

Andrzej Lasia

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6599089/andrzej-lasia-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

5,788
citations

44
h-index

72
g-index

141
ext. papers

6,347
ext. citations

4.3
avg, IF

6.28
L-index

#	Paper	IF	Citations
135	The Origin of the Constant Phase Element.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 580-589	6.4	5
134	Impedance studies of Li ⁺ diffusion in nickel manganese cobalt oxide (NMC) during charge/discharge cycles. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 113944	4.1	17
133	Mechanism and kinetics of the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19484-19518	6.7	94
132	Impedance Spectroscopy Applied to the Study of Electrocatalytic Processes 2018 , 241-263		1
131	Study of the hydrogen absorption/diffusion in Pd80Rh20 alloy in acidic solution. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 822, 153-162	4.1	7
130	Kinetics of hydrogen underpotential deposition at iridium in sulfuric and perchloric acids. <i>Electrochimica Acta</i> , 2017 , 225, 160-167	6.7	25
129	Electrochemical impedance study of the kinetics of hydrogen evolution at a rough palladium electrode in acidic solution. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 785, 190-195	4.1	26
128	Electrochemical Impedance Spectroscopy and its Applications 2014 ,		313
127	Definition of Impedance and Impedance of Electrical Circuits 2014 , 7-66		6
126	Determination of Impedances 2014 , 67-84		1
125	Impedance of the Faradaic Reactions in the Presence of Mass Transfer 2014 , 85-125		5
124	Impedance of the Faradaic Reactions in the Presence of Adsorption 2014 , 127-145		2
123	Electrocatalytic Reactions Involving Hydrogen 2014 , 155-175		1
122	Dispersion of Impedances at Solid Electrodes 2014 , 177-201		2
121	Impedance of Porous Electrodes 2014 , 203-250		
120	Semiconductors and Mott-Schottky Plots 2014 , 251-255		16
119	Self-Assembled Monolayers, Biological Membranes, and Biosensors 2014 , 263-270		

118	Modeling of Experimental Data 2014 , 301-321		2
117	Conditions for Obtaining Good Impedances 2014 , 271-300		2
116	Nonlinear Impedances (Higher Harmonics) 2014 , 323-331		
115	Instrumental Limitations 2014 , 333-339		
114	Coatings and Paints 2014 , 257-261		1
113	Dynamic impedance study of ethanol and acetaldehyde oxidation at platinum in acid solutions. <i>Electrochimica Acta</i> , 2012 , 78, 286-293	6.7	21
112	Kinetics of hydrogen underpotential deposition at polycrystalline platinum in acidic solutions. <i>Electrochimica Acta</i> , 2012 , 80, 292-301	6.7	54
111	Electrochemical impedance study of the hematite/water interface. <i>Langmuir</i> , 2012 , 28, 7914-20	4	62
110	Influence of experimental factors on the constant phase element behavior of Pt electrodes. <i>Electrochimica Acta</i> , 2011 , 56, 8058-8068	6.7	60
109	Kinetics of hydrogen underpotential deposition at polycrystalline rhodium in acidic solutions. <i>Electrochimica Acta</i> , 2011 , 56, 5746-5753	6.7	23
108	Selective Electrocatalytic Hydrogenation of Linolenic Acid on Pd/Al ₂ O ₃ and Pd-Co/Al ₂ O ₃ Catalysts. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-9	2.4	3
107	Determination of the real surface area of powdered materials in cavity microelectrodes by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2010 , 55, 6283-6291	6.7	37
106	Kinetics of hydrogen underpotential deposition at ruthenium in acidic solutions. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 649, 198-205	4.1	25
105	Hydrogen sorption in Pd monolayers in alkaline solution. <i>Electrochimica Acta</i> , 2009 , 54, 5292-5299	6.7	37
104	Modeling of Impedance of Porous Electrodes. <i>Modern Aspects of Electrochemistry</i> , 2008 , 1-71		8
103	Impedance of Porous Electrodes. <i>ECS Transactions</i> , 2008 , 13, 1-18	1	8
102	Hydrogen adsorption/absorption on Pd/Pt(111) multilayers. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 62-68	4.1	31
101	Electrochemically Active Block Copolymer Micelles Containing Coumarin Moieties. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1065-1072	2.6	16

