

# Hamilton Varela

## List of Publications by Year in descending order

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156  
papers

3,301  
citations

147801

31  
h-index

223800

46  
g-index

168  
all docs

168  
docs citations

168  
times ranked

2825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode passivation caused by polymerization of different phenolic compounds. <i>Electrochimica Acta</i> , 2006, 52, 434-442.	5.2	210
2	Multifunctional electrocatalysts derived from conducting polymer and metal organic framework complexes. <i>Nano Energy</i> , 2018, 45, 127-135.	16.0	166
3	Temperature (Over)Compensation in an Oscillatory Surface Reaction. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4617-4624.	2.5	74
4	Trifunctional catalytic activities of trimetallic FeCoNi alloy nanoparticles embedded in a carbon shell for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9021-9031.	10.3	72
5	Electrodeposition of PbO <sub>2</sub> onto Au and Ti substrates. <i>Electrochemistry Communications</i> , 2000, 2, 646-652.	4.7	65
6	The dual pathway in action: decoupling parallel routes for CO <sub>2</sub> production during the oscillatory electro-oxidation of methanol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8294.	2.8	58
7	Stabilizing Nonstationary Electrochemical Time Series. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22262-22268.	3.1	55
8	Comparisons of charge compensation process in aqueous media of polyaniline and self-doped polyanilines. <i>Synthetic Metals</i> , 2001, 122, 321-327.	3.9	54
9	A surface-enhanced infrared absorption spectroscopic (SEIRAS) study of the oscillatory electro-oxidation of methanol on platinum. <i>Journal of Electroanalytical Chemistry</i> , 2010, 642, 17-21.	3.8	54
10	Investigation of persulfate production on BDD anode by understanding the impact of water concentration. <i>Journal of Electroanalytical Chemistry</i> , 2020, 860, 113927.	3.8	53
11	Catalytic oxidation of ethanol on gold electrode in alkaline media. <i>Gold Bulletin</i> , 2008, 41, 15-22.	2.7	50
12	The impact of the alkali cation on the mechanism of the electro-oxidation of ethylene glycol on Pt. <i>Chemical Communications</i> , 2011, 47, 3775.	4.1	50
13	Temperature effects on the oscillatory electro-oxidation of methanol on platinum. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 665-670.	2.8	49
14	Complex kinetics, high frequency oscillations and temperature compensation in the electro-oxidation of ethylene glycol on platinum. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15195.	2.8	49
15	Self-organized distribution of periodicity and chaos in an electrochemical oscillator. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 441-446.	2.8	47
16	Transitions to Electrochemical Turbulence. <i>Physical Review Letters</i> , 2005, 94, 174104.	7.8	46
17	In-situ deposition of reduced graphene oxide layers on textile surfaces by the reactive inkjet printing technique and their use in supercapacitor applications. <i>Synthetic Metals</i> , 2019, 256, 116144.	3.9	46
18	The significance of non-covalent interactions on the electro-oxidation of alcohols on Pt and Au in alkaline media. <i>Electrochemistry Communications</i> , 2013, 33, 10-13.	4.7	45

