

Tamás Pajkossy

List of Publications by Year in descending order

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73
papers

4,749
citations

136950

32
h-index

91884

69
g-index

73
all docs

73
docs citations

73
times ranked

3082
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic electrochemical impedance spectroscopy for the charge transfer rate measurement of the ferro/ferricyanide redox couple on gold. <i>Journal of Electroanalytical Chemistry</i> , 2021, 899, 115655.	3.8	7
2	Analysis of adsorption-related voltammograms: Transformation to potential-program invariant form. <i>Electrochemistry Communications</i> , 2020, 118, 106810.	4.7	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. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2883-2889.	2.5	12
4	Voltammetry coupled with impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2157-2159.	2.5	6
5	Dynamic electrochemical impedance spectroscopy of quasi-reversible redox systems. Properties of the Faradaic impedance, and relations to those of voltammograms. <i>Electrochimica Acta</i> , 2019, 308, 410-417.	5.2	13
6	Analysis of voltammograms of quasi-reversible redox systems: Transformation to potential program invariant form. <i>Electrochimica Acta</i> , 2019, 297, 1121-1129.	5.2	13
7	Analysis of quasi-reversible cyclic voltammograms: Transformation to scan-rate independent form. <i>Electrochemistry Communications</i> , 2018, 90, 69-72.	4.7	12
8	The metal-ionic liquid interface as characterized by impedance spectroscopy and in situ scanning tunneling microscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21241-21250.	2.8	25
9	Electrochemical impedance spectroscopy in interfacial studies. <i>Current Opinion in Electrochemistry</i> , 2017, 1, 53-58.	4.8	107
10	Electrochemical dissolution of aluminium in electrocoagulation experiments. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3107-3114.	2.5	33
11	Immersion measurements of potential of zero total charge (pztc) of Au(100) in an ionic liquid. <i>Electrochimica Acta</i> , 2016, 188, 512-515.	5.2	13
12	The interface between HOPG and 1-butyl-3-methyl-imidazolium hexafluorophosphate. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 916-925.	2.8	19
13	Electrocoagulation: an electrochemical process for water clarification. <i>Journal of Electrochemical Science and Engineering</i> , 2015, .	3.5	5
14	The interface between Au(100) and 1-butyl-3-methyl-imidazolium-bis(trifluoromethylsulfonyl)imide. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 218-225.	3.8	34
15	Impedance Spectra of Pt(100) in Aqueous H ₂ SO ₄ and HCl Solutions Around the Hydrogen Adsorption-Desorption Peak. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 935-943.	2.8	2
16	The interfaces of Au(111) and Au(100) in a hexaalkyl-substituted guanidinium ionic liquid: an electrochemical and in situ STM study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10647.	2.8	48
17	The interface between Au(100) and 1-butyl-3-methyl-imidazolium-hexafluorophosphate. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11627.	2.8	67
18	Deposition of platinum monolayers on gold. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2453-2459.	2.5	18

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19	Response to the Commentary of Marcel Dr̄schler and Bernhard Roling on "The interface between Au(111) and an ionic liquid". <i>Electrochimica Acta</i> , 2011, 56, 7246-7247.	5.2	5
20	The interfacial capacitance of Au(100) in an ionic liquid, 1-butyl-3-methyl-imidazolium hexafluorophosphate. <i>Electrochemistry Communications</i> , 2011, 13, 284-286.	4.7	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. <i>Pure and Applied Chemistry</i> , 2010, 83, 259-268.	1.9	2
22	The interface between Au(111) and an ionic liquid. <i>Electrochimica Acta</i> , 2010, 55, 6212-6217.	5.2	136
23	The interfacial capacitance of Rh(111) in HCl solutions. <i>Electrochimica Acta</i> , 2009, 54, 3594-3599.	5.2	15
24	An impedance study of Ir(210) in HCl solutions. <i>Russian Journal of Electrochemistry</i> , 2009, 45, 29-37.	0.9	12
25	Anion-adsorption-related frequency-dependent double layer capacitance of the platinum-group metals in the double layer region. <i>Electrochimica Acta</i> , 2008, 53, 7403-7409.	5.2	51
26	Potential Program Invariant Representation of Diffusion-Adsorption Related Voltammograms. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 1137-1147.	2.8	1
27	Double layer capacitance of the platinum group metals in the double layer region. <i>Electrochemistry Communications</i> , 2007, 9, 1171-1174.	4.7	45
28	Voltammetry and impedance measurements of Ir(100) electrodes in aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , 2007, 600, 113-118.	3.8	40
29	Water uptake of water-borne paint resin films as studied by impedance spectroscopy and gravimetry. <i>Progress in Organic Coatings</i> , 2007, 59, 95-99.	3.9	12
30	Corrosion-protection properties of water-borne paint coatings as studied by electrochemical impedance spectroscopy and gravimetry. <i>Progress in Organic Coatings</i> , 2006, 56, 304-310.	3.9	24
31	Voltammetry and impedance measurements of Ir(111) electrodes in aqueous solutions. <i>Journal of Electroanalytical Chemistry</i> , 2005, 582, 69-75.	3.8	40
32	Impedance spectroscopy at interfaces of metals and aqueous solutions " Surface roughness, CPE and related issues. <i>Solid State Ionics</i> , 2005, 176, 1997-2003.	2.7	238
33	On the origin of the double layer capacitance maximum of Pt(111) single crystal electrodes. <i>Electrochemistry Communications</i> , 2003, 5, 283-285.	4.7	56
34	Voltammetry and Impedance of Pt(111) Electrodes in Aqueous KClO4 Solutions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003, 217, 351-364.	2.8	7
35	The double layer capacity of Pt(100) in aqueous perchlorate solutions. <i>Electrochemistry Communications</i> , 2002, 4, 787-789.	4.7	31
36	In situ electrochemical impedance spectroscopy of Zr "1%Nb under VVER primary circuit conditions. <i>Journal of Nuclear Materials</i> , 2002, 300, 230-236.	2.7	15