100	Fast cis-trans isomerization of an azobenzene derivative in liquids and liquid crystals under a low electric field. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3596-9	16.4	54
99	Fast Cis-Trans Isomerization of an Azobenzene Derivative in Liquids and Liquid Crystals under a Low Electric Field. <i>Angewandte Chemie</i> , 2008 , 120, 3652-3655	3.6	14
98	Study of the hydrogen absorption in Pd in alkaline solution. <i>Electrochimica Acta</i> , 2008 , 53, 6317-6322	6.7	63
97	Separation of hydrogen adsorption and absorption on Pd thin films. <i>Electrochimica Acta</i> , 2008 , 53, 6845-6850	6.7	53
96	Studies on the AlCl ₃ /dimethylsulfone (DMSO ₂) electrolytes for the aluminum deposition processes. <i>Surface and Coatings Technology</i> , 2007 , 201, 6309-6317	4.4	50
95	Study of the hydrogen evolution reaction on nickel-based composite coatings containing molybdenum powder. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1211-1218	6.7	169
94	Remarks on EIS and statistical analysis of copper electrodeposition accounting for multi-component transport and reactions [M.E. Huerta Garrido, M.D. Pritzker, J. Electroanal. Chem. 594 (2006) 118]. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 605, 77-79	4.1	4
93	Mechanism of hydrogen adsorption/absorption at thin Pd layers on Au(111). <i>Electrochimica Acta</i> , 2007 , 52, 6195-6205	6.7	72
92	Thermal, Optical and Electrochemical Properties of Side-Chain Azopyridine Polymers Complexed with Metalloporphyrins. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1485-1491	2.6	13
91	Kinetic and Thermodynamic Parameters of Hydrogen Sorption in Pd, Pd-Pt and on Pt. <i>ECS Transactions</i> , 2006 , 2, 11-19	1	6
90	Effect of crystal violet on the kinetics of H sorption into Pd. <i>Electrochimica Acta</i> , 2006 , 51, 3356-3364	6.7	62
89	Determination of hydrogen absorption isotherm and diffusion coefficient in Pd ₈₁ Pt ₁₉ alloy. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 588, 32-43	4.1	26
88	On the mechanism of the hydrogen absorption reaction. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 593, 159-166	4.1	55
87	Electrodeposition of aluminium from ionic liquids: Part I - electrodeposition and surface morphology of aluminium from aluminium chloride (AlCl ₃)-ethyl-3-methylimidazolium chloride ([EMIm]Cl) ionic liquids. <i>Surface and Coatings Technology</i> , 2006 , 201, 1-9	4.4	269
86	Electrodeposition of aluminium from ionic liquids: Part II - studies on the electrodeposition of aluminum from aluminum chloride (AlCl ₃) - trimethylphenylammonium chloride (TMPAC) ionic liquids. <i>Surface and Coatings Technology</i> , 2006 , 201, 10-18	4.4	114
85	Impedance of porous gold electrodes in the presence of electroactive species. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 582, 85-96	4.1	35
84	Electrochemical properties of Ni electrode materials modified with nickel oxide and metallic cobalt powders. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 265-271	6.7	49
83	Comments on the phase-shift method for determining Langmuir adsorption isotherms of over-potentially deposited hydrogen for the cathodic evolution reaction at poly-Re/aqueous electrolyte interfaces [Hydrogen Energy 30 (2005) 485-499]. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 913-917	6.7	14

