Marc T M Koper

List of Publications by Year
in descending order

476 papers	53,398 citations	650 119 h-index	1488 212 g-index
503 all docs	503 docs citations	503 times ranked	26116 citing authors

#	Article	IF	Citations
1	Theory and kinetic modeling of electrochemical cation-coupled electron transfer reactions. Journal of Solid State Electrochemistry, 2024, 28, 1601-1606.	2.5	4
2	Li⁺ Cations Activate NiFeOOH for Oxygen Evolution in Sodium and Potassium Hydroxide. Angewandte Chemie - International Edition, 2024, 63, .	14.2	1
3	Li⁺ Kationen aktivieren NiFeOOH fÃ¼r die Sauerstoffentwicklung in Natriumâ€•und Kaliumhydroxid. Angewandte Chemie, 2024, 136, .	2.1	0
4	Site-specific reactivity of stepped Pt surfaces driven by stress release. Nature, 2024, 626, 1005-1010.	35.3	11
5	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.	14.1	6
6	Cation Effects on Hydrogen Oxidation Reaction on Pt Single-Crystal Electrodes in Alkaline Media. Journal of Physical Chemistry Letters, 2024, 15, 2911-2915.	4.7	3
7	Nickel as Electrocatalyst for CO₍₂₎ Reduction: Effect of Temperature, Potential, Partial Pressure, and Electrolyte Composition. ACS Catalysis, 2024, 14, 4432-4440.	11.3	8
8	Performance Enhancement of Electrocatalytic Hydrogen Evolution through Coalescence-Induced Bubble Dynamics. Journal of the American Chemical Society, 2024, 146, 10177-10186.	14.1	4
9	Effect of a Physisorbed Tetrabutylammonium Cation Film on Alkaline Hydrogen Evolution Reaction on Pt Single-Crystal Electrodes. ACS Catalysis, 2024, 14, 8130-8137.	11.3	1
10	The temperature dependence of electrochemical CO2 reduction on Ag and CuAg alloys. Journal of Catalysis, 2024, 436, 115613.	6.4	0
11	Design of a Rotating Disk Electrode setup operating under high pressure and temperature: Application to CO2 reduction on gold. Electrochimica Acta, 2024, 498, 144612.	5.3	0
12	Quantitative study of electrochemical adsorption and oxidation on Pt(111) and its vicinal surfaces. Electrochimica Acta, 2024, 506, 145014.	5.3	0
13	Nonâ€Kinetic Effects Convolute Activity and Tafel Analysis for the Alkaline Oxygen Evolution Reaction on NiFeOOH Electrocatalysts. Angewandte Chemie, 2023, 135, .	2.1	16
14	Nonâ€Kinetic Effects Convolute Activity and Tafel Analysis for the Alkaline Oxygen Evolution Reaction on NiFeOOH Electrocatalysts. Angewandte Chemie - International Edition, 2023, 62, .	14.2	41
15	Computational description of surface hydride phases on Pt(111) electrodes. Journal of Chemical Physics, 2023, 158, .	2.9	8
16	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.	2.8	5
17	Reversible and Irreversible Cation Intercalation in NiFeO_xOxygen Evolution Catalysts in Alkaline Media. Journal of Physical Chemistry Letters, 2023, 14, 545-551.	4.7	11
18	Energetics and Kinetics of Hydrogen Electrosorption on a Graphene-Covered Pt(111) Electrode. Jacs Au, 2023, 3, 526-535.	8.0	7

