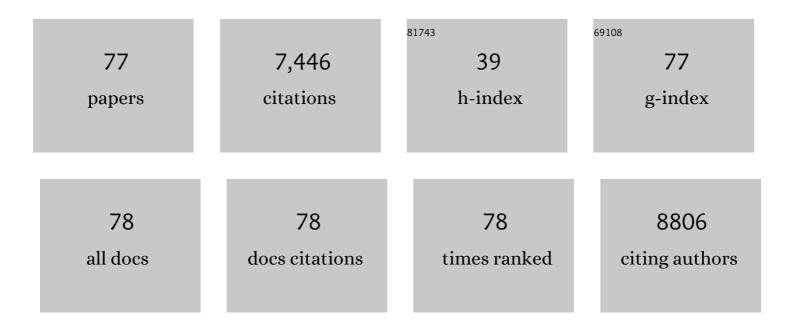
## List of Publications by Year in descending order

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SENTIN

#	Article	IF	CITATIONS
1	Overall water splitting by Pt/g-C <sub>3</sub> N <sub>4</sub> photocatalysts without using sacrificial agents. Chemical Science, 2016, 7, 3062-3066.	3.7	835
2	Coâ€Monomer Control of Carbon Nitride Semiconductors to Optimize Hydrogen Evolution with Visible Light. Angewandte Chemie - International Edition, 2012, 51, 3183-3187.	7.2	744
3	Carbon-doped BN nanosheets for metal-free photoredox catalysis. Nature Communications, 2015, 6, 7698.	5.8	609
4	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. Nature Communications, 2014, 5, 4885.	5.8	498
5	Invisible Security Ink Based on Waterâ€Soluble Graphitic Carbon Nitride Quantum Dots. Angewandte Chemie - International Edition, 2016, 55, 2773-2777.	7.2	336
6	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. Angewandte Chemie - International Edition, 2016, 55, 9202-9206.	7.2	326
7	First-Principles Investigations of Metal (Cu, Ag, Au, Pt, Rh, Pd, Fe, Co, and Ir) Doped Hexagonal Boron Nitride Nanosheets: Stability and Catalysis of CO Oxidation. Journal of Physical Chemistry C, 2013, 117, 17319-17326.	1.5	300
8	Thermally Stable and Regenerable Platinum–Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. Angewandte Chemie - International Edition, 2017, 56, 8986-8991.	7.2	262
9	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. ACS Catalysis, 2019, 9, 3978-3990.	5.5	233
10	Design of Effective Catalysts for Selective Alkyne Hydrogenation by Doping of Ceria with a Single-Atom Promotor. Journal of the American Chemical Society, 2018, 140, 12964-12973.	6.6	204
11	Monolayer HNb <sub>3</sub> O <sub>8</sub> for Selective Photocatalytic Oxidation of Benzylic Alcohols with Visible Light Response. Angewandte Chemie - International Edition, 2014, 53, 2951-2955.	7.2	201
12	Defect Engineering and Phase Junction Architecture of Wide-Bandgap ZnS for Conflicting Visible Light Activity in Photocatalytic H <sub>2</sub> Evolution. ACS Applied Materials & Interfaces, 2015, 7, 13915-13924.	4.0	193
13	Understanding the Activity of Coâ€N <sub>4â^'<i>x</i></sub> C <sub><i>x</i></sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. Angewandte Chemie - International Edition, 2020, 59, 6122-6127.	7.2	156
14	Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO <sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2021, 60, 25055-25062.	7.2	154
15	A computational investigation of CO oxidation on ruthenium-embedded hexagonal boron nitride nanosheet. Computational and Theoretical Chemistry, 2013, 1011, 5-10.	1.1	107
16	Correlating DFT Calculations with CO Oxidation Reactivity on Ga-Doped Pt/CeO <sub>2</sub> Single-Atom Catalysts. Journal of Physical Chemistry C, 2018, 122, 22460-22468.	1.5	91
17	Can metal-free silicon-doped hexagonal boron nitride nanosheets and nanotubes exhibit activity toward CO oxidation?. Physical Chemistry Chemical Physics, 2015, 17, 888-895.	1.3	88
18	Engineering catalyst supports to stabilize PdOx two-dimensional rafts for water-tolerant methane oxidation. Nature Catalysis, 2021, 4, 830-839.	16.1	86

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19	Mechanistic insight into the water photooxidation on pure and sulfur-doped g-C3N4 photocatalysts from DFT calculations with dispersion corrections. Journal of Molecular Catalysis A, 2015, 406, 137-144.	4.8	81
