

Wei Zheng

List of Publications by Year in descending order

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124
papers

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126708

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131
all docs

131
docs citations

131
times ranked

3426
citing authors

#	ARTICLE	IF	CITATIONS
1	Gallium oxide solar-blind ultraviolet photodetectors: a review. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8753-8770.	2.7	353
2	All-inorganic CsCu ₂ I ₃ Single Crystal with High PLQY (15.7%) Intrinsic White-Light Emission via Strongly Localized 1D Excitonic Recombination. <i>Advanced Materials</i> , 2019, 31, e1905079.	11.1	229
3	Low-Dimensional Structure Vacuum-Ultraviolet Sensitive (<math>\lambda_{\text{res}} < 200 \text{ nm}</math>) Photodetector with Fast Response Speed Based on High-Quality AlN Micro/Nanowire. <i>Advanced Materials</i> , 2015, 27, 3921-3927.	11.1	208
4	Vacuum-Ultraviolet Photovoltaic Detector. <i>ACS Nano</i> , 2018, 12, 425-431.	7.3	193
5	Synthesis of two-dimensional $\text{In}_2\text{Ga}_2\text{O}_3$ nanosheets for high-performance solar blind photodetectors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3254-3259.	2.7	167
6	High-Performance Graphene/ $\text{In}_2\text{Ga}_2\text{O}_3$ Heterojunction Deep-Ultraviolet Photodetector with Hot-Electron Excited Carrier Multiplication. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22419-22426.	4.0	162
7	TMK1-mediated auxin signalling regulates differential growth of the apical hook. <i>Nature</i> , 2019, 568, 240-243.	13.7	156
8	High quality $\text{In}_2\text{Ga}_2\text{O}_3$ film grown with N_2O for high sensitivity solar-blind-ultraviolet photodetector with fast response speed. <i>Journal of Alloys and Compounds</i> , 2018, 735, 150-154.	2.8	142
9	Vacuum-ultraviolet photodetectors. <i>Photonix</i> , 2020, 1, .	5.5	126
10	Dual Self-Trapped Exciton Emission with Ultrahigh Photoluminescence Quantum Yield in CsCu ₂ I ₃ and Cs ₃ Cu ₂ I ₅ Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20469-20476.	1.5	108
11	Vacuum-Ultraviolet Photodetection in Few-Layered h-BN. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27116-27123.	4.0	106
12	Ultrahigh EQE (15%) Solar-Blind UV Photovoltaic Detector with Organic-Inorganic Heterojunction via Dual Built-in Fields Enhanced Photogenerated Carrier Separation Efficiency Mechanism. <i>Advanced Functional Materials</i> , 2019, 29, 1900935.	7.8	106
13	Vacuum-Ultraviolet Photovoltaic Detector with Improved Response Speed and Responsivity via Heating Annihilation Trap State Mechanism. <i>Advanced Optical Materials</i> , 2018, 6, 1800697.	3.6	102
14	High-Crystalline 2D Layered PbI_2 with Ultrasoft Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection. <i>Advanced Electronic Materials</i> , 2016, 2, 1600291.	2.6	98
15	Vacuum-Ultraviolet Photon Detections. <i>IScience</i> , 2020, 23, 101145.	1.9	98
16	Growth, characterization and optoelectronic applications of pure-phase large-area CsPb ₂ Br ₅ flake single crystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 446-451.	2.7	88
17	Graphene Interdigital Electrodes for Improving Sensitivity in a Ga_2O_3 :Zn Deep-Ultraviolet Photoconductive Detector. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1013-1020.	4.0	86
18	An ultrafast-temporally-responsive flexible photodetector with high sensitivity based on high-crystallinity organic-inorganic perovskite nanoflake. <i>Nanoscale</i> , 2017, 9, 12718-12726.	2.8	83

