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	Ambipolar Barristors for Reconfigurable Logic Circuits. Nano Letters, 2017, 17, 1448-1454.	9.1	29
2	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	12.8	120
3	Reduced graphene oxide/silicon nanowire heterostructures with enhanced photoactivity and superior photoelectrochemical stability. Nano Research, 2015, 8, 2850-2858.	10.4	34
4	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. Nature Communications, 2015, 6, 7509.	12.8	132
5	High-Performance Organic Vertical Thin Film Transistor Using Graphene as a Tunable Contact. ACS Nano, 2015, 9, 11102-11108.	14.6	85
6	Large Area Growth and Electrical Properties of p-Type WSe₂ Atomic Layers. Nano Letters, 2015, 15, 709-713.	9.1	372
7	Metalâ€“semiconductor transition in atomically thin Bi2Sr2Co2O8 nanosheets. APL Materials, 2014, 2, .	5.1	8
8	Chemical vapor deposition growth of monolayer MoSe2 nanosheets. Nano Research, 2014, 7, 511-517.	10.4	331
9	Highly Flexible Electronics from Scalable Vertical Thin Film Transistors. Nano Letters, 2014, 14, 1413-1418.	9.1	131
10	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe₂/MoS₂ Heterojunction pâ€“n Diodes. Nano Letters, 2014, 14, 5590-5597.	9.1	937
11	Highly efficient gate-tunable photocurrent generation in vertical heterostructures of layered materials. Nature Nanotechnology, 2013, 8, 952-958.	31.5	1,017
12	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. Nature Materials, 2013, 12, 246-252.	27.5	812
13	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
14	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. Nature Communications, 2013, 4, 2096.	12.8	493
15	High-Yield Chemical Vapor Deposition Growth of High-Quality Large-Area AB-Stacked Bilayer Graphene. ACS Nano, 2012, 6, 8241-8249.	14.6	246
16	Graphene: An Emerging Electronic Material. Advanced Materials, 2012, 24, 5782-5825.	21.0	718
17	Graphene: An Emerging Electronic Material (Adv. Mater. 43/2012). Advanced Materials, 2012, 24, 5776-5776.	21.0	29
18	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

#	Article	IF	Citations
19	Towards highly efficient photocatalysts using semiconductor nanoarchitectures. Energy and Environmental Science, 2012, 5, 6732.	30.8	400
20	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
21	Scalable Fabrication of Self-Aligned Graphene Transistors and Circuits on Glass. Nano Letters, 2012, 12, 2653-2657.	9.1	74
22	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
23	Top-Gated Chemical Vapor Deposition Grown Graphene Transistors with Current Saturation. Nano Letters, 2011, 11, 2555-2559.	9.1	88
24	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
25	Porous silicon nanowires. Nanoscale, 2011, 3, 4060.	5.6	129
26	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP1â^'xSbx nanostructures. Journal of Crystal Growth, 2011, 319, 25-30.	1.5	25
27	Plasmon resonance enhanced multicolour photodetection by graphene. Nature Communications, 2011, 2, 579.	12.8	639
28	Self-catalyzed vaporâ€“liquidâ€“solid growth of InP/InAsP coreâ€“shell nanopillars. Journal of Crystal Growth, 2011, 314, 34-38.	1.5	3
29	Self-catalyzed growth of InP/InSb axial nanowire heterostructures. Journal of Crystal Growth, 2011, 329, 6-11.	1.5	30
30	Engineering Parallel and Perpendicular Polarized Photoluminescence from a Single Semiconductor Nanowire by Crystal Phase Control. Nano Letters, 2010, 10, 2927-2933.	9.1	56
31	Growth and Characterization of Wurtzite GaAs Nanowires with Defect-Free Zinc Blende GaAsSb Inserts. Nano Letters, 2008, 8, 4459-4463.	9.1	112