

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8796180/qing-zhao-publications-by-citations.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	3,987 citations	32 h-index	61 g-index
95 ext. papers	4,594 ext. citations	8.5 avg, IF	5.58 L-index

#	Paper	IF	Citations
93	A polymer scaffold for self-healing perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 10228	17.4	439
92	Hysteresis Analysis Based on the Ferroelectric Effect in Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3937-45	6.4	291
91	Quantification of light-enhanced ionic transport in lead iodide perovskite thin films and its solar cell applications. <i>Light: Science and Applications</i> , 2017 , 6, e16243	16.7	257
90	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. <i>Nature Communications</i> , 2018 , 9, 1607	17.4	218
89	Light-Independent Ionic Transport in Inorganic Perovskite and Ultrastable Cs-Based Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4122-4128	6.4	186
88	Boron nitride nanopores: highly sensitive DNA single-molecule detectors. <i>Advanced Materials</i> , 2013 , 25, 4549-54	24	182
87	Nanopore-Based Measurements of Protein Size, Fluctuations, and Conformational Changes. <i>ACS Nano</i> , 2017 , 11, 5706-5716	16.7	164
86	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018 , 9, 4807	17.4	113
85	Correlations between Immobilizing Ions and Suppressing Hysteresis in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 266-272	20.1	93
84	Novel planar-structure electrochemical devices for highly flexible semitransparent power generation/storage sources. <i>Nano Letters</i> , 2013 , 13, 1271-7	11.5	85
83	Mobile-Ion-Induced Degradation of Organic Hole-Selective Layers in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14517-14523	3.8	83
82	Suppressed hysteresis and improved stability in perovskite solar cells with conductive organic network. <i>Nano Energy</i> , 2016 , 26, 139-147	17.1	83
81	Transparent, Double-Sided, ITO-Free, Flexible Dye-Sensitized Solar Cells Based on Metal Wire/ZnO Nanowire Arrays. <i>Advanced Functional Materials</i> , 2012 , 22, 2775-2782	15.6	82
80	Efficient Perovskite Solar Cells Fabricated Through CsCl-Enhanced PBI Precursor via Sequential Deposition. <i>Advanced Materials</i> , 2018 , 30, e1803095	24	78
79	Double-Side-Passivated Perovskite Solar Cells with Ultra-low Potential Loss. <i>Solar Rrl</i> , 2019 , 3, 1800296	7.1	74
78	Pressure-controlled motion of single polymers through solid-state nanopores. <i>Nano Letters</i> , 2013 , 13, 3048-52	11.5	70
77	Crystal engineering and SERS properties of Ag ₂ Se ₃ O ₄ nanohybrids: from heterodimer to core-shell nanostructures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17930		56

76	Differential Enzyme Flexibility Probed Using Solid-State Nanopores. <i>ACS Nano</i> , 2018 , 12, 4494-4502	16.7	55
75	Effective driving force applied on DNA inside a solid-state nanopore. <i>Physical Review E</i> , 2012 , 86, 011921	12.4	53
74	Mechanisms and Suppression of Photoinduced Degradation in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2002326	21.8	53
73	Constructing CsPbBr ₃ Cluster Passivated-Triple Cation Perovskite for Highly Efficient and Operationally Stable Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1809180	15.6	52
72	Enhanced long-term stability of perovskite solar cells by 3-hydroxypyridine dipping. <i>Chemical Communications</i> , 2017 , 53, 1829-1831	5.8	50
71	An All-in-one mesh-typed integrated energy unit for both photoelectric conversion and energy storage in uniform electrochemical system. <i>Nano Energy</i> , 2015 , 13, 670-678	17.1	47
70	Linear strain-gradient effect on the energy bandgap in bent CdS nanowires. <i>Nano Research</i> , 2011 , 4, 308-314	11.4	47
69	Reversible Healing Effect of Water Molecules on Fully Crystallized Metal Halide Perovskite Film. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4759-4765	3.8	45
68	Photothermally Assisted Thinning of Silicon Nitride Membranes for Ultrathin Asymmetric Nanopores. <i>ACS Nano</i> , 2018 , 12, 12472-12481	16.7	44
67	Intrinsic and membrane-facilitated β -synuclein oligomerization revealed by label-free detection through solid-state nanopores. <i>Scientific Reports</i> , 2016 , 6, 20776	4.9	41
66	Fast and controllable fabrication of suspended graphene nanopore devices. <i>Nanotechnology</i> , 2012 , 23, 085301	3.4	41
65	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. <i>Nano Energy</i> , 2014 , 6, 82-91	17.1	39
64	Slowing down DNA translocation through solid-state nanopores by pressure. <i>Small</i> , 2013 , 9, 4112-7	11	35
63	N-Terminal Acetylation Preserves β -Synuclein from Oligomerization by Blocking Intermolecular Hydrogen Bonds. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 2145-2151	5.7	34
62	Temperature dependence of Raman scattering of ZnSe nanoparticle grown through vapor phase. <i>Journal of Crystal Growth</i> , 2005 , 274, 530-535	1.6	32
61	Enhanced field emission from large scale uniform monolayer graphene supported by well-aligned ZnO nanowire arrays. <i>Applied Physics Letters</i> , 2012 , 101, 173107	3.4	28
60	Effects of ion migration and improvement strategies for the operational stability of perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 94-106	3.6	27
59	Enhanced long-term stability of perovskite solar cells using a double-layer hole transport material. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14881-14886	13	26