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19	All-silicon photovoltaic detectors with deep ultraviolet selectivity. <i>Photonix</i> , 2020, 1, .	5.5	71
20	Vacuum Ultraviolet Photodetection in Two-Dimensional Oxides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20696-20702.	4.0	68
21	Raman tensor of AlN bulk single crystal. <i>Photonics Research</i> , 2015, 3, 38.	3.4	66
22	Balanced Photodetection in One-Step Liquid-Phase-Synthesized CsPbBr ₃ Micro-/Nanoflake Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1865-1870.	4.0	60
23	Aqueous Solution Growth of Millimeter-Sized Nongreen-Luminescent Wide Bandgap Cs ₄ PbBr ₆ Bulk Crystal. <i>Crystal Growth and Design</i> , 2018, 18, 6393-6398.	1.4	59
24	Vacuum ultraviolet photovoltaic arrays. <i>Photonics Research</i> , 2019, 7, 98.	3.4	57
25	Ultrafast Photovoltaic-Type Deep Ultraviolet Photodetectors Using Hybrid Zero-/Two-Dimensional Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8412-8418.	4.0	53
26	Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. <i>ACS Photonics</i> , 2019, 6, 1869-1875.	3.2	49
27	Ultrawide Band Gap Oxide Nanodots (E_g ; 4.8 eV) for a High-Performance Deep Ultraviolet Photovoltaic Detector. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6030-6036.	4.0	39
28	Photophysics in Cs ₃ Cu ₂ I ₅ and CsCu ₂ I ₃ . <i>Materials Chemistry Frontiers</i> , 2021, 5, 7088-7107.	3.2	39
29	Enhanced performance of solar-blind ultraviolet photodetector based on Mg-doped amorphous gallium oxide film. <i>Vacuum</i> , 2019, 159, 204-208.	1.6	38
30	Ultrafast (600Âps) Î±-ray scintillators. <i>Photonix</i> , 2022, 3, .	5.5	38
31	Oxides/graphene heterostructure for deep-ultraviolet photovoltaic photodetector. <i>Carbon</i> , 2019, 147, 427-433.	5.4	37
32	Ultra-Robust Deep-UV Photovoltaic Detector Based on Graphene/(AlGa)2O3/GaN with High-Performance in Temperature Fluctuations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48071-48078.	4.0	36
33	Ultrawide-Bandgap Amorphous MgGaO: Nonequilibrium Growth and Vacuum Ultraviolet Application. <i>Advanced Optical Materials</i> , 2019, 7, 1801272.	3.6	36
34	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42681-42687.	4.0	33
35	Ultra-high Photovoltage (2.45 V) Forming in Graphene Heterojunction via Quasi-Fermi Level Splitting Enhanced Effect. <i>IScience</i> , 2020, 23, 100818.	1.9	33
36	Laser Tuning in van der Waals Crystals. <i>ACS Nano</i> , 2018, 12, 2001-2007.	7.3	31

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37	High-Performance Solar Blind Ultraviolet Photodetector Based on Single Crystal Orientation Mg-Alloyed Ga ₂ O ₃ Film Grown by a Nonequilibrium MOCVD Scheme. ACS Applied Electronic Materials, 2019, 1, 1653-1659.	2.0	31
38	X-ray radiation excited ultralong (>20,000 seconds) intrinsic phosphorescence in aluminum nitride single-crystal scintillators. Nature Communications, 2020, 11, 4351.	5.8	31
39	Balanced Photodetection in Mixed-Dimensional Phototransistors Consisting of CsPbBr ₃ Quantum Dots and Few-Layer MoS ₂ . ACS Applied Nano Materials, 2019, 2, 2599-2605.	2.4	30
40	Temperature-Dependent Phonon Shifts in van der Waals Crystals. Journal of Physical Chemistry Letters, 2021, 12, 5261-5270.	2.1	29
41	Raman tensor of layered black phosphorus. Photonix, 2020, 1, .	5.5	29
42	Raman tensor of layered MoS ₂ . Optics Letters, 2020, 45, 1313.	1.7	29
43	Strongly anisotropic behavior of A ₁ (TO) phonon mode in bulk AlN. Journal of Alloys and Compounds, 2014, 584, 374-376.	2.8	28
44	Elucidation of "phase difference" in Raman tensor formalism. Photonics Research, 2018, 6, 709.	3.4	28
45	Raman Tensor of van der Waals MoSe ₂ . Journal of Physical Chemistry Letters, 2020, 11, 4311-4316.	2.1	28
46	Vacuum Ultraviolet (120–200 nm) Avalanche Photodetectors. Advanced Optical Materials, 2022, 10, .	3.6	27
47	A Strategy of Transparent Conductive Oxide for UV Focal Plane Array Detector: Two-Step Thermodynamic Process. Advanced Electronic Materials, 2016, 2, 1600320.	2.6	25
48	High-sensitive and fast response to 255 nm deep-UV light of CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I) bulk crystals. Royal Society Open Science, 2018, 5, 180905.	1.1	25
49	Raman spectroscopy regulation in van der Waals crystals. Photonics Research, 2018, 6, 991.	3.4	25
50	Broadband graphene-based photoacoustic microscopy with high sensitivity. Nanoscale, 2018, 10, 8606-8614.	2.8	24
51	Amorphous boron nitride for vacuum-ultraviolet photodetection. Applied Physics Letters, 2020, 117, .	1.5	24
52	Anisotropic temperature-dependence of optical phonons in layered Pbl ₂ . Journal of Raman Spectroscopy, 2018, 49, 775-779.	1.2	23
53	One-step on-chip synthesis of highly-luminescent Cs ₄ PbBr ₆ microcrystal. Materials Letters, 2018, 232, 118-121.	1.3	23
54	Raman Tensor of WSe ₂ via Angle-Resolved Polarized Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 29337-29342.	1.5	23

