

Benjamin Scharifker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8306859/publications.pdf>

Version: 2024-02-01

98
papers

6,480
citations

109137

35
h-index

62479

80
g-index

108
all docs

108
docs citations

108
times ranked

3549
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling Kinetic Effects during Photoelectrochemical Mineralization of Phenols. Rutile:Anatase TiO ₂ Nanotube Photoanodes under Thin-Layer Conditions. Journal of Physical Chemistry C, 2021, 125, 610-617.	1.5	6
2	Chemical kinetics in solar to chemical energy conversion: The photoelectrochemical oxygen transfer reaction. Energy Reports, 2020, 6, 2-12.	2.5	19
3	Electrochemical formation of copper phosphide from aqueous solutions of Cu(II) and hypophosphite ions. Electrochimica Acta, 2020, 354, 136705.	2.6	12
4	Photocatalysis and photoelectrochemical glucose oxidation on Bi ₂ WO ₆ : Conditions for the concomitant H ₂ production. Renewable Energy, 2020, 152, 974-983.	4.3	36
5	High-Field Growth of Semiconducting Anodic Oxide Films on Metal Surfaces for Photocatalytic Application. International Journal of Photoenergy, 2019, 2019, 1-15.	1.4	8
6	Dispatches from a world in turmoil. Nature, 2019, 576, 382-384.	13.7	2
7	Three-dimensional nucleation with diffusion controlled growth: A comparative study of electrochemical phase formation from aqueous and deep eutectic solvents. Journal of Electroanalytical Chemistry, 2017, 793, 119-125.	1.9	37
8	Science struggles on in my ravaged country. Nature, 2017, 545, 135-135.	13.7	1
9	Nucleation kinetics and contact angles of silver clusters electrodeposited on indium tin oxide surfaces. Journal of Electroanalytical Chemistry, 2016, 765, 140-148.	1.9	9
10	Electrochemical oxygen transfer reactions: electrode materials, surface processes, kinetic models, linear free energy correlations, and perspectives. Journal of Solid State Electrochemistry, 2016, 20, 875-893.	1.2	28
11	A novel nickel nanowire amperometric sensor: Direct current vs. alternating current strategies for ethanol, acetaldehyde and acetylcholine detection. Journal of Electroanalytical Chemistry, 2015, 740, 61-67.	1.9	16
12	A rotating disk study of the photocatalytic oxidation of p-nitrophenol on phosphorus-modified TiO ₂ photocatalyst. Applied Catalysis B: Environmental, 2015, 166-167, 529-534.	10.8	22
13	On the Model Describing Potentiostatic Current Transients Recorded during the Mass Transport-controlled Nucleation of Hemispheres in the Presence of Forced Convection. Procedia Chemistry, 2014, 12, 27-33.	0.7	1
14	Modeling the Growth of Nanowire Arrays in Porous Membrane Templates. Journal of the Electrochemical Society, 2014, 161, E3341-E3347.	1.3	25
15	Electrochemical oxidation of dichlorvos on SnO ₂ Sb ₂ O ₅ electrodes. Applied Catalysis B: Environmental, 2014, 144, 107-111.	10.8	29
16	Current transient study of the kinetics of nucleation and diffusion-controlled growth of bimetallic phases. Journal of Solid State Electrochemistry, 2013, 17, 345-351.	1.2	38
17	Kinetics of surface reactions on rotating disk electrodes. Electrochimica Acta, 2012, 80, 326-333.	2.6	19
18	Characterization of a carbon paste electrode modified with tripolyphosphate-modified kaolinite clay for the detection of lead. Talanta, 2011, 85, 1357-1363.	2.9	33

