TamÃ¡s Pajkossy

List of Publications by Year
in descending order

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73	4,749	136740	91712
papers	citations	32 h-index	69 g-index

73	73	73	3082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic electrochemical impedance spectroscopy for the charge transfer rate measurement of the ferro/ferricyanide redox couple on gold. Journal of Electroanalytical Chemistry, 2021, 899, 115655.	1.9	7
2	Analysis of adsorption-related voltammograms: Transformation to potential-program invariant form. Electrochemistry Communications, 2020, 118, 106810.	2.3	7
3	Connection of CVs and impedance spectra of reversible redox systems, as used for the validation of a dynamic electrochemical impedance spectrum measurement system. Journal of Solid State Electrochemistry, 2020, 24, 2883-2889.	1.2	12
4	Voltammetry coupled with impedance spectroscopy. Journal of Solid State Electrochemistry, 2020, 24, 2157-2159.	1.2	6
5	Dynamic electrochemical impedance spectroscopy of quasi-reversible redox systems. Properties of the Faradaic impedance, and relations to those of voltammograms. Electrochimica Acta, 2019, 308, 410-417.	2.6	13
6	Analysis of voltammograms of quasi-reversible redox systems: Transformation to potential program invariant form. Electrochimica Acta, 2019, 297, 1121-1129.	2.6	13
7	Analysis of quasi-reversible cyclic voltammograms: Transformation to scan-rate independent form. Electrochemistry Communications, 2018, 90, 69-72.	2.3	12
8	The metalâ€“ionic liquid interface as characterized by impedance spectroscopy andin situscanning tunneling microscopy. Physical Chemistry Chemical Physics, 2018, 20, 21241-21250.	1.3	25
9	Electrochemical impedance spectroscopy in interfacial studies. Current Opinion in Electrochemistry, 2017, 1, 53-58.	2.5	107
10	Electrochemical dissolution of aluminium in electrocoagulation experiments. Journal of Solid State Electrochemistry, 2016, 20, 3107-3114.	1.2	33
11	Immersion measurements of potential of zero total charge (pztc) of Au(100) in an ionic liquid. Electrochimica Acta, 2016, 188, 512-515.	2.6	13
12	The interface between HOPG and 1-butyl-3-methyl-imidazolium hexafluorophosphate. Physical Chemistry Chemical Physics, 2016, 18, 916-925.	1.3	19
13	Electrocoagulation: an electrochemical process for water clarification. Journal of Electrochemical Science and Engineering, 2015, .	1.6	5
14	The interface between Au(100) and 1-butyl-3-methyl-imidazolium-bis(trifluoromethylsulfonyl)imide. Journal of Electroanalytical Chemistry, 2015, 737, 218-225.	1.9	34
15	Impedance Spectra of Pt(100) in Aqueous H₂SO₄ and HCl Solutions Around the Hydrogen Adsorption-Desorption Peak. Zeitschrift Fur Physikalische Chemie, 2012, 226, 935-943.	1.4	2
16	The interfaces of Au(111) and Au(100) in a hexaalkyl-substituted guanidinium ionic liquid: an electrochemical and in situ STM study. Physical Chemistry Chemical Physics, 2012, 14, 10647.	1.3	48
17	The interface between Au(100) and 1-butyl-3-methyl-imidazolium-hexafluorophosphate. Physical Chemistry Chemical Physics, 2011, 13, 11627.	1.3	67
18	Deposition of platinum monolayers on gold. Journal of Solid State Electrochemistry, 2011, 15, 2453-2459.	1.2	18