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55	Near vacuum-ultraviolet aperiodic oscillation emission of AlN films. <i>Science Bulletin</i> , 2020, 65, 827-831.	4.3	21
56	Real-Time Tracking of Emitter Generation in a Zero-Dimensional Perovskite. <i>Chemistry of Materials</i> , 2021, 33, 3721-3728.	3.2	20
57	Ultrawide-bandgap (6.14 eV) (AlGa)2O3/Ga2O3 heterostructure designed by lattice matching strategy for highly sensitive vacuum ultraviolet photodetection. <i>Science China Materials</i> , 2021, 64, 3027-3036.	3.5	20
58	In-plane enhanced epitaxy for step-flow AlN yielding a high-performance vacuum-ultraviolet photovoltaic detector. <i>CrystEngComm</i> , 2020, 22, 654-659.	1.3	19
59	Raman tensor of layered black arsenic. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1324-1330.	1.2	19
60	Pt/ZnGa ₂ O ₄ /p-Si Back-to-Back Heterojunction for Deep UV Sensitive Photovoltaic Photodetection with Ultralow Dark Current and High Spectral Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5653-5660.	4.0	19
61	Strong Electron-Phonon Coupling in \hat{I}^2 -Ga ₂ O ₃ : A Huge Broadening of Self-Trapped Exciton Emission and a Significant Red Shift of the Direct Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3053-3058.	2.1	19
62	ZnGa ₂ O ₄ deep-ultraviolet photodetector based on Si substrate. <i>Materials Letters</i> , 2021, 283, 128805.	1.3	18
63	Lu ₂ O ₃ : A promising ultrawide bandgap semiconductor for deep UV photodetector. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	18
64	Experimental Evidence on Stability of N Substitution for O in ZnO Lattice. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8901-8907.	2.1	17
65	Raman tensor of layered WS ₂ . <i>Science China Materials</i> , 2020, 63, 1848-1854.	3.5	17
66	Raman Tensor of Layered Td-WTe ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16596-16603.	1.5	16
67	Self-assembled eco-friendly metal halide heterostructures for bright and color-tunable white radioluminescence. <i>Cell Reports Physical Science</i> , 2021, 2, 100437.	2.8	16
68	High-Efficiency Down-Conversion Radiation Fluorescence and Ultrafast Photoluminescence (1.2 ns) at the Interface of Hybrid Cs ₄ PbBr ₆ CsI Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7342-7349.	2.1	16
69	Brushed Crystallized Ultrathin Oxides: Recrystallization and Deep-Ultraviolet Imaging Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2166-2173.	2.0	15
70	Sensitive and Fast Direct Conversion X-ray Detectors Based on Single-Crystalline HgI ₂ Photoconductor and ZnO Nanowire Vacuum Diode. <i>Advanced Materials Technologies</i> , 2020, 5, 1901108.	3.0	15
71	Crystal Growth of \hat{I}^{\pm} -HgI ₂ by the Temperature Difference Method for High Sensitivity X-ray Detection. <i>Crystal Growth and Design</i> , 2015, 15, 3383-3387.	1.4	14
72	Raman Tensor of Layered SnS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10094-10099.	2.1	14