58	Surface modification of solid-state nanopores for sticky-free translocation of single-stranded DNA. <i>Small</i> , 2014 , 10, 4332-9	11	26
57	A Novel Way for Synthesizing Phosphorus-Doped ZnO Nanowires. <i>Nanoscale Research Letters</i> , 2011 , 6, 45	5	26
56	Patterned growth of ZnO nanorod arrays on a large-area stainless steel grid. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1699-702	3.4	26
55	Label-Free Single-Molecule Thermoscopy Using a Laser-Heated Nanopore. <i>Nano Letters</i> , 2017 , 17, 7067-7074	10.5	24
54	Stability Challenges for Perovskite Solar Cells. <i>ChemNanoMat</i> , 2019 , 5, 253-265	3.5	24
53	Halogen Engineering for Operationally Stable Perovskite Solar Cells via Sequential Deposition. <i>Advanced Energy Materials</i> , 2019 , 9, 1902239	21.8	23
52	Highly-flexible, low-cost, all stainless steel mesh-based dye-sensitized solar cells. <i>Nanoscale</i> , 2014 , 6, 13203-12	7.7	23
51	Solid-state nanopore-based DNA single molecule detection and sequencing. <i>Mikrochimica Acta</i> , 2016 , 183, 941-953	5.8	22
50	Annealing effects on the field emission properties of AlN nanorods. <i>Nanotechnology</i> , 2006 , 17, S351-S354	3.4	22
49	Flexible perovskite solar cells based on the metal-insulator-semiconductor structure. <i>Chemical Communications</i> , 2016 , 52, 10791-4	5.8	22
48	Ultrafast Broadband Charge Collection from Clean Graphene/CHNHPbI Interface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14952-14957	16.4	21
47	Gel mesh as "brake" to slow down DNA translocation through solid-state nanopores. <i>Nanoscale</i> , 2015 , 7, 13207-14	7.7	20
46	Reducing Defects in Perovskite Solar Cells with White Light Illumination-Assisted Synthesis. <i>ACS Energy Letters</i> , 2019 , 4, 2821-2829	20.1	20
45	In Situ Cesium Modification at Interface Enhances the Stability of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33205-33213	9.5	20
44	First-principles study of the formation mechanisms of nitrogen molecule in annealed ZnO. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 3546-3550	2.3	19
43	Ultrahigh field emission current density from nitrogen-implanted ZnO nanowires. <i>Nanotechnology</i> , 2010 , 21, 095701	3.4	18
42	Four Aspects about Solid-State Nanopores for Protein Sensing: Fabrication, Sensitivity, Selectivity, and Durability. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000933	10.1	18
41	Label-free detection of early oligomerization of β -synuclein and its mutants A30P/E46K through solid-state nanopores. <i>Nanoscale</i> , 2019 , 11, 6480-6488	7.7	17

40	Self-Induced Type-I Band Alignment at Surface Grain Boundaries for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2103231	24	17
39	Non-sticky translocation of bio-molecules through Tween 20-coated solid-state nanopores in a wide pH range. <i>Applied Physics Letters</i> , 2016 , 109, 143105	3.4	15
38	Potentials and challenges towards application of perovskite solar cells. <i>Science China Materials</i> , 2016 , 59, 769-778	7.1	13
37	Ultrahigh open-circuit voltage for high performance mixed-cation perovskite solar cells using acetate anions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14387-14391	13	13
36	Gate tunable photoconductivity of p-channel Se nanowire field effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 093104	3.4	13
35	Enhanced near-band-edge emission and field emission properties from plasma treated ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 165-170	2.6	13
34	Surface plasmon on topological insulator/dielectric interface enhanced ZnO ultraviolet photoluminescence. <i>AIP Advances</i> , 2012 , 2, 022105	1.5	12
33	Water-Based TiO ₂ Nanocrystal as an Electronic Transport Layer for Operationally Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900167	7.1	11
32	A unique strategy for improving top contact in Si/ZnO hierarchical nanoheterostructure photodetectors. <i>CrystEngComm</i> , 2012 , 14, 3015	3.3	11
31	Basis and effects of ion migration on photovoltaic performance of perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 063001	3	11
30	Controlled deformation of Si ₃ N ₄ nanopores using focused electron beam in a transmission electron microscope. <i>Nanotechnology</i> , 2011 , 22, 115302	3.4	10
29	Proton Migration in Hybrid Lead Iodide Perovskites: From Classical Hopping to Deep Quantum Tunneling. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6536-6543	6.4	10
28	Tiny protein detection using pressure through solid-state nanopores. <i>Electrophoresis</i> , 2017 , 38, 1130-1138	3.6	9
27	Modifying optical properties of ZnO nanowires via strain-gradient. <i>Frontiers of Physics</i> , 2013 , 8, 509-515	3.7	9
26	Facile synthesis and optical properties of ultrathin Cu-doped ZnSe nanorods. <i>CrystEngComm</i> , 2013 , 15, 10495	3.3	9
25	2D planar field emission devices based on individual ZnO nanowires. <i>Solid State Communications</i> , 2011 , 151, 1650-1653	1.6	9
24	Novel planar field emission of ultra-thin individual carbon nanotubes. <i>Nanotechnology</i> , 2009 , 20, 405208	3.4	9
23	Femtosecond photonic viral inactivation probed using solid-state nanopores. <i>Nano Futures</i> , 2018 , 2, 045005	3.05	9