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19	Response to the Commentary of Marcel DrÃ¼schler and Bernhard Roling on â€˜The interface between Au(111) and an ionic liquidâ€™. Electrochimica Acta, 2011, 56, 7246-7247.	2.6	5
20	The interfacial capacitance of Au(100) in an ionic liquid, 1-butyl-3-methyl-imidazolium hexafluorophosphate. Electrochemistry Communications, 2011, 13, 284-286.	2.3	60
21	Atypical electric behavior of the double layer. Experimental case studies: Rh(111) in aqueous HCl solutions, and Au(111) in an ionic liquid, BMIPF6. Pure and Applied Chemistry, 2010, 83, 259-268.	0.9	2
22	The interface between Au(111) and an ionic liquid. Electrochimica Acta, 2010, 55, 6212-6217.	2.6	136
23	The interfacial capacitance of Rh(111) in HCl solutions. Electrochimica Acta, 2009, 54, 3594-3599.	2.6	15
24	An impedance study of Ir(210) in HCl solutions. Russian Journal of Electrochemistry, 2009, 45, 29-37.	0.3	12
25	Anion-adsorption-related frequency-dependent double layer capacitance of the platinum-group metals in the double layer region. Electrochimica Acta, 2008, 53, 7403-7409.	2.6	51
26	Potential Program Invariant Representation of Diffusionâ€“Adsorption Related Voltammograms. Zeitschrift Fur Physikalische Chemie, 2007, 221, 1137-1147.	1.4	1
27	Double layer capacitance of the platinum group metals in the double layer region. Electrochemistry Communications, 2007, 9, 1171-1174.	2.3	45
28	Voltammetry and impedance measurements of Ir(100) electrodes in aqueous solutions. Journal of Electroanalytical Chemistry, 2007, 600, 113-118.	1.9	40
29	Water uptake of water-borne paint resin films as studied by impedance spectroscopy and gravimetry. Progress in Organic Coatings, 2007, 59, 95-99.	1.9	12
30	Corrosion-protection properties of water-borne paint coatings as studied by electrochemical impedance spectroscopy and gravimetry. Progress in Organic Coatings, 2006, 56, 304-310.	1.9	24
31	Voltammetry and impedance measurements of Ir(111) electrodes in aqueous solutions. Journal of Electroanalytical Chemistry, 2005, 582, 69-75.	1.9	40
32	Impedance spectroscopy at interfaces of metals and aqueous solutions â€” Surface roughness, CPE and related issues. Solid State Ionics, 2005, 176, 1997-2003.	1.3	238
33	On the origin of the double layer capacitance maximum of Pt(111) single crystal electrodes. Electrochemistry Communications, 2003, 5, 283-285.	2.3	56
34	Voltammetry and Impedance of Pt(111) Electrodes in Aqueous KClO4Solutions. Zeitschrift Fur Physikalische Chemie, 2003, 217, 351-364.	1.4	7
35	The double layer capacity of Pt(100) in aqueous perchlorate solutions. Electrochemistry Communications, 2002, 4, 787-789.	2.3	31
36	In situ electrochemical impedance spectroscopy of Zrâ€“1%Nb under VVER primary circuit conditions. Journal of Nuclear Materials, 2002, 300, 230-236.	1.3	15

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37	Measurement of adsorption rates of anions on Au(111) electrodes by impedance spectroscopy. Electrochimica Acta, 2002, 47, 2055-2063.	2.6	118
38	Oxide layers of Zrâ€“1% Nb under PWR primary circuit conditions. Journal of Nuclear Materials, 2001, 297, 62-68.	1.3	11
39	Double layer capacitance of Pt(111) single crystal electrodes. Electrochimica Acta, 2001, 46, 3063-3071.	2.6	208
40	On the origin of capacitance dispersion of rough electrodes. Electrochimica Acta, 2000, 46, 207-211.	2.6	260
41	Impedance of rough capacitive electrodes: the role of surface disorder. Journal of Electroanalytical Chemistry, 1998, 448, 139-142.	1.9	149
42	Capacitance dispersion on solid electrodes: anion adsorption studies on gold single crystal electrodes. Solid State Ionics, 1997, 94, 123-129.	1.3	87
43	Potential program invariant representation of voltammetric measurement results of reversible redox couples. Journal of Electroanalytical Chemistry, 1997, 422, 13-19.	1.9	6
44	Impedance aspects of anion adsorption on gold single crystal electrodes. Journal of Electroanalytical Chemistry, 1996, 414, 209-220.	1.9	63
45	Impedance aspects of anion adsorption on gold single crystal electrodes. Journal of Electroanalytical Chemistry, 1996, 414, 209-220.	1.9	182
46	Impedance of rough capacitive electrodes. Journal of Electroanalytical Chemistry, 1994, 364, 111-125.	1.9	523
47	Method-independent representation of polarographic and voltammetric measurement results of reversible redox couples. Journal of Electroanalytical Chemistry, 1994, 364, 229-234.	1.9	14
48	Diffusion kinetics at fractal electrodes. Journal of Electroanalytical Chemistry, 1994, 366, 69-73.	1.9	41
49	MORPHOLOGY OF COBALT ELECTRODEPOSITS. Fractals, 1993, 01, 59-66.	1.8	7
50	Electrochemistry at fractal interfaces. , 1992, , .		0
51	Electrochemical determination of the fractal dimension of fractured surfaces. Acta Metallurgica Et Materialia, 1992, 40, 1819-1826.	1.9	92
52	Impedance of planar electrodes with scale-invariant capacitance distribution. Journal of Electroanalytical Chemistry, 1992, 332, 55-61.	1.9	20
53	Electrochemistry at fractal surfaces. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 300, 1-11.	0.3	188
54	Diffusion to fractal surfacesâ€”V. quasi-random interfaces. Electrochimica Acta, 1991, 36, 163-165.	2.6	40

