Raphael Nagao

List of Publications by Year in Descending Order

38 papers	672 citations	15 h-index	25 g-index
51 ext. papers	724 ext. citations	4.6 avg, IF	4.02 L-index

#	Paper	IF	Citations
38	Seeking for Electrochemical Instabilities in Lithium-Oxygen Batteries Using Halides As Redox Mediator. *ECS Meeting Abstracts*, **2021**, MA2021-01, 1958-1958	0	
37	Oscillatory Electrodeposition of Cu/Cu2o: A Study on the Influence of Ligands in Cu(II) Complexes. *ECS Meeting Abstracts*, **2021**, MA2021-01, 1947-1947	0	
36	Influence of the Ligands in Cu(II) Complexes on the Oscillatory Electrodeposition of Cu/Cu2O. *Journal of Physical Chemistry C*, **2020**, 124, 12559-12568	3.8	4
35	Self-Organization in Electrochemical Synthesis as a Methodology towards New Materials. *ChemElectroChem*, **2020**, 7, 2938-2938	4.3	1
34	The electrosynthesis of gold(I) complexes: A clean, one-pot method. *Electrochemistry Communications*, **2020**, 110, 106620	5.1	4
33	Oscillatory ethylene glycol electrooxidation reaction on Pt in alkaline media: The effect of surface orientation. *Electrochimica Acta*, **2020**, 360, 136986	6.7	2
32	Thorough Analysis of the Effect of Temperature on the Electro-Oxidation of Formic Acid. *Journal of Physical Chemistry C*, **2020**, 124, 24259-24270	3.8	2
31	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	3.6	7
30	Self-Organization in Electrochemical Synthesis as a Methodology towards New Materials. *ChemElectroChem*, **2020**, 7, 2979-3005	4.3	4
29	Investigation of the Oscillatory Electrodissolution of the Nickel-Iron Alloy. *Journal of Physical Chemistry C*, **2019**, 123, 24087-24094	3.8	7
28	Quasiperiodic behavior in the electrodeposition of Cu/Sn multilayers: extraction of activation energies and wavelet analysis. *Physical Chemistry Chemical Physics*, **2019**, 21, 21057-21063	3.6	5
27	Multivariate statistical analysis of chemical and electrochemical oscillators for an accurate frequency selection. *Physical Chemistry Chemical Physics*, **2019**, 21, 16423-16434	3.6	9
26	Modulation of Turing Patterns in the CDIMA Reaction by Ultraviolet and Visible Light. *Journal of Physical Chemistry A*, **2019**, 123, 992-998	2.8	6
25	Tuning Electrochemical Bistability by Surface Area Blocking in the Cathodic Deposition of Copper. *ACS Omega*, **2018**, 3, 13636-13646	3.9	3
24	Alkali Cation Effect During the Oscillatory Electroreduction of H2O2 on Pt. *ChemistrySelect*, **2017**, 2, 11713-11716	1.8	5
23	Restoring oscillatory behavior from amplitude death with anti-phase synchronization patterns in networks of electrochemical oscillations. *Chaos*, **2016**, 26, 094808	3.3	25
22	Phase-selective entrainment of nonlinear oscillator ensembles. *Nature Communications*, **2016**, 7, 10788	17.4	47

21	Elucidation of Reaction Mechanisms Far from Thermodynamic Equilibrium. *ChemistryOpen*, **2016**, 5, 164-7	2.3	1
20	Impact of the Alkali Cation on the Oscillatory Electro-Oxidation of Ethylene Glycol on Platinum. *Journal of Physical Chemistry C*, **2015**, 119, 1464-1472	3.8	20
19	Restoration of rhythmicity in diffusively coupled dynamical networks. *Nature Communications*, **2015** , 6, 7709	17.4	119
18	Oscillatory Electro-oxidation of Methanol on Nanoarchitectured Ptpc/Rh/Pt Metallic Multilayer. *ACS Catalysis*, **2015**, 5, 1045-1052	13.1	18
17	Fronts and patterns in a spatially forced CDIMA reaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 26137-43	3.6	6
16	Production of Volatile Species during the Oscillatory Electro-oxidation of Small Organic Molecules. *Journal of Physical Chemistry C*, **2014**, 118, 17699-17709	3.8	24
15	Coupled slow and fast surface dynamics in an electrocatalytic oscillator: model and simulations. *Journal of Chemical Physics*, **2014**, 141, 234701	3.9	24
14	Influence of Anion Adsorption on the Parallel Reaction Pathways in the Oscillatory Electro-oxidation of Methanol. *Journal of Physical Chemistry C*, **2013**, 117, 15098-15105	3.8	34
13	Mechanistic aspects of the linear stabilization of non-stationary electrochemical oscillations. *Physical Chemistry Chemical Physics*, **2013**, 15, 1437-42	3.6	29
12	Reprint of: Reply to the Comment on the paper The role of HBF4 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) 147152] *Journal of Electroanalytical Chemistry*, **2013**, 689, 318-319	4.1	
11	Forcing of Turing patterns in the chlorine dioxide-iodine-malonic acid reaction with strong visible light. *Journal of Physical Chemistry A*, **2013**, 117, 9120-6	2.8	7
10	The electro-oxidation of ethylene glycol on platinum over a wide pH range: oscillations and temperature effects. *PLoS ONE*, **2013**, 8, e75086	3.7	20
9	Turing patterns in the chlorine dioxide-iodine-malonic acid reaction with square spatial periodic forcing. *Physical Chemistry Chemical Physics*, **2012**, 14, 6577-83	3.6	18
8	Reply to the Comment on the paper The role of HBF4 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) 147152] *Journal of Electroanalytical Chemistry*, **2012**, 687, 1-2	4.1	
7	The dual pathway in action: decoupling parallel routes for CO2 production during the oscillatory electro-oxidation of methanol. *Physical Chemistry Chemical Physics*, **2012**, 14, 8294-8	3.6	51
6	The role of HBF4 in electro-catalysis: Arsenic contamination and anion adsorption. *Journal of Electroanalytical Chemistry*, **2011**, 660, 147-152	4.1	3
5	Stabilizing Nonstationary Electrochemical Time Series. *Journal of Physical Chemistry C*, **2010**, 114, 22262-22268	3.8	51
4	Nanogravimetric study of the complex voltammetric response in the electro-oxidation of methanol on platinum. *Electrochimica Acta*, **2009**, 55, 404-409	6.7	7

3	Temperature effects on the oscillatory electro-oxidation of methanol on platinum. *Physical Chemistry Chemical Physics*, **2009**, 11, 665-70	3.6	44
2	Temperature (over)compensation in an oscillatory surface reaction. *Journal of Physical Chemistry A*, **2008**, 112, 4617-24	2.8	63
1	Electrochemical Mass Spectrometry: Evolutions of the Cell Setup for On-line Investigation of Products and Screening of Electrocatalysts for Carbon Dioxide Reduction. *ChemElectroChem*,	4.3	0