Marc T M Koper

List of Publications by Year
in descending order

436	49,609	872 117	2033 205
papers	citations	h-index	g-index

462	462	462	24945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interfacial pH Measurements Using a Rotating Ringâ€Disc Electrode with a Voltammetric pH Sensor. ChemElectroChem, 2022, 9, .	3.4	15
2	Electrolyte buffering species as oxygen donor shuttles in CO electrooxidation. Physical Chemistry Chemical Physics, 2022, 24, 2022-2031.	2.8	2
3	Electrochemical CO₂ Reduction on Gas Diffusion Electrodes: Enhanced Selectivity of Inâ€“Bi Bimetallic Particles and Catalyst Layer Optimization through a Design of Experiment Approach. ACS Applied Energy Materials, 2022, 5, 1720-1730.	5.1	12
4	Understanding hydrogen evolution reaction in bicarbonate buffer. Journal of Catalysis, 2022, 405, 346-354.	6.2	17
5	How palladium inhibits CO poisoning during electrocatalytic formic acid oxidation and carbon dioxide reduction. Nature Communications, 2022, 13, 38.	12.8	44
6	Double-layer structure of the Pt(111)â€“aqueous electrolyte interface. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	51
7	Electrochemical oxidation of Pt(111) beyond the place-exchange model. Electrochimica Acta, 2022, 407, 139881.	5.2	24
8	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.	13.7	127
9	Effect of pore diameter and length on electrochemical CO₂ reduction reaction at nanoporous gold catalysts. Chemical Science, 2022, 13, 3288-3298.	7.4	24
10	From Pollutant to Chemical Feedstock: Valorizing Carbon Dioxide through Photo- and Electrochemical Processes. Accounts of Chemical Research, 2022, 55, 931-932.	15.6	13
11	Selective electrocatalytic hydrogenation of Î±,Î²-unsaturated ketone on (111)-oriented Pd and Pt electrodes. Electrochimica Acta, 2022, 417, 140264.	5.2	1
12	Predoped Oxygenated Defects Activate Nitrogen-Doped Graphene for the Oxygen Reduction Reaction. ACS Catalysis, 2022, 12, 173-182.	11.2	17
13	The 2022 solar fuels roadmap. Journal Physics D: Applied Physics, 2022, 55, 323003.	2.8	58
14	Enhancing the connection between computation and experiments in electrocatalysis. Nature Catalysis, 2022, 5, 374-381.	34.4	45
15	The Effect of Temperature on the Cationâ€Promoted Electrochemical CO₂ Reduction on Gold. ChemElectroChem, 2022, 9, .	3.4	14
16	Introduction: Computational Electrochemistry. Chemical Reviews, 2022, 122, 10579-10580.	47.7	3
17	Production of Gas Diffusion Layers with Tunable Characteristics. ACS Omega, 2022, 7, 23041-23049.	3.5	2
18	Electrolyte Effects on CO₂ Electrochemical Reduction to CO. Accounts of Chemical Research, 2022, 55, 1900-1911.	15.6	112

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19	A kinetic descriptor for the electrolyte effect on the oxygen reduction kinetics on Pt(111). Nature Catalysis, 2022, 5, 615-623.	34.4	62
20	Measuring local pH in electrochemistry. Current Opinion in Electrochemistry, 2021, 25, 100649.	4.8	60
21	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.	3.8	43
22	The effect of naphthalene-based additives on tin electrodeposition on a gold electrode. Electrochimica Acta, 2021, 368, 137606.	5.2	7
23	Cathodic corrosion: 21st century insights into a 19th century phenomenon. Current Opinion in Electrochemistry, 2021, 26, 100653.	4.8	29
24	Suppression of Hydrogen Evolution in Acidic Electrolytes by Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 279-285.	13.7	158
25	Direct and Broadband Plasmonic Charge Transfer to Enhance Water Oxidation on a Gold Electrode. ACS Nano, 2021, 15, 3188-3200.	14.6	23
