Marc Koper

List of Articles by Year in descending order

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462 peer-reviewed articles	59,518 peer-reviewed citations	679 118 peer-reviewed h-index	174937 5.88 score
507 documents	68596 doc citations	824 124 h-index	53219 citing authors

#	Article	IF	Citations
1	Mechanism of Cr(III)-based oxide-hydroxide film electrodeposition in an acidic solution. Electrochimica Acta, 2025, 512, 145451.	4.1	9
2	Electrocatalytic CO 2 Reduction to Methanol on Pt(111) Modified with a Pd Monolayer. ACS Catalysis, 2025, 15, 1514-1521.	9.8	19
3	Platinum hydride formation during cathodic corrosion in aqueous solutions. Nature Materials, 2025, 24, 574-580.	23.7	26
4	Effect of Trace Amounts of Chloride on Roughening of Au(111) Single-Crystal Electrode Surface in Sulfuric Acid Solution during Oxidation–Reduction Cycles. , 2025, 1, 1082-1092.		7
5	Combined effects of electrode morphology and electrolyte composition on single H 2 gas bubble detachment during hydrogen evolution reaction. Nanoscale, 2025, 17, 10020-10034.	3.6	36
6	Anisotropic Roughening of a Au(111) Single-Crystal Electrode Surface in HClO₄ Solution during Oxidation–Reduction Cycles. Journal of Physical Chemistry C, 2025, 129, 8915-8926.	2.3	2
7	Cation-Mediated Pseudocapacitance Dominates the Interfacial Charging of α-Fe2O3(0001) in an Alkaline Electrolyte. Journal of Physical Chemistry C, 2025, 129, 10473-10485.	2.3	4
8	Temperature-Dependent Kinetic Parameters for the Alkaline Oxygen Evolution Reaction on NiFeOOH. ACS Energy Letters, 2025, 10, 3040-3049.	12.4	30
9	Cation Effects on the Hydrogen Evolution Reaction by Catalysts Based on Cobalt Complexes in Alkaline Electrolytes. Electrochimica Acta, 2025, 535, 146684.	4.1	9
10	Progress and pitfalls in measuring the double-layer capacitance of platinum electrodes. Current Opinion in Electrochemistry, 2025, 53, 101727.	2.6	11
11	(Invited) Observation of Undefined Molecular Interactions at the Au Foil-Electrolyte Interface Using X-Ray Photoelectron Spectroscopy. ECS Meeting Abstracts, 2025, MA2025-01, 2438-2438.	0.0	0
12	Temperature-dependent selectivity for CO electroreduction on copper-based gas-diffusion electrodes at high current densities. Chemical Engineering Journal, 2024, 483, 149105.	8.6	24
13	Li+ Cations Activate NiFeOOH for Oxygen Evolution in Sodium and Potassium Hydroxide. Angewandte Chemie - International Edition, 2024, 63, .	11.6	31
14	Li⁺ Kationen aktivieren NiFeOOH für die Sauerstoffentwicklung in Natrium- und Kaliumhydroxid. Angewandte Chemie, 2024, 136, .	0.9	0
15	Tuning the Interfacial Reaction Environment for CO2 Electroreduction to CO in Mildly Acidic Media. Journal of the American Chemical Society, 2024, 146, 5242-5251.	11.7	145
16	Prospects for electrochemical X-ray photoelectron spectroscopy as a powerful electrochemical interface characterization technique. Current Opinion in Electrochemistry, 2024, 45, 101462.	2.6	20
17	Site-specific reactivity of stepped Pt surfaces driven by stress release. Nature, 2024, 626, 1005-1010.	30.6	153
18	Cooperative Effect of Cations and Catalyst Structure in Tuning Alkaline Hydrogen Evolution on Pt Electrodes. Journal of the American Chemical Society, 2024, 146, 7305-7312.	11.7	99

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19	Cation Effects on Hydrogen Oxidation Reaction on Pt Single-Crystal Electrodes in Alkaline Media. Journal of Physical Chemistry Letters, 2024, 15, 2911-2915.	2.9	24
20	Nickel as Electrocatalyst for CO(2) Reduction: Effect of Temperature, Potential, Partial Pressure, and Electrolyte Composition. ACS Catalysis, 2024, 14, 4432-4440.	9.8	78
21	Electrolyte design for the manipulation of gas bubble detachment during hydrogen evolution reaction. Electrochimica Acta, 2024, 485, 144084.	4.1	60