82	Influence of the electrode nature on conductivity measurements of gadolinia-doped ceria. <i>Solid State Ionics</i> , 2005 , 176, 1429-1437	3.3	22
81	Influence of the Nature of the Contact Electrode on the Conductivity Measurements of Doped Ceria. <i>ECS Proceedings Volumes</i> , 2005 , 2005-07, 1081-1086		
80	Effect of Heat-Treatment on the Mechanism and Kinetics of the Hydrogen Evolution Reaction on NiB + TiO ₂ + Ti Electrodes. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 507-516	2.6	52
79	Studies of the Hydrogen Evolution Reaction on Raney Nickel/Molybdenum Electrodes. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 735-749	2.6	269
78	The structure, morphology and electrochemical impedance study of the hydrogen evolution reaction on the modified nickel electrodes. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 145-157	6.7	209
77	Modeling of hydrogen upd isotherms. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 562, 23-31	4.1	41
76	Impedance of porous Au based electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 572, 355-366	4.1	105
75	Determination of the adsorption energy distribution function of upd hydrogen on monocrystalline platinum. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 574, 41-47	4.1	11
74	Limitations of the potential step technique to impedance measurements using discrete time Fourier transform. <i>Analytical Chemistry</i> , 2004 , 76, 5033-8	7.8	34
73	Investigation of Hydrogen Adsorption-Absorption into Thin Palladium Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1925	3.9	79
72	Investigation of Hydrogen Adsorption and Absorption in Palladium Thin Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1937	3.9	130
71	Investigation of Hydrogen Adsorption and Absorption in Palladium Thin Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1943	3.9	62
70	Study of the hydrogen/palladium system by fast quartz microbalance techniques. <i>Electrochimica Acta</i> , 2002 , 47, 2199-2207	6.7	33
69	The electrochemical impedance of metal hydride electrodes. <i>Electrochimica Acta</i> , 2002 , 47, 2871-2884	6.7	33
68	Applications of Electrochemical Impedance Spectroscopy to Hydrogen Adsorption, Evolution and Absorption into Metals 2002 , 1-49		48
67	Electrochemical Impedance Spectroscopy and its Applications 2002 , 143-248		281
66	. <i>Electroanalysis</i> , 2001 , 13, 1258-1264	3	14
65	Nature of the two semi-circles observed on the complex plane plots on porous electrodes in the presence of a concentration gradient. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 30-35	4.1	67

64	Kinetics of electrocrystallisation of PbO ₂ on glassy carbon electrodes: influence of ultrasound. <i>New Journal of Chemistry</i> , 2001 , 25, 1195-1198	3.6	14
63	Comments on the article "An electrochemical impedance measurement technique employing Fourier transform" by J.-S. Yoo and S.-M. Park. <i>Analytical Chemistry</i> , 2001 , 73, 4059-61	7.8	5
62	Kinetics of Electrocrystallization of PbO ₂ on Glassy Carbon Electrodes Partial Inhibition of the Progressive Three-Dimensional Nucleation and Growth. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2969	3.9	21
61	The use of regularization methods in the deconvolution of underlying distributions in electrochemical processes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 475, 28-37	4.1	65
60	Evaluation of the surface roughness of microporous Ni ₂ ZnP electrodes by in situ methods. <i>Journal of Applied Electrochemistry</i> , 1999 , 29, 979-986	2.6	86
59	Hydrogen evolution/oxidation reactions on porous electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 454, 115-121	4.1	30
58	Study of the Hydrogen Evolution Reaction on Ni-Mo-P Electrodes in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 2219-2225	3.9	71
57	Electrodeposition of Hard Gold from Acidic Solution: The Influence of Substrates. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 1979-1988	3.9	17
56	Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc-Phosphorous Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2652-2657	3.9	61
55	Influence of adsorption of organic compounds and surface heterogeneity on the hydrogen evolution reaction. <i>Canadian Journal of Chemistry</i> , 1997 , 75, 1615-1623	0.9	11
54	Studies of the Hydrogen Evolution Reaction on Ni-P Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 511-519	3.9	99
53	Porous electrodes in the presence of a concentration gradient. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 428, 155-164	4.1	70
52	Study of gold deposition on copper by electrochemical and microscopic techniques. <i>Journal of Applied Electrochemistry</i> , 1997 , 27, 643-650	2.6	31
51	Nucleation and crystal growth in gold electrodeposition from acid solution Part I: Soft gold. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 843-852	2.6	23
50	Nucleation and crystal growth in gold electrodeposition from acid solution Part II: Hard gold. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 853-863	2.6	14
49	Impedance study of the passive film on stainless steel 304 in pH 8 carbonate solution. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 1169	2.6	13
48	Study of a mechanism of hard gold electrodeposition. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 385-397	2.6	20
47	Kinetics of the Hydrogen Evolution Reaction on RuO ₂ and IrO ₂ Oxide Electrodes in H ₂ SO ₄ Solution: An AC Impedance Study. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3576-3584	3.9	45