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73	Pt/(InGa) ₂ O ₃ /In-Si Heterojunction-Based Solar-Blind Ultraviolet Photovoltaic Detectors with an Ideal Absorption Cutoff Edge of 280 nm. ACS Applied Materials & Interfaces, 2021, 13, 44568-44576.	4.0	14
74	Ternary compound MgTiO ₃ combined with graphene for solar-blind deep ultraviolet photodetection. Journal of Alloys and Compounds, 2022, 911, 165031.	2.8	14
75	A possible high-mobility signal in bulk MoTe ₂ : Temperature independent weak phonon decay. AIP Advances, 2016, 6, .	0.6	13
76	Efficient sky-blue radioluminescence of microcrystalline Cs ₃ Cu ₂ I ₅ based large-scale eco-friendly composite scintillators for high-sensitive ionizing radiation detection. Materials Chemistry Frontiers, 2021, 5, 4739-4745.	3.2	13
77	Anomalous Blue Shift of Exciton Luminescence in Diamond. Nano Letters, 2022, 22, 1604-1608.	4.5	12
78	Nanosecond and Highly Sensitive Scintillator Based on All-Inorganic Perovskite Single Crystals. ACS Applied Materials & Interfaces, 2022, 14, 1489-1495.	4.0	12
79	Extremely High Photovoltage (3.16 V) Achieved in Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2022, 9, 2101-2108.	3.2	12
80	Lattice deformation of wurtzite Mg Zn _{1-x} O alloys: An extended X-ray absorption fine structure study. Journal of Alloys and Compounds, 2014, 582, 157-160.	2.8	11
81	Bandgap Engineering of ZrGaO Films for Deep-Ultraviolet Detection. IEEE Electron Device Letters, 2021, 42, 895-898.	2.2	10
82	Band alignment of MAPb(1-x)Br _x) ₃ thin films by vacuum deposition. Applied Physics Letters, 2016, 109, .	1.5	9
83	Silicon Nitride Deep-Ultraviolet Photoconductive Detector. IEEE Electron Device Letters, 2020, 41, 1316-1319.	2.2	9
84	Multistep Thermodynamics Yielding Deep Ultraviolet Transparent Conductive Ga ₂ O ₃ Films. Journal of Physical Chemistry C, 2020, 124, 16722-16727.	1.5	9
85	Identification of TO and LO phonons in cubic natBP, 10BP and 11BP crystals. Applied Physics Letters, 2021, 118, .	1.5	9
86	Quasiphoton polaritons. Heliyon, 2020, 6, e05277.	1.4	8
87	Ultra-Long Van Der Waals CdBr ₂ Micro/Nanobelts. Small Methods, 2020, 4, 2000501.	4.6	8
88	Extraction of carrier concentration and mobility of ZnO by mid-infrared reflectance spectroscopy. Journal of Luminescence, 2021, 239, 118365.	1.5	8
89	Deep-ultraviolet aperiodic-oscillation emission of AlGa _N films. Optics Letters, 2020, 45, 1719.	1.7	8
90	Effects of photonic crystal structures on the imaging properties of a ZnO:Ga image converter. Optics Letters, 2018, 43, 5647.	1.7	8

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91	Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10996-11004.	2.1	8
92	A Solar-Blind Ultraviolet Photodetector With Graphene/MgZnO/GaN Vertical Structure. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	8
93	Temperature-dependent optical phonon shifts and splitting in cubic AB_2O_4 , AB_2S_4 , and AB_2X_4 crystals. <i>Optics Letters</i> , 2021, 46, 4844.	1.7	7
94	Ligand Tailoring Oxide Colloidal Quantum Dots for Silicon-Integrated Ultraviolet Photodiode. <i>Advanced Electronic Materials</i> , 2020, 6, 1901238.	2.6	7
95	Lu-Alloyed SnO_x Films With Tunable Optical Bandgap for Deep Ultraviolet Detection. <i>IEEE Electron Device Letters</i> , 2022, 43, 84-87.	2.2	7
96	Study of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ Alloys ($0 < x < 0.15$) by X-Ray Absorption Spectroscopy. <i>Advanced Materials Research</i> , 2013, 663, 361-365.	0.3	6
97	Photodetectors: Low-Dimensional Structure Vacuum-Ultraviolet-Sensitive ($\lambda < 200$ nm) Photodetector with Fast-Response Speed Based on High-Quality AlN Micro/Nanowire (Adv. Mater.) Tj ETQq1 1 0.1784314 egBT /Over		
98	Dual-channel ultra-narrowband mid-infrared filter based on bilayer metallic grating. <i>Optik</i> , 2019, 199, 163352.	1.4	6
99	2D van der Waals Molecular Crystal HgI_2 : Economical, Rapid, and Substrate-Free Liquid-Phase Synthesis and Strong In-Plane Optical Anisotropy. <i>Small</i> , 2021, 17, e2005368.	5.2	6
100	Laser Tuning in Layered h-BN Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3795-3801.	2.1	6
101	A CTAB-mediated antisolvent vapor route to shale-like Cs_4PbBr_6 microplates showing an eminent photoluminescence. <i>RSC Advances</i> , 2020, 10, 10023-10029.	1.7	5
102	High-Pressure O ₂ Annealing Enhances the Crystallinity of Ultrawide-Band-Gap Sesquioxides Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16660-16668.	4.0	5
103	Fermi-Surface Modulation of Graphene Synergistically Enhances the Open-Circuit Voltage and Quantum Efficiency of Photovoltaic Solar-Blind Ultraviolet Detectors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11106-11113.	2.1	5
104	Ultra-Hard (41 GPa) Isotopic Pure Si Semiconductor Microwires for Flexible Photodetection and Pressure Sensing. <i>ACS Nano</i> , 2022, 16, 4004-4013.	7.3	5
105	Ultrahigh EQE (38.1%) Deep-UV Photodiode with Chemically-Doped Graphene as Hole Transport Layer. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	5
106	Low-Temperature Solution-Processed Lu_2O_3 Films for Deep-UV Photovoltaic Detectors With High Sensitivity. <i>IEEE Electron Device Letters</i> , 2022, 43, 1295-1298.	2.2	5
107	Amorphous $(\text{LuGa})_2\text{O}_3$ film for deep-ultraviolet photovoltaic detector. <i>Materials Letters</i> , 2021, 297, 129980.	1.3	4
108	Micron-Thick Hexagonal Boron Nitride Crystalline Film for Vacuum Ultraviolet Photodetection with Improved Sensitivity and Spectral Response. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3774-3780.	2.0	4