22	Performance Enhancement of Electrocatalytic Hydrogen Evolution through Coalescence-Induced Bubble Dynamics. Journal of the American Chemical Society, 2024, 146, 10177-10186.	11.7	175
23	Tafel Slope Plot as a Tool to Analyze Electrocatalytic Reactions. ACS Energy Letters, 2024, 9, 1871-1879.	12.4	727
24	Deconvolution of the Voltammetric Features of a Pt(100) Single-Crystal Electrode. Journal of Physical Chemistry Letters, 2024, 15, 4958-4964.	2.9	14
25	Effect of a Physisorbed Tetrabutylammonium Cation Film on Alkaline Hydrogen Evolution Reaction on Pt Single-Crystal Electrodes. ACS Catalysis, 2024, 14, 8130-8137.	9.8	23
26	Measurement of the double-layer capacitance of Pt(111) in acidic conditions near the potential of zero charge. Electrochimica Acta, 2024, 494, 144456.	4.1	38
27	Luminescence Thermometry Probes Local Heat Effects at the Platinum Electrode Surface during Alkaline Water Electrolysis. ACS Energy Letters, 2024, 9, 3335-3341.	12.4	18
28	The temperature dependence of electrochemical CO2 reduction on Ag and CuAg alloys. Journal of Catalysis, 2024, 436, 115613.	4.4	19
29	Design of a Rotating Disk Electrode setup operating under high pressure and temperature: Application to CO2 reduction on gold. Electrochimica Acta, 2024, 498, 144612.	4.1	13
30	Tracking the surface structure and the influence of cations and anions on the double-layer region of a Au(111) electrode. Physical Chemistry Chemical Physics, 2024, 26, 21419-21428.	2.0	29
31	The role of cations in hydrogen evolution reaction on a platinum electrode in mildly acidic media. Electrochemistry Communications, 2024, 166, 107784.	2.9	14
32	Unraveling the Origin of the Repulsive Interaction between Hydrogen Adsorbates on Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2024, 128, 15019-15028.	2.3	13
33	Quantitative study of electrochemical adsorption and oxidation on Pt(111) and its vicinal surfaces. Electrochimica Acta, 2024, 506, 145014.	4.1	9
34	The effect of weak proton donors on the steady-state behavior of hydrogen evolution in mildly acidic media. Electrochimica Acta, 2024, 507, 145068.	4.1	8
35	Step bunching instability and its effects in electrocatalysis on platinum surfaces. Nature Catalysis, 2024, 7, 1165-1172.	32.0	28
36	In Situ STM Study of Roughening of Au(111) Single-Crystal Electrode in Sulfuric Acid Solution during Oxidation–Reduction Cycles. Journal of Physical Chemistry C, 2024, 128, 19024-19034.	2.3	17

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37	Electrochemical and Non-Electrochemical Pathways in the Electrocatalytic Oxidation of Monosaccharides and Related Sugar Alcohols into Valuable Products. Chemical Reviews, 2024, 124, 11915-11961.	42.5	59
38	Electrolyte Effects on Electrochemical CO2 Reduction Reaction at Sn Metallic Electrode. Journal of Physical Chemistry C, 2024, 128, 21421-21429.	2.3	14
39	Ethanol formation from CO2 hydrogenation at atmospheric pressure using Cu catalysts: Water as a key component. Applied Catalysis B: Environmental, 2023, 324, 122221.	14.8	42
40	Non-Kinetic Effects Convolute Activity and Tafel Analysis for the Alkaline Oxygen Evolution Reaction on NiFeOOH Electrocatalysts. Angewandte Chemie, 2023, 135, .	0.9	23
41	Non-Kinetic Effects Convolute Activity and Tafel Analysis for the Alkaline Oxygen Evolution Reaction on NiFeOOH Electrocatalysts. Angewandte Chemie - International Edition, 2023, 62, .	11.6	209
42	Computational description of surface hydride phases on Pt(111) electrodes. Journal of Chemical Physics, 2023, 158, .	2.2	18
43	Using micro-solvation and generalized coordination numbers to estimate the solvation energies of adsorbed hydroxyl on metal nanoparticles. Physical Chemistry Chemical Physics, 2023, 25, 3211-3219.	2.0	7
44	Reversible and Irreversible Cation Intercalation in NiFeOxOxygen Evolution Catalysts in Alkaline Media. Journal of Physical Chemistry Letters, 2023, 14, 545-551.	2.9	29