26	Ultrathin Silicon Oxide Overlayers Enable Selective Oxygen Evolution from Acidic and Unbuffered pH-Neutral Seawater. ACS Catalysis, 2021, 11, 1316-1330.	11.2	54
27	Electrocatalytic Nitrate Reduction for Sustainable Ammonia Production. Joule, 2021, 5, 290-294.	24.0	497
28	Emergence of Potential-Controlled Cu-Nanocuboids and Graphene-Covered Cu-Nanocuboids under Operando CO₂ Electroreduction. Nano Letters, 2021, 21, 2059-2065.	9.1	54
29	Dissociative Adsorption of Acetone on Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2021, 125, 6643-6649.	3.1	14
30	Electrolyte Effects on the Faradaic Efficiency of CO₂ Reduction to CO on a Gold Electrode. ACS Catalysis, 2021, 11, 4936-4945.	11.2	97
31	A simple method to calculate solution-phase free energies of charged species in computational electrocatalysis. Journal of Physics Condensed Matter, 2021, 33, 204001.	1.8	7
32	The Importance of Acidâ€“Base Equilibria in Bicarbonate Electrolytes for CO₂ Electrochemical Reduction and CO Reoxidation Studied on Au(hkl) Electrodes. Langmuir, 2021, 37, 5707-5716.	3.5	37
33	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.	2.0	13
34	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.	13.8	137
35	The Effect of Naphthaleneâ€Based Additives on the Kinetics of Tin Electrodeposition on Boronâ€Doped Diamond Electrodes. ChemElectroChem, 2021, 8, 2034-2043.	3.4	2
36	Water at charged interfaces. Nature Reviews Chemistry, 2021, 5, 466-485.	30.2	186

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37	Modeling the Gouyâ€“Chapman Diffuse Capacitance with Attractive Ionâ€“Surface Interaction. Journal of Physical Chemistry C, 2021, 125, 16664-16673.	3.1	25
38	Absence of CO2 electroreduction on copper, gold and silver electrodes without metal cations in solution. Nature Catalysis, 2021, 4, 654-662.	34.4	386
39	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. ACS Catalysis, 2021, 11, 9904-9915.	11.2	14
40	Efficiency and selectivity of CO2 reduction to CO on gold gas diffusion electrodes in acidic media. Nature Communications, 2021, 12, 4943.	12.8	170
41	Electrocatalysis under Cover: Enhanced Hydrogen Evolution via Defective Graphene-Covered Pt(111). ACS Catalysis, 2021, 11, 10892-10901.	11.2	20
42	Highâ€Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie - International Edition, 2021, 60, 21732-21736.	13.8	29
43	Highâ€Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie, 2021, 133, 21900-21904.	2.0	0
44	Structure sensitivity of electrochemical adsorption and reduction of acetol on noble metal electrodes. Electrochimica Acta, 2021, 391, 138911.	5.2	5
45	Effects of Adsorbed OH on Pt(100)/Water Interfacial Structures and Potential. Journal of Physical Chemistry C, 2021, 125, 21571-21579.	3.1	10
46	Clean and Reproducible Voltammetry of Copper Single Crystals with Prominent Facet-Specific Features Using Induction Annealing. Journal of the Electrochemical Society, 2021, 168, 096510.	2.9	10
47	Reprint of â€œElectrocatalytic CO2 reduction to C2+ products on Cu and CuxZny electrodes: Effects of chemical composition and surface morphologyâ€• Journal of Electroanalytical Chemistry, 2021, 896, 115609.	3.8	8
48	Modulation of the selectivity of CO2 to CO electroreduction in palladium rich Palladium-Indium nanoparticles. Journal of Catalysis, 2021, 402, 229-237.	6.2	13
49	Time-Resolved Local pH Measurements during CO₂ Reduction Using Scanning Electrochemical Microscopy: Buffering and Tip Effects. Jacs Au, 2021, 1, 1915-1924.	7.9	42
