

Valentín Briega-Martos

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,122
citations

623734

14
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. <i>Nature Energy</i> , 2019, 4, 60-67.	39.5	478
2	Direct <i>In Situ</i> Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt(<i>hkl</i>) Surfaces. <i>Journal of the American Chemical Society</i> , 2020, 142, 715-719.	13.7	154
3	Effect of pH and Water Structure on the Oxygen Reduction Reaction on platinum electrodes. <i>Electrochimica Acta</i> , 2017, 241, 497-509.	5.2	98
4	An Aza-Fused β -Conjugated Microporous Framework Catalyzes the Production of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2017, 7, 1015-1024.	11.2	83
5	Adsorbed Formate is the Last Common Intermediate in the Dual-Path Mechanism of the Electrooxidation of Formic Acid. <i>ACS Catalysis</i> , 2020, 10, 8120-8130.	11.2	36
6	Pt(<i>hkl</i>) surface charge and reactivity. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 97-105.	4.8	33
7	The inhibition of hydrogen peroxide reduction at low potentials on Pt(111): Hydrogen adsorption or interfacial charge?. <i>Electrochemistry Communications</i> , 2017, 85, 32-35.	4.7	28
8	Why the activity of the hydrogen oxidation reaction on platinum decreases as pH increases. <i>Electrochimica Acta</i> , 2020, 354, 136620.	5.2	28
9	Borohydride electro-oxidation on Pt single crystal electrodes. <i>Electrochemistry Communications</i> , 2015, 51, 144-147.	4.7	27
10	Hydrogen peroxide and oxygen reduction studies on Pt stepped surfaces: Surface charge effects and mechanistic consequences. <i>Electrochimica Acta</i> , 2020, 334, 135452.	5.2	25
11	Understandings on the Inhibition of Oxygen Reduction Reaction by Bromide Adsorption on Pt(111) Electrodes at Different pH Values. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3045-J3051.	2.9	20
12	Acetonitrile Adsorption on Pt Single-Crystal Electrodes and Its Effect on Oxygen Reduction Reaction in Acidic and Alkaline Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2300-2313.	3.1	19
13	Bromide Adsorption on Pt(111) over a Wide Range of pH: Cyclic Voltammetry and CO Displacement Experiments. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18562-18569.	3.1	17
14	Glucose electro-oxidation on Pt(100) in phosphate buffer solution (pH 7): A mechanistic study. <i>Electrochimica Acta</i> , 2020, 354, 136765.	5.2	17
15	Electrocatalytic enhancement of formic acid oxidation reaction by acetonitrile on well-defined platinum surfaces. <i>Electrochimica Acta</i> , 2019, 295, 835-845.	5.2	14
16	Detection of Superoxide Anion Oxygen Reduction Reaction Intermediate on Pt(111) by Infrared Reflection Absorption Spectroscopy in Neutral pH Conditions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1588-1592.	4.6	14
17	Reduction of Oxide Layers on Au(111): The Interplay between Reduction Rate, Dissolution, and Restructuring. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22698-22704.	3.1	11
18	Recent progress on oxygen and hydrogen peroxide reduction reactions on Pt single crystal electrodes. <i>Chinese Journal of Catalysis</i> , 2020, 41, 732-738.	14.0	9

#	ARTICLE	IF	CITATIONS
19	Cation Effects on Interfacial Water Structure and Hydrogen Peroxide Reduction on Pt(111). ACS Measurement Science Au, 2021, 1, 48-55.	4.4	6
20	Charge effects on the behavior of CTAB adsorbed on Au(111) electrodes in aqueous solutions. Electrochimica Acta, 2021, 370, 137737.	5.2	3
21	Structure effects on electrocatalysts. Oxygen reduction on Te-modified Pt(111) surfaces: Site-blocking vs electronic effects. Journal of Chemical Physics, 2020, 152, 134702.	3.0	2
22	New Insights into Pt Dissolution Mechanisms from SFC-ICP-MS Measurements for Well-Defined Surfaces. ECS Meeting Abstracts, 2022, MA2022-01, 1944-1944.	0.0	0