45	Energetics and Kinetics of Hydrogen Electrosorption on a Graphene-Covered Pt(111) Electrode. Jacs Au, 2023, 3, 526-535.	4.5	17
46	Interfacial pH measurements during CO2reduction on gold using a rotating ring-disk electrode. Physical Chemistry Chemical Physics, 2023, 25, 2897-2906.	2.0	44
47	Electric double layer of Pt(111): Known unknowns and unknown knowns. Current Opinion in Electrochemistry, 2023, 39, 101258.	2.6	40
48	Competition of CO and Acetaldehyde Adsorption and Reduction on Copper Electrodes and Its Impact on n-Propanol Formation. ACS Catalysis, 2023, 13, 4339-4347.	9.8	35
49	A Versatile and Easy Method to Calibrate a Two-Compartment Flow Cell for Differential Electrochemical Mass Spectrometry Measurements. ACS Measurement Science Au, 2023, 3, 277-286.	9.9	9
50	In Situ EC-AFM Study of the Initial Stages of Cathodic Corrosion of Pt(111) and Polycrystalline Pt in Acid Solution. Journal of Physical Chemistry Letters, 2023, 14, 4997-5003.	2.9	15
51	How Temperature Affects the Selectivity of the Electrochemical CO2 Reduction on Copper. ACS Catalysis, 2023, 13, 8080-8091.	9.8	168
52	Mechanistic Insights into the Formation of Hydroxyacetone, Acetone, and 1,2-Propanediol from Electrochemical CO2 Reduction on Copper. Journal of the American Chemical Society, 2023, 145, 15343-15352.	11.7	45
53	Solvent Effect on Electrochemical CO2 Reduction Reaction on Nanostructured Copper Electrodes. Journal of Physical Chemistry C, 2023, 127, 14518-14527.	2.3	34
54	Theory and kinetic modeling of electrochemical cation-coupled electron transfer reactions. Journal of Solid State Electrochemistry, 2023, 28, 1601-1606.	1.8	33

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55	Influence of Cations on HCOOH and CO Formation during CO2 Reduction on a PdMLPt(111) Electrode. Journal of the American Chemical Society, 2023, 145, 19601-19610.	11.7	60
56	Solutal Marangoni effect determines bubble dynamics during electrocatalytic hydrogen evolution. Nature Chemistry, 2023, 15, 1532-1540.	15.5	293
57	Subsurface Hydride Formation Leads to Slow Surface Adsorption Processes on a Pd(111) Single-Crystal Electrode in Acidic Electrolytes. Jacs Au, 2023, 3, 2780-2789.	4.5	22
58	Effect of trace impurities in perchloric acid on blank voltammetry of Pt(111). Electrochimica Acta, 2023, 466, 143035.	4.1	20
59	(Keynote) Kinetic and Non-Kinetic Limitations during Oxygen Evolution Reaction on Nickel-Iron Oxyhydroxide Electrodes. ECS Meeting Abstracts, 2023, MA2023-02, 2792-2792.	0.0	0
60	Interfacial pH Measurements Using a Rotating Ring-Disc Electrode with a Voltammetric pH Sensor. ChemElectroChem, 2022, 9, .	3.2	35
61	Electrolyte buffering species as oxygen donor shuttles in CO electrooxidation. Physical Chemistry Chemical Physics, 2022, 24, 2022-2031.	2.0	5
62	Electrochemical CO2 Reduction on Gas Diffusion Electrodes: Enhanced Selectivity of In–Bi Bimetallic Particles and Catalyst Layer Optimization through a Design of Experiment Approach. ACS Applied Energy Materials, 2022, 5, 1720-1730.	3.9	21
63	Understanding hydrogen evolution reaction in bicarbonate buffer. Journal of Catalysis, 2022, 405, 346-354.	4.4	61
64	How palladium inhibits CO poisoning during electrocatalytic formic acid oxidation and carbon dioxide reduction. Nature Communications, 2022, 13, .	10.8	151
65	Double-layer structure of the Pt(111)–aqueous electrolyte interface. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	5.2	117
66	Electrochemical oxidation of Pt(111) beyond the place-exchange model. Electrochimica Acta, 2022, 407, 139881.	4.1	46
67	The Role of Cation Acidity on the Competition between Hydrogen Evolution and CO2 Reduction on Gold Electrodes. Journal of the American Chemical Society, 2022, 144, 1589-1602.	11.7	397
