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	Degradable mesoporous semimetal antimony nanospheres for near-infrared II multimodal theranostics. Nature Communications, 2022, 13, 539.	12.8	17
2	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. Chemical Society Reviews, 2021, 50, 11381-11485.	38.1	129
3	Highâ€performance electronics and optoelectronics of monolayer tungsten diselenide full film from preâ€seeding strategy. InformaÃnÃ-MateriÃ¡ly, 2021, 3, 1455-1469.	17.3	32
4	Epitaxial Synthesis of Monolayer PtSe₂ Single Crystal on MoSe₂ with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938.	14.6	72
5	Largeâ€Area Atomic Layers of the Chargeâ€Densityâ€Wave Conductor TiSe₂. Advanced Materials, 2018, 30, 1704382.	21.0	60
6	The Advanced Designs of Highâ€Performance Platinumâ€Based Electrocatalysts: Recent Progresses and Challenges. Advanced Materials Interfaces, 2018, 5, 1800486.	3.7	55
7	Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. Journal of Energy Chemistry, 2017, 26, 1067-1076.	12.9	163
8	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. Nature Communications, 2017, 8, 543.	12.8	102
9	High-quality monolayer superconductor NbSe2 grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	12.8	290
10	Van der Waals stacked 2D layered materials for optoelectronics. 2D Materials, 2016, 3, 022001.	4.4	213
11	WangetÂal.Reply:. Physical Review Letters, 2016, 117, 219702.	7.8	2
12	Broadband and enhanced nonlinear optical response of MoS2/graphene nanocomposites for ultrafast photonics applications. Scientific Reports, 2015, 5, 16372.	3.3	174
13	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	12.6	1,623
14	Metal-Organic Framework Templated Synthesis of Ultrathin, Well-Aligned Metallic Nanowires. ACS Nano, 2015, 9, 3044-3049.	14.6	59
15	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. Physical Review Letters, 2015, 115, 027403.	7.8	43
16	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. Nature Communications, 2015, 6, 7509.	12.8	132
17	Large Area Growth and Electrical Properties of p-Type WSe₂ Atomic Layers. Nano Letters, 2015, 15, 709-713.	9.1	372
18	Chemical vapor deposition growth of monolayer MoSe2 nanosheets. Nano Research, 2014, 7, 511-517.	10.4	331

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19	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
20	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
21	High Density Catalytic Hot Spots in Ultrafine Wavy Nanowires. Nano Letters, 2014, 14, 3887-3894.	9.1	107
22	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. Nature Nanotechnology, 2014, 9, 1024-1030.	31.5	1,056
23	Electroluminescence and Photocurrent Generation from Atomically Sharp WSe₂/MoS₂ Heterojunction pâ€“n Diodes. Nano Letters, 2014, 14, 5590-5597.	9.1	937
24	Few-layer molybdenum disulfide transistors and circuits for high-speed flexible electronics. Nature Communications, 2014, 5, 5143.	12.8	408
25	Nanoscale Joule Heating and Electromigration Enhanced Ripening of Silver Nanowire Contacts. ACS Nano, 2014, 8, 2804-2811.	14.6	320
26	A rational design of cosolvent exfoliation of layered materials by directly probing liquidâ€“solid interaction. Nature Communications, 2013, 4, 2213.	12.8	235
27	Gold Clusters Alloyed to Nanoporous Palladium Surfaces as Highly Active Bimetallic Oxidation Catalysts. ChemSusChem, 2013, 6, 1868-1872.	6.8	2
28	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
29	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
30	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. Nature Materials, 2013, 12, 246-252.	27.5	812
31	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
32	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
33	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. Nature Communications, 2013, 4, 2096.	12.8	493
34	Kinetic Manipulation of Silicide Phase Formation in Si Nanowire Templates. Nano Letters, 2013, 13, 3703-3708.	9.1	33
35	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
36	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

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37	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
38	The growth and applications of silicides for nanoscale devices. Nanoscale, 2012, 4, 1412-1421.	5.6	41
39	Crystallinity Control of Ferromagnetic Contacts in Stressed Nanowire Templates and the Magnetic Domain Anisotropy. Nano Letters, 2012, 12, 4341-4348.	9.1	12
40	Kinetic Competition Model and Size-Dependent Phase Selection in 1-D Nanostructures. Nano Letters, 2012, 12, 3115-3120.	9.1	40
41	High-Yield Chemical Vapor Deposition Growth of High-Quality Large-Area AB-Stacked Bilayer Graphene. ACS Nano, 2012, 6, 8241-8249.	14.6	246
42	Domain Wall Motion in Synthetic Co₂Si Nanowires. Nano Letters, 2012, 12, 1972-1976.	9.1	17
43	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
44	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
45	Nanoelectronic Devices from Nanowire Heterostructures. ECS Transactions, 2010, 33, 3-11.	0.5	0
46	Detection of Spin Polarized Carrier in Silicon Nanowire with Single Crystal MnSi as Magnetic Contacts. Nano Letters, 2010, 10, 2281-2287.	9.1	68
47	Growth of Nickel Silicides in Si and Si/SiOx Core/Shell Nanowires. Nano Letters, 2010, 10, 4721-4726.	9.1	74