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55	Search for neutrons from cold nuclear fusion. Journal of Radioanalytical and Nuclear Chemistry, 1990, 145, 327-337.	0.7	2
56	Diffusion to fractal surfacesâ€"IV. The case of the rotating disc electrode of fractal surface. Electrochimica Acta, 1990, 35, 1423-1424.	2.6	22
57	Electrochemistry at fractal interfaces: the coupling of ac and dc behaviour at irregular electrodes. Electrochimica Acta, 1990, 35, 1567-1572.	2.6	74
58	Tafel current at fractal electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 285, 103-115.	0.3	207
59	Scaling-law analysis to describe the impedance behavior of fractal electrodes. Physical Review B, 1990, 42, 709-719.	1.1	73
60	Diffusion to fractal surfacesâ€"II. Verification of theory. Electrochimica Acta, 1989, 34, 171-179.	2.6	222
61	Diffusion to fractal surfacesâ€"III. Linear sweep and cyclic voltammograms. Electrochimica Acta, 1989, 34, 181-186.	2.6	100
62	Comments on J. C. Wang's paper on the impedance of a fractal electrolyteâ€"electrode interface. Electrochimica Acta, 1988, 33, 713-715.	2.6	14
63	Radiation-induced oxidation-reduction processes in the solid state studied by electrode impedance determination. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1988, 32, 429-431.	0.0	0
64	Anion-exchange behavior of polypyrrole membranes. The Journal of Physical Chemistry, 1988, 92, 3560-3565.	2.9	67
65	Impedance of Fractal Blocking Electrodes. Journal of the Electrochemical Society, 1986, 133, 2061-2064.	1.3	70
66	Diffusion to fractal surfaces. Electrochimica Acta, 1986, 31, 1347-1350.	2.6	169
67	Electron Transfer at the â€‰WOâ€‰3â€‰â€ïâ€‰Electrolyte Interface under Controlled Mass Transfer Conditions. Journal of the Electrochemical Society, 1986, 133, 331-336.	1.3	19
68	Photoelectrochemical studies of gamma-irradiated iron oxides. Radiation Physics and Chemistry (1977), 1985, 26, 527-530.	0.4	2
69	Fractal dimension and fractional power frequency-dependent impedance of blocking electrodes. Electrochimica Acta, 1985, 30, 1533-1540.	2.6	444
70	Fast algorithm for differintegration. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 179, 65-69.	0.3	8
71	Mechanism of Hole Injection on Ferric Oxide Photoelectrodes. Journal of the Electrochemical Society, 1983, 130, 632-635.	1.3	11
72	Discussion of â€œEquivalent Circuit Analysis of the Impedance Response of Semiconductor/Electrolyte/Counterelectrode Cellsâ€•[J. F. McCann and S. P. S. Badwal (pp. 551â€“559, Vol.) Tj ETQq0 0 0 rgBT /Overloc		

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73	Transformation to potentialâ€program invariant form of voltammograms and dynamic electrochemical impedance spectra of surface confined redox species. Electrochemical Science Advances, 0, , e2000039.	1.2	3