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19	Complex Oscillatory Response of a PEM Fuel Cell Fed with H <sub>2</sub> /CO and Oxygen. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1301.	2.9	43
20	Microwave-Assisted Synthesis of Pt-Au Nanoparticles with Enhanced Electrocatalytic Activity for the Oxidation of Formic Acid. <i>Electrochimica Acta</i> , 2017, 224, 56-63.	5.2	43
21	Ionic Exchange Phenomena Related to the Redox Processes of Polyaniline in Nonaqueous Media. <i>Journal of the Electrochemical Society</i> , 2000, 147, 665.	2.9	41
22	Potential oscillations in a proton exchange membrane fuel cell with a Pd/Pt/C anode. <i>Journal of Power Sources</i> , 2011, 196, 84-89.	7.8	41
23	Nonlinear phenomena during electrochemical oxidation of hydrogen on platinum electrodes. <i>Catalysis Today</i> , 2001, 70, 411-425.	4.4	40
24	Influence of Anion Adsorption on the Parallel Reaction Pathways in the Oscillatory Electro-oxidation of Methanol. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15098-15105.	3.1	38
25	Oscillatory instabilities during the electrocatalytic oxidation of methanol on platinum. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 679-687.	0.6	37
26	Uniformly self-decorated Co <sub>3</sub> O <sub>4</sub> nanoparticles on N, S co-doped carbon layers derived from a camphor sulfonic acid and metal-organic framework hybrid as an oxygen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12106-12114.	10.3	36
27	Stability of uniform electrode states in the presence of ohmic drop compensation. <i>Electrochimica Acta</i> , 2003, 49, 103-115.	5.2	35
28	Electrocatalytic Efficiency of the Oxidation of Small Organic Molecules under Oscillatory Regime. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22365-22374.	3.1	35
29	Ionic transport in conducting polymers/nickel tetrasulfonated phthalocyanine modified electrodes. <i>Polymer</i> , 2003, 44, 5369-5379.	3.8	34
30	A hierarchy of global coupling induced cluster patterns during the oscillatory H <sub>2</sub> -electrooxidation reaction on a Pt ring-electrode. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2429.	2.8	33
31	Long-Lasting Oscillations in the Electro-Oxidation of Formic Acid on PtSn Intermetallic Surfaces. <i>ChemPhysChem</i> , 2014, 15, 1753-1760.	2.1	33
32	Metallic single-atoms confined in carbon nanomaterials for the electrocatalysis of oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 6420-6448.	4.1	33
33	Técnicas in situ de baixo custo em eletroquímica: a microbalança a cristal de quartzo. <i>Química Nova</i> , 2000, 23, 664-679.	0.3	32
34	Activation Energies of the Electrooxidation of Formic Acid on Pt(100). <i>Journal of Physical Chemistry C</i> , 2009, 113, 18835-18841.	3.1	32
35	Mechanistic aspects of the linear stabilization of non-stationary electrochemical oscillations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1437-1442.	2.8	32
36	A general potentiodynamic approach for red phosphorus and sulfur nanodot incorporation on reduced graphene oxide sheets: metal-free and binder-free electrodes for supercapacitor and hydrogen evolution activities. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3141-3150.	10.3	32

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37	Study of charge compensation during the redox process of self-doped polyaniline in aqueous media. <i>Journal of the Brazilian Chemical Society</i> , 2000, 11, 32.	0.6	31
38	Nano-flocks of a bimetallic organic framework for efficient hydrogen evolution electrocatalysis. <i>Chemical Communications</i> , 2018, 54, 11048-11051.	4.1	31
39	Modeling the triple-path electro-oxidation of formic acid on platinum: Cyclic voltammetry and oscillations. <i>Catalysis Today</i> , 2021, 359, 90-98.	4.4	30
40	Materiais para cátodos de baterias secundárias de lítio. <i>Quimica Nova</i> , 2002, 25, 287-299.	0.3	29
41	Spatial bifurcations of fixed points and limit cycles during the electrochemical oxidation of H <sub>2</sub> on Pt ring-electrodes. <i>Faraday Discussions</i> , 2002, 120, 165-178.	3.2	29
42	Oscillatory electro-oxidation of glycerol on platinum. <i>Electrochimica Acta</i> , 2012, 85, 674-679.	5.2	29
43	Impact of the Alkali Cation on the Oscillatory Electro-Oxidation of Ethylene Glycol on Platinum. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1464-1472.	3.1	27
44	Electro-reduced graphene oxide nanosheets coupled with RuAu bimetallic nanoparticles for efficient hydrogen evolution electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 421, 129987.	12.7	27
45	Stationary Small and Large Amplitude Patterns during Bulk CO Electrooxidation on Platinum. <i>ChemPhysChem</i> , 2003, 4, 1260-1263.	2.1	25
46	Electrocatalytic activity under oscillatory regime: The electro-oxidation of formic acid on ordered Pt <sub>3</sub> Sn intermetallic phase. <i>Catalysis Communications</i> , 2013, 30, 23-26.	3.3	25
47	Stationary Spatial Patterns during Bulk CO Electrooxidation on Platinum. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3408-3415.	2.6	24
48	The Electro-Oxidation of Ethylene Glycol on Platinum over a Wide pH Range: Oscillations and Temperature Effects. <i>PLoS ONE</i> , 2013, 8, e75086.	2.5	24
49	Coupled slow and fast surface dynamics in an electrocatalytic oscillator: Model and simulations. <i>Journal of Chemical Physics</i> , 2014, 141, 234701.	3.0	24
50	Production of Volatile Species during the Oscillatory Electro-oxidation of Small Organic Molecules. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17699-17709.	3.1	24
51	The effect of temperature on the coupled slow and fast dynamics of an electrochemical oscillator. <i>Scientific Reports</i> , 2016, 6, 24553.	3.3	24
52	Pinus nigra pine derived hierarchical carbon foam for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114053.	3.8	24
53	Oscillatory electro-oxidation of thiosulfate on gold. <i>Electrochimica Acta</i> , 2014, 133, 308-315.	5.2	23
54	Development of a versatile rotating ring-disc electrode for in situ pH measurements. <i>Analytica Chimica Acta</i> , 2015, 897, 17-23.	5.4	23