68	Effect of pore diameter and length on electrochemical CO2 reduction reaction at nanoporous gold catalysts. Chemical Science, 2022, 13, 3288-3298.	5.3	60
69	Selective electrocatalytic hydrogenation of α,β-unsaturated ketone on (111)-oriented Pd and Pt electrodes. Electrochimica Acta, 2022, 417, 140264.	4.1	8
70	Predoped Oxygenated Defects Activate Nitrogen-Doped Graphene for the Oxygen Reduction Reaction. ACS Catalysis, 2022, 12, 173-182.	9.8	75
71	The 2022 solar fuels roadmap. Journal Physics D: Applied Physics, 2022, 55, 323003.	2.2	150
72	The Effect of Temperature on the Cation-Promoted Electrochemical CO2 Reduction on Gold. ChemElectroChem, 2022, 9, .	3.2	71

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73	Production of Gas Diffusion Layers with Tunable Characteristics. ACS Omega, 2022, 7, 23041-23049.	3.4	8
74	Electrolyte Effects on CO2 Electrochemical Reduction to CO. Accounts of Chemical Research, 2022, 55, 1900-1911.	11.6	474
75	Platinum Catalyst Degradation: Unusual Nucleation and Growth of Nanoislands. ECS Meeting Abstracts, 2022, MA2022-01, 1163-1163.	0.0	0
76	A kinetic descriptor for the electrolyte effect on the oxygen reduction kinetics on Pt(111). Nature Catalysis, 2022, 5, 615-623.	32.0	227
77	Enhanced Electrochemical CO2 Reduction to Formate on Poly(4-vinylpyridine)-Modified Copper and Gold Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 45263-45271.	5.5	47
78	Water electrolysis. Nature Reviews Methods Primers, 2022, 2, .	34.6	477
79	Nucleation and Growth of Dendritic Islands during Platinum Oxidation-Reduction Cycling. Journal of the Electrochemical Society, 2022, 169, 112506.	2.2	13
80	Probing the Effects of Electrode Composition and Morphology on the Effectiveness of Silicon Oxide Overlayers to Enhance Selective Oxygen Evolution in the Presence of Chloride Ions. Journal of Physical Chemistry C, 2022, 126, 20314-20325.	2.3	15
81	Measuring local pH in electrochemistry. Current Opinion in Electrochemistry, 2021, 25, 100649.	2.6	126
82	Electrocatalytic CO2 reduction to C2+ products on Cu and CuxZny electrodes: Effects of chemical composition and surface morphology. Journal of Electroanalytical Chemistry, 2021, 880, 114750.	3.3	88
83	The effect of naphthalene-based additives on tin electrodeposition on a gold electrode. Electrochimica Acta, 2021, 368, 137606.	4.1	12
84	Cathodic corrosion: 21st century insights into a 19th century phenomenon. Current Opinion in Electrochemistry, 2021, 26, 100653.	2.6	67
85	Suppression of Hydrogen Evolution in Acidic Electrolytes by Electrochemical CO2 Reduction. Journal of the American Chemical Society, 2021, 143, 279-285.	11.7	345
86	Direct and Broadband Plasmonic Charge Transfer to Enhance Water Oxidation on a Gold Electrode. ACS Nano, 2021, 15, 3188-3200.	11.5	45
87	Ultrathin Silicon Oxide Overlayers Enable Selective Oxygen Evolution from Acidic and Unbuffered pH-Neutral Seawater. ACS Catalysis, 2021, 11, 1316-1330.	9.8	147
88	Electrocatalytic Nitrate Reduction for Sustainable Ammonia Production. Joule, 2021, 5, 290-294.	22.6	1,344
89	Emergence of Potential Controlled Cu Nanocuboids and Graphene Covered Cu Nanocuboids under Operando CO 2 Electroreduction. Nano Letters, 2021, 21, 2059-2065.	6.2	90
90	Dissociative Adsorption of Acetone on Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2021, 125, 6643-6649.	2.3	26

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91	Electrolyte Effects on the Faradaic Efficiency of CO2 Reduction to CO on a Gold Electrode. ACS Catalysis, 2021, 11, 4936-4945.	9.8	216
92	A simple method to calculate solution-phase free energies of charged species in computational electrocatalysis. Journal of Physics Condensed Matter, 2021, 33, 204001.	1.6	15
