

Peng Chen

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129
papers

4,520
citations

34
h-index

64
g-index

133
ext. papers

5,655
ext. citations

9.4
avg, IF

5.69
L-index

#	Paper	IF	Citations
129	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , 2018 , 562, 254-258	50.4	404
128	Robust epitaxial growth of two-dimensional heterostructures, multiheterostructures, and superlattices. <i>Science</i> , 2017 , 357, 788-792	33.3	388
127	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , 2017 , 29, 1702076	24	223
126	CdS Nanowires Decorated with Ultrathin MoS ₂ Nanosheets as an Efficient Photocatalyst for Hydrogen Evolution. <i>ChemSusChem</i> , 2016 , 9, 624-30	8.3	194
125	Observation of Strong Interlayer Coupling in MoS ₂ /WS ₂ Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 1950-6	24	172
124	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. <i>Advanced Materials</i> , 2017 , 29, 1702522	24	144
123	Synthesis of Ultrathin Metallic MTe (M = V, Nb, Ta) Single-Crystalline Nanoplates. <i>Advanced Materials</i> , 2018 , 30, e1801043	24	111
122	Broadband tunable liquid crystal terahertz waveplates driven with porous graphene electrodes. <i>Light: Science and Applications</i> , 2015 , 4, e253-e253	16.7	111
121	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016 , 116, 126101	7.4	103
120	Thickness-Tunable Synthesis of Ultrathin Type-II Dirac Semimetal PtTe Single Crystals and Their Thickness-Dependent Electronic Properties. <i>Nano Letters</i> , 2018 , 18, 3523-3529	11.5	103
119	Digitalizing Self-Assembled Chiral Superstructures for Optical Vortex Processing. <i>Advanced Materials</i> , 2018 , 30, 1705865	24	99
118	Chemical synthesis of two-dimensional atomic crystals, heterostructures and superlattices. <i>Chemical Society Reviews</i> , 2018 , 47, 3129-3151	58.5	99
117	Generation of arbitrary vector beams with liquid crystal polarization converters and vector-photoaligned q-plates. <i>Applied Physics Letters</i> , 2015 , 107, 241102	3.4	84
116	Arbitrary and reconfigurable optical vortex generation: a high-efficiency technique using director-varying liquid crystal fork gratings. <i>Photonics Research</i> , 2015 , 3, 133	6	81
115	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. <i>Small</i> , 2017 , 13, 1603005	11	73
114	Digitalized Geometric Phases for Parallel Optical Spin and Orbital Angular Momentum Encoding. <i>ACS Photonics</i> , 2017 , 4, 1333-1338	6.3	69
113	Strain sensors based on chromium nanoparticle arrays. <i>Nanoscale</i> , 2014 , 6, 3930-3	7.7	68

112	Van der Waals epitaxial growth of air-stable CrSe nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , 2021 , 20, 818-825	27	68
111	Meta-q-plate for complex beam shaping. <i>Scientific Reports</i> , 2016 , 6, 25528	4.9	67
110	Chirality invertible superstructure mediated active planar optics. <i>Nature Communications</i> , 2019 , 10, 25181-7.4	7.4	63
109	Terahertz vortex beam generator based on a photopatterned large birefringence liquid crystal. <i>Optics Express</i> , 2017 , 25, 12349-12356	3.3	62
108	Tunable electroluminescence in planar graphene/SiO(2) memristors. <i>Advanced Materials</i> , 2013 , 25, 5593-4	4	56
107	Gate tunable MoS ₂ Black phosphorus heterojunction devices. <i>2D Materials</i> , 2015 , 2, 034009	5.9	55
106	Gate tunable WSe ₂ -BP van der Waals heterojunction devices. <i>Nanoscale</i> , 2016 , 8, 3254-8	7.7	50
105	Liquid-Crystal-Mediated Geometric Phase: From Transmissive to Broadband Reflective Planar Optics. <i>Advanced Materials</i> , 2020 , 32, e1903665	24	49
104	Generation of Equal-Energy Orbital Angular Momentum Beams via Photopatterned Liquid Crystals. <i>Physical Review Applied</i> , 2016 , 5,	4.3	46
103	Growth of Single-Crystalline Cadmium Iodide Nanoplates, CdI/MoS (WS, WSe) van der Waals Heterostructures, and Patterned Arrays. <i>ACS Nano</i> , 2017 , 11, 3413-3419	16.7	45
102	A general route towards defect and pore engineering in graphene. <i>Small</i> , 2014 , 10, 2280-4	11	42
101	Polarization-controllable Airy beams generated via a photoaligned director-variant liquid crystal mask. <i>Scientific Reports</i> , 2015 , 5, 17484	4.9	42
100	Synthesis of 2D Layered Bil Nanoplates, Bil /WSe van der Waals Heterostructures and Their Electronic, Optoelectronic Properties. <i>Small</i> , 2017 , 13, 1701034	11	41
99	Rolling Up a Monolayer MoS ₂ Sheet. <i>Small</i> , 2016 , 12, 3770-4	11	39
98	Boosting Efficiency and Stability of Organic Solar Cells Using Ultralow-Cost BiOCl Nanoplates as Hole Transporting Layers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33505-33514	9.5	38
97	Ultrafast growth of large single crystals of monolayer WS and WSe. <i>National Science Review</i> , 2020 , 7, 737-744	10.8	36
96	Liquid-crystal-integrated metadevice: towards active multifunctional terahertz wave manipulations. <i>Optics Letters</i> , 2018 , 43, 4695-4698	3	34
95	Vortex Airy beams directly generated via liquid crystal q-Airy-plates. <i>Applied Physics Letters</i> , 2018 , 112, 121101	3.4	33