20	Phenyl-doped graphitic carbon nitride: photoluminescence mechanism and latent fingerprint imaging. Nanoscale, 2017, 9, 17737-17742.	2.8	77
21	Molecular Engineering of Conjugated Polybenzothiadiazoles for Enhanced Hydrogen Production by Photosynthesis. Angewandte Chemie, 2016, 128, 9348-9352.	1.6	70
22	Invisible Security Ink Based on Waterâ€Soluble Graphitic Carbon Nitride Quantum Dots. Angewandte Chemie, 2016, 128, 2823-2827.	1.6	69
23	A Pd/Monolayer Titanate Nanosheet with Surface Synergetic Effects for Precise Synthesis of Cyclohexanones. ACS Catalysis, 2017, 7, 8664-8674.	5.5	69
24	A novel phosphotungstic acid-supported single metal atom catalyst with high activity and selectivity for the synthesis of NH <sub>3</sub> from electrochemical N <sub>2</sub> reduction: a DFT prediction. Journal of Materials Chemistry A, 2019, 7, 19838-19845.	5.2	69
25	High-Efficiency Water Gas Shift Reaction Catalysis on α-MoC Promoted by Single-Atom Ir Species. ACS Catalysis, 2021, 11, 5942-5950.	5.5	65
26	Design of a High-Performance Electrocatalyst for N <sub>2</sub> Conversion to NH <sub>3</sub> by Trapping Single Metal Atoms on Stepped CeO <sub>2</sub> . ACS Applied Materials & Interfaces, 2019, 11, 47525-47534.	4.0	64
27	Pathways of Methanol Steam Reforming on PdZn and Comparison with Cu. Journal of Physical Chemistry C, 2011, 115, 20583-20589.	1.5	60
28	Selective hydrogenation of 1,3-butadiene catalyzed by a single Pd atom anchored on graphene: the importance of dynamics. Chemical Science, 2018, 9, 5890-5896.	3.7	55
29	ldentification of Active Sites on High-Performance Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst for Cryogenic CO Oxidation. ACS Catalysis, 2020, 10, 8815-8824.	5.5	54
30	Axial ligand effect on the stability of Fe–N–C electrocatalysts for acidic oxygen reduction reaction. Nano Energy, 2020, 78, 105128.	8.2	54
31	Defective Hexagonal Boron Nitride Nanosheet on Ni(111) and Cu(111): Stability, Electronic Structures, and Potential Applications. ACS Applied Materials & Interfaces, 2016, 8, 24238-24247.	4.0	51
32	Unraveling the Intermediate Reaction Complexes and Critical Role of Support-Derived Oxygen Atoms in CO Oxidation on Single-Atom Pt/CeO <sub>2</sub> . ACS Catalysis, 2021, 11, 8701-8715.	5.5	51
33	Thermally Stable and Regenerable Platinum–Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. Angewandte Chemie, 2017, 129, 9114-9119.	1.6	49
34	A Cu(111) supported h-BN nanosheet: a potential low-cost and high-performance catalyst for CO oxidation. Physical Chemistry Chemical Physics, 2015, 17, 22097-22105.	1.3	48
35	Metalized Carbon Nitrides for Efficient Catalytic Functionalization of CO <sub>2</sub> . ACS Catalysis, 2022, 12, 1797-1808.	5.5	48
36	Single atom detachment from Cu clusters, and diffusion and trapping on CeO <sub>2</sub> (111): implications in Ostwald ripening and atomic redispersion. Nanoscale, 2018, 10, 17893-17901.	2.8	47

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37	Understanding the Activity of Coâ€N <sub>4â^'<i>x</i></sub> C <sub><i>x</i></sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. Angewandte Chemie, 2020, 132, 6178-6183.	1.6	47
38	Revealing the importance of kinetics in N-coordinated dual-metal sites catalyzed oxygen reduction reaction. Journal of Catalysis, 2021, 396, 215-223.	3.1	47