50	Morphological Stability of Copper Surfaces under Reducing Conditions. ACS Applied Materials & Interfaces, 2021, 13, 48730-48744.	8.0	27
51	Understanding the role of mass transport in tuning the hydrogen evolution kinetics on gold in alkaline media. Journal of Chemical Physics, 2021, 155, 134705.	3.0	22
52	Understanding Cation Trends for Hydrogen Evolution on Platinum and Gold Electrodes in Alkaline Media. ACS Catalysis, 2021, 11, 14328-14335.	11.2	87
53	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.	7.4	19
54	Double Layer at the Pt(111)â€“Aqueous Electrolyte Interface: Potential of Zero Charge and Anomalous Gouyâ€“Chapman Screening. Angewandte Chemie, 2020, 132, 721-725.	2.0	14

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55	Double Layer at the Pt(111)â€“Aqueous Electrolyte Interface: Potential of Zero Charge and Anomalous Gouyâ€“Chapman Screening. Angewandte Chemie - International Edition, 2020, 59, 711-715.	13.8	80
56	A DEMS approach for the direct detection of CO formed during electrochemical CO2 reduction. Journal of Electroanalytical Chemistry, 2020, 875, 113842.	3.8	19
57	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.	2.8	15
58	Adsorption processes on a Pd monolayer-modified Pt(111) electrode. Chemical Science, 2020, 11, 1703-1713.	7.4	26
59	Mediator-Free SECM for Probing the Diffusion Layer pH with Functionalized Gold Ultramicroelectrodes. Analytical Chemistry, 2020, 92, 2237-2243.	6.5	37
60	In Situ AFM Imaging of Platinum Electrode Surface during Oxidationâ€“Reduction Cycles in Alkaline Electrolyte. ACS Applied Energy Materials, 2020, 3, 597-602.	5.1	17
61	The role of adsorbed hydroxide in hydrogen evolution reaction kinetics on modified platinum. Nature Energy, 2020, 5, 891-899.	39.5	400
62	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.	6.7	16
63	Structure Sensitivity of Acetophenone Reduction on Palladium-Modified Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2020, 124, 25884-25891.	3.1	5
64	Electrochemical Reduction of the Simplest Monosaccharides: Dihydroxyacetone and Glyceraldehyde. ACS Catalysis, 2020, 10, 13895-13903.	11.2	16
65	Optimizing the Electrochemical Reduction of CO₂ to Formate: A State-of-the-Art Analysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 15430-15444.	6.7	60
66	Anisotropic Cathodic Corrosion of Gold Electrodes in the Absence and Presence of Carbon Monoxide. Journal of Physical Chemistry C, 2020, 124, 28539-28554.	3.1	9
67	Tailoring the Electrocatalytic Activity and Selectivity of Pt(111) through Cathodic Corrosion. ACS Catalysis, 2020, 10, 15104-15113.	11.2	26
68	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.	7.1	19
69	Understanding the Voltammetry of Bulk CO Electrooxidation in Neutral Media through Combined SECM Measurements. Journal of Physical Chemistry Letters, 2020, 11, 9708-9713.	4.6	30
70	Competition and selectivity during parallel evolution of bromine, chlorine and oxygen on IrOx electrodes. Journal of Catalysis, 2020, 389, 99-110.	6.2	21
71	A Semiempirical Method to Detect and Correct DFT-Based Gas-Phase Errors and Its Application in Electrocatalysis. ACS Catalysis, 2020, 10, 6900-6907.	11.2	71
72	Electrooxidation of C₄ Polyols on Platinum Single-Crystals: A Computational and Electrochemical Study. Journal of Physical Chemistry C, 2020, 124, 14745-14751.	3.1	7

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73	CO₂ electroreduction on bimetallic Pdâ€“In nanoparticles. Catalysis Science and Technology, 2020, 10, 4264-4270.	4.1	18