94	Fast-response and high-efficiency optical switch based on dual-frequency liquid crystal polarization grating. <i>Optical Materials Express</i> , 2016 , 6, 597	2.6	32
93	Liquid crystal integrated metalens with tunable chromatic aberration. <i>Advanced Photonics</i> , 2020 , 2, 1	8.1	32
92	Beam shaping via photopatterned liquid crystals. <i>Liquid Crystals</i> , 2016 , 43, 2051-2061	2.3	31
91	Modulating PL and electronic structures of MoS ₂ /graphene heterostructures via interlayer twisting angle. <i>Applied Physics Letters</i> , 2017 , 111, 263106	3.4	31
90	Vortex-controlled morphology conversion of microstructures on silicon induced by femtosecond vector vortex beams. <i>Applied Physics Letters</i> , 2017 , 111, 141901	3.4	31
89	Smectic Layer Origami via Preprogrammed Photoalignment. <i>Advanced Materials</i> , 2017 , 29, 1606671	24	30
88	Broadband detection of multiple spin and orbital angular momenta via dielectric metasurface. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000062	8.3	30
87	Chemical Vapor Deposition Growth of Single Crystalline CoTe ₂ Nanosheets with Tunable Thickness and Electronic Properties. <i>Chemistry of Materials</i> , 2018 , 30, 8891-8896	9.6	30
86	Direct van der Waals epitaxial growth of 1D/2D Sb ₂ Se ₃ /WS ₂ mixed-dimensional p-n heterojunctions. <i>Nano Research</i> , 2019 , 12, 1139-1145	10	28
85	A route toward digital manipulation of water nanodroplets on surfaces. <i>ACS Nano</i> , 2014 , 8, 3955-60	16.7	28
84	Prefrontal Cortex Corticotropin-Releasing Factor Neurons Control Behavioral Style Selection under Challenging Situations. <i>Neuron</i> , 2020 , 106, 301-315.e7	13.9	26
83	Optical array generator based on blue phase liquid crystal Dammann grating. <i>Optical Materials Express</i> , 2016 , 6, 1087	2.6	26
82	Double-Shell and Flower-Like Zn ₃ C ₃ N ₄ Derived from in Situ Supramolecular Self-Assembly for Selective Aerobic Oxidation of Amines to Imines. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14203-14209	8.3	26
81	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. <i>Nature Electronics</i> , 2020 , 3, 630-637	28.4	26
80	High-performance asymmetric electrodes photodiode based on Sb/WS ₂ heterostructure. <i>Nano Research</i> , 2019 , 12, 339-344	10	25
79	Intrinsic ferromagnetism and quantum anomalous Hall effect in a CoBr monolayer. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13432-13437	3.6	23
78	Cyano-Substituted Head-to-Head Polythiophenes: Enabling High-Performance n-Type Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10089-10098	9.5	23
77	Self-Assembled Asymmetric Microlenses for Four-Dimensional Visual Imaging. <i>ACS Nano</i> , 2019 , 13, 13709-13715	9.6	23

