

Qing-Hong Yuan

List of Publications by Citations

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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.

74
papers

2,760
citations

28
h-index

52
g-index

84
ext. papers

3,279
ext. citations

9.8
avg. IF

5.14
L-index

#	Paper	IF	Citations
74	Fast growth of inch-sized single-crystalline graphene from a controlled single nucleus on Cu-Ni alloys. <i>Nature Materials</i> , 2016 , 15, 43-7	27	441
73	Synthesis of large single-crystal hexagonal boron nitride grains on Cu-Ni alloy. <i>Nature Communications</i> , 2015 , 6, 6160	17.4	258
72	Seamless stitching of graphene domains on polished copper (111) foil. <i>Advanced Materials</i> , 2015 , 27, 1376-82	24	253
71	Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. <i>Advanced Materials</i> , 2010 , 22, 4872-6	24	196
70	Magic carbon clusters in the chemical vapor deposition growth of graphene. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2970-5	16.4	124
69	Formation of Carbon Clusters in the Initial Stage of Chemical Vapor Deposition Graphene Growth on Ni(111) Surface. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17695-17703	3.8	109
68	Efficient defect healing in catalytic carbon nanotube growth. <i>Physical Review Letters</i> , 2012 , 108, 245505	7.4	89
67	Regulating infrared photoresponses in reduced graphene oxide phototransistors by defect and atomic structure control. <i>ACS Nano</i> , 2013 , 7, 6310-20	16.7	89
66	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016 , 16, 3160-5	15.5	78
65	Evaluating the Catalytic Efficiency of Paired, Single-Atom Catalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 7660-7667	13.1	74
64	Diradical mechanisms for the cycloaddition reactions of 1,3-butadiene, benzene, thiophene, ethylene, and acetylene on a Si(111)-7x7 surface. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7923-9	16.4	59
63	Transition-metal-catalyzed unzipping of single-walled carbon nanotubes into narrow graphene nanoribbons at low temperature. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8041-5	16.4	54
62	The transition metal surface dependent methane decomposition in graphene chemical vapor deposition growth. <i>Nanoscale</i> , 2017 , 9, 11584-11589	7.7	52
61	Exploiting differential electrochemical stripping behaviors of Fe ₃ O ₄ nanocrystals toward heavy metal ions by crystal cutting. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12203-13	9.5	51
60	Edge-Catalyst Wetting and Orientation Control of Graphene Growth by Chemical Vapor Deposition Growth. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3093-9	6.4	50
59	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14446-14451	16.4	43
58	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019 , 5, eaaw8337	14.3	39

57	Upright standing graphene formation on substrates. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16072-9	16.4	39
56	Synthesis of Layer-Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. <i>Advanced Functional Materials</i> , 2015 , 25, 3666-3675	15.6	38
55	Prenylated benzoylphloroglucinols and xanthenes from the leaves of <i>Garcinia oblongifolia</i> with anti-enteroviral activity. <i>Journal of Natural Products</i> , 2014 , 77, 1037-46	4.9	37
54	Cytotoxic and anti-inflammatory prenylated benzoylphloroglucinols and xanthenes from the twigs of <i>Garcinia esculenta</i> . <i>Journal of Natural Products</i> , 2014 , 77, 1700-7	4.9	36
53	Towards chirality control of graphene nanoribbons embedded in hexagonal boron nitride. <i>Nature Materials</i> , 2021 , 20, 202-207	27	35
52	Phosphorus and Oxygen Dual-Doped Porous Carbon Spheres with Enhanced Reaction Kinetics as Anode Materials for High-Performance Potassium-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2102060	15.6	33
51	Chemical Trends of Electronic Properties of Two-Dimensional Halide Perovskites and Their Potential Applications for Electronics and Optoelectronics. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24682-24687	3.8	32
50	Engineering the Electrochemical Temperature Coefficient for Efficient Low-Grade Heat Harvesting. <i>Advanced Functional Materials</i> , 2018 , 28, 1803129	15.6	32
49	Threshold barrier of carbon nanotube growth. <i>Physical Review Letters</i> , 2011 , 107, 156101	7.4	32
48	Controllable nitrogen-doping of nanoporous carbons enabled by coordination frameworks. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 647-656	13	31
47	Earth-Abundant and Non-Toxic SiX (X = S, Se) Monolayers as Highly Efficient Thermoelectric Materials. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 123-128	3.8	28
46	The favourable large misorientation angle grain boundaries in graphene. <i>Nanoscale</i> , 2015 , 7, 20082-8	7.7	27
45	Formation of carbyne and graphyne on transition metal surfaces. <i>Nanoscale</i> , 2014 , 6, 12727-31	7.7	23
44	Sidewall epoxidation of single-walled carbon nanotubes: a theoretical prediction. <i>Organic Letters</i> , 2003 , 5, 3527-30	6.2	22
43	One-pot synthesis of highly sintering- and coking-resistant Ni nanoparticles encapsulated in dendritic mesoporous SiO ₂ for methane dry reforming. <i>Chemical Communications</i> , 2018 , 54, 13993-13996 ^{5.8}	5.8	21
42	How Low Nucleation Density of Graphene on CuNi Alloy is Achieved. <i>Advanced Science</i> , 2018 , 5, 1700961 ^{13.6}	13.6	19
41	How a zigzag carbon nanotube grows. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5924-8	16.4	19
40	Formation of graphene grain boundaries on Cu(100) surface and a route towards their elimination in chemical vapor deposition growth. <i>Scientific Reports</i> , 2014 , 4, 6541	4.9	14