74	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.	13.7	315
75	Electric-Double-Layer-Modulation Microscopy. Physical Review Applied, 2020, 13, .	3.8	18
76	Competition and Interhalogen Formation During Parallel Electrocatalytic Oxidation of Bromide and Chloride on Pt. Journal of the Electrochemical Society, 2020, 167, 046505.	2.9	10
77	Examination and prevention of ring collection failure during gas-evolving reactions on a rotating ring-disk electrode. Journal of Electroanalytical Chemistry, 2019, 850, 113363.	3.8	21
78	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.	2.8	10
79	Influence of Van der Waals Interactions on the Solvation Energies of Adsorbates at Ptâ€Based Electrocatalysts. ChemPhysChem, 2019, 20, 2968-2972.	2.1	16
80	Selectivity Trends Between Oxygen Evolution and Chlorine Evolution on Iridium-Based Double Perovskites in Acidic Media. ACS Catalysis, 2019, 9, 8561-8574.	11.2	117
81	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie, 2019, 131, 13133-13137.	2.0	25
82	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.	13.7	72
83	Hydrogen-Induced Step-Edge Roughening of Platinum Electrode Surfaces. Journal of Physical Chemistry Letters, 2019, 10, 6842-6849.	4.6	25
84	Atomic-Scale Identification of the Electrochemical Roughening of Platinum. ACS Central Science, 2019, 5, 1920-1928.	11.3	36
85	Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels. Nature Energy, 2019, 4, 732-745.	39.5	1,506
86	Alumina contamination through polishing and its effect on hydrogen evolution on gold electrodes. Electrochimica Acta, 2019, 325, 134915.	5.2	26
87	Special Topic on Interfacial Electrochemistry and Photo(electro)catalysis. Journal of Chemical Physics, 2019, 150, 041401.	3.0	4
88	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie - International Edition, 2019, 58, 12999-13003.	13.8	182
89	Electrochemical Conversion of CO₂into Organic Carbonatesâ€”Products and Intermediates. ACS Sustainable Chemistry and Engineering, 2019, 7, 10716-10723.	6.7	17
90	Voltammetric Study of Tin Electrodeposition on Polycrystalline Gold from Sulfuric and Methanesulfonic Acid. Journal of the Electrochemical Society, 2019, 166, D283-D289.	2.9	11

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91	Mechanistic Study of the Electrosynthesis of Propylene Carbonate from Propylene Oxide and CO₂ on Copper Electrodes. ChemElectroChem, 2019, 6, 2917-2923.	3.4	5
92	Structural principles to steer the selectivity of the electrocatalytic reduction of aliphatic ketones on platinum. Nature Catalysis, 2019, 2, 243-250.	34.4	95
93	Outlining the Scaling-Based and Scaling-Free Optimization of Electrocatalysts. ACS Catalysis, 2019, 9, 4218-4225.	11.2	76
94	The dualism between adatom- and vacancy-based single crystal growth models. Nature Communications, 2019, 10, 5233.	12.8	15
95	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.	3.1	19
96	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	5.2	14
97	A mechanistic investigation on the electrocatalytic reduction of aliphatic ketones at platinum. Journal of Catalysis, 2019, 369, 302-311.	6.2	38
98	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.	8.0	94
99	Cathodic Corrosion of a Bulk Wire to Nonaggregated Functional Nanocrystals and Nanoalloys. ACS Applied Materials & Interfaces, 2018, 10, 9532-9540.	8.0	29
100	Spectroscopic Investigation of the Electrosynthesis of Diphenyl Carbonate from CO and Phenol on Gold Electrodes. ACS Catalysis, 2018, 8, 3087-3090.	11.2	12
