Paramaconi Rodriguez

List of Publications by Year
in descending order

73 papers	5,885 citations	116194 36 h-index	87275 74 g-index
78 all docs	78 docs citations	78 times ranked	7656 citing authors

#	Article	IF	Citations
1	Electrochemical conversion of CO₂ in nonâ€conventional electrolytes: Recent achievements and future challenges. Electrochemical Science Advances, 2023, 3, .	1.2	8
2	Insight into the Activity and Selectivity of Nanostructured Copper Titanates during Electrochemical Conversion of CO₂ at Neutral pH via In Situ X-ray Absorption Spectroscopy. ACS Applied Materials & Interfaces, 2022, 14, 2742-2753.	4.0	8
3	On the shifting peak of volcano plots for oxygen reduction and evolution. Electrochimica Acta, 2022, 426, 140799.	2.6	11
4	Surface galvanic formation of Co-OH on Birnessite and its catalytic activity for the oxygen evolution reaction. Journal of Catalysis, 2021, 396, 304-314.	3.1	5
5	Importance of the gas-phase error correction for O2 when using DFT to model the oxygen reduction and evolution reactions. Journal of Electroanalytical Chemistry, 2021, 896, 115178.	1.9	37
6	Nickel confined in 2D earth-abundant oxide layers for highly efficient and durable oxygen evolution catalysts. Journal of Materials Chemistry A, 2020, 8, 13340-13350.	5.2	6
7	Electrochemical Conversion of CO₂ and CH₄ at Subzero Temperatures. ACS Catalysis, 2020, 10, 7464-7474.	5.5	20
8	Surface Design: Exploiting the Instability of Small Nanoparticles on Metallic Substrates. ECS Transactions, 2020, 97, 885-892.	0.3	0
9	Design of Surface-Modified Electrodes for the Electrochemical Adsorption of Platinum-Based Anticancer Drugs. Chemistry of Materials, 2019, 31, 8012-8018.	3.2	0
10	Can a Single Valence Electron Alter the Electrocatalytic Activity and Selectivity for CO₂ Reduction on the Subnanometer Scale?. Journal of Physical Chemistry C, 2019, 123, 14591-14609.	1.5	10
11	Anomalous Phase Transition of Layered Lepidocrocite Titania Nanosheets to Anatase and Rutile. Crystal Growth and Design, 2019, 19, 3298-3304.	1.4	8
12	Potential Dependent Structure and Stability of Cu(111) in Neutral Phosphate Electrolyte. Surfaces, 2019, 2, 145-158.	1.0	16
13	Editorial: Electrocatalysis on Shape-Controlled Nanoparticles. Frontiers in Chemistry, 2019, 7, 885.	1.8	1
14	Electrochemical characterization and regeneration of sulfur poisoned Pt catalysts in aqueous media. Journal of Electroanalytical Chemistry, 2018, 816, 138-148.	1.9	18
15	Controllable synthesis of nanostructured metal oxide and oxyhydroxide materials via electrochemical methods. Current Opinion in Electrochemistry, 2018, 10, 7-15.	2.5	29
16	Determining the parameters governing the electrochemical stability of thiols and disulfides self-assembled monolayer on gold electrodes in physiological medium. Journal of Electroanalytical Chemistry, 2018, 819, 51-57.	1.9	12
17	Electrochemical processes at the nanoscale. Current Opinion in Electrochemistry, 2018, 7, 138-145.	2.5	16
18	Design of active nickel single-atom decorated MoS2 as a pH-universal catalyst for hydrogen evolution reaction. Nano Energy, 2018, 53, 458-467.	8.2	222