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37	Measurement of adsorption rates of anions on Au(111) electrodes by impedance spectroscopy. <i>Electrochimica Acta</i> , 2002, 47, 2055-2063.	5.2	118
38	Oxide layers of Zr~1% Nb under PWR primary circuit conditions. <i>Journal of Nuclear Materials</i> , 2001, 297, 62-68.	2.7	11
39	Double layer capacitance of Pt(111) single crystal electrodes. <i>Electrochimica Acta</i> , 2001, 46, 3063-3071.	5.2	208
40	On the origin of capacitance dispersion of rough electrodes. <i>Electrochimica Acta</i> , 2000, 46, 207-211.	5.2	260
41	Impedance of rough capacitive electrodes: the role of surface disorder. <i>Journal of Electroanalytical Chemistry</i> , 1998, 448, 139-142.	3.8	149
42	Capacitance dispersion on solid electrodes: anion adsorption studies on gold single crystal electrodes. <i>Solid State Ionics</i> , 1997, 94, 123-129.	2.7	87
43	Potential program invariant representation of voltammetric measurement results of reversible redox couples. <i>Journal of Electroanalytical Chemistry</i> , 1997, 422, 13-19.	3.8	6
44	Impedance aspects of anion adsorption on gold single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 414, 209-220.	3.8	63
45	Impedance aspects of anion adsorption on gold single crystal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 414, 209-220.	3.8	182
46	Impedance of rough capacitive electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 364, 111-125.	3.8	523
47	Method-independent representation of polarographic and voltammetric measurement results of reversible redox couples. <i>Journal of Electroanalytical Chemistry</i> , 1994, 364, 229-234.	3.8	14
48	Diffusion kinetics at fractal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 366, 69-73.	3.8	41
49	MORPHOLOGY OF COBALT ELECTRODEPOSITS. <i>Fractals</i> , 1993, 01, 59-66.	3.7	7
50	Electrochemistry at fractal interfaces. , 1992, , .		0
51	Electrochemical determination of the fractal dimension of fractured surfaces. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 1819-1826.	1.8	92
52	Impedance of planar electrodes with scale-invariant capacitance distribution. <i>Journal of Electroanalytical Chemistry</i> , 1992, 332, 55-61.	3.8	20
53	Electrochemistry at fractal surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 300, 1-11.	0.1	188
54	Diffusion to fractal surfaces~V. quasi-random interfaces. <i>Electrochimica Acta</i> , 1991, 36, 163-165.	5.2	40

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55	Search for neutrons from cold nuclear fusion. Journal of Radioanalytical and Nuclear Chemistry, 1990, 145, 327-337.	1.5	2
56	Diffusion to fractal surfacesâ€™IV. The case of the rotating disc electrode of fractal surface. Electrochimica Acta, 1990, 35, 1423-1424.	5.2	22
57	Electrochemistry at fractal interfaces: the coupling of ac and dc behaviour at irregular electrodes. Electrochimica Acta, 1990, 35, 1567-1572.	5.2	74
58	Tafel current at fractal electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 285, 103-115.	0.1	207
59	Scaling-law analysis to describe the impedance behavior of fractal electrodes. Physical Review B, 1990, 42, 709-719.	3.2	73
60	Diffusion to fractal surfacesâ€™II. Verification of theory. Electrochimica Acta, 1989, 34, 171-179.	5.2	222
61	Diffusion to fractal surfacesâ€™III. Linear sweep and cyclic voltammograms. Electrochimica Acta, 1989, 34, 181-186.	5.2	100
62	Comments on J. C. Wang's paper on the impedance of a fractal electrolyteâ€™electrode interface. Electrochimica Acta, 1988, 33, 713-715.	5.2	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.	2.9	70
66	Diffusion to fractal surfaces. Electrochimica Acta, 1986, 31, 1347-1350.	5.2	169
67	Electron Transfer at the WO ₃ /Electrolyte Interface under Controlled Mass Transfer Conditions. Journal of the Electrochemical Society, 1986, 133, 331-336.	2.9	19
68	Photoelectrochemical studies of gamma-irradiated iron oxides. Radiation Physics and Chemistry (1977), 1985, 26, 527-530.	0.3	2
69	Fractal dimension and fractional power frequency-dependent impedance of blocking electrodes. Electrochimica Acta, 1985, 30, 1533-1540.	5.2	444
70	Fast algorithm for differintegration. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 179, 65-69.	0.1	8
71	Mechanism of Hole Injection on Ferric Oxide Photoelectrodes. Journal of the Electrochemical Society, 1983, 130, 632-635.	2.9	11
72	Discussion of Equivalent Circuit Analysis of the Impedance Response of Semiconductor/Electrolyte/Counter-electrode Cellsâ€™. J. F. McCann and S. P. S. Badwal (pp. 551â€“559, Vol.) J Electroanal Chem 1990, 279, 1-10	0.0	0

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73	Transformation to potential-program invariant form of voltammograms and dynamic electrochemical impedance spectra of surface confined redox species. <i>Electrochemical Science Advances</i> , 0, , e2000039.	2.8	3