76	Perfect Higher-Order Poincaré Sphere Beams from Digitalized Geometric Phases. <i>Physical Review Applied</i> , 2018 , 10,	4.3	22
75	Two-dimensional plumbum-doped tin diselenide monolayer transistor with high on/off ratio. <i>Nanotechnology</i> , 2018 , 29, 474002	3.4	22
74	Synthesis of ultrathin two-dimensional nanosheets and van der Waals heterostructures from non-layered CuInS_2 . <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	21
73	Novel heterostructured InN/TiO_2 submicron fibers designed for high performance visible-light-driven photocatalysis. <i>Catalysis Science and Technology</i> , 2017 , 7, 5105-5112	5.5	20
72	Preparation of Helical $\text{BiVO}_4/\text{Ag}/\text{C}_3\text{N}_4$ for Selective Oxidation of C-H Bond under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17500-17506	8.3	20
71	Light-Activated Liquid Crystalline Hierarchical Architecture Toward Photonics. <i>Advanced Optical Materials</i> , 2019 , 7, 1900393	8.1	19
70	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018 , 120, 216601	7.4	19
69	Planar Terahertz Photonics Mediated by Liquid Crystal Polymers. <i>Advanced Optical Materials</i> , 2020 , 8, 1902124	8.1	18
68	Generation of self-healing and transverse accelerating optical vortices. <i>Applied Physics Letters</i> , 2016 , 109, 121105	3.4	18
67	Liquid crystal depolarizer based on photoalignment technology. <i>Photonics Research</i> , 2016 , 4, 70	6	17
66	Patterning monolayer graphene with zigzag edges on hexagonal boron nitride by anisotropic etching. <i>Applied Physics Letters</i> , 2016 , 109, 053101	3.4	17
65	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS_2 . <i>Crystals</i> , 2016 , 6, 115	2.3	15
64	A Fast-Response and Helicity-Dependent Lens Enabled by Micro-Patterned Dual-Frequency Liquid Crystals. <i>Crystals</i> , 2019 , 9, 111	2.3	14
63	Fabrication of high-quality all-graphene devices with low contact resistances. <i>Nano Research</i> , 2014 , 7, 1449-1456	10	14
62	Carbon-based spintronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 207-221	3.6	14
61	Helicity-dependent forked vortex lens based on photo-patterned liquid crystals. <i>Optics Express</i> , 2017 , 25, 14059-14064	3.3	14
60	Integrated and reconfigurable optical paths based on stacking optical functional films. <i>Optics Express</i> , 2016 , 24, 25510-25514	3.3	14
59	Ultrafine nanoparticles of W-doped SnO for durable HS sensors with fast response and recovery.. <i>RSC Advances</i> , 2019 , 9, 11046-11053	3.7	13

58	Generation of strong cylindrical vector pulses via stimulated Brillouin amplification. <i>Applied Physics Letters</i> , 2017 , 110, 141104	3.4	13
57	Generating, Separating and Polarizing Terahertz Vortex Beams via Liquid Crystals with Gradient-Rotation Directors. <i>Crystals</i> , 2017 , 7, 314	2.3	12
56	Ultrafast switching of optical singularity eigenstates with compact integrable liquid crystal structures. <i>Optics Express</i> , 2018 , 26, 28818-28826	3.3	12
55	Examining second-harmonic generation of high-order Laguerre-Gaussian modes through a single cylindrical lens. <i>Optics Letters</i> , 2017 , 42, 4387-4390	3	12
54	Fragmentation of twisted light in photon-phonon nonlinear propagation. <i>Applied Physics Letters</i> , 2018 , 112, 161103	3.4	11
53	Crystal structure of DnaT84-153-dT10 ssDNA complex reveals a novel single-stranded DNA binding mode. <i>Nucleic Acids Research</i> , 2014 , 42, 9470-83	20.1	11
52	Promising ferrimagnetic double perovskite oxides towards high spin polarization at high temperature. <i>AIP Advances</i> , 2013 , 3, 012107	1.5	10
51	Control the orbital angular momentum in third-harmonic generation using quasi-phase-matching. <i>Optics Express</i> , 2018 , 26, 17563-17570	3.3	9
50	A New Ferroelectric Phase of YMnO ₃ Induced by Oxygen-Vacancy Ordering. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1264-1268	3.8	9
49	Multiple generations of high-order orbital angular momentum modes through cascaded third-harmonic generation in a 2D nonlinear photonic crystal. <i>Optics Express</i> , 2017 , 25, 11556-11563	3.3	9
48	Mechanically-Controllable Strong 2D Ferroelectricity and Optical Properties of Semiconducting BiN Monolayer. <i>ACS Applied Nano Materials</i> , 2019 , 2, 58-63	5.6	9
47	Oxygen-octahedral distortion and electronic correlation induced semiconductor gaps in ferrimagnetic double perovskite Ca ₂ MReO ₆ (M = Cr, Fe). <i>RSC Advances</i> , 2015 , 5, 63165-63174	3.7	8
46	Spin-controlled massive channels of hybrid-order Poincaré sphere beams. <i>Applied Physics Letters</i> , 2020 , 117, 081101	3.4	8
45	Tunable band-pass optical vortex processor enabled by wash-out-refill chiral superstructures. <i>Applied Physics Letters</i> , 2021 , 118, 151102	3.4	8
44	Smectic Defect Engineering Enabled by Programmable Photoalignment. <i>Advanced Optical Materials</i> , 2020 , 8, 2000593	8.1	7
43	Soft phonon modes driven huge difference on lattice thermal conductivity between topological semimetal WC and WN. <i>Journal of Chemical Physics</i> , 2018 , 148, 144706	3.9	7
42	Multifunctional Liquid Crystal Device for Grayscale Pattern Display and Holography with Tunable Spectral-Response. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100591	8.3	7
41	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. <i>Nature</i> , 2021 , 599, 404-410	50.4	7