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19	Electrochemical Synthesis of Nanostructured Metal-Doped Titanates and Investigation of Their Activity as Oxygen Evolution Photoanodes. ACS Applied Energy Materials, 2018, , .	2.5	4
20	Adsorption and Electrochemical Oxidation of Small Sulfurâ^'Containing Anions on Pt Electrodes in Organic Media. ChemElectroChem, 2018, 5, 2228-2234.	1.7	3
21	High-Throughput Preparation of Metal Oxide Nanocrystals by Cathodic Corrosion and Their Use as Active Photocatalysts. Langmuir, 2017, 33, 13295-13302.	1.6	30
22	Role of the Adsorbed Oxygen Species in the Selective Electrochemical Reduction of CO₂ to Alcohols and Carbonyls on Copper Electrodes. Angewandte Chemie, 2017, 129, 13099-13104.	1.6	26
23	Role of the Adsorbed Oxygen Species in the Selective Electrochemical Reduction of CO₂ to Alcohols and Carbonyls on Copper Electrodes. Angewandte Chemie - International Edition, 2017, 56, 12919-12924.	7.2	86
24	Phosphate-mediated electrochemical adsorption of cisplatin on gold electrodes. Electrochimica Acta, 2017, 248, 409-415.	2.6	2
25	Electrochemical Reduction of Carbon Dioxide at Goldâ€Palladium Coreâ€“Shell Nanoparticles: Product Distribution versus Shell Thickness. ChemCatChem, 2016, 8, 952-960.	1.8	46
26	Elucidating the degradation mechanism of the cathode catalyst of PEFCs by a combination of electrochemical methods and X-ray fluorescence spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 22407-22415.	1.3	16
27	A Synthetic Route for the Effective Preparation of Metal Alloy Nanoparticles and Their Use as Active Electrocatalysts. ACS Catalysis, 2016, 6, 1533-1539.	5.5	33
28	Electrochemical Oxidation of Small Organic Molecules on Au Nanoparticles with Preferential Surface Orientation. ChemElectroChem, 2015, 2, 958-962.	1.7	18
29	Noble Metal Aerogelsâ€”Synthesis, Characterization, and Application as Electrocatalysts. Accounts of Chemical Research, 2015, 48, 154-162.	7.6	313
30	Enhanced electrocatalytic activity of Au@Cu core@shell nanoparticles towards CO₂reduction. Journal of Materials Chemistry A, 2015, 3, 23690-23698.	5.2	138
31	Fundamentals, achievements and challenges in the electrochemical sensing of pathogens. Analyst, The, 2015, 140, 7116-7128.	1.7	91
32	New insight on the behavior of the irreversible adsorption and underpotential deposition of thallium on platinum (111) and vicinal surfaces in acid electrolytes. Electrochimica Acta, 2015, 151, 319-325.	2.6	5
33	Influence of beryllium cations on the electrochemical oxidation of methanol on stepped platinum surfaces in alkaline solution. Surface Science, 2015, 631, 267-271.	0.8	16
34	Selective Electrocatalysis on Platinum Nanoparticles with Preferential (100) Orientation Prepared by Cathodic Corrosion. Topics in Catalysis, 2014, 57, 255-264.	1.3	35
35	New insights into the catalytic activity of gold nanoparticles for CO oxidation in electrochemical media. Journal of Catalysis, 2014, 311, 182-189.	3.1	62
36	Electrocatalysis on gold. Physical Chemistry Chemical Physics, 2014, 16, 13583-13594.	1.3	143

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37	Platinum-Based Anode Catalysts for Polymer Electrolyte Fuel Cells. , 2014, , 1606-1617.		0
38	Bimetallic Aerogels: Highâ€Performance Electrocatalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 9849-9852.	7.2	246
39	Influence of the electrolyte concentration on the size and shape of platinum nanoparticles synthesized by cathodic corrosion. Electrochimica Acta, 2013, 112, 913-918.	2.6	24
40	The promoting effect of adsorbed carbon monoxide on the oxidation of alcohols on a gold catalyst. Nature Chemistry, 2012, 4, 177-182.	6.6	237
41	Highly Selective Electro-Oxidation of Glycerol to Dihydroxyacetone on Platinum in the Presence of Bismuth. ACS Catalysis, 2012, 2, 759-764.	5.5	259
42	Effect of the Surface Structure of Gold Electrodes on the Coadsorption of Water and Anions. Journal of Physical Chemistry C, 2012, 116, 4786-4792.	1.5	31
43	Electrocatalysis for Polymer Electrolyte Fuel Cells: Recent Achievements and Future Challenges. ACS Catalysis, 2012, 2, 864-890.	5.5	728
44	Removing Polyvinylpyrrolidone from Catalytic Pt Nanoparticles without Modification of Superficial Order. ChemPhysChem, 2012, 13, 709-715.	1.0	72
45	Structural Effects on Water Adsorption on Gold Electrodes. Journal of Physical Chemistry C, 2011, 115, 21249-21257.	1.5	33
46	Selective Catalytic Reduction at Quasi-Perfect Pt(100) Domains: A Universal Low-Temperature Pathway from Nitrite to N₂. Journal of the American Chemical Society, 2011, 133, 10928-10939.	6.6	117
47	Electrocatalytic Oxidation of Alcohols on Gold in Alkaline Media: Base or Gold Catalysis?. Journal of the American Chemical Society, 2011, 133, 6914-6917.	6.6	363
48	Cathodic Corrosion as a Facile and Effective Method To Prepare Clean Metal Alloy Nanoparticles. Journal of the American Chemical Society, 2011, 133, 17626-17629.	6.6	92
49	The electro-oxidation of dimethylamine borane: Part 2, in situ FTIR on single-crystal gold electrodes. Electrochimica Acta, 2011, 56, 7637-7643.	2.6	8
50	Effect of the Surface Structure of Pt(100) and Pt(110) on the Oxidation of Carbon Monoxide in Alkaline Solution: an FTIR and Electrochemical Study. Electrocatalysis, 2011, 2, 242-253.	1.5	18
51	Cathodic Corrosion: A Quick, Clean, and Versatile Method for the Synthesis of Metallic Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 6346-6350.	7.2	142
52	Carbon Monoxide as a Promoter for its own Oxidation on a Gold Electrode. Angewandte Chemie - International Edition, 2010, 49, 1241-1243.	7.2	77
53	New insights into the mechanism of nitrite reduction on a platinum electrode. Journal of Electroanalytical Chemistry, 2010, 649, 59-68.	1.9	57
54	Effects of electrolyte pH and composition on the ethanol electro-oxidation reaction. Catalysis Today, 2010, 154, 92-104.	2.2	228

