorf phosphorus: the missing link during transformation of red phosphorus to black phosphorus. *CrystEngComm*, **2017**, 19, 905-909	3.3	26
111	Temperature induced phase transformations and negative electrocaloric effect in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. *Journal of Applied Physics*, **2017**, 122, 154101	2.5	25
110	A universal top-down approach toward thickness-controllable perovskite single-crystalline thin films. *Journal of Materials Chemistry C*, **2018**, 6, 4464-4470	7.1	25
109	Introduction of Three-Dimensional Extrinsic Defects into Colloidal Photonic Crystals. *Chemistry of Materials*, **2005**, 17, 3069-3071	9.6	25

108	Drilling nanoholes in colloidal spheres by selective etching. *Journal of Materials Chemistry*, **2006**, 16, 2132		25
107	High Regularity Porous Oxophilic Metal Films on Pt as Model Bifunctional Catalysts for Methanol Oxidation. *Chemistry of Materials*, **2006**, 18, 4328-4335	9.6	25
106	Fabrication of colloidal crystal heterostructures using a horizontal deposition method. *Journal of Crystal Growth*, **2006**, 288, 205-208	1.6	25
105	Electric field induced phase transition and domain structure evolution in (Pb, La)(Zr, Sn, Ti)O3 single crystal. *Applied Physics Letters*, **2015**, 107, 072909	3.4	24
104	PMN-PT based quaternary piezoceramics with enhanced piezoelectricity and temperature stability. *Applied Physics Letters*, **2014**, 104, 182911	3.4	24
103	Fabrication of volcano-shaped nano-patterned sapphire substrates using colloidal self-assembly and wet chemical etching. *Nanotechnology*, **2013**, 24, 335301	3.4	24
102	Growth Kinetics of Monodisperse Polystyrene Microspheres Prepared by Dispersion Polymerization. *Journal of Polymers*, **2013**, 2013, 1-7		24
101	Anisotropic moisture erosion of CH3NH3PbI3 single crystals. *CrystEngComm*, **2017**, 19, 901-904	3.3	23
100	CsCu5Se3: A Copper-Rich Ternary Chalcogenide Semiconductor with Nearly Direct Band Gap for Photovoltaic Application. *Chemistry of Materials*, **2018**, 30, 1121-1126	9.6	23
99	Phase transitions and domain evolution in (Pb, La)(Zr, Sn, Ti)O3 single crystal. *Applied Physics Letters* , **2012**, 101, 132904	3.4	23
98	Field induced phase transitions and energy harvesting performance of (Pb,La)(Zr,Sn,Ti)O3 single crystal. *Journal of Applied Physics*, **2017**, 121, 064104	2.5	22
97	Eu2+-Doped NaBa4(AlB4O9)2X3 (X = Cl, Br) phosphors with intense two-center blue emission and high color purity for n-UV pumped white light-emitting diodes. *Journal of Materials Chemistry C*, **2016**, 4, 7959-7965	7.1	22
96	Structure Evolution and Electrical Properties of Y3+-Doped Ba1−CaxZr0.07Ti0.93O3 Ceramics. *Journal of the American Ceramic Society*, **2014**, 97, 2076-2081	3.8	21
95	Surface modification of KBaBP2O8:Eu3+ phosphors by Al-doped ZnO coating. *Materials Letters*, **2013**, 100, 216-218	3.3	19
94	Effect of A-site La3+modified on dielectric and energy storage properties in lead zironate stannate titanate ceramics. *Materials Research Express*, **2014**, 1, 045501	1.7	19
93	Layer-by-layer growth of attractive binary colloidal particles. *Langmuir*, **2008**, 24, 9273-8	4	19
92	Enhanced temperature stability in Tb-doped (Ba0.99Ca0.01)(Ti0.98Zr0.02)O3 lead free ceramics. *Ceramics International*, **2015**, 41, 2497-2501	5.1	18
91	Size-controllable nanopyramids photonic crystal selectively grown on p-GaN for enhanced light-extraction of light-emitting diodes. *Optics Express*, **2013**, 21, 25373-80	3.3	18

90	Optical waveguide propagation loss measurement using multiple reflections method. *Optics Communications*, **2005**, 256, 68-72	2	18