40	Liquid crystal devices for vector vortex beams manipulation and quantum information applications [Invited]. <i>Chinese Optics Letters</i> , 2021 , 19, 112601	2.2	7
39	Switchable Second-Harmonic Generation of Airy Beam and Airy Vortex Beam. <i>Advanced Optical Materials</i> , 2021 , 9, 2001776	8.1	7
38	Copper-coated TiN nanofibers with high electrical conductivity: a new advance in conductive one-dimensional nanostructures. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7272-7276	7.1	6
37	Liquid-Crystal-Mediated Active Waveguides toward Programmable Integrated Optics. <i>Advanced Optical Materials</i> , 2020 , 8, 1902033	8.1	6
36	Tailoring the photon spin via light-matter interaction in liquid-crystal-based twisting structures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	6
35	Electrical Properties of NASICON-type Structured $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ Solid Electrolyte Prepared by 1,2-Propylene glycol-assisted Sol-gel Method. <i>Chinese Journal of Chemical Physics</i> , 2012 , 25, 703-707	0.9	6
34	Ferroelectric liquid crystal mediated fast switchable orbital angular momentum of light. <i>Optics Express</i> , 2019 , 27, 36903-36910	3.3	6
33	Crystal and EM structures of human phosphoribosyl pyrophosphate synthase I (PRS1) provide novel insights into the disease-associated mutations. <i>PLoS ONE</i> , 2015 , 10, e0120304	3.7	6
32	Efficient Perovskite Solar Cells with a Novel Aggregation-Induced Emission Molecule as Hole-Transport Material. <i>Solar Rrl</i> , 2020 , 4, 1900189	7.1	6
31	Highly Selective Synthesis of Monolayer or Bilayer WSe ₂ Single Crystals by Pre-annealing the Solid Precursor. <i>Chemistry of Materials</i> , 2021 , 33, 1307-1313	9.6	6
30	Spin-Decoupled Transflective Spatial Light Modulations Enabled by a Piecewise-Twisted Anisotropic Monolayer. <i>Advanced Science</i> , 2202424	13.6	6
29	Single Bi ₂ S ₃ /Bi ₂ S ₃ -xO _x nanowire photodetector with broadband response from ultraviolet to near-infrared range. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 120, 114041	3	5
28	Strain-controlled insulator-metal transition in YTiO ₃ /SrTiO ₃ superlattices: effect of interfacial reconstruction. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9898-9902	7.1	5
27	Polymer semiconductors incorporating head-to-head linked 4-alkoxy-5-(3-alkylthiophen-2-yl)thiazole.. <i>RSC Advances</i> , 2018 , 8, 35724-35734	3.7	5
26	Programmable self-propelling actuators enabled by a dynamic helical medium. <i>Science Advances</i> , 2021 , 7,	14.3	5
25	Simultaneous Realization of Dynamic and Hybrid Multiplexed Holography via Light-Activated Chiral Superstructures. <i>Laser and Photonics Reviews</i> , 2200011	8.3	5
24	Pancharatnam-Berry phase reversal via opposite-chirality-coexisted superstructures.. <i>Light: Science and Applications</i> , 2022 , 11, 135	16.7	5
23	Optical field control via liquid crystal photoalignment. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 644, 3-11	0.5	4

