

Jan Langmaier

List of Publications by Year in descending order

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71
papers

1,746
citations

201385

27
h-index

301761

39
g-index

71
all docs

71
docs citations

71
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of the redox and excited state properties of (nBu ₄ N) ₂ [Mo ₆ X ₁₄] and (nBu ₄ N) ₂ [Mo ₆ X ₈ (CF ₃ COO) ₆] (X = Cl, Br, or I). Dalton Transactions, 2013, 42, 7224.	1.6	123
2	Polarization phenomena at the water o-nitrophenyl octyl ether interface. Part 1. Evaluation of the standard Gibbs energies of ion transfer from the solubility and voltammetric measurements. Journal of Electroanalytical Chemistry, 1996, 409, 1-7.	1.9	74
3	Charge-transfer processes at the interface between hydrophobic ionic liquid and water. Pure and Applied Chemistry, 2009, 81, 1473-1488.	0.9	72
4	Electrocatalysis of the oxygen reduction at a polarised interface between two immiscible electrolyte solutions by electrochemically generated Pt particles. Electrochemistry Communications, 2006, 8, 475-481.	2.3	66
5	Sensitive layer for electrochemical detection of hydrogen cyanide. Analytical Chemistry, 1992, 64, 523-527.	3.2	63
6	Random nucleation and growth of Pt nanoparticles at the polarised interface between two immiscible electrolyte solutions. Journal of Electroanalytical Chemistry, 2007, 599, 160-166.	1.9	59
7	Substituent effects in cyclic voltammetry of titanocene dichlorides. Journal of Organometallic Chemistry, 1999, 579, 348-355.	0.8	58
8	Cyclic voltammetry of biopolymer heparin at PVC plasticized liquid membrane. Electrochemistry Communications, 2003, 5, 867-870.	2.3	58
9	Cyclic voltammetry of ion transfer across a room temperature ionic liquid membrane supported by a microporous filter. Electrochemistry Communications, 2007, 9, 2633-2638.	2.3	56
10	Cyclic and convolution potential sweep voltammetry of reversible ion transfer across a liquid membrane. Journal of Electroanalytical Chemistry, 2000, 481, 1-6.	1.9	55
11	Voltammetry of Ion Transfer across a Polarized Room-Temperature Ionic Liquid Membrane Facilitated by Valinomycin: Theoretical Aspects and Application. Analytical Chemistry, 2009, 81, 6382-6389.	3.2	48
12	Electrochemical evidence of catalysis of oxygen reduction at the polarized liquid-liquid interface by tetraphenylporphyrin monoacid and diacid. Electrochemistry Communications, 2009, 11, 1940-1943.	2.3	43
13	Evaluation of the standard ion transfer potentials for PVC plasticized membranes from voltammetric measurements. Journal of Electroanalytical Chemistry, 2001, 496, 143-147.	1.9	42
14	Counterion binding to protamine polyion at a polarised liquid-liquid interface. Journal of Electroanalytical Chemistry, 2007, 603, 235-242.	1.9	40
15	Transfer of Protonated Anesthetics across the Water o-Nitrophenyl Octyl Ether Interface: Effect of the Ion Structure on the Transfer Kinetics and Pharmacological Activity.. Analytical Sciences, 1998, 14, 35-41.	0.8	39
16	Potentiometric Sensor for Heparin Polyion: Transient Behavior and Response Mechanism. Analytical Chemistry, 2007, 79, 2892-2900.	3.2	38
17	Amperometry of Heparin Polyion Using a Rotating Disk Electrode Coated with a Plasticized PVC Membrane. Electroanalysis, 2006, 18, 115-120.	1.5	35
18	Polarization phenomena at the water o-nitrophenyl octyl ether interface Part II. Role of the solvent viscosity in the kinetics of the tetraethylammonium ion transfer. Journal of Electroanalytical Chemistry, 1997, 426, 37-45.	1.9	34