89	Cs6RE2(PO4)4 (RE = Y and Gd): two new members of the alkali rare-earth double phosphates. *New Journal of Chemistry*, **2015**, 39, 4328-4333	3.6	16
88	Highly efficient field emission from large-scale and uniform monolayer graphene sheet supported on patterned ZnO nanorod arrays. *Journal of Materials Chemistry C*, **2014**, 2, 3965	7.1	16
87	Controlled and rapid ordering of oppositely charged colloidal particles. *Journal of Colloid and Interface Science*, **2009**, 333, 230-6	9.3	16
86	Fabrication of free-standing non-close-packed opal films. *Journal of Materials Chemistry*, **2006**, 16, 4598		16
85	Recent Advancements in Crystalline Pb-Free Halide Double Perovskites. *Crystals*, **2020**, 10, 62	2.3	16
84	Electric Field-Induced Phase Transition Behaviors, Thermal Depolarization, and Enhanced Pyroelectric Properties of (Pb0.97La0.02)(ZrxSn0.89Ti0.11)O3 Ceramics. *Journal of the American Ceramic Society*, **2016**, 99, 2047-2054	3.8	16
83	Giant shape memory and domain memory effects in antiferroelectric single crystals. *Materials Horizons*, **2019**, 6, 1699-1706	14.4	15
82	Infrared light gated MoS field effect transistor. *Optics Express*, **2015**, 23, 31908-14	3.3	15
81	Temperature-Dependent Phase Transition in Orthorhombic [011]c Pb(Mg1/3Nb2/3) O3-0.35PbTiO3 Single Crystal. *Crystals*, **2014**, 4, 262-272	2.3	15
80	Colloidal woodpile structure: three-dimensional photonic crystal with a dual periodicity. *Langmuir*, **2006**, 22, 7001-6	4	15
79	Formic acid: an accelerator and quality promoter for nonseeded growth of CHNHPbI single crystals. *Chemical Communications*, **2018**, 54, 1049-1052	5.8	15
78	Investigation of piezoelectric property and nanodomain structures for PINPZPMNPT single crystals as a function of crystallographic orientation and temperature. *Journal of Materials Chemistry C*, **2017**, 5, 2459-2465	7.1	14
77	Universal Fluorescence Enhancement Substrate Based on Multiple Heterostructure Photonic Crystal with Super-Wide Stopband and Highly Sensitive Cr(VI) Detecting Performance. *Advanced Optical Materials*, **2018**, 6, 1701344	8.1	14
76	Large-Area and Ordered Sexfoil Pore Arrays by Spherical-Lens Photolithography. *ACS Photonics*, **2014**, 1, 754-760	6.3	14
75	Fabrication of colloidal photonic crystal heterostructures free of interface imperfection based on solvent vapor annealing. *Journal of Colloid and Interface Science*, **2014**, 434, 98-103	9.3	13
74	Synthesis, crystal structure, characterization and luminescent properties of KBaTbB2O6. *Journal of Crystal Growth*, **2014**, 401, 334-337	1.6	13
73	Confined Self-Assembly of Asymmetric Diblock Copolymers within Silica Nanobowl Arrays.. *ACS Macro Letters*, **2012**, 1, 62-66	6.6	13

72	Chemical vapor transport growth of bulk black phosphorus single crystals. *Inorganic Chemistry Frontiers*, **2020**, 7, 2867-2879	6.8	12
71	Piezoelectric Property of a Tetragonal (Ba,Ca)(Zr,Ti)O Single Crystal and Its Fine-Domain Structure. *ACS Applied Materials & Interfaces*, **2018**, 10, 12847-12853	9.5	12
70	Anisotropic domain switching in Pb(Mg1/3Nb2/3)O3-0.30PbTiO3 single crystals with rhombohedral structure. *Journal of the American Ceramic Society*, **2018**, 101, 3054-3064	3.8	12
69	Anisotropic Carrier Transport in CH3NH3PbI3 Single Crystal Field-Effect Transistor. *IEEE Electron Device Letters*, **2018**, 39, 1389-1392	4.4	12
68	Ce3+/Tb3+ co-doped KBaY(BO3)2: A color-tunable blue-green phosphor for near-UV white LEDs. *Materials Express*, **2014**, 4, 533-538	1.3	12
67	Domain Structure Evolutions During the Poling Process for [011]-Oriented PMN□PT Crystals Across the MPB Region. *Journal of the American Ceramic Society*, **2016**, 99, 2096-2102	3.8	12
