# Yan Jiao

# 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.

113	24,934	59	128
papers	citations	h-index	g-index
128	29,692 ext. citations	13.3	7.67
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
113	Stabilizing Cu Ions by Solid Solutions to Promote CO Electroreduction to Methane <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	31
112	Promoting ethylene production over a wide potential window on Cu crystallites induced and stabilized via current shock and charge delocalization. <i>Nature Communications</i> , <b>2021</b> , 12, 6823	17.4	9
111	Local Environment Determined Reactant Adsorption Configuration for Enhanced Electrocatalytic Acetone Hydrogenation to Propane. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	4
110	Catalytic Oxidation of KS via Atomic Co and Pyridinic N Synergy in Potassium-Sulfur Batteries. Journal of the American Chemical Society, <b>2021</b> , 143, 16902-16907	16.4	11
109	Three-Dimensional Carbon Electrocatalysts for CO2 or CO Reduction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 533-541	13.1	14
108	Self-Propelled and Electrobraking Synergetic Liquid Manipulator toward Microsampling and Bioanalysis. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discourse)</i> 13, 14741-14751	9.5	8
107	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5201-52	<del>1</del> 6.4	98
106	Stability of Engineered Ferritin Nanovaccines Investigated by Combined Molecular Simulation and Experiments. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3830-3842	3.4	1
105	Molecular Scalpel to Chemically Cleave Metal-Organic Frameworks for Induced Phase Transition. Journal of the American Chemical Society, <b>2021</b> , 143, 6681-6690	16.4	26
104	An Oxygenophilic Atomic Dispersed Fe?N?C Catalyst for Lean-Oxygen Seawater Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100683	21.8	9
103	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7819-7827	16.4	126
102	Theoretical considerations on activity of the electrochemical CO2 reduction on metal single-atom catalysts with asymmetrical active sites. <i>Catalysis Today</i> , <b>2021</b> ,	5.3	3
101	Geometric Modulation of Local CO Flux in Ag@Cu O Nanoreactors for Steering the CO RR Pathway toward High-Efficacy Methane Production. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101741	24	20
100	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO2 Reduction through Electrolyte and Potential Mediation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18326-18332	3.6	1
99	CO2 reduction by single copper atom supported on g-C3N4 with asymmetrical active sites. <i>Applied Surface Science</i> , <b>2021</b> , 540, 148293	6.7	15
98	Highly Selective Two-Electron Electrocatalytic CO2 Reduction on Single-Atom Cu Catalysts. <i>Small Structures</i> , <b>2021</b> , 2, 2000058	8.7	44
97	Anomalous C-C Coupling on Under-Coordinated Cu (111): A Case Study of Cu Nanopyramids for CO Reduction Reaction by Molecular Modelling. <i>ChemSusChem</i> , <b>2021</b> , 14, 671-678	8.3	4

## (2020-2021)

96	Role of oxygen-bound reaction intermediates in selective electrochemical CO2 reduction. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3912-3930	35.4	27
95	Spatial-confinement induced electroreduction of CO and CO to diols on densely-arrayed Cu nanopyramids. <i>Chemical Science</i> , <b>2021</b> , 12, 8079-8087	9.4	7
94	The Controllable Reconstruction of Bi-MOFs for Electrochemical CO Reduction through Electrolyte and Potential Mediation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18178-18184	16.4	35
93	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101006	24	55
92	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , <b>2021</b> , 1, 9-20		13
91	Studying the Conversion Mechanism to Broaden Cathode Options in Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25114-25121	16.4	17
90	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Al-S batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5714	17.4	13
89	Enhanced chemical trapping and catalytic conversion of polysulfides by diatomite/MXene hybrid interlayer for stable Li-S batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 62, 590-598	12	13
88	Key to C production: selective C-C coupling for electrochemical CO reduction on copper alloy surfaces. <i>Chemical Communications</i> , <b>2021</b> , 57, 9526-9529	5.8	1
87	Directing the selectivity of CO2 electroreduction to target C2 products via non-metal doping on Cu surfaces. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6345-6351	13	12
86	A MoN electrocatalyst for efficient NaS electrodeposition in room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 7195	17.4	9
85	Strain effect on the catalytic activities of B- and B/N-doped black phosphorene for electrochemical conversion of CO to valuable chemicals. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11986-11995	13	12
84	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9171-9176	16.4	206
83	Coordination Tunes Selectivity: Two-Electron Oxygen Reduction on High-Loading Molybdenum Single-Atom Catalysts. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9256-9261	3.6	59
82	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907557	24	87
81	Selectivity roadmap for electrochemical CO2 reduction on copper-based alloy catalysts. <i>Nano Energy</i> , <b>2020</b> , 71, 104601	17.1	65
80	Hydrogenated dual-shell sodium titanate cubes for sodium-ion batteries with optimized ion transportation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15829-15833	13	7
79	Two dimensional electrocatalyst engineering via heteroatom doping for electrocatalytic nitrogen reduction. <i>Chemical Communications</i> , <b>2020</b> , 56, 14154-14162	5.8	9