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55	Opportunities and Knowledge Gaps of SO <sub>2</sub> Electrochemical Oxidation for H <sub>2</sub> Electrochemical Generation. ACS Catalysis, 2019, 9, 8136-8143.	11.2	22
56	The effect of solution pH on the oscillatory electro-oxidation of methanol. Journal of Electroanalytical Chemistry, 2018, 826, 164-169.	3.8	21
57	On the open-circuit interaction between methanol and oxidized platinum electrodes. Journal of Solid State Electrochemistry, 2008, 12, 559-567.	2.5	20
58	Oscillatory Electro-oxidation of Methanol on Nanoarchitected Pt <sub>pc</sub> /Rh/Pt Metallic Multilayer. ACS Catalysis, 2015, 5, 1045-1052.	11.2	20
59	Autonomous Voltage Oscillations in a Direct Methanol Fuel Cell. Electrochimica Acta, 2016, 212, 545-552.	5.2	20
60	On the electrochemical polymerization of poly(p-phenylene vinylene) and poly(o-phenylene vinylene). Synthetic Metals, 2001, 118, 65-70.	3.9	19
61	Asymmetric Target Patterns in One-Dimensional Oscillatory Media with Genuine Nonlocal Coupling. Physical Review Letters, 2005, 94, 198301.	7.8	19
62	Open Circuit Interaction of Formic Acid with Oxidized Pt Surfaces: Experiments, Modeling, and Simulations. Journal of Physical Chemistry C, 2010, 114, 18494-18500.	3.1	19
63	The effect of the alkali metal cation on the electrocatalytic oxidation of formate on platinum. RSC Advances, 2014, 4, 15271-15275.	3.6	19
64	Apparent Activation Energy in Electrochemical Multistep Reactions: A Description via Sensitivities and Degrees of Rate Control. ACS Catalysis, 2020, 10, 9336-9345.	11.2	19
65	Mixed Cation and Anion Transport during Redox Cycling of a Self-Doped Polyaniline Derivative in Nonaqueous Media. Journal of the Electrochemical Society, 2000, 147, 4217.	2.9	18
66	Deciphering the Origin of High-Order Periodic and Aperiodic Cyclic Voltammetric Responses During Oxidation Processes on Platinum. Journal of Physical Chemistry B, 2002, 106, 12258-12266.	2.6	18
67	Autocatalysis in the open circuit interaction of alcohol molecules with oxidized Pt surfaces. Physical Chemistry Chemical Physics, 2008, 10, 6686.	2.8	18
68	Beta Oscillations in the Electro-oxidation of Ethylene Glycol on Platinum. Electrocatalysis, 2010, 1, 19-21.	3.0	18
69	Oscillatory Electro-oxidation of Methanol on Platinum Single Crystal Electrodes. Electrocatalysis, 2016, 7, 276-279.	3.0	18
70	Temperature dependence of the evolving oscillations along the electrocatalytic oxidation of methanol. Journal of Electroanalytical Chemistry, 2017, 800, 99-105.	3.8	18
71	Phase diagrams and dynamical evolution of the triple-pathway electro-oxidation of formic acid on platinum. Physical Chemistry Chemical Physics, 2020, 22, 1078-1091.	2.8	18
72	Experimental Assessment of the Sensitiveness of an Electrochemical Oscillator towards Chemical Perturbations. PLoS ONE, 2012, 7, e50145.	2.5	18

