

Dong Yu

List of Publications by Year in descending order

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53
papers

2,529
citations

361045

20
h-index

205818

48
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53
all docs

53
docs citations

53
times ranked

3917
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple andreev reflections in topological insulator nanoribbons. <i>Current Applied Physics</i> , 2022, 34, 107-111.	1.1	2
2	Highly Mobile Excitons in Single Crystal Methylammonium Lead Tribromide Perovskite Microribbons. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3698-3705.	2.1	0
3	Nanosecond dynamics in intrinsic topological insulator Bi ₂ xSbxSe ₃ revealed by time-resolved optical reflectivity. <i>Physical Review B</i> , 2021, 103, .	1.1	1
4	Transport Modeling of Locally Photogenerated Excitons in Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3951-3959.	2.1	1
5	Modeling of the photocurrent induced by inverse spin Hall effect under local circularly polarized photoexcitation. <i>Physical Review B</i> , 2021, 104, .	1.1	1
6	Adjustable Quantum Interference Oscillations in Sb-Doped Bi ₂ Se ₃ Topological Insulator Nanoribbons. <i>ACS Nano</i> , 2020, 14, 14118-14125.	7.3	10
7	Reversible Doping and Photo Patterning of Polymer Nanowires. <i>Advanced Electronic Materials</i> , 2020, 6, 2000469.	2.6	4
8	Superconducting quantum interference devices made of Sb-doped Bi ₂ Se ₃ topological insulator nanoribbons. <i>Current Applied Physics</i> , 2020, 20, 680-685.	1.1	7
9	Temperature and Gate Dependence of Carrier Diffusion in Single Crystal Methylammonium Lead Iodide Perovskite Microstructures. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1000-1006.	2.1	12
10	Nonlocal Chemical Potential Modulation in Topological Insulators Enabled by Highly Mobile Trapped Charges. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3436-3442.	2.0	4
11	Gate-Modulated Quantum Interference Oscillations in Sb-Doped Bi ₂ Se ₃ Topological Insulator Nanoribbon. <i>Journal of the Korean Physical Society</i> , 2020, 77, 797-801.	0.3	0
12	Ambipolar Topological Insulator and High Carrier Mobility in Solution Grown Ultrathin Nanoplates of Sb-Doped Bi ₂ Se ₃ . <i>ACS Applied Electronic Materials</i> , 2019, 1, 1917-1923.	2.0	11
13	Nanomechanical characterization of quantum interference in a topological insulator nanowire. <i>Nature Communications</i> , 2019, 10, 4522.	5.8	17
14	Millimetre-long transport of photogenerated carriers in topological insulators. <i>Nature Communications</i> , 2019, 10, 5723.	5.8	22
15	On the Use of Photocurrent Imaging To Determine Carrier Diffusion Lengths in Nanostructured Thin-Film Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18356-18364.	1.5	12
16	Strong Superconducting Proximity Effects in PbS Semiconductor Nanowires. <i>ACS Nano</i> , 2017, 11, 221-226.	7.3	16
17	Optical properties and bridge photodetector integration of lead sulfide nanowires. <i>Nanotechnology</i> , 2017, 28, 475706.	1.3	8
18	In Situ Visualization of Fast Surface Ion Diffusion in Vanadium Dioxide Nanowires. <i>Nano Letters</i> , 2017, 17, 7702-7709.	4.5	12