#	ARTICLE	IF	CITATIONS
19	Electroreduction of chloroacetic acids (mono-, di- and tri-) at polyNi(II)-tetrasulfonated phthalocyanine gold modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 103-110.	4.0	33
20	Electrochemical nucleation and growth of black and white chromium deposits onto stainless steel surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2010, 647, 128-132.	1.9	16
21	Kinetic study of the electrochemical mineralization of phenols in thin-layer condition. <i>Electrochimica Acta</i> , 2010, 55, 6501-6506.	2.6	12
22	Measurement of phenols dearomatization via electrolysis: The UV-Vis solid phase extraction method. <i>Water Research</i> , 2010, 44, 911-917.	5.3	12
23	Analysis of the Copper Electrodeposition Current Transients in Nitrates Media. <i>ECS Transactions</i> , 2009, 20, 357-364.	0.3	3
24	Characterization of Kaolin Glassy Carbon Modified Electrodes: Preconcentration of 2- α -Chlorophenol. <i>Electroanalysis</i> , 2009, 21, 1354-1362.	1.5	3
25	The current transient for nucleation and diffusion-controlled growth of spherical caps. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 565-571.	1.2	17
26	Three-dimensional nucleation with diffusion-controlled growth: Simulation of hierarchical diffusion zones overlap. <i>Journal of Electroanalytical Chemistry</i> , 2009, 631, 22-28.	1.9	29
27	Electrochemical nucleation and the classical theory: Overpotential and temperature dependence of the nucleation rate. <i>Russian Journal of Electrochemistry</i> , 2008, 44, 652-658.	0.3	39
28	Venezuelan students are campaigning for freedom. <i>Nature</i> , 2008, 451, 395-395.	13.7	0
29	Electrochemical Characterization of Nitrate Reduction on Recently Deposited Cooper Nuclei. <i>ECS Transactions</i> , 2008, 15, 371-381.	0.3	0
30	Electroanalytic Study of Nitrates Detection using Cooper and Glassy Carbon Electrodes Modified with Copper Nuclei. <i>ECS Transactions</i> , 2008, 15, 555-561.	0.3	0
31	Gathering Kinetic Data of Electrochemical Phase Formation Processes Through Analysis of Experimental Current Transients. Overview and New Approaches. <i>ECS Transactions</i> , 2007, 3, 45-52.	0.3	0
32	Consistency of the Classical Theory of Nucleation with Nanometric Phenomena: A Comparison from Overpotential and Temperature Studies. <i>ECS Transactions</i> , 2007, 3, 53-63.	0.3	0
33	On the Initial Stages of Electrooxidation of Aqueous Maleic Acid on Bi-Doped PbO ₂ . <i>Electroanalysis</i> , 2007, 19, 1628-1634.	1.5	1
34	A comparison of the electrooxidation kinetics of p-methoxyphenol and p-nitrophenol on Sb-doped SnO ₂ surfaces: Concentration and temperature effects. <i>Applied Catalysis B: Environmental</i> , 2007, 72, 98-104.	10.8	63
35	Oxidation of p-methoxyphenol on SnO ₂ -Sb ₂ O ₅ electrodes: Effects of electrode potential and concentration on the mineralization efficiency. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 433-439.	1.5	22
36	Study on the Influence of Chloride Concentration on Copper Electrodeposition. <i>ECS Transactions</i> , 2006, 3, 25-34.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Reduction of Nitrate Ion on the Growing Surfaces of Cr Nuclei Formed During Black Chromium Electrodeposition. ECS Transactions, 2006, 3, 137-146.	0.3	0
38	Electrodeposition Under Forced Convection Conditions. ECS Transactions, 2006, 3, 117-125.	0.3	0
39	Mechanistic pathways during oxidation of cyanate on platinum single crystal faces. Electrochimica Acta, 2005, 50, 1423-1429.	2.6	9
40	Nucleation and diffusion-controlled growth of electroactive centers. Electrochimica Acta, 2005, 50, 4736-4745.	2.6	248
41	Electrooxidation of Aqueous p-Methoxyphenol on Lead Oxide Electrodes. Journal of Applied Electrochemistry, 2004, 34, 583-589.	1.5	21
42	Study of the oxidation of solutions of p-chlorophenol and p-nitrophenol on Bi-doped PbO ₂ electrodes by UV-Vis and FTIR in situ spectroscopy. Electrochimica Acta, 2004, 49, 641-648.	2.6	73
43	A Mechanism for the Prebiotic Emergence of Proteins. Cellular Origin and Life in Extreme Habitats, 2004, , 83-87.	0.3	0
44	Competitive electrochemical oxidation of p-chlorophenol and p-nitrophenol on Bi-doped PbO ₂ . Electrochimica Acta, 2003, 48, 2775-2780.	2.6	79
45	Scientists and the Venezuelan Crisis. Science, 2003, 299, 1184a-1184.	6.0	1
46	Oxidation of formate on hydrogen-loaded palladium. International Journal of Hydrogen Energy, 2002, 27, 99-105.	3.8	25
47	In situ FTIR study of redox and overoxidation processes in polypyrrole films. Journal of Electroanalytical Chemistry, 2000, 491, 117-125.	1.9	114
48	Catalytic reduction of nitrate during electrodeposition of thallium from Tl ³⁺ solution. Electrochemistry Communications, 2000, 2, 448-451.	2.3	15
49	The kinetics of mercury nucleation from Hg ²⁺ and Hg ₂ ²⁺ solutions on vitreous carbon electrodes. Journal of Electroanalytical Chemistry, 1999, 464, 39-47.	1.9	59
50	Oxidation of CO on hydrogen-loaded palladium. Journal of Applied Electrochemistry, 1999, 29, 1185-1190.	1.5	20
51	On the Theory of the Potentiostatic Current Transient for Diffusion-Controlled Three-Dimensional Electrocrystallization Processes. Journal of the Electrochemical Society, 1999, 146, 1005-1012.	1.3	115
52	Reduction of Carbon Dioxide on Modified Glassy Carbon Electrodes. Journal of the Electrochemical Society, 1999, 146, 4131-4136.	1.3	19
53	Spatial distribution of nuclei inhibition of local nucleation rates by the most influential neighbours. Journal of Electroanalytical Chemistry, 1998, 441, 13-18.	1.9	33
54	Diffusion controlled growth of hemispheres in ordered arrays. Journal of Electroanalytical Chemistry, 1998, 458, 253-255.	1.9	24