93	The Importance of Acid–Base Equilibria in Bicarbonate Electrolytes for CO2 Electrochemical Reduction and CO Reoxidation Studied on Au(hkl) Electrodes. Langmuir, 2021, 37, 5707-5716.	3.0	86
94	The Interrelated Effect of Cations and Electrolyte pH on the Hydrogen Evolution Reaction on Gold Electrodes in Alkaline Media. Angewandte Chemie, 2021, 133, 13564-13574.	0.9	20
95	Cation Co-Adsorption and Island Formation in the Electrochemical Environment. ECS Meeting Abstracts, 2021, MA2021-01, 1880-1880.	0.0	0
96	The Interrelated Effect of Cations and Electrolyte pH on the Hydrogen Evolution Reaction on Gold Electrodes in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, 13452-13462.	11.6	364
97	The Effect of Naphthalene-Based Additives on the Kinetics of Tin Electrodeposition on Boron-Doped Diamond Electrodes. ChemElectroChem, 2021, 8, 2034-2043.	3.2	4
98	Water at charged interfaces. Nature Reviews Chemistry, 2021, 5, 466-485.	29.4	527
99	Modeling the Gouy–Chapman Diffuse Capacitance with Attractive Ion–Surface Interaction. Journal of Physical Chemistry C, 2021, 125, 16664-16673.	2.3	77
100	Absence of CO2 electroreduction on copper, gold and silver electrodes without metal cations in solution. Nature Catalysis, 2021, 4, 654-662.	32.0	973
101	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. ACS Catalysis, 2021, 11, 9904-9915.	9.8	36
102	Efficiency and selectivity of CO2 reduction to CO on gold gas diffusion electrodes in acidic media. Nature Communications, 2021, 12, .	10.8	372
103	Electrocatalysis under Cover: Enhanced Hydrogen Evolution via Defective Graphene-Covered Pt(111). ACS Catalysis, 2021, 11, 10892-10901.	9.8	51
104	High-Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie - International Edition, 2021, 60, 21732-21736.	11.6	65
105	High-Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie, 2021, 133, 21900-21904.	0.9	0
106	Structure sensitivity of electrochemical adsorption and reduction of acetol on noble metal electrodes. Electrochimica Acta, 2021, 391, 138911.	4.1	7
107	Effects of Adsorbed OH on Pt(100)/Water Interfacial Structures and Potential. Journal of Physical Chemistry C, 2021, 125, 21571-21579.	2.3	25
108	Clean and Reproducible Voltammetry of Copper Single Crystals with Prominent Facet-Specific Features Using Induction Annealing. Journal of the Electrochemical Society, 2021, 168, 096510.	2.2	27

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109	Ni-modified Fe3O4(001) surface as a simple model system for understanding the oxygen evolution reaction. Electrochimica Acta, 2021, 389, 138638.	4.1	30
110	Reprint of “Electrocatalytic CO2 reduction to C2+ products on Cu and CuxZny electrodes: Effects of chemical composition and surface morphology”. Journal of Electroanalytical Chemistry, 2021, 896, 115609.	3.3	17
111	Modulation of the selectivity of CO2 to CO electroreduction in palladium rich Palladium-Indium nanoparticles. Journal of Catalysis, 2021, 402, 229-237.	4.4	21
112	Time-Resolved Local pH Measurements during CO2 Reduction Using Scanning Electrochemical Microscopy: Buffering and Tip Effects. Jacs Au, 2021, 1, 1915-1924.	4.5	122
113	Morphological Stability of Copper Surfaces under Reducing Conditions. ACS Applied Materials & Interfaces, 2021, 13, 48730-48744.	5.5	76
114	Understanding the role of mass transport in tuning the hydrogen evolution kinetics on gold in alkaline media. Journal of Chemical Physics, 2021, 155, .	2.2	43
115	Understanding Cation Trends for Hydrogen Evolution on Platinum and Gold Electrodes in Alkaline Media. ACS Catalysis, 2021, 11, 14328-14335.	9.8	285
116	Probing the local activity of CO2 reduction on gold gas diffusion electrodes: effect of the catalyst loading and CO2 pressure. Chemical Science, 2021, 12, 15682-15690.	5.3	42
117	Double Layer at the Pt(111)–Aqueous Electrolyte Interface: Potential of Zero Charge and Anomalous Gouy–Chapman Screening. Angewandte Chemie, 2020, 132, 721-725.	0.9	38
