Yu Chen

List of Publications by Year in descending order

47 papers	10,263 citations	87888 38 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	15930 citing authors

#	Article	IF	Citations
1	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	12.6	1,623
2	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. Nature Nanotechnology, 2014, 9, 1024-1030.	31.5	1,056
3	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe₂/MoS₂ Heterojunction pâ€“n Diodes. Nano Letters, 2014, 14, 5590-5597.	9.1	937
4	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. Nature Materials, 2013, 12, 246-252.	27.5	812
5	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. Nature Communications, 2013, 4, 2096.	12.8	493
6	Few-layer molybdenum disulfide transistors and circuits for high-speed flexible electronics. Nature Communications, 2014, 5, 5143.	12.8	408
7	Large Area Growth and Electrical Properties of p-Type WSe₂ Atomic Layers. Nano Letters, 2015, 15, 709-713.	9.1	372
8	Chemical vapor deposition growth of monolayer MoSe2 nanosheets. Nano Research, 2014, 7, 511-517.	10.4	331
9	Nanoscale Joule Heating and Electromigration Enhanced Ripening of Silver Nanowire Contacts. ACS Nano, 2014, 8, 2804-2811.	14.6	320
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-quality monolayer superconductor NbSe2 grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	12.8	290
12	High-Yield Chemical Vapor Deposition Growth of High-Quality Large-Area AB-Stacked Bilayer Graphene. ACS Nano, 2012, 6, 8241-8249.	14.6	246
13	A rational design of cosolvent exfoliation of layered materials by directly probing liquidâ€“solid interaction. Nature Communications, 2013, 4, 2213.	12.8	235
14	A Facile Strategy to Pt₃Ni Nanocrystals with Highly Porous Features as an Enhanced Oxygen Reduction Reaction Catalyst. Advanced Materials, 2013, 25, 2974-2979.	21.0	232
15	Van der Waals stacked 2D layered materials for optoelectronics. 2D Materials, 2016, 3, 022001.	4.4	213
16	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. Angewandte Chemie - International Edition, 2013, 52, 12577-12581.	13.8	174
17	Broadband and enhanced nonlinear optical response of MoS2/graphene nanocomposites for ultrafast photonics applications. Scientific Reports, 2015, 5, 16372.	3.3	174
18	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. Energy and Environmental Science, 2014, 7, 2957-2962.	30.8	172

#	Article	IF	Citations
19	Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. Journal of Energy Chemistry, 2017, 26, 1067-1076.	12.9	163
20	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
21	Palladiumâ€Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. Angewandte Chemie - International Edition, 2013, 52, 2520-2524.	13.8	147
22	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. Nature Communications, 2015, 6, 7509.	12.8	132
23	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. Chemical Society Reviews, 2021, 50, 11381-11485.	38.1	129
24	High Density Catalytic Hot Spots in Ultrafine Wavy Nanowires. Nano Letters, 2014, 14, 3887-3894.	9.1	107
25	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. Nature Communications, 2017, 8, 543.	12.8	102
26	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
27	Growth of Nickel Silicides in Si and Si/SiOx Core/Shell Nanowires. Nano Letters, 2010, 10, 4721-4726.	9.1	74
28	Epitaxial Synthesis of Monolayer PtSe₂ Single Crystal on MoSe₂ with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938.	14.6	72
29	Solution Processable Colloidal Nanoplates as Building Blocks for High-Performance Electronic Thin Films on Flexible Substrates. Nano Letters, 2014, 14, 6547-6553.	9.1	69
30	Detection of Spin Polarized Carrier in Silicon Nanowire with Single Crystal MnSi as Magnetic Contacts. Nano Letters, 2010, 10, 2281-2287.	9.1	68
31	Largeâ€Area Atomic Layers of the Chargeâ€Densityâ€Wave Conductor TiSe₂. Advanced Materials, 2018, 30, 1704382.	21.0	60
32	Metal-Organic Framework Templated Synthesis of Ultrathin, Well-Aligned Metallic Nanowires. ACS Nano, 2015, 9, 3044-3049.	14.6	59
33	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. Journal of Materials Chemistry A, 2013, 1, 14449.	10.3	58
34	The Advanced Designs of Highâ€Performance Platinumâ€Based Electrocatalysts: Recent Progresses and Challenges. Advanced Materials Interfaces, 2018, 5, 1800486.	3.7	55
35	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. Physical Review Letters, 2015, 115, 027403.	7.8	43
36	The growth and applications of silicides for nanoscale devices. Nanoscale, 2012, 4, 1412-1421.	5.6	41

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37	Kinetic Competition Model and Size-Dependent Phase Selection in 1-D Nanostructures. Nano Letters, 2012, 12, 3115-3120.	9.1	40
38	A versatile strategy to the selective synthesis of Cu nanocrystals and the in situ conversion to CuRu nanotubes. Nanoscale, 2013, 5, 6284.	5.6	36
39	Kinetic Manipulation of Silicide Phase Formation in Si Nanowire Templates. Nano Letters, 2013, 13, 3703-3708.	9.1	33
40	Highâ€performance electronics and optoelectronics of monolayer tungsten diselenide full film from preâ€seeding strategy. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1455-1469.	17.3	32
41	Domain Wall Motion in Synthetic Co₂Si Nanowires. Nano Letters, 2012, 12, 1972-1976.	9.1	17
42	Degradable mesoporous semimetal antimony nanospheres for near-infrared II multimodal theranostics. Nature Communications, 2022, 13, 539.	12.8	17
43	Crystallinity Control of Ferromagnetic Contacts in Stressed Nanowire Templates and the Magnetic Domain Anisotropy. Nano Letters, 2012, 12, 4341-4348.	9.1	12
44	Phase control in solid state silicide nanowire formation. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1666-1669.	0.8	10
45	Gold Clusters Alloyed to Nanoporous Palladium Surfaces as Highly Active Bimetallic Oxidation Catalysts. ChemSusChem, 2013, 6, 1868-1872.	6.8	2
46	WangetÂal.Reply:. Physical Review Letters, 2016, 117, 219702.	7.8	2
47	Nanoelectronic Devices from Nanowire Heterostructures. ECS Transactions, 2010, 33, 3-11.	0.5	0