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73	Effect of Annealing Treatment on Electrocatalytic Properties of Copper Electrodes toward Enhanced CO <sub>2</sub> Reduction. <i>ChemistrySelect</i> , 2018, 3, 9046-9055.	1.5	17
74	Microgravimetric study of the influence of the solvent on the redox properties of polypyrrol modified electrodes. <i>Journal of Power Sources</i> , 2001, 92, 50-55.	7.8	16
75	The effect of ultra-low proton concentration on the electrocatalytic reduction of nitrate over platinum. <i>Catalysis Communications</i> , 2008, 9, 269-272.	3.3	16
76	Electrocatalytic Efficiency of the Oxidation of Ethylene Glycol, Glycerol, and Glucose under Oscillatory Regime. <i>Energy &amp; Fuels</i> , 2021, 35, 6202-6209.	5.1	16
77	Electrocatalytic Reduction of Nitrate over Palladium Nanoparticle Catalysts. <i>Journal of the Electrochemical Society</i> , 2007, 154, F159.	2.9	15
78	Mechanism and model of the oscillatory electro-oxidation of methanol. <i>Journal of Chemical Physics</i> , 2010, 132, 154901.	3.0	15
79	Quantitative Modeling of the Oscillatory Electrooxidation of Hydrogen on Pt in the Presence of Poisons. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003, 217, 365-382.	2.8	14
80	The effect of chloride on spatiotemporal dynamics in the electro-oxidation of sulfide on platinum. <i>Electrochimica Acta</i> , 2013, 98, 116-122.	5.2	14
81	Probing the surface fine structure through electrochemical oscillations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5674-5682.	2.8	14
82	8-Hydroxyquinoline-5-sulfonic acid on reduced graphene oxide layers as a metal-free electrode material for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113193.	3.8	14
83	Electrochemical reduction of CO <sub>2</sub> to formic acid on Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /carbon fiber electrodes. <i>Journal of Materials Research</i> , 2020, 35, 272-280.	2.6	14
84	Effect of temperature on the electro-oxidation of ethanol on platinum. <i>Quimica Nova</i> , 2010, 33, 2143-2147.	0.3	12
85	Spatiotemporal Pattern Formation in the Oscillatory Electro-Oxidation of Sulfide on a Platinum Disk. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12965-12971.	3.1	12
86	Coupled Dynamics of Anode and Cathode in Proton-Exchange Membrane Fuel Cells. <i>ChemPhysChem</i> , 2019, 20, 3081-3088.	2.1	12
87	The Role of Surface Sites on the Oscillatory Oxidation of Methanol on Stepped Pt[n(111) Å— (110)] Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10993-11004.	3.1	12
88	The impact of water concentration on the catalytic oxidation of ethanol on platinum electrode in concentrated phosphoric acid. <i>Electrochemistry Communications</i> , 2010, 12, 140-143.	4.7	11
89	Real-time determination of CO <sub>2</sub> production and estimation of adsorbate coverage on a proton exchange membrane fuel cell under oscillatory operation. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1851-1859.	2.5	11
90	Influence of the Electrode and Chaotropicity of the Electrolyte on the Oscillatory Behavior of the Electrocatalytic Oxidation of SO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 1243-1247.	3.1	11