101	Quantum and electrochemical interplays in hydrogenated graphene. Nature Communications, 2018, 9, 793.	12.8	43
102	Cyclic voltammetry study of trivalent basic chromium sulphate electrolytes contaminated with sulphite. Electrochimica Acta, 2018, 269, 700-705.	5.2	0
103	Computational Comparison of Late Transition Metal (100) Surfaces for the Electrocatalytic Reduction of CO to C₂ Species. ACS Energy Letters, 2018, 3, 1062-1067.	17.4	103
104	Effects of Substrate and Polymer Encapsulation on CO₂ Electroreduction by Immobilized Indium(III) Protoporphyrin. ACS Catalysis, 2018, 8, 4420-4428.	11.2	52
105	On the mechanism of the electrochemical conversion of ammonia to dinitrogen on Pt(1â€¯0â€¯0) in alkaline environment. Journal of Catalysis, 2018, 359, 82-91.	6.2	62
106	Correlation of surface site formation to nanoisland growth in the electrochemical roughening of Pt(111). Nature Materials, 2018, 17, 277-282.	27.5	112
107	Probing the Fen+/Fe(nâ^'1)+ redox potential of Fe phthalocyanines and Fe porphyrins as a reactivity descriptor in the electrochemical oxidation of cysteamine. Journal of Electroanalytical Chemistry, 2018, 819, 502-510.	3.8	22
108	Hydrogen adsorption on nano-structured platinum electrodes. Faraday Discussions, 2018, 210, 301-315.	3.2	27

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109	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
110	Interconversions of nitrogen-containing species on Pt(100) and Pt(111) electrodes in acidic solutions containing nitrate. Electrochimica Acta, 2018, 271, 77-83.	5.2	36
111	Determinant Role of Electrogenerated Reactive Nucleophilic Species on Selectivity during Reduction of CO₂ Catalyzed by Metalloporphyrins. Journal of the American Chemical Society, 2018, 140, 4826-4834.	13.7	75
112	Measurement of competition between oxygen evolution and chlorine evolution using rotating ring-disk electrode voltammetry. Journal of Electroanalytical Chemistry, 2018, 819, 260-268.	3.8	131
113	On the presence of surface bound hydroxyl species on polycrystalline Pt electrodes in the â€œhydrogen potential regionâ€•(0â€“0.4â€¯V-RHE). Journal of Catalysis, 2018, 367, 332-337.	6.2	42
114	Alkali Metal Cation Effects in Structuring Pt, Rh, and Au Surfaces through Cathodic Corrosion. ACS Applied Materials & Interfaces, 2018, 10, 39363-39379.	8.0	50
115	In Situ Electrochemical AFM Imaging of a Pt Electrode in Sulfuric Acid under Potential Cycling Conditions. Journal of the American Chemical Society, 2018, 140, 13285-13291.	13.7	33
116	Energy conversion at nanointerfaces: general discussion. Faraday Discussions, 2018, 210, 333-351.	3.2	0
117	Absence of diffuse double layer effect on the vibrational properties and oxidation of chemisorbed carbon monoxide on a Pt(111) electrode. Electrochimica Acta, 2018, 281, 127-132.	5.2	31
118	Effect of Step Density and Orientation on the Apparent pH Dependence of Hydrogen and Hydroxide Adsorption on Stepped Platinum Surfaces. Journal of Physical Chemistry C, 2018, 122, 16756-16764.	3.1	50
119	MnO_x/IrO_x as Selective Oxygen Evolution Electrocatalyst in Acidic Chloride Solution. Journal of the American Chemical Society, 2018, 140, 10270-10281.	13.7	245
120	Effect of Saturating the Electrolyte with Oxygen on the Activity for the Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 9359-9363.	11.2	51
121	The stability number as a metric for electrocatalyst stability benchmarking. Nature Catalysis, 2018, 1, 508-515.	34.4	533
122	ELECTROCHEMISTRY FOR THE PRODUCTION OF FUELS, CHEMICALS AND MATERIALS. , 2018, , .		1