118	Double Layer at the Pt(111)–Aqueous Electrolyte Interface: Potential of Zero Charge and Anomalous Gouy–Chapman Screening. Angewandte Chemie - International Edition, 2020, 59, 711-715.	11.6	152
119	A DEMS approach for the direct detection of CO formed during electrochemical CO2 reduction. Journal of Electroanalytical Chemistry, 2020, 875, 113842.	3.3	37
120	Thermodynamics of the formation of surface PtO2 stripes on Pt(111) in the absence of subsurface oxygen. Physical Chemistry Chemical Physics, 2020, 22, 10634-10640.	2.0	21
121	Adsorption processes on a Pd monolayer-modified Pt(111) electrode. Chemical Science, 2020, 11, 1703-1713.	5.3	51
122	Mediator-Free SECM for Probing the Diffusion Layer pH with Functionalized Gold Ultramicroelectrodes. Analytical Chemistry, 2020, 92, 2237-2243.	5.2	66
123	In Situ AFM Imaging of Platinum Electrode Surface during Oxidation–Reduction Cycles in Alkaline Electrolyte. ACS Applied Energy Materials, 2020, 3, 597-602.	3.9	28
124	The role of adsorbed hydroxide in hydrogen evolution reaction kinetics on modified platinum. Nature Energy, 2020, 5, 891-899.	45.1	797
125	Cathodic Disintegration as an Easily Scalable Method for the Production of Sn- and Pb-Based Catalysts for CO2 Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 15603-15610.	5.3	22
126	Structure Sensitivity of Acetophenone Reduction on Palladium-Modified Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2020, 124, 25884-25891.	2.3	12

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127	Electrochemical Reduction of the Simplest Monosaccharides: Dihydroxyacetone and Glyceraldehyde. ACS Catalysis, 2020, 10, 13895-13903.	9.8	27
128	Anisotropic Cathodic Corrosion of Gold Electrodes in the Absence and Presence of Carbon Monoxide. Journal of Physical Chemistry C, 2020, 124, 28539-28554.	2.3	17
129	Tailoring the Electrocatalytic Activity and Selectivity of Pt(111) through Cathodic Corrosion. ACS Catalysis, 2020, 10, 15104-15113.	9.8	40
130	Nanoscale morphological evolution of monocrystalline Pt surfaces during cathodic corrosion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32267-32277.	5.2	33
131	Understanding the Voltammetry of Bulk CO Electrooxidation in Neutral Media through Combined SECM Measurements. Journal of Physical Chemistry Letters, 2020, 11, 9708-9713.	2.9	50
132	Competition and selectivity during parallel evolution of bromine, chlorine and oxygen on IrOx electrodes. Journal of Catalysis, 2020, 389, 99-110.	4.4	56
133	A Semiempirical Method to Detect and Correct DFT-Based Gas-Phase Errors and Its Application in Electrocatalysis. ACS Catalysis, 2020, 10, 6900-6907.	9.8	131
134	Electrooxidation of C4 Polyols on Platinum Single-Crystals: A Computational and Electrochemical Study. Journal of Physical Chemistry C, 2020, 124, 14745-14751.	2.3	12
135	CO2 electroreduction on bimetallic Pd–In nanoparticles. Catalysis Science and Technology, 2020, 10, 4264-4270.	2.9	22
136	Competition between CO2 Reduction and Hydrogen Evolution on a Gold Electrode under Well-Defined Mass Transport Conditions. Journal of the American Chemical Society, 2020, 142, 4154-4161.	11.7	617
137	Electric-Double-Layer-Modulation Microscopy. Physical Review Applied, 2020, 13, .	2.8	27
138	Competition and Interhalogen Formation During Parallel Electrocatalytic Oxidation of Bromide and Chloride on Pt. Journal of the Electrochemical Society, 2020, 167, 046505.	2.2	18
139	Examination and prevention of ring collection failure during gas-evolving reactions on a rotating ring-disk electrode. Journal of Electroanalytical Chemistry, 2019, 850, 113363.	3.3	35
140	Elucidation of temperature-programmed desorption of high-coverage hydrogen on Pt(211), Pt(221), Pt(533) and Pt(553) based on density functional theory calculations. Physical Chemistry Chemical Physics, 2019, 21, 17142-17151.	2.0	17