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19	Amperometric Sensor for Heparin: Sensing Mechanism and Application in Human Blood Plasma Analysis. <i>Electroanalysis</i> , 2006, 18, 1329-1338.	1.5	31
20	Fine tuning of the catalytic effect of a metal-free porphyrin on the homogeneous oxygen reduction. <i>Chemical Communications</i> , 2011, 47, 5446-5448.	2.2	31
21	Amperometric Ion-Selective Electrode for Alkali Metal Cations Based on a Room-Temperature Ionic Liquid Membrane. <i>Electroanalysis</i> , 2009, 21, 1977-1983.	1.5	30
22	Electrochemical quantification of 2,6-diisopropylphenol (propofol). <i>Analytica Chimica Acta</i> , 2011, 704, 63-67.	2.6	30
23	Polarization phenomena at the water- ω -nitrophenyl octyl ether interface. <i>Journal of Electroanalytical Chemistry</i> , 1999, 463, 232-241.	1.9	29
24	Cyclic voltammetry of methyl- and trimethylsilyl-substituted zirconocene dichlorides. <i>Journal of Organometallic Chemistry</i> , 1999, 584, 323-328.	0.8	29
25	How To Assess the Limits of Ion-Selective Electrodes: A Method for the Determination of the Ultimate Span, Response Range, and Selectivity Coefficients of Neutral Carrier-Based Cation Selective Electrodes. <i>Analytical Chemistry</i> , 2006, 78, 942-950.	3.2	28
26	Mathematical Model of Current-Polarized Ionophore-Based Ion-Selective Membranes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2008-2015.	1.2	28
27	Electrochemical Oxidation of 8-Oxo-2-Deoxyguanosine on Glassy Carbon, Gold, Platinum and Tin(IV) Oxide Electrodes. <i>Electroanalysis</i> , 2003, 15, 1555-1560.	1.5	27
28	Indicator and reference platinum solid polymer electrolyte electrodes for a simple solid-state amperometric hydrogen sensor. <i>Journal of Electroanalytical Chemistry</i> , 1994, 379, 301-306.	1.9	25
29	Amperometric solid-state NO ₂ sensor based on plasticized PVC matrix containing a hydrophobic electrolyte. <i>Sensors and Actuators B: Chemical</i> , 1997, 41, 1-6.	4.0	25
30	Doxorubicin determination using two novel voltammetric approaches: A comparative study. <i>Electrochimica Acta</i> , 2020, 330, 135180.	2.6	23
31	Origin of Difference between One-Electron Redox Potentials of Guanosine and Guanine: An Electrochemical and Quantum Chemical Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15896-15899.	1.2	22
32	Thermodynamic driving force effects in the oxygen reduction catalyzed by a metal-free porphyrin. <i>Electrochimica Acta</i> , 2012, 82, 457-462.	2.6	22
33	Origin of the effect of ion nature on the differential capacity of an interface between two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry</i> , 1998, 444, 1-5.	1.9	20
34	Detrimental changes in the composition of hydrogen ion-selective electrode and optode membranes. <i>Analytica Chimica Acta</i> , 2005, 543, 156-166.	2.6	20
35	Current-polarized ion-selective membranes: The influence of plasticizer and lipophilic background electrolyte on concentration profiles, resistance, and voltage transients. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 410-418.	4.0	20
36	Extreme Basicity of Biguanide Drugs in Aqueous Solutions: Ion Transfer Voltammetry and DFT Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7344-7350.	1.1	20