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19	Interfacial pH measurements during CO₂reduction on gold using a rotating ring-disk electrode. Physical Chemistry Chemical Physics, 2023, 25, 2897-2906.	2.8	19
20	Competition of CO and Acetaldehyde Adsorption and Reduction on Copper Electrodes and Its Impact on n-Propanol Formation. ACS Catalysis, 2023, 13, 4339-4347.	11.3	13
21	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.	4.5	2
22	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.	4.7	3
23	How Temperature Affects the Selectivity of the Electrochemical CO₂ Reduction on Copper. ACS Catalysis, 2023, 13, 8080-8091.	11.3	49
24	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.	14.1	12
25	Solvent Effect on Electrochemical CO₂ Reduction Reaction on Nanostructured Copper Electrodes. Journal of Physical Chemistry C, 2023, 127, 14518-14527.	3.2	6
26	Influence of Cations on HCOOH and CO Formation during CO₂ Reduction on a Pd_{ML}Pt(111) Electrode. Journal of the American Chemical Society, 2023, 145, 19601-19610.	14.1	17
27	Solutal Marangoni effect determines bubble dynamics during electrocatalytic hydrogen evolution. Nature Chemistry, 2023, 15, 1532-1540.	13.7	54
28	Effect of trace impurities in perchloric acid on blank voltammetry of Pt(111). Electrochimica Acta, 2023, 466, 143035.	5.3	4
29	Interfacial pH Measurements Using a Rotating Ringâ€Disc Electrode with a Voltammetric pH Sensor. ChemElectroChem, 2022, 9, .	3.4	16
30	Electrolyte buffering species as oxygen donor shuttles in CO electrooxidation. Physical Chemistry Chemical Physics, 2022, 24, 2022-2031.	2.8	3
31	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.	5.2	15
32	Understanding hydrogen evolution reaction in bicarbonate buffer. Journal of Catalysis, 2022, 405, 346-354.	6.4	23
33	How palladium inhibits CO poisoning during electrocatalytic formic acid oxidation and carbon dioxide reduction. Nature Communications, 2022, 13, 38.	12.8	64
34	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, .	7.4	60
35	Electrochemical oxidation of Pt(111) beyond the place-exchange model. Electrochimica Acta, 2022, 407, 139881.	5.3	25
36	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.	14.1	176

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37	Effect of pore diameter and length on electrochemical CO₂ reduction reaction at nanoporous gold catalysts. Chemical Science, 2022, 13, 3288-3298.	7.5	28
38	From Pollutant to Chemical Feedstock: Valorizing Carbon Dioxide through Photo- and Electrochemical Processes. Accounts of Chemical Research, 2022, 55, 931-932.	15.7	14
39	Selective electrocatalytic hydrogenation of Î±,Î²-unsaturated ketone on (111)-oriented Pd and Pt electrodes. Electrochimica Acta, 2022, 417, 140264.	5.3	2
40	Predoped Oxygenated Defects Activate Nitrogen-Doped Graphene for the Oxygen Reduction Reaction. ACS Catalysis, 2022, 12, 173-182.	11.3	27
41	The 2022 solar fuels roadmap. Journal Physics D: Applied Physics, 2022, 55, 323003.	2.9	78
42	Enhancing the connection between computation and experiments in electrocatalysis. Nature Catalysis, 2022, 5, 374-381.	27.4	62
43	The Effect of Temperature on the Cationâ€Promoted Electrochemical CO₂ Reduction on Gold. ChemElectroChem, 2022, 9, .	3.4	28
44	Introduction: Computational Electrochemistry. Chemical Reviews, 2022, 122, 10579-10580.	49.4	7
45	Production of Gas Diffusion Layers with Tunable Characteristics. ACS Omega, 2022, 7, 23041-23049.	3.5	3
46	Electrolyte Effects on CO₂ Electrochemical Reduction to CO. Accounts of Chemical Research, 2022, 55, 1900-1911.	15.7	160
47	A kinetic descriptor for the electrolyte effect on the oxygen reduction kinetics on Pt(111). Nature Catalysis, 2022, 5, 615-623.	27.4	90
48	Enhanced Electrochemical CO₂ Reduction to Formate on Poly(4-vinylpyridine)-Modified Copper and Gold Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 45263-45271.	8.1	19
49	Water electrolysis. Nature Reviews Methods Primers, 2022, 2, .	18.3	124
50	Nucleation and Growth of Dendritic Islands during Platinum Oxidation-Reduction Cycling. Journal of the Electrochemical Society, 2022, 169, 112506.	2.9	3
51	Reply to: On the role of metal cations in CO2 electrocatalytic reduction. Nature Catalysis, 2022, 5, 979-981.	27.4	10
52	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.	3.2	3
53	Measuring local pH in electrochemistry. Current Opinion in Electrochemistry, 2021, 25, 100649.	5.1	69
54	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	54