22	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. <i>Applied Physics Letters</i> , 2019 , 115, 083104	3.4	4
21	Evolution of orbital angular momentum in a soft quasi-periodic structure with topological defects. <i>Optics Express</i> , 2019 , 27, 21667-21676	3.3	4
20	Graphene quantum dots assisted exfoliation of atomically-thin 2D materials and as-formed 0D/2D van der Waals heterojunction for HER. <i>Carbon</i> , 2021 , 184, 554-561	10.4	4
19	Analogous Optical Activity in Free Space Using a Single Pancharatnam Berry Phase Element. <i>Laser and Photonics Reviews</i> , 2100291	8.3	3
18	Visible and Online Detection of Near-Infrared Optical Vortices via Nonlinear Photonic Crystals. <i>Advanced Optical Materials</i> , 2101098	8.1	3
17	High-quality graphene grown on polycrystalline PtRh20 alloy foils by low pressure chemical vapor deposition and its electrical transport properties. <i>Applied Physics Letters</i> , 2016 , 108, 063102	3.4	3
16	Magnetic Anisotropy Control with Curie Temperature above 400 K in a van der Waals Ferromagnet for Spintronic Device.. <i>Advanced Materials</i> , 2022 , e2201209	24	3
15	Nanoplates: Synthesis of 2D Layered BiI3 Nanoplates, BiI3/WSe2 van der Waals Heterostructures and Their Electronic, Optoelectronic Properties (Small 38/2017). <i>Small</i> , 2017 , 13,	11	2
14	Isomerization enabling near-infrared electron acceptors.. <i>RSC Advances</i> , 2019 , 9, 37287-37291	3.7	2
13	Full-Stokes Polarimetry for Visible Light Enabled by an All-Dielectric Metasurface. <i>Advanced Photonics Research</i> , 2100373	1.9	2
12	Polarization-dispersive imaging spectrometer for scattering circular dichroism spectroscopy of single chiral nanostructures.. <i>Light: Science and Applications</i> , 2022 , 11, 64	16.7	2
11	3D Engineering of Orbital Angular Momentum Beams via Liquid-Crystal Geometric Phase. <i>Laser and Photonics Reviews</i> , 2200118	8.3	2
10	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. <i>Physical Review B</i> , 2020 , 102,	3.3	1
9	An all-Liquid-Crystal Strategy for Fast Orbital Angular Momentum Encoding and Optical Vortex Steering. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 1-1	3.8	1
8	Parallel Processing OAM Modes Through Liquid Crystal Photoalignment 2018 ,		1
7	Electrostatic and electrochemical charging mechanisms for electric-double-layer gating media based on a crystalline LaF3 solid electrolyte. <i>APL Materials</i> , 2021 , 9, 061107	5.7	1
6	Photoinduced Liquid Crystal Domain Engineering for Optical Field Control 2019 , 361-387		1
5	Patterned optical anisotropic film for generation of non-diffracting vortex beams. <i>Applied Physics Letters</i> , 2022 , 120, 031101	3.4	0

4	Schottky Contacts Regularized Linear Regression for Signal Inconsistency Circumvent in Resistive Gas Micro-Nanosensors.. <i>Small Methods</i> , 2021 , 5, e2101194	12.8	o
3	Regulation of Cued Fear Expression via Corticotropin-Releasing-Factor Neurons in the Ventral Anteromedial Thalamic Nucleus. <i>Neuroscience Bulletin</i> , 2021 , 37, 217-228	4.3	o
2	Visible and Online Detection of Near-Infrared Optical Vortices via Nonlinear Photonic Crystals (Advanced Optical Materials 1/2022). <i>Advanced Optical Materials</i> , 2022 , 10, 2270002	8.1	
1	Single-cell reconstruction reveals input patterns and pathways into corticotropin-releasing factor neurons in the central amygdala in mice.. <i>Communications Biology</i> , 2022 , 5, 322	6.7	