

# Akmaral Seitkhan

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,139  
citations

394421

19  
h-index

454955

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2536  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Power CuSCN Hydrogen Sensor Operating Reversibly at Room Temperature. <i>Advanced Functional Materials</i> , 2022, 32, 2102635.	14.9	8
2	A Tri-Channel Oxide Transistor Concept for the Rapid Detection of Biomolecules Including the SARS-CoV-2 Spike Protein. <i>Advanced Materials</i> , 2022, 34, e2104608.	21.0	19
3	Damp heat-stable perovskite solar cells with tailored-dimensionality 2D/3D heterojunctions. <i>Science</i> , 2022, 376, 73-77.	12.6	366
4	Efficient and stable perovskite-silicon tandem solar cells through contact displacement by MgF <sub>2</sub> . <i>Science</i> , 2022, 377, 302-306.	12.6	141
5	Rapid and up-scalable manufacturing of gigahertz nanogap diodes. <i>Nature Communications</i> , 2022, 13, .	12.8	11
6	Lithium-Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101593.	14.9	100
7	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Near-Infrared Absorbing Nonfullerene Acceptors. <i>Advanced Energy Materials</i> , 2021, 11, 2100166.	19.5	5
8	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , 2020, 13, 268-276.	30.8	40
9	Novel wide-bandgap non-fullerene acceptors for efficient tandem organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1164-1175.	10.3	39
10	Colossal Tunneling Electroresistance in Co-Planar Polymer Ferroelectric Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2020, 6, 1901091.	5.1	14
11	100% GHz zinc oxide Schottky diodes processed from solution on a wafer scale. <i>Nature Electronics</i> , 2020, 3, 718-725.	26.0	45
12	Long-range exciton diffusion in molecular non-fullerene acceptors. <i>Nature Communications</i> , 2020, 11, 5220.	12.8	204
13	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2004273.	14.9	17
14	Low-Voltage Heterojunction Metal Oxide Transistors via Rapid Photonic Processing. <i>Advanced Electronic Materials</i> , 2020, 6, 2000028.	5.1	25
15	Colloidal Quantum Dot Photovoltaics Using Ultrathin, Solution-Processed Bilayer In <sub>2</sub> O <sub>3</sub> /ZnO Electron Transport Layers with Improved Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 5135-5141.	5.1	13
16	17.1% Efficient Single-Junction Organic Solar Cells Enabled by n-Type Doping of the Bulk-Heterojunction. <i>Advanced Science</i> , 2020, 7, 1903419.	11.2	173
17	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS <sub>2</sub> as a Replacement for PEDOT:PSS. <i>Advanced Materials</i> , 2019, 31, e1902965.	21.0	500
18	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO <sub>3</sub> ) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019, 2, 8090-8097.	5.1	51

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19	Use of the Phen <sup>2</sup> NaDPO:Sn(SCN) <sub>2</sub> Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905810.	14.9	41
20	Light-Emitting Transistors Based on Solution-Processed Heterostructures of Self-Organized Multiple-Quantum-Well Perovskite and Metal-Oxide Semiconductors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800985.	5.1	18
21	Hybrid organic-metal oxide multilayer channel transistors with high operational stability. <i>Nature Electronics</i> , 2019, 2, 587-595.	26.0	49
22	Charge and Triplet Exciton Generation in Neat PC <sub>70</sub> BM Films and Hybrid CuSCN:PC <sub>70</sub> BM Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802476.	19.5	20
23	F-Substituted oligothiophenes serve as nonfullerene acceptors in polymer solar cells with open-circuit voltages >1 V. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9368-9372.	10.3	21
24	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN-Nanowire Heterointerface. <i>Advanced Science</i> , 2018, 5, 1700980.	11.2	19
25	Additive-Morphology Interplay and Loss Channels in All-Small-Molecule-Bulk Heterojunction (BHJ) Solar Cells with the Nonfullerene Acceptor IDTTBM. <i>Advanced Functional Materials</i> , 2018, 28, 1705464.	14.9	40
26	Charge Photogeneration and Recombination in Mesostructured CuSCN-Nanowire/PC <sub>70</sub> BM Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800095.	5.8	9
27	Solution-Processed In <sub>2</sub> O <sub>3</sub> /ZnO Heterojunction Electron Transport Layers for Efficient Organic Bulk Heterojunction and Inorganic Colloidal Quantum-Dot Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800076.	5.8	34
28	Large-area plastic nanogap electronics enabled by adhesion lithography. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	29
29	p-Doping of Copper(I) Thiocyanate (CuSCN) Hole-Transport Layers for High-Performance Transistors and Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802055.	14.9	50
30	Sub-second photonic processing of solution-deposited single layer and heterojunction metal oxide thin-film transistors using a high-power xenon flash lamp. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11724-11732.	5.5	37