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**Solution-processed hybrid perovskite photodetectors with high detectivity**

**DOI: 10.1038/ncomms6404**

**Nature Communications, 2014, 5, 5404.**

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#	Paper	IF	Citations
1987	Perovskite Photovoltaics: Rare Functions of Organo Lead Halide in Solar Cells and Optoelectronic Devices. <b>2015</b> , 44, 720-729		194
1986	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. <b>2015</b> , 27, 6157-62		67
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1479	The Making and Breaking of Lead-Free Double Perovskite Nanocrystals of Cesium Silver-Bismuth Halide Compositions. <b>2018</b> , 18, 3502-3508	184
1478	Transparent, Flexible Silicon Nanostructured Wire Networks with Seamless Junctions for High-Performance Photodetector Applications. <b>2018</b> , 12, 4727-4735	41
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1470	Evidence of Bipolar Resistive Switching Memory in Perovskite Solar Cell. <b>2018</b> , 6, 454-463	11
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1316	Bandgap engineering of a lead-free defect perovskite CsBiI <sub>3</sub> through trivalent doping of Ru.. <b>2018</b> , 8, 25802-25807	26
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1313	Highly Emissive Self-Trapped Excitons in Fully Inorganic Zero-Dimensional Tin Halides. <b>2018</b> , 130, 11499-11503	31
1312	Spray-Coated CsPbBr <sub>3</sub> Quantum Dot Films for Perovskite Photodiodes. <b>2018</b> , 10, 26387-26395	41
1311	Halide Perovskite Nanopillar Photodetector. <b>2018</b> , 12, 8564-8571	46
1310	One-Pot Synthesis of Highly Stable CsPbBr <sub>3</sub> @SiO <sub>2</sub> Core-Shell Nanoparticles. <b>2018</b> , 12, 8579-8587	262
1309	Single-crystalline layered metal-halide perovskite nanowires for ultrasensitive photodetectors. <b>2018</b> , 1, 404-410	224
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1303	Novel Series of Quasi-2D Ruddlesden-Popper Perovskites Based on Short-Chained Spacer Cation for Enhanced Photodetection. <b>2018</b> , 10, 19019-19026	58
1302	Temperature Assisted Nucleation and Growth To Optimize Perovskite Morphology at Liquid Interface: A Study by Electrochemical Impedance Spectroscopy. <b>2018</b> , 1, 4420-4425	12
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1207	Low-temperature processed yttrium-doped SrSnO <sub>3</sub> perovskite electron transport layer for planar heterojunction perovskite solar cells with high efficiency. <b>2019</b> , 59, 1-9	33
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1204	Single-Source Vapor Deposition of Quantum-Cutting Yb <sup>3+</sup> :CsPb(Cl <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> and Other Complex Metal-Halide Perovskites. <b>2019</b> , 2, 4560-4565	24
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1202	Disphenoidal Zero-Dimensional Lead, Tin, and Germanium Halides: Highly Emissive Singlet and Triplet Self-Trapped Excitons and X-ray Scintillation. <b>2019</b> , 141, 9764-9768	186
1201	One Stone, Two Birds: High-Efficiency Blue-Emitting Perovskite Nanocrystals for LED and Security Ink Applications. <b>2019</b> , 31, 5116-5123	43
1200	Nanoconfining Optoelectronic Materials for Enhanced Performance and Stability <b>2019</b> , 31, 4953-4970	18
1199	Air-processed, large grain perovskite films with low trap density from perovskite crystal engineering for high-performance perovskite solar cells with improved ambient stability. <b>2019</b> , 54, 12000-12011	18
1198	3D-printed continuous flow reactor for high yield synthesis of CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = Br, I) nanocrystals. <b>2019</b> , 7, 9167-9174	15
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1196	Visible Light Communication system using an organic emitter and a perovskite photodetector. <b>2019</b> , 73, 292-298	21
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1184	Recent advances on organic-inorganic hybrid perovskite photodetectors with fast response. <b>2019</b> , 1, 164	32
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1180	Absolute energy level positions in tin- and lead-based halide perovskites. <i>Nature Communications</i> , <b>2019</b> , 10, 2560	17.4 195
1179	In Situ Observation of Crystallization Dynamics and Grain Orientation in Sequential Deposition of Metal Halide Perovskites. <b>2019</b> , 29, 1902319	34

1178	Highly stable lead-free Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> perovskite nanoplates for photodetection applications. <b>2019</b> , 12, 1894-1899	61
1177	Impact of Grain Sizes on Programmable Memory Characteristics in Two-Dimensional Organic-Inorganic Hybrid Perovskite Memory. <b>2019</b> , 11, 20225-20231	17
1176	Efficient Quantum Dot Light-Emitting Diodes Based on Trioctylphosphine Oxide-Passivated Organometallic Halide Perovskites. <b>2019</b> , 4, 9150-9159	18
1175	ZnO/WSe <sub>2</sub> vdW heterostructure for photocatalytic water splitting. <b>2019</b> , 7, 7104-7113	57
1174	High Responsivity and Response Speed Single-Layer Mixed-Cation Lead Mixed-Halide Perovskite Photodetectors Based on Nanogap Electrodes Manufactured on Large-Area Rigid and Flexible Substrates. <b>2019</b> , 29, 1901371	22
1173	Self-Powered X-Ray Detector Based on All-Inorganic Perovskite Thick Film with High Sensitivity Under Low Dose Rate. <b>2019</b> , 13, 1900094	34
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1171	Nanoionic Resistive-Switching Devices. <b>2019</b> , 5, 1900184	27
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1169	Low-temperature processing of optimally polymer-wrapped $\alpha$ -CsPbI <sub>3</sub> for self-powered flexible photo-detector application. <b>2019</b> , 7, 6986-6996	27
1168	(CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> AuX <sub>2</sub> ·H <sub>2</sub> O (X=Cl, Br) and (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> AuCl <sub>2</sub> : Low-Band Gap Lead-Free Layered Gold Halide Perovskite Materials. <b>2019</b> , 25, 9875-9884	11
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1165	High-Quality Single-Mode Lasers Based on Zero-Dimensional Cesium Lead Halide Perovskites. <b>2019</b> , 3, 1900127	14
1164	Temperature-Dependent Ambipolar Charge Carrier Mobility in Large-Crystal Hybrid Halide Perovskite Thin Films. <b>2019</b> , 11, 20838-20844	27
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1162	Halide Perovskite Nanocrystals for Next-Generation Optoelectronics. <b>2019</b> , 15, e1900801	37
1161	Band Tunable Microcavity Perovskite Artificial Human Photoreceptors. <b>2019</b> , 31, e1900231	35



1160	47-Fold EQE improvement in CsPbBr <sub>3</sub> perovskite light-emitting diodes via double-additives assistance. <b>2019</b> , 70, 264-271	9
1159	The versatility of copper tin sulfide. <b>2019</b> , 7, 17118-17182	29
1158	Trap engineering in solution processed PbSe quantum dots for high-speed MID-infrared photodetectors. <b>2019</b> , 7, 5658-5669	22
1157	Selenide effect for oxidation stability of the organic solvent-free copper sulfide Nano-particles and its organic photodiode application. <b>2019</b> , 484, 1253-1262	6
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