78	Isolated Boron Sites for Electroreduction of Dinitrogen to Ammonia. ACS Catalysis, 2020, 10, 1847-1854	13.1	82
77	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. Journal of the American Chemical Society, <b>2020</b> , 142, 2012-2022	16.4	84
76	Topotactically Transformed Polygonal Mesopores on Ternary Layered Double Hydroxides Exposing Under-Coordinated Metal Centers for Accelerated Water Dissociation. <i>Advanced Materials</i> , <b>2020</b> , 32, e2006784	24	67
75	Strain engineering of selective chemical adsorption on monolayer black phosphorous. <i>Applied Surface Science</i> , <b>2020</b> , 503, 144033	6.7	12
74	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for LittO2 Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904206	15.6	49
73	Selectivity Control for Electrochemical CO2 Reduction by Charge Redistribution on the Surface of Copper Alloys. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9411-9417	13.1	106
72	A computational study on Pt and Ru dimers supported on graphene for the hydrogen evolution reaction: new insight into the alkaline mechanism. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3648-3654	13	86
71	Impact of Interfacial Electron Transfer on Electrochemical CO Reduction on Graphitic Carbon Nitride/Doped Graphene. <i>Small</i> , <b>2019</b> , 15, e1804224	11	56
70	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11922-11926	3.6	12
69	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. <i>Chemical Communications</i> , <b>2019</b> , 55, 8313-8316	5.8	7
68	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12380-12385	3.6	19
67	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12252-12257	16.4	127
66	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9664-9672	16.4	390
65	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11796-11800	16.4	101
64	Understanding the Roadmap for Electrochemical Reduction of CO to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7646-76	5 <sup>1</sup> 9 <sup>6.4</sup>	371
63	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8117-8121	13	86
62	Syngas production from electrocatalytic CO2 reduction with high energetic efficiency and current density. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7675-7682	13	47
61	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 805-810	20.1	188

