Hailong Zhou

List of Publications by Year
in descending order

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31	7,764	186265 28	395702 33
papers	citations	h-index	g-index

33	33	33	12511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly efficient gate-tunable photocurrent generation in vertical heterostructures of layered materials. Nature Nanotechnology, 2013, 8, 952-958.	31.5	1,017
2	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe₂/MoS₂ Heterojunction pâ€“n Diodes. Nano Letters, 2014, 14, 5590-5597.	9.1	937
3	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. Nature Materials, 2013, 12, 246-252.	27.5	812
4	Graphene: An Emerging Electronic Material. Advanced Materials, 2012, 24, 5782-5825.	21.0	718
5	Plasmon resonance enhanced multicolour photodetection by graphene. Nature Communications, 2011, 2, 579.	12.8	639
6	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. Nature Communications, 2013, 4, 2096.	12.8	493
7	Towards highly efficient photocatalysts using semiconductor nanoarchitectures. Energy and Environmental Science, 2012, 5, 6732.	30.8	400
8	Large Area Growth and Electrical Properties of p-Type WSe₂ Atomic Layers. Nano Letters, 2015, 15, 709-713.	9.1	372
9	Chemical vapor deposition growth of monolayer MoSe2 nanosheets. Nano Research, 2014, 7, 511-517.	10.4	331
10	High-frequency self-aligned graphene transistors with transferred gate stacks. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11588-11592.	7.1	312
11	High-Yield Chemical Vapor Deposition Growth of High-Quality Large-Area AB-Stacked Bilayer Graphene. ACS Nano, 2012, 6, 8241-8249.	14.6	246
12	Plasmonic and Catalytic AuPd Nanowheels for the Efficient Conversion of Light into Chemical Energy. Angewandte Chemie - International Edition, 2013, 52, 6063-6067.	13.8	152
13	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. Nature Communications, 2015, 6, 7509.	12.8	132
14	Highly Flexible Electronics from Scalable Vertical Thin Film Transistors. Nano Letters, 2014, 14, 1413-1418.	9.1	131
15	Porous silicon nanowires. Nanoscale, 2011, 3, 4060.	5.6	129
16	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	12.8	120
17	Growth and Characterization of Wurtzite GaAs Nanowires with Defect-Free Zinc Blende GaAsSb Inserts. Nano Letters, 2008, 8, 4459-4463.	9.1	112
18	Top-Gated Chemical Vapor Deposition Grown Graphene Transistors with Current Saturation. Nano Letters, 2011, 11, 2555-2559.	9.1	88

#	Article	IF	Citations
19	High-Performance Organic Vertical Thin Film Transistor Using Graphene as a Tunable Contact. ACS Nano, 2015, 9, 11102-11108.	14.6	85
20	A systematic study of atmospheric pressure chemical vapor deposition growth of large-area monolayer graphene. Journal of Materials Chemistry, 2012, 22, 1498-1503.	6.7	76
21	Scalable Fabrication of Self-Aligned Graphene Transistors and Circuits on Glass. Nano Letters, 2012, 12, 2653-2657.	9.1	74
22	Engineering Parallel and Perpendicular Polarized Photoluminescence from a Single Semiconductor Nanowire by Crystal Phase Control. Nano Letters, 2010, 10, 2927-2933.	9.1	56
23	Simplifying the Creation of Dumbbellâ€Like Cuâ€Ag Nanostructures and Their Enhanced Catalytic Activity. Chemistry - A European Journal, 2012, 18, 9505-9510.	3.3	54
24	Reduced graphene oxide/silicon nanowire heterostructures with enhanced photoactivity and superior photoelectrochemical stability. Nano Research, 2015, 8, 2850-2858.	10.4	34
25	Self-catalyzed growth of InP/InSb axial nanowire heterostructures. Journal of Crystal Growth, 2011, 329, 6-11.	1.5	30
26	Graphene: An Emerging Electronic Material (Adv. Mater. 43/2012). Advanced Materials, 2012, 24, 5776-5776.	21.0	29
27	Ambipolar Barristors for Reconfigurable Logic Circuits. Nano Letters, 2017, 17, 1448-1454.	9.1	29
28	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP1â^'xSbx nanostructures. Journal of Crystal Growth, 2011, 319, 25-30.	1.5	25
29	Effect of precursor flux on compositional evolution in InP1â^'xSbx nanowires grown via self-catalyzed vaporâ€“liquidâ€“solid process. Journal of Crystal Growth, 2011, 336, 14-19.	1.5	18
30	Metalâ€“semiconductor transition in atomically thin Bi2Sr2Co2O8 nanosheets. APL Materials, 2014, 2, .	5.1	8
31	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP/InAsP coreâ€“shell nanopillars. Journal of Crystal Growth, 2011, 314, 34-38.	1.5	3