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55	The effect of naphthalene-based additives on tin electrodeposition on a gold electrode. Electrochimica Acta, 2021, 368, 137606.	5.3	7
56	Cathodic corrosion: 21st century insights into a 19th century phenomenon. Current Opinion in Electrochemistry, 2021, 26, 100653.	5.1	37
57	Suppression of Hydrogen Evolution in Acidic Electrolytes by Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 279-285.	14.1	194
58	Direct and Broadband Plasmonic Charge Transfer to Enhance Water Oxidation on a Gold Electrode. ACS Nano, 2021, 15, 3188-3200.	14.9	25
59	Ultrathin Silicon Oxide Overlayers Enable Selective Oxygen Evolution from Acidic and Unbuffered pH-Neutral Seawater. ACS Catalysis, 2021, 11, 1316-1330.	11.3	71
60	Electrocatalytic Nitrate Reduction for Sustainable Ammonia Production. Joule, 2021, 5, 290-294.	24.0	640
61	Emergence of Potential-Controlled Cu-Nanocuboids and Graphene-Covered Cu-Nanocuboids under Operando CO₂ Electroreduction. Nano Letters, 2021, 21, 2059-2065.	9.2	59
62	Dissociative Adsorption of Acetone on Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2021, 125, 6643-6649.	3.2	16
63	Electrolyte Effects on the Faradaic Efficiency of CO₂ Reduction to CO on a Gold Electrode. ACS Catalysis, 2021, 11, 4936-4945.	11.3	121
64	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	10
65	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.	3.6	45
66	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.	2.1	15
67	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.	14.2	172
68	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
69	Water at charged interfaces. Nature Reviews Chemistry, 2021, 5, 466-485.	21.7	230
70	Absence of CO2 electroreduction on copper, gold and silver electrodes without metal cations in solution. Nature Catalysis, 2021, 4, 654-662.	27.4	501
71	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. ACS Catalysis, 2021, 11, 9904-9915.	11.3	18
72	Efficiency and selectivity of CO2 reduction to CO on gold gas diffusion electrodes in acidic media. Nature Communications, 2021, 12, 4943.	12.8	211

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73	Electrocatalysis under Cover: Enhanced Hydrogen Evolution via Defective Graphene-Covered Pt(111). ACS Catalysis, 2021, 11, 10892-10901.	11.3	25
74	Highâ€Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie - International Edition, 2021, 60, 21732-21736.	14.2	37
75	Highâ€Pressure CO Electroreduction at Silver Produces Ethanol and Propanol. Angewandte Chemie, 2021, 133, 21900-21904.	2.1	0
76	Structure sensitivity of electrochemical adsorption and reduction of acetol on noble metal electrodes. Electrochimica Acta, 2021, 391, 138911.	5.3	5
77	Effects of Adsorbed OH on Pt(100)/Water Interfacial Structures and Potential. Journal of Physical Chemistry C, 2021, 125, 21571-21579.	3.2	11
78	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	11
79	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	11
80	Modulation of the selectivity of CO2 to CO electroreduction in palladium rich Palladium-Indium nanoparticles. Journal of Catalysis, 2021, 402, 229-237.	6.4	13
81	Time-Resolved Local pH Measurements during CO₂ Reduction Using Scanning Electrochemical Microscopy: Buffering and Tip Effects. Jacs Au, 2021, 1, 1915-1924.	8.0	51
82	Morphological Stability of Copper Surfaces under Reducing Conditions. ACS Applied Materials & Interfaces, 2021, 13, 48730-48744.	8.1	34
83	Understanding the role of mass transport in tuning the hydrogen evolution kinetics on gold in alkaline media. Journal of Chemical Physics, 2021, 155, 134705.	2.9	27
84	Understanding Cation Trends for Hydrogen Evolution on Platinum and Gold Electrodes in Alkaline Media. ACS Catalysis, 2021, 11, 14328-14335.	11.3	119
85	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.	7.5	22
86	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.	2.1	19
87	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.	14.2	90
88	A DEMS approach for the direct detection of CO formed during electrochemical CO2 reduction. Journal of Electroanalytical Chemistry, 2020, 875, 113842.	3.8	23
89	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	17
90	Adsorption processes on a Pd monolayer-modified Pt(111) electrode. Chemical Science, 2020, 11, 1703-1713.	7.5	31