#### (2017-2019)

Intermediate Modulation on Noble Metal Hybridized to 2D Metal-Organic Framework for Accelerated Water Electrocatalysis. <i>CheM</i> , <b>2019</b> , 5, 2429-2441	16.2	95
The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 26, 3898	4.8	5
Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. <i>Advanced Materials</i> , <b>2019</b> , 31, e1803625	24	163
Die Wasserstoffentwicklungsreaktion in alkalischer L\(\bar{\textsf{U}}\)ung: Von der Theorie und Einkristallmodellen zu praktischen Elektrokatalysatoren. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7690-7702	3.6	64
Strain Effect in Bimetallic Electrocatalysts in the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1198-1204	20.1	124
NiO as a Bifunctional Promoter for RuO toward Superior Overall Water Splitting. <i>Small</i> , <b>2018</b> , 14, e1704	1073	147
Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , <b>2018</b> , 118, 6337-6408	3 68.1	1057
Metal-doped graphitic carbon nitride (g-C3N4) as selective NO2 sensors: A first-principles study. <i>Applied Surface Science</i> , <b>2018</b> , 455, 1116-1122	6.7	48
The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7568-7579	16.4	659
Titelbild: 2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries (Angew. Chem. 51/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16809-16809	3.6	0
Single-Crystal Nitrogen-Rich Two-Dimensional MoN Nanosheets for Efficient and Stable Seawater Splitting. <i>ACS Nano</i> , <b>2018</b> , 12, 12761-12769	16.7	171
Constructing tunable dual active sites on two-dimensional C3N4@MoN hybrid for electrocatalytic hydrogen evolution. <i>Nano Energy</i> , <b>2018</b> , 53, 690-697	17.1	126
2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16945-16949	3.6	10
2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16703-16707	16.4	224
Polydopamine-inspired nanomaterials for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21827-21846	13	74
Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801926	21.8	140
Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO2 Electroreduction. <i>CheM</i> , <b>2018</b> , 4, 1809-1831	16.2	372
Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3336-3339	16.4	816
	Accelerated Water Electrocatalysis. CheM, 2019, 5, 2429-2441  The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. Chemistry - A European Journal, 2019, 26, 3898  Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1803625  Die Wasserstoffentwicklungsreaktion in alkalischer LBung: Von der Theorie und Einkristallmodellen zu praktischen Elektrokatalysatoren. Angewandte Chemie, 2018, 130, 7690-7702  Strain Effect in Bimetallic Electrocatalysts in the Hydrogen Evolution Reaction. ACS Energy Letters, 2018, 3, 1198-1204  NIO as a Bifunctional Promoter for RuO toward Superior Overall Water Splitting. Small, 2018, 14, e1704  Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408  Metal-doped graphitic carbon nitride (g-C3N4) as selective NO2 sensors: A first-principles study. Applied Surface Science, 2018, 455, 1116-1122  The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. Angewandte Chemie - International Edition, 2018, 57, 7568-7579  Titelbild: 2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries (Angew. Chem. 51/2018). Angewandte Chemie, 2018, 130, 16809-16809  Single-Crystal Nitrogen-Rich Two-Dimensional MoN Nanosheets for Efficient and Stable Seawater Splitting. ACS Nano, 2018, 12, 12761-12769  Constructing tunable dual active sites on two-dimensional C3N4@MoN hybrid for electrocatalytic hydrogen evolution. Nano Energy, 2018, 53, 690-697  2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2018, 57, 16703-16707  Polydopamine-inspired nanomaterials for energy conversion and storage. Journal of Materials Chemistry A, 2018, 6, 21827-21846  Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. Advanced Energy	Accelerated Water Electrocatalysis. Chem, 2019, 5, 2429-2441  The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. Chemistry - A European Journal, 2019, 26, 3898  Electronic and Structural Engineering of Carbon-Based Metal-Free Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1803625  Die Wasserstoffentwicklungsreaktion in alkalischer LBung: Von der Theorie und Einkristallmodellen zu praktischen Elektrokatalysatoren. Angewandte Chemie, 2018, 130, 7690-7702  36  Strain Effect in Bimetallic Electrocatalysts in the Hydrogen Evolution Reaction. ACS Energy Letters, 20.1  NiO as a Bifunctional Promoter for RuO toward Superior Overall Water Splitting. Small, 2018, 14, e1704033  Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408 68.1  Metal-doped graphitic carbon nitride (g-C3N4) as selective NO2 sensors: A first-principles study. Applied Surface Science, 2018, 455, 1116-1122  The Hydrogen Evolution Reaction in Alkaline Solution: From Theory, Single Crystal Models, to Practical Electrocatalysts. Angewandte Chemie - International Edition, 2018, 57, 7568-7579  164  Titelbild: 2D Mon-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries (Angew. Chem. 51/2018). Angewandte Chemie, 2018, 130, 16809-16809  Single-Crystal Nitrogen-Rich Two-Dimensional Mon Nanosheets for Efficient and Stable Seawater Splitting. ACS Nano, 2018, 12, 12761-12769  2D Mon-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. Angewandte Chemie, 2018, 130, 16845-16949  2D Mon-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. Angewandte Chemie, 2018, 130, 16845-16949  2D Mon-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. Angewandte Chemie, 2018, 130, 16845-16949  2D Mon-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. Angewandte Chemie,