#	ARTICLE	IF	CITATIONS
55	Impedance spectroscopy of undoped, doped and overoxidized polypyrrole films. <i>Synthetic Metals</i> , 1997, 87, 179-185.	2.1	87
56	Direct microcalorimetric measurement of doping and overoxidation processes in polypyrrole. <i>Electrochimica Acta</i> , 1997, 42, 291-301.	2.6	34
57	Silver Electrocrystallization on Vitreous Carbon from Ammonium Hydroxide Solutions. <i>Journal of the Electrochemical Society</i> , 1996, 143, 1551-1558.	1.3	102
58	Changes in the population of neutral species and charge carriers during electrochemical oxidation of polypyrrole. <i>Journal of Electroanalytical Chemistry</i> , 1996, 401, 207-214.	1.9	36
59	Silver electrocrystallization from a nonpolluting aqueous leaching solution containing ammonia and chloride. <i>Journal of Applied Electrochemistry</i> , 1996, 26, 451.	1.5	40
60	Upgrading of Orinoco Belt crude oil and its fractions by an electrochemical system in the presence of protonating agents. <i>Fuel Processing Technology</i> , 1996, 48, 159-172.	3.7	24
61	Spatial distribution of electrodeposited lead nuclei on to vitreous carbon beyond their nearest neighbours. <i>Journal of Electroanalytical Chemistry</i> , 1995, 383, 37-41.	1.9	17
62	The role of intermediates in solution in the initial stages of electrodeposition of polypyrrole. <i>Journal of Electroanalytical Chemistry</i> , 1994, 365, 35-39.	1.9	34
63	Products in solution during electrodeposition of polypyrrole. <i>Journal of Electroanalytical Chemistry</i> , 1993, 357, 273-287.	1.9	43
64	Spatial distributions and saturation number densities of lead nuclei deposited on vitreous carbon electrodes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 255.	1.7	61
65	Electrodeposition and Electrochemical Behavior of Palladium Particles at Polyaniline and Polypyrrole Films. <i>Journal of the Electrochemical Society</i> , 1992, 139, 438-443.	1.3	99
66	Microelectrode Techniques in Electrochemistry. <i>Modern Aspects of Electrochemistry</i> , 1992, , 467-519.	0.2	14
67	On the spatial distribution of nuclei on electrode surfaces. <i>Electrochimica Acta</i> , 1992, 37, 2503-2510.	2.6	42
68	The growth of polypyrrole films on electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 300, 85-98.	0.3	88
69	Ensembles of Microelectrodes. , 1991, , 227-239.		2
70	On the underpotential-overpotential transition in the deposition of silver on platinum. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 274, 167-178.	0.3	31
71	Direct confirmation that FTIR studies of electrodes bear only surface information. <i>Electrochimica Acta</i> , 1988, 33, 159-160.	2.6	9
72	Diffusion to ensembles of microelectrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 240, 61-76.	0.3	151