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91	Mediator-Free SECM for Probing the Diffusion Layer pH with Functionalized Gold Ultramicroelectrodes. Analytical Chemistry, 2020, 92, 2237-2243.	6.6	38
92	In Situ AFM Imaging of Platinum Electrode Surface during Oxidationâ€“Reduction Cycles in Alkaline Electrolyte. ACS Applied Energy Materials, 2020, 3, 597-602.	5.2	19
93	The role of adsorbed hydroxide in hydrogen evolution reaction kinetics on modified platinum. Nature Energy, 2020, 5, 891-899.	28.8	480
94	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	17
95	Structure Sensitivity of Acetophenone Reduction on Palladium-Modified Platinum Single-Crystal Electrodes. Journal of Physical Chemistry C, 2020, 124, 25884-25891.	3.2	6
96	Electrochemical Reduction of the Simplest Monosaccharides: Dihydroxyacetone and Glyceraldehyde. ACS Catalysis, 2020, 10, 13895-13903.	11.3	17
97	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	65
98	Anisotropic Cathodic Corrosion of Gold Electrodes in the Absence and Presence of Carbon Monoxide. Journal of Physical Chemistry C, 2020, 124, 28539-28554.	3.2	9
99	Tailoring the Electrocatalytic Activity and Selectivity of Pt(111) through Cathodic Corrosion. ACS Catalysis, 2020, 10, 15104-15113.	11.3	28
100	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.	7.4	19
101	Understanding the Voltammetry of Bulk CO Electrooxidation in Neutral Media through Combined SECM Measurements. Journal of Physical Chemistry Letters, 2020, 11, 9708-9713.	4.7	31
102	Competition and selectivity during parallel evolution of bromine, chlorine and oxygen on IrOx electrodes. Journal of Catalysis, 2020, 389, 99-110.	6.4	28
103	A Semiempirical Method to Detect and Correct DFT-Based Gas-Phase Errors and Its Application in Electrocatalysis. ACS Catalysis, 2020, 10, 6900-6907.	11.3	81
104	Electrooxidation of C₄ Polyols on Platinum Single-Crystals: A Computational and Electrochemical Study. Journal of Physical Chemistry C, 2020, 124, 14745-14751.	3.2	9
105	CO₂ electroreduction on bimetallic Pdâ€“In nanoparticles. Catalysis Science and Technology, 2020, 10, 4264-4270.	4.1	19
106	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.	14.1	378
107			12
108	Electric-Double-Layer-Modulation Microscopy. Physical Review Applied, 2020, 13, .	3.8	19

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109	Competition and Interhalogen Formation During Parallel Electrocatalytic Oxidation of Bromide and Chloride on Pt. Journal of the Electrochemical Society, 2020, 167, 046505.	2.9	12
110	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	22
111	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
112	Influence of Van der Waals Interactions on the Solvation Energies of Adsorbates at Ptâ€Based Electrocatalysts. ChemPhysChem, 2019, 20, 2968-2972.	2.3	16
113	Selectivity Trends Between Oxygen Evolution and Chlorine Evolution on Iridium-Based Double Perovskites in Acidic Media. ACS Catalysis, 2019, 9, 8561-8574.	11.3	137
114	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie, 2019, 131, 13133-13137.	2.1	25
115	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.	14.1	79
116	Hydrogen-Induced Step-Edge Roughening of Platinum Electrode Surfaces. Journal of Physical Chemistry Letters, 2019, 10, 6842-6849.	4.7	28
117	Atomic-Scale Identification of the Electrochemical Roughening of Platinum. ACS Central Science, 2019, 5, 1920-1928.	11.7	39
118	Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels. Nature Energy, 2019, 4, 732-745.	28.8	1,748
119	Alumina contamination through polishing and its effect on hydrogen evolution on gold electrodes. Electrochimica Acta, 2019, 325, 134915.	5.3	32
120	Special Topic on Interfacial Electrochemistry and Photo(electro)catalysis. Journal of Chemical Physics, 2019, 150, 041401.	2.9	4
121	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie - International Edition, 2019, 58, 12999-13003.	14.2	217
122	Electrochemical Conversion of CO₂into Organic Carbonatesâ€”Products and Intermediates. ACS Sustainable Chemistry and Engineering, 2019, 7, 10716-10723.	6.7	17
123	Voltammetric Study of Tin Electrodeposition on Polycrystalline Gold from Sulfuric and Methanesulfonic Acid. Journal of the Electrochemical Society, 2019, 166, D283-D289.	2.9	12
124	Mechanistic Study of the Electrosynthesis of Propylene Carbonate from Propylene Oxide and CO₂ on Copper Electrodes. ChemElectroChem, 2019, 6, 2917-2923.	3.4	6
125	Structural principles to steer the selectivity of the electrocatalytic reduction of aliphatic ketones on platinum. Nature Catalysis, 2019, 2, 243-250.	27.4	100
126	Outlining the Scaling-Based and Scaling-Free Optimization of Electrocatalysts. ACS Catalysis, 2019, 9, 4218-4225.	11.3	83