46	Hydrogen evolution reaction on Ni-Al-Mo and Ni-Al electrodes prepared by low pressure plasma spraying. <i>Journal of Applied Electrochemistry</i> , 1995 , 25, 592-602	2.6	49
45	Impedance of porous electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 397, 27-33	4.1	176
44	Surface Effects in the Hydrogen Evolution Reaction on Ni-Zn Alloy Electrodes in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3313-3319	3.9	24
43	General Model of Electrochemical Hydrogen Absorption into Metals. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3393-3399	3.9	83
42	Study of the Mechanism of the Hydrogen Evolution Reaction at Raney Nickel Electrodes in the Presence of Organic Compounds. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 975-982	3.9	11
41	Electrocatalytic properties of doped nickel boride based electrodes for the hydrogen evolution reaction. <i>Journal of Applied Electrochemistry</i> , 1994 , 24, 1267-1275	2.6	16
40	Kinetics of electroreduction of Zn ²⁺ at mercury in nonaqueous solutions. <i>Canadian Journal of Chemistry</i> , 1994 , 72, 1691-1698	0.9	7
39	AC Impedance Studies of Highly Oriented Pyrolytic Graphite in 1M NaOH Solution. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 2716-2721	3.9	9
38	Electrochemically induced chain reactions: the electrochemical behavior of nitrosobenzene in the presence of proton donors in tetrahydrofuran. <i>Journal of Organic Chemistry</i> , 1993 , 58, 5329-5334	4.2	7
37	Ni-Al Powder Electrocatalyst for Hydrogen Evolution: Effect of Heat-Treatment on Morphology, Composition, and Kinetics. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2464-2473	3.9	39
36	Hydrogen Evolution Reaction at Composite-Coated Raney Nickel Electrodes in Aqueous and Aqueous-Methanolic Solutions. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2721-2725	3.9	21
35	Study of hydrogen evolution on selected PTFE-bonded porous electrodes. <i>International Journal of Hydrogen Energy</i> , 1993 , 18, 985-994	6.7	6
34	Study of electrode activities towards the hydrogen evolution reaction by a.c. impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 1993 , 18, 557-560	6.7	28
33	Impedance studies of porous lanthanum-phosphate-bonded nickel electrodes in concentrated sodium hydroxide solution. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 360, 101-118	4.1	61
32	Studies of the hydrogen evolution reaction on lanthanum phosphate-bonded composite nickelruthenium electrodes in 1 M alkaline solutions. <i>Journal of Applied Electrochemistry</i> , 1993 , 23, 684	2.6	13
31	Hydrogen evolution reaction on Ni-Al electrodes. <i>Journal of Applied Electrochemistry</i> , 1993 , 23, 135	2.6	91
30	Lanthanum Phosphate-Bonded Composite Nickel-Rhodium Electrodes for Alkaline Water Electrolysis. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2143-2148	3.9	13
29	Catalytic Influence of Commercial Ru, Rh, Pt, and Pd (~0,1 atomic percent) Intercalated in Graphite on the Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2372-2378	3.9	17