66	Domain switching and polarization fatigue in rhombohedral PIN-PMN-PT and Mn-doped PIN-PMN-PT single crystals. *Journal of the American Ceramic Society*, **2019**, 102, 6668-6679	3.8	11
65	Ba7(BO3)3GeO4X (X = Cl, Br): borogermanate halides with rigid GeO4 tetrahedra and flexible XBa6 octahedra. *RSC Advances*, **2015**, 5, 53448-53454	3.7	10
64	Temperature and electric field induced phase transition in [110]C-oriented 0.63Pb(Mg1/3Nb2/3)O3□0.37PbTiO3 single crystals. *CrystEngComm*, **2015**, 17, 8664-8670	3.3	10
63	Electro-caloric effect in a BCZT single crystal. *CrystEngComm*, **2018**, 20, 1597-1602	3.3	10
62	Size Dependent Mechanical Properties of Monolayer Densely Arranged Polystyrene Nanospheres. *Langmuir*, **2016**, 32, 13187-13192	4	10
61	Growth of Ca, Zr co-doped BaTiO3 lead-free ferroelectric single crystal and its room-temperature piezoelectricity. *AIP Advances*, **2017**, 7, 095311	1.5	10
60	Growth and optical properties of Eu2+/Li+-co-doped SrB4O7 single crystals. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 252-255	3.9	10
59	Synthesis and field emission properties of highly ordered Ti-doped ZnO nanoarray structure. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 2839-2845	2.1	9
58	Nano-fabrication and related optical properties of InGaN/GaN nanopillars. *Nanotechnology*, **2015**, 26, 075302	3.4	9
57	Solvent-Assisted Interfacial Tension Deformation of Spherical Particles for the Fabrication of Non-Spherical Particle Arrays. *Particle and Particle Systems Characterization*, **2013**, 30, 812-817	3.1	9
56	Fabrication of periodic square arrays by angle-resolved nanosphere lithography. *Microelectronic Engineering*, **2010**, 87, 1941-1944	2.5	9
55	Phase transition and domain configuration of poled rhombohedral PIN□PZ□PMN□PT single crystals. *CrystEngComm*, **2016**, 18, 5519-5527	3.3	8

54	Temperature-dependent phase transition in orthorhombic [0 0 1] c -oriented low In 3+ doping 19PIN-45PMN-36PT single crystals. *Materials Research Bulletin*, **2016**, 75, 121-126	5.1	8
53	Reversible and High-Temperature-Stabilized Strain in (Pb,La)(Zr,Sn,Ti)O Antiferroelectric Ceramics. *ACS Applied Materials & Interfaces*, **2019**, 11, 32135-32143	9.5	8
52	Nanosecond-Response Speed Sensor Based on Perovskite Single Crystal Photodetector Array. *ACS Photonics*, **2018**, 5, 3172-3178	6.3	8
51	Anisotropic domain structures of Pb(Mg1/3Nb2/3)O3-PbZrO3-PbTiO3 single crystals with high ferroelectric phase transition temperature. *Journal of the American Ceramic Society*, **2017**, 100, 1724-1732	3.8	7
50	Anisotropic field induced phase transitions and negative electrocaloric effect in rhombohedral Mn doped Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 single crystals. *Ceramics International*, **2018**, 44, 9045-9052	5.1	7
49	High temperature-insensitive ferro-/piezoelectric properties and nanodomain structures of Pb(In1/2Nb1/2)O3-PbZrO3-Pb(Mg1/3Nb2/3)O3-PbTiO3 relaxor single crystals. *Journal of the American Ceramic Society*, **2018**, 101, 1236-1244	3.8	7
48	Quantitative Characterization of Mechanical Property of Annealed Monolayer Colloidal Crystal. *Langmuir*, **2016**, 32, 451-9	4	7
47	Nanosphere lithography from template-directed colloidal sphere assemblies. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1815-8	1.3	7
46	Bottom-up approach to quasi-monolayer black phosphorus advancing photocatalytic H2 evolution. *Chemical Engineering Journal*, **2021**, 421, 127841	14.7	7
45	Three-dimensional metallic opals fabricated by double templating. *Thin Solid Films*, **2009**, 517, 5166-5171	2.2	6