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91	Kinetic Instabilities in Electrocatalysis. , 2018, , 701-718.		11
92	A numerical investigation of the effect of external resistance and applied potential on the distribution of periodicity and chaos in the anodic dissolution of nickel. Physical Chemistry Chemical Physics, 2020, 22, 21823-21834.	2.8	11
93	Pattern formation in stiff oscillatory media with nonlocal coupling: A numerical study of the hydrogen oxidation reaction on Pt electrodes in the presence of poisons. Physical Review E, 2005, 72, 066211.	2.1	10
94	On the Limit of Frequency of Electrochemical Oscillators and Its Relationship to Kinetic Parameters. Journal of Physical Chemistry C, 2012, 116, 9561-9567.	3.1	10
95	The role of Ce(III) in BZ oscillating reactions. Chemical Physics Letters, 2012, 530, 137-139.	2.6	10
96	Complex Oscillatory Kinetics in the Electro-Oxidation of Glucose on Gold. Journal of the Electrochemical Society, 2017, 164, H603-H607.	2.9	10
97	Direct Liquid Fuel Cellsâ€”The Influence of Temperature and Dynamic Instabilities. Energy & Fuels, 2020, 34, 12995-13009.	5.1	10
98	Time Evolution of the Activation Energy in a Batch Chemical Oscillator. Journal of Physical Chemistry A, 2008, 112, 12412-12415.	2.5	9
99	Nanogravimetric study of the complex voltammetric response in the electro-oxidation of methanol on platinum. Electrochimica Acta, 2009, 55, 404-409.	5.2	9
100	Periodicity hubs and spirals in an electrochemical oscillator. Journal of Solid State Electrochemistry, 2015, 19, 3287-3296.	2.5	9
101	The Effect of Solution pH and Temperature on the Oscillatory Electroâ€”Oxidation of Formic Acid on Platinum. ChemistrySelect, 2017, 2, 8679-8685.	1.5	9
102	Thorough Analysis of the Effect of Temperature on the Electro-Oxidation of Formic Acid. Journal of Physical Chemistry C, 2020, 124, 24259-24270.	3.1	9
103	Experimental Approaches for Testing the Hypothesis of the Emergence of Life at Submarine Alkaline Vents. Life, 2021, 11, 777.	2.4	9
104	Complex Dynamics in a PEM Fuel Cell. ECS Transactions, 2009, 25, 81-89.	0.5	8
105	The effect of poisoning species on the oscillatory dynamics of an electrochemical reaction. Journal of Physics: Conference Series, 2011, 285, 012003.	0.4	8
106	Open circuit interaction of borohydride with oxidized platinum surfaces. Electrochemistry Communications, 2012, 16, 107-109.	4.7	8
107	Influence of Anion Chaotropicity on the SO <sub>2</sub> Oxidation Reaction: When Spectator Species Determine the Reaction Pathway. ChemElectroChem, 2020, 7, 1843-1850.	3.4	8
108	SO <sub>2</sub> electrooxidation reaction on Pt single crystal surfaces in acidic media: Electrochemical and in situ FTIR studies. Electrochimica Acta, 2022, 403, 139601.	5.2	8