42	Polydopamine-Inspired, Dual Heteroatom-Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602068	21.8	256
41	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. <i>Nature Communications</i> , <b>2017</b> , 8, 1509	17.4	276
40	Molecular Scaffolding Strategy with Synergistic Active Centers To Facilitate Electrocatalytic CO Reduction to Hydrocarbon/Alcohol. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18093-18100	16.4	341
39	Versatile two-dimensional stanene-based membrane for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5577-5583	6.7	13
38	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16174-16181	16.4	586
37	Activity origin and catalyst design principles forlelectrocatalytic hydrogen evolution on heteroatom-dopedlgraphene. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	703
36	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. <i>Nature Communications</i> , <b>2016</b> , 7, 12876	17.4	471
35	Single Atom (Pd/Pt) Supported on Graphitic Carbon Nitride as an Efficient Photocatalyst for Visible-Light Reduction of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6292-7	16.4	735
34	Modelling CO 2 adsorption and separation on experimentally-realized B 40 fullerene. <i>Computational Materials Science</i> , <b>2015</b> , 108, 38-41	3.2	33
33	H2 purification by functionalized graphdiyne Irole of nitrogen doping. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6767-6771	13	56
32	Metal-free graphitic carbon nitride as mechano-catalyst for hydrogen evolution reaction. <i>Journal of Catalysis</i> , <b>2015</b> , 332, 149-155	7.3	106
31	Carbon nanodot decorated graphitic carbon nitride: new insights into the enhanced photocatalytic water splitting from ab initio studies. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31140-4	3.6	90
30	Advancing the electrochemistry of the hydrogen-evolution reaction through combining experiment and theory. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 52-65	16.4	1282
29	Engineering of Carbon-Based Electrocatalysts for Emerging Energy Conversion: From Fundamentality to Functionality. <i>Advanced Materials</i> , <b>2015</b> , 27, 5372-8	24	216
28	Calculations of helium separation via uniform pores of stanene-based membranes. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 2470-6	3	9
27	Charge Mediated Semiconducting-to-Metallic Phase Transition in Molybdenum Disulfide Monolayer and Hydrogen Evolution Reaction in New 1T? Phase. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13124-1	3128	248
26	Elektrochemie der Wasserstoffentwicklungsreaktion: Optimierung durch Korrelation von Experiment und Theorie. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 52-66	3.6	137
25	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 2060-86	58.5	3275

### (2011-2014)

24	Origin of the electrocatalytic oxygen reduction activity of graphene-based catalysts: a roadmap to achieve the best performance. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4394-403	16.4	794
23	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , <b>2014</b> , 5, 3783	17.4	1572
22	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. <i>ACS Nano</i> , <b>2014</b> , 8, 5290-6	16.7	802
21	Electrocatalytically switchable CO2 capture: first principle computational exploration of carbon nanotubes with pyridinic nitrogen. <i>ChemSusChem</i> , <b>2014</b> , 7, 317	8.3	1
20	Electrocatalytically switchable CO2 capture: first principle computational exploration of carbon nanotubes with pyridinic nitrogen. <i>ChemSusChem</i> , <b>2014</b> , 7, 435-41	8.3	55
19	Modelling carbon membranes for gas and isotope separation. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4832-43	3.6	84
18	Porous Graphene and Nanomeshes <b>2013</b> , 129-151		1
17	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3192-3198	3.6	332
16	Factors influencing the deposition of hydroxyapatite coating onto hollow glass microspheres. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 2744-51	8.3	9
15	Two-step boron and nitrogen doping in graphene for enhanced synergistic catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3110-6	16.4	776
14	Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11664-11668	3.6	234
13	REktitelbild: Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance (Angew. Chem. 46/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11808-11808	3.6	6
12	Sulfur and nitrogen dual-doped mesoporous graphene electrocatalyst for oxygen reduction with synergistically enhanced performance. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11496-500	16.4	1726
11	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. <i>Small</i> , <b>2012</b> , 8, 3550-66	11	518
10	Hybrid graphene and graphitic carbon nitride nanocomposite: gap opening, electron-hole puddle, interfacial charge transfer, and enhanced visible light response. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4393-7	16.4	490
9	Asymmetrically Decorated, Doped Porous Graphene As an Effective Membrane for Hydrogen Isotope Separation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 6672-6676	3.8	69
8	Graphdiyne: a versatile nanomaterial for electronics and hydrogen purification. <i>Chemical Communications</i> , <b>2011</b> , 47, 11843-5	5.8	289
7	A density functional theory study on CO2 capture and activation by graphene-like boron nitride with boron vacancy. <i>Catalysis Today</i> , <b>2011</b> , 175, 271-275	5.3	74

6	Nanoporous graphitic-C3N4@carbon metal-free electrocatalysts for highly efficient oxygen reduction. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20116-9	16.4	869
5	Adsorption of Carbon Dioxide and Nitrogen on Single-Layer Aluminum Nitride Nanostructures Studied by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7846-7849	3.8	46
4	A density functional theory study of CO2 and N2 adsorption on aluminium nitride single walled nanotubes. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10426		54
3	C3 production from CO2 reduction by concerted *CO trimerization on a single-atom alloy catalyst. <i>Journal of Materials Chemistry A</i> ,	13	4
2	Studying conversion mechanism to broaden cathode options in aqueous Zn-ion batteries. <i>Angewandte Chemie</i> ,	3.6	12
1	Directional and Adaptive Oil Self-Transport on a Multi-Bioinspired Grooved Conical Spine. <i>Advanced Functional Materials</i> ,2201035	15.6	5