44	MC Type Phase Structure and Temperature-Induced MC-C Transition in the As-Grown PMN-0.36PT Single Crystal. *Journal of the American Ceramic Society*, **2016**, 99, 2706-2712	3.8	6
43	Phase coexistence and broad depolarization response in (Pb,La)(Zr,Sn,Ti)O3 single crystals. *Ceramics International*, **2019**, 45, 10394-10399	5.1	5
42	Harnessing the perinuclear actin cap (pnAC) to influence nanocarrier trafficking and gene transfection efficiency in skeletal myoblasts using nanopillars. *Acta Biomaterialia*, **2020**, 111, 221-231	10.8	5
41	A general strategy to fabricate photonic crystal heterostructure with Programmed photonic stopband. *Journal of Colloid and Interface Science*, **2018**, 509, 318-326	9.3	5
40	Synthesis and characterization of Pb(Mg1/3Nb2/3)O3-PbTiO3 relaxor ferroelectrics modified by Ba(Mg1/3Nb2/3)O3. *Ceramics International*, **2014**, 40, 487-493	5.1	5
39	Colloidal monolayer at the air/water interface: Large-area self-assembly and in-situ annealing. *Thin Solid Films*, **2013**, 544, 557-561	2.2	5
38	Field induced O-MC phase transition and domain structure evolution in Pb(Mg1/3Nb2/3)O3-0.34PbTiO3 single crystals under radial poling. *Journal of Alloys and Compounds*, **2018**, 762, 222-230	5.7	5
37	Local strain heterogeneity and elastic relaxation dynamics associated with relaxor behavior in the single-crystal perovskite Pb(In1/2Nb1/2)O3-PbZrO3-Pb(Mg1/3Nb2/3)O3-PbTiO3. *Physical Review B*, **2017**, 96,	3.3	4

36	Effects of pre-polarization on the dielectric and piezoelectric properties of 0□ type PIN□PMN□PT/PVDF composites. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 6427-6433	2.1	4
35	Rapid nanostructuration of polymer colloid surfaces by nonsolvent induced phase separation. *Journal of Colloid and Interface Science*, **2015**, 441, 39-45	9.3	4
34	Domain Reengineering of the [011]-Poled PMN□.35PT Single Crystals for Dielectric Bolometer Arrays. *Journal of the American Ceramic Society*, **2016**, 99, 3508-3511	3.8	4
33	Anisotropic temperature□electric field phase diagrams and domain structure evolution in rhombohedral Mn-doped PIN□PMN□PT single crystals. *CrystEngComm*, **2018**, 20, 5169-5179	3.3	4
32	Morphology evolution, growth mechanism and optical properties of AlN nanostructures. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 4008-4013	2.1	4
31	3D nanohole arrays generated by spherical-lens photolithography. *Materials Letters*, **2017**, 209, 178-181	3.3	4
30	Facile fabrication of highly ordered poly(vinylidene fluoride-trifluoroethylene) nanodot arrays for organic ferroelectric memory. *Journal of Applied Physics*, **2016**, 119, 014104	2.5	4
29	Synthesis, Exfoliation, and Transport Properties of Quasi-1D van der Waals Fibrous Red Phosphorus. *Chemistry of Materials*, **2021**, 33, 6240-6248	9.6	4
28	Composition and temperature dependence of ferroelectric and pyroelectric properties of (1 □x)[PMN□PT(65/35)]□x PZ (0 □x □0.10) ceramics. *Materials Research Bulletin*, **2014**, 59, 421-424	5.1	3
27	Monolayer colloidal mask with tunable interstice size for nanosphere lithography. *Thin Solid Films*, **2013**, 544, 83-87	2.2	3
26	Hierarchically ordered arrays based on solvent vapor annealed colloidal monolayers for antireflective coating. *Thin Solid Films*, **2013**, 544, 403-406	2.2	3
25	Unconventional lithography for patterned nanomaterials. *Nanotechnology*, **2017**, 28, 500201	3.4	3
24	Enhanced light extraction of InGaN LEDs with photonic crystals grown on p-GaN using selective-area epitaxy and nanospherical-lens photolithography. *Journal of Semiconductors*, **2013**, 34, 104005	2.3	3