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109	Trapping Electrochemical Oscillations between Self-Organized Potential Walls. <i>ChemPhysChem</i> , 2003, 4, 1348-1351.	2.1	7
110	Electrooxidation of ethanol on Pt and PtRu surfaces investigated by ATR surface-enhanced infrared absorption spectroscopy. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 831-837.	0.6	7
111	Rrde Studies of Glycerol Electro-Oxidation: Local pH Variation and Oscillatory Dynamics. <i>ECS Transactions</i> , 2017, 77, 1643-1650.	0.5	7
112	Mechanistic aspects of the comparative oscillatory electrochemical oxidation of formic acid and methanol on platinum electrode. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1811-1818.	2.5	7
113	A microkinetic description of electrocatalytic reactions: the role of self-organized phenomena. <i>New Journal of Chemistry</i> , 2022, 46, 6837-6846.	2.8	7
114	Spatiotemporal Pattern Formation during Electrochemical Oxidation of Hydrogen on Platinum. <i>ChemistryOpen</i> , 2012, 1, 165-168.	1.9	6
115	The effect of temperature on the dynamics of a homogeneous oscillatory system operated in batch and under flow. <i>RSC Advances</i> , 2014, 4, 30412-30421.	3.6	6
116	The oscillatory electro-oxidation of formic acid: Insights on the adsorbates involved from time-resolved ATR-SEIRAS and UV reflectance experiments. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 249-254.	3.8	6
117	Tuning of catalytic properties for electrooxidation of small organic molecules on Pt-based thin films via controlled thermal treatment. <i>Journal of Catalysis</i> , 2019, 371, 96-105.	6.2	6
118	A sugar derived carbon-red phosphorus composite for oxygen evolution reaction and supercapacitor activities. <i>Materials Science for Energy Technologies</i> , 2020, 3, 508-514.	1.8	6
119	The Impact of Water Concentration on the Electro-Oxidation of Methanol on Platinum. <i>Journal of the Electrochemical Society</i> , 2020, 167, 046506.	2.9	6
120	Sensitivity Analysis in the Microkinetic Description of Electrocatalytic Reactions. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2746-2749.	2.5	6
121	The role of HBF <sub>4</sub> in electro-catalysis: Arsenic contamination and anion adsorption. <i>Journal of Electroanalytical Chemistry</i> , 2011, 660, 147-152.	3.8	5
122	Oscillatory electro-oxidation of ethanol on platinum studied by in situ ATR-SEIRAS. <i>Electrochimica Acta</i> , 2019, 293, 166-173.	5.2	5
123	Electrocatalytic oxidation of small organic molecules on well-defined Pt single-crystal surfaces with controlled density of electrochemically generated defects. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 123-130.	4.8	5
124	Effect of the oxidation state and morphology of SnO <sub>x</sub> -based electrocatalysts on the CO <sub>2</sub> reduction reaction. <i>Journal of Materials Research</i> , 2021, 36, 4240-4248.	2.6	5
125	Voltage Oscillations in a Polymer Electrolyte Membrane Fuel Cell with Pd/Pt/C and Pd/C Anodes. <i>ChemistryOpen</i> , 2017, 6, 629-636.	1.9	4
126	Aspectos relacionados à utilização da equação logística quadrática em processos eletroquímicos. <i>Química Nova</i> , 2002, 25, 99-106.	0.3	3



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127	Complex Dynamics in the Electro-Oxidation of Formic Acid Assisted by Hydrazine in Acidic Media. Journal of the Electrochemical Society, 2016, 163, H186-H191.	2.9	3
128	The effect of flow rate on the oscillatory activation energy of an oscillating reaction. Chemical Physics Letters, 2017, 684, 219-224.	2.6	3
129	Active electrochemical interfaces stabilized through self-organized potential oscillations. Electrochemistry Communications, 2020, 121, 106853.	4.7	3
130	Dinâmica complexa no sistema bromato/hipofosfito/acetona/manganês e ferro. Química Nova, 2007, 30, 1930-1937.	0.3	3
131	The Impact of Water Concentration on the Electro-Oxidation of Formic Acid on Platinum. Journal of the Electrochemical Society, 2022, 169, 026514.	2.9	3
132	PEMFC Oscillatory Behavior on a Pd-Pt/C Electrocatalyst. ECS Transactions, 2010, 33, 1-10.	0.5	2
133	Comment on "Electrochemical Quartz Crystal Microbalance Study of Borohydride Electro-Oxidation on Pt: The Effect of Borohydride Concentration and Thiourea Adsorption" Journal of Physical Chemistry C, 2011, 115, 10310-10311.	3.1	2
134	Amplitude-modulated spiral waves arising from a secondary Hopf bifurcation in mixed-mode oscillatory media. Chemical Physics Letters, 2013, 567, 55-59.	2.6	2
135	Spectrometric Evidence of the Synergy between Formic Acid and Hydrazine on Their Electro-Oxidation. Journal of the Electrochemical Society, 2017, 164, H647-H650.	2.9	2
136	Co-eletrodeposição oscilatória de cobre e estanho. Química Nova, 2008, 31, 1444-1449.	0.3	2
137	Voltage Inversion Caused by Self-organized Oscillations in a Direct Formic Acid Fuel Cell. Matters, 0, , .	1.0	2
138	Da parte para o todo: auto-organização dinâmica em sistemas físico-químicos. Ciência E Cultura, 2011, 63, 23-25.	0.0	2
139	TURING PATTERNS IN CHEMICAL SYSTEMS. Química Nova, 2016, , .	0.3	2
140	Reação de geração de oxigênio em eletrodos de Mn2O3 suportados em aço inoxidável. Química Nova, 2000, 23, 721-726.	0.3	2
141	Electro-oxidation of methanol and glucose on preferentially oriented platinum surfaces: the role of oscillatory kinetics. Reaction Kinetics, Mechanisms and Catalysis, 0, , 1.	1.7	2
142	Dinâmica oscilatória em sistemas contendo bromato e 1,4-ciclo-hexanodiona em meio ácido: I. Efeito da temperatura. Química Nova, 2012, 35, 348-354.	0.3	1
143	On the failure of sustained oscillations in the bromate/hypophosphite "acetone/dual catalyst flow system. Chemical Physics Letters, 2013, 557, 191-193.	2.6	1
144	Synergy in the Hydrazine Assisted Electro-Oxidation of Formic Acid. ECS Transactions, 2015, 64, 1-9.	0.5	1