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19	Efficient and Hysteresis-Free Field Effect Modulation of Ambipolarly Doped Vanadium Dioxide Nanowires. <i>Physical Review Applied</i> , 2016, 5, .	1.5	15
20	Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures. <i>Nano Letters</i> , 2016, 16, 7710-7717.	4.5	56
21	Spin generation via bulk spin current in three-dimensional topological insulators. <i>Nature Communications</i> , 2016, 7, 10878.	5.8	30
22	Bias dependent photocurrent characteristics of copper sulfide single nanowires. <i>Journal of the Korean Physical Society</i> , 2016, 69, 202-206.	0.3	1
23	Gate-tunable superconducting quantum interference devices of PbS nanowires. <i>Applied Physics Express</i> , 2016, 9, 023102.	1.1	6
24	Long Minority Carrier Diffusion Lengths in Bridged Silicon Nanowires. <i>Nano Letters</i> , 2015, 15, 523-529.	4.5	20
25	Hot Carrier Trapping Induced Negative Photoconductance in InAs Nanowires toward Novel Nonvolatile Memory. <i>Nano Letters</i> , 2015, 15, 5875-5882.	4.5	139
26	Broadband Quantum Efficiency Enhancement in High Index Nanowire Resonators. <i>Nano Letters</i> , 2015, 15, 3541-3546.	4.5	16
27	Absorption enhancement and carrier diffusion in single lead sulfide nanowire Schottky solar cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
28	High intensity induced photocurrent polarity switching in lead sulfide nanowire field effect transistors. <i>Nanotechnology</i> , 2014, 25, 195202.	1.3	4
29	Photocurrent and photovoltaic characteristics of copper sulfide nanowires grown by a hydrothermal method. <i>Materials Letters</i> , 2014, 133, 132-134.	1.3	15
30	Anomalous nuclear magnetic resonance spectra in Bi_2Se_3 nanowires. <i>Physical Review B</i> , 2014, 90, .	1.1	10
31	SCANNING PHOTOCURRENT MICROSCOPY IN SEMICONDUCTOR NANOSTRUCTURES. <i>Modern Physics Letters B</i> , 2013, 27, 1330018.	1.0	50
32	Positive Temperature Coefficient of Resistance and Bistable Conduction in Lead Selenide Quantum Dot Thin Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3713-3717.	1.5	6
33	Gate-Dependent Carrier Diffusion Length in Lead Selenide Quantum Dot Field-Effect Transistors. <i>Nano Letters</i> , 2013, 13, 3463-3469.	4.5	32
34	Demonstration of gate-all-around FETs based on suspended CVD-grown silicon nanowires. , 2013, , .		1
35	Scanning Photocurrent Microscopy of as-Grown Silicon Nanowire Metallurgical Junctions. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1551, 29-33.	0.1	0
36	Direct synthesis of high-density lead sulfide nanowires on metal thin films towards efficient infrared light conversion. <i>Nanotechnology</i> , 2012, 23, 265602.	1.3	20

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37	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. Physical Review B, 2012, 85, .	1.1	38
38	3-D Atomic-Scale Mapping of Manganese Dopants in Lead Sulfide Nanowires. Journal of Physical Chemistry C, 2012, 116, 6595-6600.	1.5	12
39	Controlled Ambipolar Doping and Gate Voltage Dependent Carrier Diffusion Length in Lead Sulfide Nanowires. Nano Letters, 2012, 12, 5890-5896.	4.5	32
40	High Carrier Mobility in Single Ultrathin Colloidal Lead Selenide Nanowire Field Effect Transistors. Nano Letters, 2012, 12, 4360-4365.	4.5	30
41	Electric Field Dependent Photocurrent Decay Length in Single Lead Sulfide Nanowire Field Effect Transistors. Nano Letters, 2011, 11, 717-722.	4.5	99
42	Electrothermal Dynamics of Semiconductor Nanowires under Local Carrier Modulation. Nano Letters, 2011, 11, 3809-3815.	4.5	50
43	Scanning photocurrent microscopy in single nanowire devices. Proceedings of SPIE, 2011, , .	0.8	5
44	Vapor-Liquid-Solid and Vapor-Solid Growth of Phase-Change Sb ₂ Te ₃ /GeTe Nanowire Heterostructures. Journal of the American Chemical Society, 2008, 130, 6252-6258.	6.6	127
45	Minimum Voltage for Threshold Switching in Nanoscale Phase-Change Memory. Nano Letters, 2008, 8, 3429-3433.	4.5	76
46	Spin blockade in the conduction of colloidal CdSe nanocrystal films. Journal of Chemical Physics, 2007, 127, 014702.	1.2	18
47	Electronic transport of n-type CdSe quantum dot films: Effect of film treatment. Journal of Applied Physics, 2006, 99, 104315.	1.1	96
48	Germanium Telluride Nanowires and Nanohelices with Memory-Switching Behavior. Journal of the American Chemical Society, 2006, 128, 8148-8149.	6.6	127
49	Magneto-resistance of n-type quantum dot solids. Applied Physics Letters, 2006, 88, 072504.	1.5	12
50	Conduction in Charged PbSe Nanocrystal Films. Journal of Physical Chemistry B, 2005, 109, 20192-20199.	1.2	80
51	Intraband relaxation in CdSe nanocrystals and the strong influence of the surface ligands. Journal of Chemical Physics, 2005, 123, 074709.	1.2	323
52	Variable Range Hopping Conduction in Semiconductor Nanocrystal Solids. Physical Review Letters, 2004, 92, 216802.	2.9	341
53	n-Type Conducting CdSe Nanocrystal Solids. Science, 2003, 300, 1277-1280.	6.0	502