23	Enhanced Light Emission of Light-Emitting Diodes with Silicon Oxide Nanobowls Photonic Crystal without Electrical Performance Damages. *Japanese Journal of Applied Physics*, **2013**, 52, 040207	1.4	3
22	Colloidal Photonic Crystals: Fabrication and Applications **2011**, 531-576		3
21	Size tolerance analysis of a 4□ tapered multimode interference coupler in a silicon-on-insulator structure. *Optical Engineering*, **2003**, 42, 2235	1.1	3
20	Gamma-Ray Radiation Stability of Mixed-Cation Lead Mixed-Halide Perovskite Single Crystals. *Advanced Optical Materials*,2102069	8.1	3
19	Phase structure and quasi-single-domain mechanism in Pb(Mg1/3Nb2/3)O3-xPbTiO3 single crystals near morphotropic phase boundary. *Journal of Applied Physics*, **2019**, 126, 044101	2.5	2

18	Structure, frequency dependent dielectric properties and domain configuration of PMNPFNPT single crystal. *Journal of Crystal Growth*, **2014**, 401, 414-417	1.6	2
17	Enhanced Output Power of Light-Emitting Diodes With Embedded Air-Gap Photonic Crystals by Nanosphere Lithography. *IEEE Photonics Journal*, **2017**, 9, 1-7	1.8	2
16	Anti-infiltration for fabrication of a suspended nanoparticle layer on porous close-packed colloidal arrays. *ACS Applied Materials & Interfaces*, **2009**, 1, 775-9	9.5	2
15	In-situ microscope observation of the growth of 2D colloidal crystals in a sessile drop. *Journal of Crystal Growth*, **2011**, 318, 1129-1133	1.6	2
14	Facile Fabrication of Anisotropic Colloidal Particles with Controlled Shapes and Shape Dependence of Their Elastic Properties. *Particle and Particle Systems Characterization*, **2016**, 33, 842-850	3.1	2
13	Ternary Hybrid Perovskite Solid Solution Single Crystals: Growth, Composition Determination and Phase Stability in Highly Moist Atmosphere. *Chemistry - A European Journal*, **2021**, 27, 13765-13773	4.8	2
12	Multi-step domain switching and polarization fatigue in [110]-oriented 0.67Pb(Mg1/3Nb2/3)O3-0.33PbTiO3 single crystals. *Journal of the European Ceramic Society*, **2020**, 40, 2345-2356	6	1
11	Fluorescence Enhancement by Photonic Crystal Structure: Universal Fluorescence Enhancement Substrate Based on Multiple Heterostructure Photonic Crystal with Super-Wide Stopband and Highly Sensitive Cr(VI) Detecting Performance (Advanced Optical Materials 11/2018). *Advanced Optical Materials*, **2018**, 6, 1870045	8.1	1
10	Phosphorene-directed self-assembly of asymmetric PS-b-PMMA block copolymer for perpendicularly-oriented sub-10 nm PS nanopore arrays. *Nanotechnology*, **2017**, 28, 424001	3.4	1
9	Directed growth of colloidal crystals on a hydrophobic polymer film by using hydrophilic traps. *Thin Solid Films*, **2008**, 516, 5632-5636	2.2	1
8	Colloidal Photonic Crystal Sensors **2022**, 237-275		1
7	Cs4FeBiBr10: An Example of a New-Type A4BB?X10 Lead-Free Metal Halide Perovskite Single Crystal. *Crystal Growth and Design*, **2021**, 21, 579-587	3.5	1
6	Composition driven structural instability in perovskite ferroelectrics. *AIP Advances*, **2017**, 7, 045112	1.5	
5	Improved performance of GaN-based light emitting diodes with nanopatterned sapphire substrates fabricated by wet chemical etching. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2015**, 33, 032402	1.3	
4	Self-assembled Photonic Crystals for Solar Cells **2022**, 365-395		
3	2D and (2+1)D Colloidal Photonic Crystal **2022**, 139-182		
2	Amorphous black phosphorus: wet-chemical synthesis and atomic disordering-dependent electrocatalytic performance. *2D Materials*, **2022**, 9, 025019	5.9	
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