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145	Oscillatory Instabilities in the Electrooxidation of Borohydride on Platinum. Journal of the Brazilian Chemical Society, 2013, , .	0.6	1
146	Surface and Volumetric Phenomena on Polyaniline-Supported Electrocatalysts. Journal of Physical Chemistry C, 2021, 125, 26073-26083.	3.1	1
147	Reply to the "Comment on the paper "The role of HBF <sub>4</sub> in electro-catalysis: Arsenic contamination and anion adsorption" by A.L. Santos, R. Nagao, C.P. Oliveira, R.B. de Lima, H. Varela [J. Electroanal. Chem. 660 (2011) 147-152]". Journal of Electroanalytical Chemistry, 2012, 687, 1-2.	3.8	0
148	Reprint of: Reply to the "Comment on the paper "The role of HBF <sub>4</sub> in electro-catalysis: Arsenic contamination and anion adsorption" by A.L. Santos, R. Nagao, C.P. Oliveira, R.B. de Lima, H. Varela [J. Electroanal. Chem. 660 (2011) 147-152]". Journal of Electroanalytical Chemistry, 2013, 689, 318-319.	3.8	0
149	Periodic Transition between Breathing Spots and Synchronous Sulfur Deposition/Dissolution in Transpassive Region of the Electro-Oxidation of Sulfide on Platinum. ChemElectroChem, 2017, 4, 2075-2078.	3.4	0
150	The Efficiency of the Electro-Oxidation of Small Organic Molecules: Oscillations and Mechanism. ECS Meeting Abstracts, 2021, MA2021-01, 1949-1949.	0.0	0
151	Micro-Kinetic Modelling of the Electro-Oxidation of Methanol on Platinum. ECS Meeting Abstracts, 2021, MA2021-01, 1961-1961.	0.0	0
152	The Role of Self-Organized Reaction Rates in the Micro-Kinetic Description of Electrocatalytic Reactions. ECS Meeting Abstracts, 2021, MA2021-01, 1952-1952.	0.0	0
153	A Numerical Investigation of the Effect of External Resistance and Applied Potential on the Distribution of Periodicity and Chaos in the Anodic Dissolution of Nickel. ECS Meeting Abstracts, 2021, MA2021-01, 1959-1959.	0.0	0
154	ELECTROCHEMICAL SETUP FOR A MULTICHANNEL DATA ACQUISITION SYSTEM WITH SPATIOTEMPORAL RESOLUTION. Quimica Nova, 2014, , .	0.3	0
155	Comparative Oscillatory Electro-Oxidation of Formic Acid on Palladium and on Platinum. ECS Meeting Abstracts, 2020, MA2020-02, 3676-3676.	0.0	0
156	Oscillatory Reaction Rates in the Electro-Oxidation of Formaldehyde on Palladium. ECS Meeting Abstracts, 2020, MA2020-02, 3675-3675.	0.0	0