39	Wafer-scale growth of single-crystal graphene on vicinal Ge(001) substrate. <i>Nano Today</i> , 2020 , 34, 100908-9	7.9	14
38	Prenylated benzoylphloroglucinols and biphenyl derivatives from the leaves of <i>Garcinia multiflora</i> Champ. <i>RSC Advances</i> , 2015 , 5, 78259-78267	3.7	13
37	Doping Effects on the Performance of Paired Metal Catalysts for the Hydrogen Evolution Reaction. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2242-2247	6.1	11
36	Shaping the Future of Solid-State Electrolytes through Computational Modeling. <i>Advanced Materials</i> , 2020 , 32, e1908041	24	11
35	A barrier for the . <i>Chemical Physics Letters</i> , 2010 , 489, 16-19	2.5	11
34	A new experimental method to distinguish two different mechanisms for a category of oscillators involving mass transfer. <i>Electrochemistry Communications</i> , 2001 , 3, 654-658	5.1	9
33	Design of two-dimensional carbon-nitride structures by tuning the nitrogen concentration. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	9
32	Catalysis based on ferroelectrics: controllable chemical reaction with boosted efficiency. <i>Nanoscale</i> , 2021 , 13, 7096-7107	7.7	8
31	Sodium-Ion Storage Mechanism in Triquinoxalinylene and a Strategy for Improving Electrode Stability. <i>Energy & Fuels</i> , 2020 , 34, 5099-5105	4.1	7
30	Effect of Metal Impurities on the Tensile Strength of Carbon Nanotubes: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5470-5474	3.8	7
29	How a Zigzag Carbon Nanotube Grows. <i>Angewandte Chemie</i> , 2015 , 127, 6022-6026	3.6	6
28	Graphene Oxide-BiOCl Nanoparticle Composites as Catalysts for Oxidation of Volatile Organic Compounds in Nonthermal Plasmas. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9363-9374	5.6	6
27	Bandgap engineering of two-dimensional C3N bilayers. <i>Nature Electronics</i> , 2021 , 4, 486-494	28.4	6
26	Catalyst-Free Growth of Two-Dimensional BCN Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33113-33120	9.5	5
25	Thermodynamics and Kinetics of Graphene Growth on Ni(111) and the Origin of Triangular Shaped Graphene Islands. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3334-3340	3.8	5
24	Dynamic factors in the reactions between the magic cluster Al(13) ⁺ and HCl/HI. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9871-9	3.6	5
23	Synthesis of Ni/NiO@MoO ₃ Composite Nanoarrays for High Current Density Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2200001	21.8	5
22	Vacancy-Assisted Growth Mechanism of Multilayer Hexagonal Boron Nitride on a FeB Substrate. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8511-8517	6.4	4

21	Suitable Surface Oxygen Concentration on Copper Contributes to the Growth of Large Graphene Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4868-4874	6.4	3
20	Mechanisms of Graphene Chemical Vapor Deposition (CVD) Growth 2013 , 255-290		3
19	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019 , 131, 14588-14593	3.6	2
18	Theoretical investigation of an intermediate in the STM tip-induced atomic process on H/Si(100) surfaces. <i>Physical Review B</i> , 2010 , 81,	3.3	2
17	The isomeric effect on the adjacent Si dimer didechlorination of trans and iso-dichloroethylene on Si(100)-2 \times 1. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7121-8	3.6	2
16	Computational Screening of Atomically Thin Two-Dimensional Nanomaterial-Coated Cs ₃ Sb Heterostructures for High-Performance Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26396-26403	3.8	3
15	Effect of defects and defect distribution on Li-diffusion and elastic properties of anti-perovskite Li ₃ OCl solid electrolyte. <i>Energy Storage Materials</i> , 2021 , 41, 614-622	19.4	2
14	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58,	16.4	1
13	The collapse of an elastic tube induced by encapsulated liquid droplets. <i>Soft Matter</i> , 2013 , 9, 9774	3.6	1
12	Production of spin-semiconducting zigzag graphene nanoribbons by constructing asymmetric notch on graphene edges. <i>Materials Research Express</i> , 2015 , 2, 125006	1.7	1
11	Reply to the Comment on Dynamic factors in the reactions between the magic cluster Al ₁₃ and HCl/HI wavefunction instability problem. by Young-Kyu Han, <i>Phys. Chem. Chem. Phys.</i> 2012, DOI: 10.1039/C2CP23908F. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6641	3.6	1
10	An analysis of F-doping in Li-rich cathodes. <i>Rare Metals</i> , 1	5.5	1
9	Stabilities of Isomers of Phosphorus on Transition Metal Substrates. <i>Chemistry of Materials</i> , 2021 , 33, 9447-9453	9.6	1
8	Effect of Surface [Cu ₄ O] Moieties on the Activity of Cu-Based Catalysts. <i>ACS Catalysis</i> , 5162-5173	13.1	1
7	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. <i>Nano Research</i> , 1	10	0
6	Tuning the electronic properties of hydrogen passivated C ₃ N nanoribbons through van der Waals stacking. <i>Frontiers of Physics</i> , 2020 , 15, 1	3.7	0
5	Strain-induced bandgap engineering in C ₃ N nanotubes. <i>Chemical Physics Letters</i> , 2021 , 768, 138390	2.5	0
4	Stabilization of Black Phosphorene by Edge-Selective Adsorption of C ₆₀ Molecules. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 6874-6879	3.8	0

- 3 Graphene: Synthesis of Layer-Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach (Adv. Funct. Mater. 24/2015). *Advanced Functional Materials*, **2015**, 25, 3796-3796 15.6
- 2 Structure of Lennard-Jones nanowires encapsulated by carbon nanotubes. *Chinese Physics B*, **2014**, 23, 016104 1.2
- 1 Optimizing the U value for DFT+U calculation of paramagnetic solid-state NMR shifts by double Fermi-contact-shift verification. *Chemical Physics Letters*, **2019**, 736, 136779 2.5