39	Methanol conversion on borocarbonitride catalysts: Identification and quantification of active sites. Science Advances, 2020, 6, eaba5778.	4.7	45
40	On the mechanism of alkyne hydrogenation catalyzed by Ga-doped ceria. Journal of Catalysis, 2019, 375, 410-418.	3.1	43
41	Confined Catalysis in the <i>g</i> -C <sub>3</sub> N <sub>4</sub> /Pt(111) Interface: Feasible Molecule Intercalation, Tunable Molecule–Metal Interaction, and Enhanced Reaction Activity of CO Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 33267-33273.	4.0	40
42	Bandgap Opening of Graphdiyne Monolayer via B, N-Codoping for Photocatalytic Overall Water Splitting: Design Strategy from DFT Studies. Journal of Physical Chemistry C, 2020, 124, 6624-6633.	1.5	39
43	Metalated carbon nitrides as base catalysts for efficient catalytic hydrolysis of carbonyl sulfide. Chemical Communications, 2019, 55, 11259-11262.	2.2	38
44	First-Principles Insights into Ammonia Decomposition Catalyzed by Ru Clusters Anchored on Carbon Nanotubes: Size Dependence and Interfacial Effects. Journal of Physical Chemistry C, 2018, 122, 9091-9100.	1.5	35
45	Phosphomolybdic acid supported single-metal-atom catalysis in CO oxidation: first-principles calculations. Physical Chemistry Chemical Physics, 2018, 20, 20661-20668.	1.3	34
46	Vertically aligned 2D carbon doped boron nitride nanofilms for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2020, 8, 13059-13064.	5.2	31
47	Perovskite-supported Pt single atoms for methane activation. Journal of Materials Chemistry A, 2020, 8, 4362-4368.	5.2	31
48	An unsaturated metal site-promoted approach to construct strongly coupled noble metal/HNb <sub>3</sub> O <sub>8</sub> nanosheets for efficient thermo/photo-catalytic reduction. Nanoscale, 2017, 9, 14654-14663.	2.8	30
49	Synthesis of Nickelâ€Doped Ceria Catalysts for Selective Acetylene Hydrogenation. ChemCatChem, 2019, 11, 1526-1533.	1.8	30
50	Ru–polyoxometalate as a single-atom electrocatalyst for N <sub>2</sub> reduction to NH <sub>3</sub> with high selectivity at applied voltage: a perspective from DFT studies. Physical Chemistry Chemical Physics, 2020, 22, 7234-7240.	1.3	30
51	Catalytic role of assembled Ce Lewis acid sites over ceria for electrocatalytic conversion of dinitrogen to ammonia. Journal of Energy Chemistry, 2021, 60, 249-258.	7.1	29
52	Efficient aerobic oxidation of alcohols to esters by acidified carbon nitride photocatalysts. Journal of Catalysis, 2021, 393, 116-125.	3.1	27
53	Phosphomolybdic acid supported atomically dispersed transition metal atoms (M = Fe, Co, Ni, Cu, Ru,) Tj ETQq1 1 Advances, 2017, 7, 24925-24932.	0.784314 1.7	4 rgBT /Over 23
54	Selective hydrogenation of acetylene to ethylene on anatase TiO <sub>2</sub> through first-principles studies. Journal of Materials Chemistry A, 2021, 9, 14064-14073.	5.2	23

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55	Theoretical Insight into the Reaction Mechanism of Ethanol Steam Reforming on Co(0001). Journal of Physical Chemistry C, 2015, 119, 2680-2691.	1.5	22
56	Revealing the Origin of Nitrogen Electroreduction Activity of Molybdenum Disulfide Supported Iron Atoms. Journal of Physical Chemistry C, 2022, 126, 5180-5188.	1.5	22
57	Novel Porous Boron Nitride Nanosheet with Carbon Doping: Potential Metalâ€Free Photocatalyst for Visibleâ€Lightâ€Driven Overall Water Splitting. Advanced Theory and Simulations, 2019, 2, 1800174.	1.3	21