22	A strategic review on processing routes towards scalable fabrication of perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 64, 538-560	12	9
21	Interaction prolonged DNA translocation through solid-state nanopores. <i>Nanoscale</i> , 2015 , 7, 10752-9	7.7	8
20	Facile synthesis, optical properties and growth mechanism of elongated Mn-doped ZnSe _{1-x} S _x nanocrystals. <i>CrystEngComm</i> , 2012 , 14, 8440	3.3	8
19	Constructing All-Inorganic Perovskite/Fluoride Nanocomposites for Efficient and Ultra-Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 2106386	15.6	8
18	Size evolution and surface characterization of solid-state nanopores in different aqueous solutions. <i>Nanoscale</i> , 2012 , 4, 1572-6	7.7	7
17	Growth mechanism study via in situ epitaxial growth of high-oriented ZnO nanowires. <i>CrystEngComm</i> , 2011 , 13, 606-610	3.3	7
16	Perovskite solar cells: Promise of photovoltaics. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2014 , 44, 801-821	1.3	7
15	Alkali Metal Chloride-Doped Water-Based TiO ₂ for Efficient and Stable Planar Perovskite Photovoltaics Exceeding 23% Efficiency.. <i>Small Methods</i> , 2021 , 5, e2100856	12.8	6
14	Electro-Optical Detection of Single Molecules Based on Solid-State Nanopores. <i>Small Structures</i> , 2020 , 1, 2000003	8.7	6
13	Probing surface hydrophobicity of individual protein at single-molecule resolution using solid-state nanopores. <i>Science China Materials</i> , 2015 , 58, 455-466	7.1	4
12	In situ growth and density-functional-theory study of polarity-dependent homo-epitaxial ZnO microwires. <i>CrystEngComm</i> , 2012 , 14, 355-358	3.3	4
11	Probing the Effect of Ubiquitinated Histone on Mononucleosomes by Translocation Dynamics Study through Solid-State Nanopores.. <i>Nano Letters</i> , 2022 ,	11.5	4
10	Probing conformational change of T7 RNA polymerase and DNA complex by solid-state nanopores. <i>Chinese Physics B</i> , 2018 , 27, 118705	1.2	3
9	Formation mechanism of homo-epitaxial morphology on ZnO (0001) polar surfaces. <i>CrystEngComm</i> , 2013 , 15, 4249	3.3	2
8	Critical slowing down and attractive manifold: A mechanism for dynamic robustness in the yeast cell-cycle process. <i>Physical Review E</i> , 2020 , 101, 042405	2.4	2
7	Recent Progress in Perovskite Solar Cell: Fabrication, Efficiency, and Stability. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2021 , 1-32	0.7	2
6	Micro-scale hierarchical photoanode for quantum-dot-sensitized solar cells based on TiO ₂ nanowires. <i>Frontiers of Optoelectronics</i> , 2016 , 9, 53-59	2.8	1
5	Perovskite Solar Cells: Halogen Engineering for Operationally Stable Perovskite Solar Cells via Sequential Deposition (Adv. Energy Mater. 46/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970183	21.8	1

4	Facet Orientation and Intermediate Phase Regulation via a Green Antisolvent for High-Performance Perovskite Solar Cells. <i>Solar Rrl</i> ,2100973	7.1	o
3	Interface Colloidal Deposition of Nanoparticle Wire Structures. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800098	3.1	
2	Surface coating effect on field emission performance of ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 106, 557-562	2.6	
1	Label-Free Detection and Translocation Dynamics Study of Single-Molecule Herceptin Using Solid-State Nanopores. <i>Advanced Materials Technologies</i> ,2200018	6.8	