28	Study of the Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc Powder Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3214-3219	3.9	101
27	Influence of the Adsorption of Organic Compounds on the Kinetics of the Hydrogen Evolution Reaction on Ni and Ni-Zn Alloy Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1058-1064	3.9	11
26	Hydrogen Evolution Reaction on Nickel-Molybdenum Powder Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3458-3464	3.9	45
25	Kinetics of hydrogen evolution on Ni-Al alloy electrodes. <i>Journal of Applied Electrochemistry</i> , 1992 , 22, 376-382	2.6	99
24	Electrocatalytic properties of amorphous nickel boride electrodes for hydrogen evolution reaction in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 333, 115-125	4.1	44
23	Kinetics of the electroreduction of Co(salen) in DMSO. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 326, 317-322	4.1	5
22	Kinetics of the hydrogen evolution reaction on a rhodium electrode. <i>Electrochimica Acta</i> , 1992 , 37, 1283-1294	4.2	34
21	Study of the Kinetics of the Hydrogen Evolution Reaction on Phosphate-Bonded Composite Nickel Electrodes by the Open-Circuit Potential Decay Method. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 900-905	3.9	15
20	Study of solvent effects on the kinetics of the Cd(II)/Cd(Hg) reaction. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 314, 103-116		11
19	Study of the Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc Alloy Electrodes. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 3321-3328	3.9	164
18	Investigation of hydrogen evolution on Raney-Nickel composite-coated electrodes. <i>Electrochimica Acta</i> , 1990 , 35, 1251-1256	6.7	53
17	Mechanism of zinc(ii) reduction in DMSO on mercury. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 288, 153-164		21
16	Double layer effects in the kinetics of electroreduction of zinc(II) at mercury in dimethylformamide and dimethylsulfoxide solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 279, 243-256		26
15	Study of the Kinetics of Hydrogen Evolution Reaction on Raney Nickel Composite-Coated Electrode by AC Impedance Technique. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 1723-1730	3.9	85
14	Double-layer effects in the kinetics of the Cd ²⁺ /Cd(Hg) system in dimethylsulfoxide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 266, 69-81		18
13	Anomalies in cyclic voltammograms for extreme values of transfer coefficients. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 260, 221-226		4
12	Applications of the potential step charging technique to the hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 266, 57-68		11
11	Studies of copper impedance in alkaline aqueous solutions in the presence of inorganic anions. <i>Surface and Coatings Technology</i> , 1988 , 34, 401-416	4.4	5

10	Mechanism of electroreduction of 9-anthraldehyde. <i>Canadian Journal of Chemistry</i> , 1987 , 65, 744-747	0.9	3
9	Study of the CEE mechanism by voltammetry and chronoamperometry. <i>Canadian Journal of Chemistry</i> , 1986 , 64, 2319-2323	0.9	4
8	Applications of implicit finite difference technique to cyclic voltammetry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985 , 191, 185-190		11
7	Improvements in the determination of the kinetics of dimerization reactions by cyclic voltammetry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 146, 413-416		15
6	Comparison and application of finite difference methods to electroanalytical problems. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 146, 397-411		25
5	The electroreduction of aromatic aldehydes in aprotic solvents. <i>Canadian Journal of Chemistry</i> , 1981 , 59, 3256-3260	0.9	27
4	The properties of the ion associates of benzophenone in DMF. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1979 , 102, 117-126		12
3	Electrochemical reduction mechanism of phthalimide in DMF. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1974 , 52, 229-236		8
2	The reaction of the ion pairs of phthalic anhydride and phthalic aldehyde ketyl radical anions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1973 , 42, 253-259		14
1	Ion-pairs of fluorenone and indantrione-1,2,3-ketyl radical anions in dimethylformamide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1972 , 36, 511-514		22