#	ARTICLE	IF	CITATIONS
73	On the diffusional impedance of microdisc electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 256, 229-233.	0.3	19
74	Adsorbed Hydrogen on Iron in the Electrochemical Reduction of Protons: An FTIR Study. Journal of the Electrochemical Society, 1987, 134, 1957-1963.	1.3	32
75	The Kinetics of Oxygen Reduction in Molten Phosphoric Acid at High Temperatures. Journal of the Electrochemical Society, 1987, 134, 2714-2725.	1.3	65
76	Concentration and potential dependence of the adsorption of thiourea and thiocyanate on iron surfaces. Electrochimica Acta, 1987, 32, 799-809.	2.6	20
77	The transport properties of oxygen in aqueous borate solutions. Electrochimica Acta, 1987, 32, 1553-1555.	2.6	10
78	Adsorption of borate ions on passive iron: An in-situ SNIFTIRS-FTIRRAS study. Surface Science, 1986, 173, 97-105.	0.8	12
79	The nucleation of lead from halide-containing solutions. Journal of Applied Electrochemistry, 1986, 16, 333-338.	1.5	39
80	A Comparison of the Properties of $\text{CF}_3\text{SO}_3\text{H}$ and H_3PO_4 in Relation to Fuel Cells. Journal of Electrochemical Society, 1986, 133, 2262-2267.	1.3	58
81	Electrochemical nucleation. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 184, 371-389.	0.3	42
82	Phase formation phenomena during electrodeposition of benzyl and heptyl viologen bromides. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 185, 93-108.	0.3	44
83	Effect of temperature on the formation of two dimensional sulphide phases on mercury. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 190, 199-212.	0.3	22
84	Electrodeposition of lead sulphide. Electrochimica Acta, 1985, 30, 677-682.	2.6	18
85	Three-dimensional nucleation with diffusion controlled growth. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 177, 13-23.	0.3	550
86	Three-dimensional nucleation with diffusion controlled growth. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 177, 25-37.	0.3	129
87	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 164, 1-9.	0.3	21
88	Electrocrystallization of copper sulphide (Cu_2S) on copper. Electrochimica Acta, 1984, 29, 261-266.	2.6	30
89	Theoretical and experimental studies of multiple nucleation. Electrochimica Acta, 1983, 28, 879-889.	2.6	1,745
90	The formation and properties of single nuclei. Electrochimica Acta, 1983, 28, 891-898.	2.6	84

#	ARTICLE	IF	CITATIONS
91	A potentiostatic study of the electrochemical nucleation of silver on vitreous carbon. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 132, 277-289.	0.3	46
92	Electrochemical nucleation. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 138, 225-239.	0.3	560
93	Electrochemical nucleation. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 138, 255-271.	0.3	75
94	Ensembles of microelectrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 138, 65-77.	0.3	124
95	Electrochemical adsorption and phase formation on mercury in sulphide ion solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 119, 73-91.	0.3	67
96	The nucleation and growth of two-dimensional anodic films under galvanostatic conditions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 124, 247-262.	0.3	44
97	Electrochemical kinetics at microscopically small electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 130, 81-97.	0.3	171
98	Induction times for the formation of single mercury nuclei on a platinum microelectrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 130, 99-112.	0.3	54