

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48 papers	8,392 citations	36 h-index	49 g-index
49 ext. papers	9,378 ext. citations	15.1 avg, IF	5.79 L-index

#	Paper	IF	Citations
48	Degradable mesoporous semimetal antimony nanospheres for near-infrared II multimodal theranostics.. <i>Nature Communications</i> , 2022 , 13, 539	17.4	3
47	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Information Materials</i> , 2021 , 3, 1455	23.1	7
46	Two-dimensional biomaterials: material science, biological effect and biomedical engineering applications. <i>Chemical Society Reviews</i> , 2021 , 50, 11381-11485	58.5	23
45	Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019 , 13, 10929-10938	16.7	45
44	Large-Area Atomic Layers of the Charge-Density-Wave Conductor TiSe. <i>Advanced Materials</i> , 2018 , 30, 1704382	24	43
43	The Advanced Designs of High-Performance Platinum-Based Electrocatalysts: Recent Progresses and Challenges. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800486	4.6	35
42	Research advances in unsupported Pt-based catalysts for electrochemical methanol oxidation. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1067-1076	12	124
41	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. <i>Nature Communications</i> , 2017 , 8, 543	17.4	74
40	High-quality monolayer superconductor NbSe grown by chemical vapour deposition. <i>Nature Communications</i> , 2017 , 8, 394	17.4	199
39	Wang et al. Reply. <i>Physical Review Letters</i> , 2016 , 117, 219702	7.4	1
38	Van der Waals stacked 2D layered materials for optoelectronics. <i>2D Materials</i> , 2016 , 3, 022001	5.9	161
37	Metal-organic framework templated synthesis of ultrathin, well-aligned metallic nanowires. <i>ACS Nano</i> , 2015 , 9, 3044-9	16.7	54
36	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. <i>Physical Review Letters</i> , 2015 , 115, 027403	7.4	38
35	Electric-field-induced strong enhancement of electroluminescence in multilayer molybdenum disulfide. <i>Nature Communications</i> , 2015 , 6, 7509	17.4	104
34	Large area growth and electrical properties of p-type WSe ₂ atomic layers. <i>Nano Letters</i> , 2015 , 15, 709-13	11.5	287
33	Broadband and enhanced nonlinear optical response of MoS ₂ /graphene nanocomposites for ultrafast photonics applications. <i>Scientific Reports</i> , 2015 , 5, 16372	4.9	147
32	ELECTROCHEMISTRY. High-performance transition metal-doped PtNi octahedra for oxygen reduction reaction. <i>Science</i> , 2015 , 348, 1230-4	33.3	1307

31	Chemical vapor deposition growth of monolayer MoSe ₂ nanosheets. <i>Nano Research</i> , 2014 , 7, 511-517	10	285
30	Solution processable colloidal nanoplates as building blocks for high-performance electronic thin films on flexible substrates. <i>Nano Letters</i> , 2014 , 14, 6547-53	11.5	60
29	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. <i>Energy and Environmental Science</i> , 2014 , 7, 2957-2962	35.4	147
28	High density catalytic hot spots in ultrafine wavy nanowires. <i>Nano Letters</i> , 2014 , 14, 3887-94	11.5	93
27	Lateral epitaxial growth of two-dimensional layered semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2014 , 9, 1024-30	28.7	858
26	Electroluminescence and photocurrent generation from atomically sharp WSe ₂ /MoS ₂ heterojunction p-n diodes. <i>Nano Letters</i> , 2014 , 14, 5590-7	11.5	782
25	Few-layer molybdenum disulfide transistors and circuits for high-speed flexible electronics. <i>Nature Communications</i> , 2014 , 5, 5143	17.4	329
24	Nanoscale Joule heating and electromigration enhanced ripening of silver nanowire contacts. <i>ACS Nano</i> , 2014 , 8, 2804-11	16.7	251
23	A rational design of cosolvent exfoliation of layered materials by directly probing liquid-solid interaction. <i>Nature Communications</i> , 2013 , 4, 2213	17.4	204
22	Gold clusters alloyed to nanoporous palladium surfaces as highly active bimetallic oxidation catalysts. <i>ChemSusChem</i> , 2013 , 6, 1868-72	8.3	2
21	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12577-81	16.4	164
20	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14449	13	57
19	Vertically stacked multi-heterostructures of layered materials for logic transistors and complementary inverters. <i>Nature Materials</i> , 2013 , 12, 246-52	27	705
18	Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2520-4	16.4	135
17	Plasmonic and catalytic AuPd nanowheels for the efficient conversion of light into chemical energy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6063-7	16.4	135
16	Chemical vapour deposition growth of large single crystals of monolayer and bilayer graphene. <i>Nature Communications</i> , 2013 , 4, 2096	17.4	422
15	Kinetic manipulation of silicide phase formation in Si nanowire templates. <i>Nano Letters</i> , 2013 , 13, 3703-8	11.5	29
14	A facile strategy to Pt ₃ Ni nanocrystals with highly porous features as an enhanced oxygen reduction reaction catalyst. <i>Advanced Materials</i> , 2013 , 25, 2974-9	24	211

13	A versatile strategy to the selective synthesis of Cu nanocrystals and the in situ conversion to CuRu nanotubes. <i>Nanoscale</i> , 2013 , 5, 6284-90	7.7	32
12	Phase control in solid state silicide nanowire formation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1666-1669		10
11	Palladium-Based Nanostructures with Highly Porous Features and Perpendicular Pore Channels as Enhanced Organic Catalysts. <i>Angewandte Chemie</i> , 2013 , 125, 2580-2584	3.6	52
10	The growth and applications of silicides for nanoscale devices. <i>Nanoscale</i> , 2012 , 4, 1412-21	7.7	37
9	Crystallinity control of ferromagnetic contacts in stressed nanowire templates and the magnetic domain anisotropy. <i>Nano Letters</i> , 2012 , 12, 4341-8	11.5	12
8	Kinetic competition model and size-dependent phase selection in 1-D nanostructures. <i>Nano Letters</i> , 2012 , 12, 3115-20	11.5	37
7	High-yield chemical vapor deposition growth of high-quality large-area AB-stacked bilayer graphene. <i>ACS Nano</i> , 2012 , 6, 8241-9	16.7	215
6	Domain wall motion in synthetic Co ₂ Si nanowires. <i>Nano Letters</i> , 2012 , 12, 1972-6	11.5	12
5	A systematic study of atmospheric pressure chemical vapor deposition growth of large-area monolayer graphene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1498-1503		66
4	High-frequency self-aligned graphene transistors with transferred gate stacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11588-92	11.5	267
3	Nanoelectronic Devices from Nanowire Heterostructures. <i>ECS Transactions</i> , 2010 , 33, 3-11	1	
2	Detection of spin polarized carrier in silicon nanowire with single crystal MnSi as magnetic contacts. <i>Nano Letters</i> , 2010 , 10, 2281-7	11.5	63
1	Growth of nickel silicides in Si and Si/SiO _x core/shell nanowires. <i>Nano Letters</i> , 2010 , 10, 4721-6	11.5	68