123	The Importance of Cannizzaro-Type Reactions during Electrocatalytic Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2017, 139, 2030-2034.	13.7	133
124	Electrocatalytic reduction of Nitrate on Copper single crystals in acidic and alkaline solutions.. Electrochimica Acta, 2017, 227, 77-84.	5.2	258
125	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.6	1,409
126	Glycerol electro-oxidation on bismuth-modified platinum single crystals. Journal of Catalysis, 2017, 346, 117-124.	6.2	102

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127	Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. Angewandte Chemie - International Edition, 2017, 56, 3621-3624.	13.8	366
128	Electrochemical Stripping of Atomic Oxygen on Single-Crystalline Platinum: Bridging Gas-Phase and Electrochemical Oxidation. Journal of Physical Chemistry Letters, 2017, 8, 1152-1156.	4.6	11
129	Competition between Hydrogen Evolution and Carbon Dioxide Reduction on Copper Electrodes in Mildly Acidic Media. Langmuir, 2017, 33, 9307-9313.	3.5	277
130	Electrocatalysis for the Hydrogen Economy. , 2017, , 23-50.		11
131	Importance of Solvation for the Accurate Prediction of Oxygen Reduction Activities of Pt-Based Electrocatalysts. Journal of Physical Chemistry Letters, 2017, 8, 2243-2246.	4.6	85
132	Local structure and composition of PtRh nanoparticles produced through cathodic corrosion. Physical Chemistry Chemical Physics, 2017, 19, 10301-10308.	2.8	11
133	Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. Angewandte Chemie, 2017, 129, 3675-3678.	2.0	112
134	Influence of the metal center of metalloprotoporphyrins on the electrocatalytic CO2 reduction to formic acid. Catalysis Today, 2017, 288, 37-47.	4.4	65
135	Orientation-Dependent Oxygen Evolution on RuO₂ without Lattice Exchange. ACS Energy Letters, 2017, 2, 876-881.	17.4	251
136	Interfacial water reorganization as a pH-dependent descriptor of the hydrogen evolution rate on platinum electrodes. Nature Energy, 2017, 2, .	39.5	791
137	Coâ€adsorption of Cations as the Cause of the Apparent pH Dependence of Hydrogen Adsorption on a Stepped Platinum Singleâ€Crystal Electrode. Angewandte Chemie, 2017, 129, 15221-15225.	2.0	34
138	Electrochemical Capacitance of CO-Terminated Pt(111) Dominated by the COâ€“Solvent Gap. Journal of Physical Chemistry Letters, 2017, 8, 5344-5348.	4.6	30
139	Structure- and Potential-Dependent Cation Effects on CO Reduction at Copper Single-Crystal Electrodes. Journal of the American Chemical Society, 2017, 139, 16412-16419.	13.7	289
140	Rational Design Rules for Molecular Water Oxidation Catalysts based on Scaling Relationships. Chemistry - A European Journal, 2017, 23, 16413-16418.	3.3	57
141	A spongy nickel-organic CO ₂ reduction photocatalyst for nearly 100% selective CO production. Science Advances, 2017, 3, e1700921.	10.3	175
142	Accounting for Bifurcating Pathways in the Screening for CO₂ Reduction Catalysts. ACS Catalysis, 2017, 7, 7346-7351.	11.2	70
143	Spectro-Electrochemical Examination of the Formation of Dimethyl Carbonate from CO and Methanol at Different Electrode Materials. Journal of the American Chemical Society, 2017, 139, 14693-14698.	13.7	37
144	Mass-transport-limited oxidation of formic acid on a Pd ML Pt(100) electrode in perchloric acid. Electrochemistry Communications, 2017, 82, 155-158.	4.7	15

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145	Frontispiece: Rational Design Rules for Molecular Water Oxidation Catalysts based on Scaling Relationships. Chemistry - A European Journal, 2017, 23, .	3.3	0