141	Influence of Van der Waals Interactions on the Solvation Energies of Adsorbates at Pt-Based Electrocatalysts. ChemPhysChem, 2019, 20, 2968-2972.	1.5	19
142	Selectivity Trends Between Oxygen Evolution and Chlorine Evolution on Iridium-Based Double Perovskites in Acidic Media. ACS Catalysis, 2019, 9, 8561-8574.	9.8	245
143	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie, 2019, 131, 13133-13137.	0.9	32
144	Electrochemical Reduction of the Carbonyl Functional Group: The Importance of Adsorption Geometry, Molecular Structure, and Electrode Surface Structure. Journal of the American Chemical Society, 2019, 141, 12071-12078.	11.7	117

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145	Hydrogen-Induced Step-Edge Roughening of Platinum Electrode Surfaces. Journal of Physical Chemistry Letters, 2019, 10, 6842-6849.	2.9	45
146	Atomic-Scale Identification of the Electrochemical Roughening of Platinum. ACS Central Science, 2019, 5, 1920-1928.	7.4	50
147	Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels. Nature Energy, 2019, 4, 732-745.	45.1	2,694
148	Alumina contamination through polishing and its effect on hydrogen evolution on gold electrodes. Electrochimica Acta, 2019, 325, 134915.	4.1	42
149	Special Topic on Interfacial Electrochemistry and Photo(electro)catalysis. Journal of Chemical Physics, 2019, 150, .	2.2	5
150	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie - International Edition, 2019, 58, 12999-13003.	11.6	343
151	Electrochemical Conversion of CO2into Organic Carbonates—Products and Intermediates. ACS Sustainable Chemistry and Engineering, 2019, 7, 10716-10723.	5.3	22
152	Voltammetric Study of Tin Electrodeposition on Polycrystalline Gold from Sulfuric and Methanesulfonic Acid. Journal of the Electrochemical Society, 2019, 166, D283-D289.	2.2	17
153	Mechanistic Study of the Electrosynthesis of Propylene Carbonate from Propylene Oxide and CO2 on Copper Electrodes. ChemElectroChem, 2019, 6, 2917-2923.	3.2	12
154	Structural principles to steer the selectivity of the electrocatalytic reduction of aliphatic ketones on platinum. Nature Catalysis, 2019, 2, 243-250.	32.0	139
155	Outlining the Scaling-Based and Scaling-Free Optimization of Electrocatalysts. ACS Catalysis, 2019, 9, 4218-4225.	9.8	104
156	The dualism between adatom- and vacancy-based single crystal growth models. Nature Communications, 2019, 10, .	10.8	26
157	Acetonitrile Adsorption on Pt Single-Crystal Electrodes and Its Effect on Oxygen Reduction Reaction in Acidic and Alkaline Aqueous Solutions. Journal of Physical Chemistry C, 2019, 123, 2300-2313.	2.3	23
158	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	4.1	17
159	Effect of the Interfacial Water Structure on the Hydrogen Evolution Reaction on Pt(111) Modified with Different Nickel Hydroxide Coverages in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 613-623.	5.5	137
160	Cathodic Corrosion of a Bulk Wire to Nonaggregated Functional Nanocrystals and Nanoalloys. ACS Applied Materials & Interfaces, 2018, 10, 9532-9540.	5.5	39
161	Spectroscopic Investigation of the Electrosynthesis of Diphenyl Carbonate from CO and Phenol on Gold Electrodes. ACS Catalysis, 2018, 8, 3087-3090.	9.8	13
162	Quantum and electrochemical interplays in hydrogenated graphene. Nature Communications, 2018, 9, .	10.8	49

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163	Computational Comparison of Late Transition Metal (100) Surfaces for the Electrocatalytic Reduction of CO to C2 Species. ACS Energy Letters, 2018, 3, 1062-1067.	12.4	138
164	Effects of Substrate and Polymer Encapsulation on CO2 Electroreduction by Immobilized Indium(III) Protoporphyrin. ACS Catalysis, 2018, 8, 4420-4428.	9.8	70
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