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127	The dualism between adatom- and vacancy-based single crystal growth models. Nature Communications, 2019, 10, 5233.	12.8	17
128	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.	3.2	21
129	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. Electrochimica Acta, 2019, 295, 835-845.	5.3	14
130	A mechanistic investigation on the electrocatalytic reduction of aliphatic ketones at platinum. Journal of Catalysis, 2019, 369, 302-311.	6.4	40
131	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.	8.1	99
132	Cathodic Corrosion of a Bulk Wire to Nonaggregated Functional Nanocrystals and Nanoalloys. ACS Applied Materials & Interfaces, 2018, 10, 9532-9540.	8.1	29
133	Spectroscopic Investigation of the Electrosynthesis of Diphenyl Carbonate from CO and Phenol on Gold Electrodes. ACS Catalysis, 2018, 8, 3087-3090.	11.3	12
134	Quantum and electrochemical interplays in hydrogenated graphene. Nature Communications, 2018, 9, 793.	12.8	45
135	Cyclic voltammetry study of trivalent basic chromium sulphate electrolytes contaminated with sulphite. Electrochimica Acta, 2018, 269, 700-705.	5.3	0
136	Computational Comparison of Late Transition Metal (100) Surfaces for the Electrocatalytic Reduction of CO to C₂ Species. ACS Energy Letters, 2018, 3, 1062-1067.	17.8	109
137	Effects of Substrate and Polymer Encapsulation on CO₂ Electroreduction by Immobilized Indium(III) Protoporphyrin. ACS Catalysis, 2018, 8, 4420-4428.	11.3	56
138	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.	6.4	72
139	Correlation of surface site formation to nanoisland growth in the electrochemical roughening of Pt(111). Nature Materials, 2018, 17, 277-282.	25.8	122
140	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	25
141	Hydrogen adsorption on nano-structured platinum electrodes. Faraday Discussions, 2018, 210, 301-315.	3.6	31
142	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.2	110
143	Interconversions of nitrogen-containing species on Pt(100) and Pt(111) electrodes in acidic solutions containing nitrate. Electrochimica Acta, 2018, 271, 77-83.	5.3	38
144	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.	14.1	80

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145	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	142
146	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.	6.4	47
147	Alkali Metal Cation Effects in Structuring Pt, Rh, and Au Surfaces through Cathodic Corrosion. ACS Applied Materials & Interfaces, 2018, 10, 39363-39379.	8.1	55
148	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.	14.1	39
149	Energy conversion at nanointerfaces: general discussion. Faraday Discussions, 2018, 210, 333-351.	3.6	0
150	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.	5.3	32
151	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.	3.2	57
152	MnO_x/IrO_x as Selective Oxygen Evolution Electrocatalyst in Acidic Chloride Solution. Journal of the American Chemical Society, 2018, 140, 10270-10281.	14.1	283
153	Effect of Saturating the Electrolyte with Oxygen on the Activity for the Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 9359-9363.	11.3	53
154	The stability number as a metric for electrocatalyst stability benchmarking. Nature Catalysis, 2018, 1, 508-515.	27.4	605
155	Control of selectivity in hydrosilane-promoted heterogeneous palladium-catalysed reduction of furfural and aromatic carboxides. Communications Chemistry, 2018, 1, .	4.7	32
156	ELECTROCHEMISTRY FOR THE PRODUCTION OF FUELS, CHEMICALS AND MATERIALS. , 2018, , .		1
157	The Importance of Cannizzaro-Type Reactions during Electrocatalytic Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2017, 139, 2030-2034.	14.1	147
158	Electrocatalytic reduction of Nitrate on Copper single crystals in acidic and alkaline solutions.. Electrochimica Acta, 2017, 227, 77-84.	5.3	313
159	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.7	1,576
160	Glycerol electro-oxidation on bismuth-modified platinum single crystals. Journal of Catalysis, 2017, 346, 117-124.	6.4	108
161	Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. Angewandte Chemie - International Edition, 2017, 56, 3621-3624.	14.2	414
162	Electrochemical Stripping of Atomic Oxygen on Single-Crystalline Platinum: Bridging Gas-Phase and Electrochemical Oxidation. Journal of Physical Chemistry Letters, 2017, 8, 1152-1156.	4.7	11

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163	Competition between Hydrogen Evolution and Carbon Dioxide Reduction on Copper Electrodes in Mildly Acidic Media. Langmuir, 2017, 33, 9307-9313.	3.6	302
164	Electrocatalysis for the Hydrogen Economy. , 2017, , 23-50.		11
165	Importance of Solvation for the Accurate Prediction of Oxygen Reduction Activities of Pt-Based Electrocatalysts. Journal of Physical Chemistry Letters, 2017, 8, 2243-2246.	4.7	89
166	Local structure and composition of PtRh nanoparticles produced through cathodic corrosion. Physical Chemistry Chemical Physics, 2017, 19, 10301-10308.	2.8	11
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