

# Ruud Kortlever

## List of Publications by Year in descending order

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24  
papers

5,069  
citations

430442

18  
h-index

610482

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

6108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking the Electrochemical CO <sub>2</sub> Reduction on Polycrystalline Copper Foils: The Importance of Microstructure Versus Applied Potential. ChemCatChem, 2022, 14, .	1.8	9
2	Surface Coverage as an Important Parameter for Predicting Selectivity Trends in Electrochemical CO <sub>2</sub> Reduction. Journal of Physical Chemistry C, 2022, 126, 11927-11936.	1.5	9
3	Modeling the Performance of an Integrated Battery and Electrolyzer System. Industrial & Engineering Chemistry Research, 2021, 60, 10988-10996.	1.8	4
4	Electroreduction of CO <sub>2</sub> /CO to C <sub>2</sub> Products: Process Modeling, Downstream Separation, System Integration, and Economic Analysis. Industrial & Engineering Chemistry Research, 2021, 60, 17862-17880.	1.8	35
5	Sn-Based Electrocatalyst Stability: A Crucial Piece to the Puzzle for the Electrochemical CO <sub>2</sub> Reduction toward Formic Acid. ACS Energy Letters, 2021, 6, 4317-4327.	8.8	51
6	In Situ ATR-SEIRAS of Carbon Dioxide Reduction at a Plasmonic Silver Cathode. Journal of the American Chemical Society, 2020, 142, 11750-11762.	6.6	68
7	Electrochemical CO <sub>2</sub> reduction on nanostructured metal electrodes: fact or defect?. Chemical Science, 2020, 11, 1738-1749.	3.7	83
8	Electrolyte Effects on the Electrochemical Reduction of CO <sub>2</sub> . ChemPhysChem, 2019, 20, 2926-2935.	1.0	151
9	Local structure and composition of PtRh nanoparticles produced through cathodic corrosion. Physical Chemistry Chemical Physics, 2017, 19, 10301-10308.	1.3	11
10	Gastight Hydrodynamic Electrochemistry: Design for a Hermetically Sealed Rotating Disk Electrode Cell. Analytical Chemistry, 2017, 89, 581-585.	3.2	10
11	CO <sub>2</sub> Reduction Selective for C <sub>2</sub> Products on Polycrystalline Copper with N-Substituted Pyridinium Additives. ACS Central Science, 2017, 3, 853-859.	5.3	226
12	Oxidation reactions in chromium(III) formate electrolytes at platinum and at a catalytic mixed metal oxide coating of iridium oxide and tantalum oxide. Electrochimica Acta, 2016, 213, 194-200.	2.6	4
13	Kinetics of Photocatalytic Water Oxidation at Liposomes: Membrane Anchoring Stabilizes the Photosensitizer. ACS Catalysis, 2016, 6, 5968-5977.	5.5	30
14	Iridium-based double perovskites for efficient water oxidation in acid media. Nature Communications, 2016, 7, 12363.	5.8	353
15	Palladium-gold catalyst for the electrochemical reduction of CO <sub>2</sub> to C <sub>1</sub> -C <sub>5</sub> hydrocarbons. Chemical Communications, 2016, 52, 10229-10232.	2.2	146
16	Three-dimensional porous hollow fibre copper electrodes for efficient and high-rate electrochemical carbon dioxide reduction. Nature Communications, 2016, 7, 10748.	5.8	294
17	Electrochemical CO <sub>2</sub> Reduction to Formic Acid at Low Overpotential and with High Faradaic Efficiency on Carbon-Supported Bimetallic Pd-Pt Nanoparticles. ACS Catalysis, 2015, 5, 3916-3923.	5.5	394
18	Catalysts and Reaction Pathways for the Electrochemical Reduction of Carbon Dioxide. Journal of Physical Chemistry Letters, 2015, 6, 4073-4082.	2.1	1,524

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19	Enhanced electrocatalytic activity of Au@Cu core@shell nanoparticles towards CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2015, 3, 23690-23698.	5.2	138
20	Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin. Nature Communications, 2015, 6, 8177.	5.8	456
21	Manipulating the Hydrocarbon Selectivity of Copper Nanoparticles in CO <sub>2</sub> Electroreduction by Process Conditions. ChemElectroChem, 2015, 2, 354-358.	1.7	361
22	Electrochemical CO <sub>2</sub> reduction to formic acid on a Pd-based formic acid oxidation catalyst. Catalysis Today, 2015, 244, 58-62.	2.2	138
23	Electrochemical CO <sub>2</sub> reduction on Cu <sub>2</sub> O-derived copper nanoparticles: controlling the catalytic selectivity of hydrocarbons. Physical Chemistry Chemical Physics, 2014, 16, 12194-12201.	1.3	458
24	Electrochemical carbon dioxide and bicarbonate reduction on copper in weakly alkaline media. Journal of Solid State Electrochemistry, 2013, 17, 1843-1849.	1.2	116