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109	Effect of temperature distribution on growth habit of AlN crystal. Shenzhen Daxue Xuebao (Ligong) Tj ETQq1 1 0.784314 rgBT /Overl	0.1	4
110	Semipolar (11 $\bar{2}$) AlN Grown on m-Plane Sapphire by Flow-Rate Modulation Epitaxy for Vacuum-Ultraviolet Photodetection. Crystal Growth and Design, 2022, 22, 1731-1737.	1.4	4
111	Manganese K_{α} - and L_{α} -Edge X-Ray Absorption Fine Structure Study of Zn _{1-x} Mn _x Te. Advanced Materials Research, 2013, 634-638, 2489-2492.	0.3	3
112	2D Materials: High-Crystalline 2D Layered PbI ₂ with Ultrasoft Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection (Adv. Electron. Mater. 11/2016). Advanced Electronic Materials, 2016, 2, .	2.6	3
113	Laser tuning in AlN single crystals. Science China Materials, 2021, 64, 2877-2882.	3.5	3
114	Super-hard α -Tanghulu β -cubic BP microwire covered with amorphous SiO ₂ balls. Heliyon, 2021, 7, e08300.	1.4	3
115	Growth of β -Type AlN Crystals by C and Si Codoping. Advanced Materials Research, 0, 306-307, 246-250.	0.3	2
116	Raman tensor of graphite: Symmetry of G, D and D_2 phonons. Science China Materials, 2022, 65, 268-272.	3.5	2
117	Narrow band emission from layered β -HgI ₂ micro-/nano-sheets with high Huang-Rhys factor. Journal of Luminescence, 2021, 237, 118161.	1.5	2
118	Observation of negative differential resistance in SiO ₂ /Si heterostructures. Cell Reports Physical Science, 2021, 2, 100622.	2.8	2
119	Extracting carrier concentration of black c-BN single crystal by mid-infrared reflectance spectroscopy. Vacuum, 2022, 202, 111132.	1.6	2
120	Effect of Annealing Temperature on Solar-Blind Ultraviolet Photodetectors Based on Solution-Processed Scandium Oxide Films. IEEE Electron Device Letters, 2022, 43, 1507-1510.	2.2	2
121	Performance-enhanced CsPbBr ₃ /HfO ₂ /Si Heterostructure Optoelectronics through the Tunneling Effect. Advanced Materials Interfaces, 2021, 8, 2100279.	1.9	1
122	Correction to α -Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2019, 6, 3338-3338.	3.2	0
123	Doped metasurfaces: Etched structure-free films based on regular spatially doped semiconductor and compatible with general optical ones. IScience, 2021, 24, 102907.	1.9	0
124	Super-Hard α -Tanghulu β -Cubic BP Microrod Covered with Amorphous SiO ₂ Balls. SSRN Electronic Journal, 0, , .	0.4	0