

Phil De Luna

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.

46 papers	10,074 citations	34 h-index	52 g-index
52 ext. papers	13,363 ext. citations	21.9 avg, IF	6.28 L-index

#	Paper	IF	Citations
46	How CO ₂ -to-Diesel Technology Could Help Reach Net-Zero Emissions Targets: A Canadian Case Study. <i>Energies</i> , 2021 , 14, 6957	3.1	3
45	Stabilizing Highly Active Ru Sites by Suppressing Lattice Oxygen Participation in Acidic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6482-6490	16.4	38
44	How increasing proton and electron conduction benefits electrocatalytic CO ₂ reduction. <i>Matter</i> , 2021 , 4, 1555-1577	12.7	4
43	Metal-Free Hydrogen-Bonded Polymers Mimic Noble Metal Electrocatalysts. <i>Advanced Materials</i> , 2020 , 32, e1902177	24	10
42	Accelerated discovery of CO electrocatalysts using active machine learning. <i>Nature</i> , 2020 , 581, 178-183	50.4	328
41	Molecular enhancement of heterogeneous CO reduction. <i>Nature Materials</i> , 2020 , 19, 266-276	27	195
40	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020 , 3, 985-992	36.5	149
39	Three-Dimensional Cathodes for Electrochemical Reduction of CO: From Macro- to Nano-Engineering. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
38	Robust Antibacterial Activity of Tungsten Oxide (WO) Nanodots. <i>Chemical Research in Toxicology</i> , 2019 , 32, 1357-1366	4	39
37	Imparting gas selective and pressure dependent porosity into a non-porous solid via coordination flexibility. <i>Materials Horizons</i> , 2019 , 6, 1883-1891	14.4	10
36	What would it take for renewably powered electrosynthesis to displace petrochemical processes?. <i>Science</i> , 2019 , 364,	33.3	749
35	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019 , 2, 251-258	36.5	111
34	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019 , 3, 1703-1718	27.8	78
33	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019 , 2, 648-658	36.5	442
32	Electrocatalytic Rate Alignment Enhances Syngas Generation. <i>Joule</i> , 2019 , 3, 257-264	27.8	40
31	Multi-site electrocatalysts for hydrogen evolution in neutral media by destabilization of water molecules. <i>Nature Energy</i> , 2019 , 4, 107-114	62.3	264
30	Chemical-to-Electricity Carbon: Water Device. <i>Advanced Materials</i> , 2018 , 30, e1707635	24	32

29	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018 , 1, 103-110	36.5	479
28	What Should We Make with CO ₂ and How Can We Make It?. <i>Joule</i> , 2018 , 2, 825-832	27.8	546
27	Dopant-induced electron localization drives CO reduction to C hydrocarbons. <i>Nature Chemistry</i> , 2018 , 10, 974-980	17.6	435
26	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11378-11386	16.4	188
25	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2018 , 30, e1802858	24	123
24	Metal-Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31225-31232	9.5	30
23	Steering post-CO coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. <i>Nature Catalysis</i> , 2018 , 1, 421-428	36.5	348
22	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , 2018 , 10, 149-154	17.6	328
21	A Surface Reconstruction Route to High Productivity and Selectivity in CO Electroreduction toward C Hydrocarbons. <i>Advanced Materials</i> , 2018 , 30, e1804867	24	131
20	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018 , 9, 4614	17.4	86
19	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018 , 1, 946-951	36.5	205
18	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO. <i>Nature Communications</i> , 2018 , 9, 3828	17.4	164
17	CO electroreduction to ethylene via hydroxide-mediated copper catalysis at an abrupt interface. <i>Science</i> , 2018 , 360, 783-787	33.3	980
16	High-Curvature Nanostructuring Enhances Probe Display for Biomolecular Detection. <i>Nano Letters</i> , 2017 , 17, 1289-1295	11.5	49
15	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11582-11585	13	42
14	Structural influence of proteins upon adsorption to MoS ₂ nanomaterials: comparison of MoS ₂ force field parameters. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3039-3045	3.6	36
13	Snatching the Ligand or Destroying the Structure: Disruption of WW Domain by Phosphorene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1362-1370	3.8	10
12	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017 , 1, 794-805	27.8	263

11	Biofunctionalized conductive polymers enable efficient CO electroreduction. <i>Science Advances</i> , 2017 , 3, e1700686	14.3	61
10	Tunable Cu Enrichment Enables Designer Syngas Electrosynthesis from CO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9359-9363	16.4	183
9	Use machine learning to find energy materials. <i>Nature</i> , 2017 , 552, 23-27	50.4	63
8	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2016 , 6, 8115-8120	13.1	212
7	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
6	QSAR Accelerated Discovery of Potent Ice Recrystallization Inhibitors. <i>Scientific Reports</i> , 2016 , 6, 26403	4.9	12
5	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.4	997
4	A single-ligand ultra-microporous MOF for precombustion CO ₂ capture and hydrogen purification. <i>Science Advances</i> , 2015 , 1, e1500421	14.3	97
3	A density functional theory investigation into the binding of the antioxidants ergothioneine and ovothiol to copper. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4057-65	2.8	17
2	A molecular dynamics examination on mutation-induced catalase activity in coral allene oxide synthase. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14635-41	3.4	11
1	A Molecular Dynamics (MD) and Quantum Mechanics/Molecular Mechanics (QM/MM) study on Ornithine Cyclodeaminase (OCD): a tale of two iminiums. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 12994-3011	6.3	9