58	α-MoC Supported Noble Metal Catalysts for Water–Gas Shift Reaction: Single-Atom Promoter or Single-Atom Player. Journal of Physical Chemistry Letters, 2021, 12, 11415-11421.	2.1	21
59	Environmentally benign synthesis of a PGM-free catalyst for low temperature CO oxidation. Applied Catalysis B: Environmental, 2020, 264, 118547.	10.8	20
60	Dynamics of Initial Hydrogen Spillover from a Single Atom Platinum Active Site to the Cu(111) Host Surface: The Impact of Substrate Electron–Hole Pairs. Journal of Physical Chemistry Letters, 2021, 12, 8423-8429.	2.1	19
61	Coordination structure at work: Atomically dispersed heterogeneous catalysts. Coordination Chemistry Reviews, 2022, 460, 214469.	9.5	15
62	A Visible Light Photocatalyst of Carbonate‣ike Species Doped TiO <sub>2</sub> . Journal of the American Ceramic Society, 2017, 100, 333-342.	1.9	14
63	Origin of Confined Catalysis in Nanoscale Reactors between Two-Dimensional Covers and Metal Substrates: Mechanical or Electronic?. Journal of Physical Chemistry C, 2020, 124, 11564-11573.	1.5	14
64	Construction of frustrated Lewis pairs on carbon nitride nanosheets for catalytic hydrogenation of acetylene. Physical Chemistry Chemical Physics, 2021, 23, 24349-24356.	1.3	14
65	Photo-fluorination of nanodiamonds catalyzing oxidative dehydrogenation reaction of ethylbenzene. Nature Communications, 2021, 12, 6542.	5.8	14
66	Initial Decomposition of Methanol and Water on In <sub>2</sub> O <sub>3</sub> (110): A Periodic DFT Study. Chinese Journal of Chemistry, 2012, 30, 2036-2040.	2.6	13
67	A comprehensive understanding of water photooxidation on Ag <sub>3</sub> PO <sub>4</sub> surfaces. RSC Advances, 2017, 7, 23994-24003.	1.7	13
68	Acetylene hydrogenation catalyzed by bare and Ni doped CeO <sub>2</sub> (110): the role of frustrated Lewis pairs. Physical Chemistry Chemical Physics, 2022, 24, 11295-11304.	1.3	12
69	The band structure engineering of fluorine-passivated graphdiyne nanoribbons <i>via</i> doping with BN pairs for overall photocatalytic water splitting. Physical Chemistry Chemical Physics, 2020, 22, 26995-27001.	1.3	11
70	Semi-Hydrogenation of Alkynes by a Tandem Photoredox System Free of Noble Metal. CCS Chemistry, 2022, 4, 2597-2603.	4.6	9
71	Cu/O Frustrated Lewis Pairs on Cu Doped CeO2(111) for Acetylene Hydrogenation: A First-Principles Study. Catalysts, 2022, 12, 74.	1.6	8
72	Halogen-driven bandgap opening in graphdiyne for overall photocatalytic water splitting. Chinese Journal of Chemical Physics, 2021, 34, 805-813.	0.6	7

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73	Design of Catalysts for Selective Hydrogenation of Acrylonitrile via Confining Single Metal Atoms within a C <sub>2</sub> N Framework. Journal of Physical Chemistry C, 2022, 126, 10053-10060.	1.5	7
74	Versatile Synthesis of Hollow Metal Sulfides via Cation Exchange Reactions for Photocatalytic CO2 Reduction. Angewandte Chemie, 2021, 133, 25259.	1.6	6
75	Frustrated Lewis Pairs in Heterogeneous Catalysis: Theoretical Insights. Molecules, 2022, 27, 3734.	1.7	5
76	Activation of Reactions in the Complex Region Using Microwave Irradiation. Journal of Physical Chemistry A, 2018, 122, 7540-7547.	1.1	4
77	Dynamics in Heterogeneous and Single-Site Catalysis. , 2024, , 649-657.		0