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55	Thermodynamic evidence for K+â€“SO42â^' ion pair formation on Pt(111). New insight into cation specific adsorption. Physical Chemistry Chemical Physics, 2010, 12, 12146.	1.3	24
56	Promotion of the Oxidation of Carbon Monoxide at Stepped Platinum Single-Crystal Electrodes in Alkaline Media by Lithium and Beryllium Cations. Journal of the American Chemical Society, 2010, 132, 16127-16133.	6.6	124
57	Elucidation of the Chemical Nature of Adsorbed Species for Pt(111) in H₂SO₄ Solutions by Thermodynamic Analysis. Langmuir, 2010, 26, 12408-12417.	1.6	57
58	Direct Reduction of Nitrite to N₂ on a Pt(100) Electrode in Alkaline Media. Journal of the American Chemical Society, 2010, 132, 18042-18044.	6.6	77
59	CO Electroxidation on Gold in Alkaline Media: A Combined Electrochemical, Spectroscopic, and DFT Study. Langmuir, 2010, 26, 12425-12432.	1.6	58
60	Self-promotion mechanism for CO electrooxidation on gold. Physical Chemistry Chemical Physics, 2010, 12, 9373.	1.3	57
61	Unusual adsorption state of carbon monoxide on single-crystalline gold electrodes in alkaline media. Electrochemistry Communications, 2009, 11, 1105-1108.	2.3	49
62	Fourier Transform Infrared Spectroscopy Study of CO Electro-oxidation on Pt(111) in Alkaline Media. Langmuir, 2009, 25, 13661-13666.	1.6	61
63	Thermodynamic analysis of (bi)sulphate adsorption on a Pt(111) electrode as a function of pH. Electrochimica Acta, 2008, 53, 6793-6806.	2.6	62
64	Selective electrocatalysis of acetaldehyde oxime reduction on (111) sites of platinum single crystal electrodes and nanoparticles surfaces. Journal of Solid State Electrochemistry, 2008, 12, 575-581.	1.2	13
65	Surface characterization of platinum electrodes. Physical Chemistry Chemical Physics, 2008, 10, 1359-1373.	1.3	351
66	Tellurium Adatoms as an In-Situ Surface Probe of (111) Two-Dimensional Domains at Platinum Surfaces. Langmuir, 2006, 22, 10329-10337.	1.6	20
67	Layer-by-Layer PMIRRAS Characterization of DMPC Bilayers Deposited on a Au(111) Electrode Surface. Langmuir, 2006, 22, 10365-10371.	1.6	73
68	Specific surface reactions for identification of platinum surface domains. Electrochimica Acta, 2005, 50, 4308-4317.	2.6	83
69	Electrochemical characterization of irreversibly adsorbed germanium on platinum stepped surfaces vicinal to Pt(100). Electrochimica Acta, 2005, 50, 3111-3121.	2.6	57
70	Determination of (111) Ordered Domains on Platinum Electrodes by Irreversible Adsorption of Bismuth. Analytical Chemistry, 2005, 77, 5317-5323.	3.2	66
71	In Situ Surface Characterization of Preferentially Oriented Platinum Nanoparticles by Using Electrochemical Structure Sensitive Adsorption Reactions. Journal of Physical Chemistry B, 2004, 108, 13573-13575.	1.2	116
72	Electrooxidation of Aqueous p-Methoxyphenol on Lead Oxide Electrodes. Journal of Applied Electrochemistry, 2004, 34, 583-589.	1.5	21

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73	Shape-dependent electrocatalysis: ammonia oxidation on platinum nanoparticles with preferential (100) surfaces. Electrochemistry Communications, 2004, 6, 1080-1084.	2.3	218