146	Structure- and Coverage-Sensitive Mechanism of NO Reduction on Platinum Electrodes. ACS Catalysis, 2017, 7, 4660-4667.	11.2	118
147	CO electrooxidation on Sn-modified Pt single crystals in acid media. Journal of Electroanalytical Chemistry, 2017, 800, 32-38.	3.8	25
148	Influence of water on the hydrogen evolution reaction on a gold electrode in acetonitrile solution. Journal of Electroanalytical Chemistry, 2017, 793, 18-24.	3.8	17
149	Proton-coupled electron transfer in the electrocatalysis of CO₂ reduction: prediction of sequential vs. concerted pathways using DFT. Chemical Science, 2017, 8, 458-465.	7.4	159
150	Coâ€adsorption of Cations as the Cause of the Apparent pH Dependence of Hydrogen Adsorption on a Stepped Platinum Singleâ€Crystal Electrode. Angewandte Chemie - International Edition, 2017, 56, 15025-15029.	13.8	221
151	Phosphate-mediated electrochemical adsorption of cisplatin on gold electrodes. Electrochimica Acta, 2017, 248, 409-415.	5.2	2
152	Electrochemistry of single nanoparticles: general discussion. Faraday Discussions, 2016, 193, 387-413.	3.2	13
153	Surface Structure Dependence in Desorption and Crystallization of Thin Interfacial Water Films on Platinum. Journal of Physical Chemistry Letters, 2016, 7, 1682-1685.	4.6	13
154	ReaktivitÃtsdeskriptoren fÃ¼r die AktivitÃt von molekularen MN4â€Katalysatoren zur Sauerstoffreduktion. Angewandte Chemie, 2016, 128, 14726-14738.	2.0	39
155	Reactivity Descriptors for the Activity of Molecular MN4 Catalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2016, 55, 14510-14521.	13.8	463
156	Ethanol Oxidation on Snâ€modified Pt Singleâ€Crystal Electrodes: New Mechanistic Insights from Onâ€line Electrochemical Mass Spectrometry. ChemElectroChem, 2016, 3, 2196-2201.	3.4	21
157	The reactivity of platinum microelectrodes. Physical Chemistry Chemical Physics, 2016, 18, 28451-28457.	2.8	27
158	Step-Type Selective Oxidation of Platinum Surfaces. Journal of Physical Chemistry C, 2016, 120, 22927-22935.	3.1	17
159	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.	5.2	4
160	Electrocatalytic Conversion of Furanic Compounds. ACS Catalysis, 2016, 6, 6704-6717.	11.2	226
161	Anisotropic etching of rhodium and gold as the onset of nanoparticle formation by cathodic corrosion. Faraday Discussions, 2016, 193, 207-222.	3.2	21
162	Double-Stranded Water on Stepped Platinum Surfaces. Physical Review Letters, 2016, 116, 136101.	7.8	45

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163	Anisotropic etching of platinum electrodes at the onset of cathodic corrosion. Nature Communications, 2016, 7, 12653.	12.8	64
164	Iridium-based double perovskites for efficient water oxidation in acid media. Nature Communications, 2016, 7, 12363.	12.8	353
165	Intermediate stages of electrochemical oxidation of single-crystalline platinum revealed by in situ Raman spectroscopy. Nature Communications, 2016, 7, 12440.	12.8	175
166	Strong Impact of Platinum Surface Structure on Primary and Secondary Alcohol Oxidation during Electro-Oxidation of Glycerol. ACS Catalysis, 2016, 6, 4491-4500.	11.2	156
167	The importance of nickel oxyhydroxide deprotonation on its activity towards electrochemical water oxidation. Chemical Science, 2016, 7, 2639-2645.	7.4	494
168	Structure-sensitive electroreduction of acetaldehyde to ethanol on copper and its mechanistic implications for CO and CO 2 reduction. Catalysis Today, 2016, 262, 90-94.	4.4	132
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