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37	Charge transfer in porphyrin-calixarene complexes: ultrafast kinetics, cyclic voltammetry, and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6947.	1.3	19
38	Electrocatalytic reduction of halothane. <i>Journal of Electroanalytical Chemistry</i> , 1996, 402, 107-113.	1.9	18
39	New electrochemical sensors. <i>Analytical Proceedings</i> , 1991, 28, 366.	0.4	16
40	Inhibitory Effect of Water on the Oxygen Reduction Catalyzed by Cobalt(II) Tetraphenylporphyrin. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2018-2028.	1.1	16
41	Evaluation of parasitic elements contributing to experimental cell impedance: impedance measurements at interfaces between two immiscible electrolyte solutions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3843-3849.	1.7	15
42	Voltammetry of Protonated Anesthetics at a Liquid Membrane: Evaluation of the Drug Propagation. <i>Electroanalysis</i> , 2000, 12, 901-904.	1.5	14
43	Determination of urinary 8-hydroxy-2'-deoxyguanosine in obese patients by HPLC with electrochemical detection. <i>Analytica Chimica Acta</i> , 2004, 516, 107-110.	2.6	14
44	Kinetics of the ferric/ferrous electrode reaction on Nafion®-coated electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 469, 11-17.	1.9	13
45	Use of the 1,1'-dimethylferrocene oxidation process for the calibration of the reference electrode potential in organic solvents immiscible with water. <i>Journal of Electroanalytical Chemistry</i> , 2008, 616, 57-63.	1.9	12
46	Charge transfer resistance and differential capacity of the plasticized PVC membrane water interface. <i>Journal of Electroanalytical Chemistry</i> , 2002, 521, 81-86.	1.9	11
47	Mechanistic model of the oxygen reduction catalyzed by a metal-free porphyrin in one- and two-phase liquid systems. <i>Electrochimica Acta</i> , 2013, 110, 816-821.	2.6	11
48	Simple, Single Step Potential Difference Measurement for the Determination of the Ultimate Detection Limit of Ion Selective Electrodes. <i>Electroanalysis</i> , 2006, 18, 1245-1253.	1.5	9
49	Electron transfer across the polarized interface between water and a hydrophobic redox-active ionic liquid. <i>Electrochemistry Communications</i> , 2010, 12, 1333-1335.	2.3	9
50	Lipophilicity of acetylcholine and related ions examined by ion transfer voltammetry at a polarized room-temperature ionic liquid membrane. <i>Journal of Electroanalytical Chemistry</i> , 2018, 815, 183-188.	1.9	9
51	Some potentiometric sensors with low output impedance. <i>Analytica Chimica Acta</i> , 1983, 148, 19-25.	2.6	8
52	Thermodynamic aspects of the electron transfer across the interface between water and a hydrophobic redox-active ionic liquid. <i>Electrochimica Acta</i> , 2011, 58, 606-613.	2.6	8
53	Competitive inhibition of a metal-free porphyrin oxygen-reduction catalyst by water. <i>Chemical Communications</i> , 2012, 48, 4094.	2.2	8
54	Origin of the correlation between the standard Gibbs energies of ion transfer from water to a hydrophobic ionic liquid and to a molecular solvent. <i>Electrochimica Acta</i> , 2013, 87, 591-598.	2.6	8

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55	Voltammetric and capillary electrophoretic study of scavenger kinetics of methylglyoxal by antidiabetic biguanide drugs. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 26-32.	1.9	7
56	Determination of total sulphur and nitrogen in crude oil products by oxidative pyrolysis with detection using a metal-plated membrane electrode. <i>Analyst, The</i> , 1988, 113, 501-503.	1.7	6
57	Negative Impedance of the Nafion Membrane Between Two Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2740-2746.	1.3	6
58	A junction-free copper reference electrode for electrochemical measurements in o-nitrophenyl octyl ether. <i>Journal of Electroanalytical Chemistry</i> , 2002, 528, 77-81.	1.9	6
59	Correlation between the standard Gibbs energies of an anion transfer from water to highly hydrophobic ionic liquids and to 1,2-dichloroethane. <i>Journal of Electroanalytical Chemistry</i> , 2014, 714-715, 109-115.	1.9	6
60	Detection of antimuscarinic agents tolterodine and fesoterodine and their metabolite 5-hydroxymethyl tolterodine by ion transfer voltammetry at a polarized room-temperature ionic liquid membrane. <i>Electrochimica Acta</i> , 2019, 304, 54-61.	2.6	6
61	Screen-printed amalgam electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130583.	4.0	6
62	Electroanalysis of Fentanyl and Its New Analogs: A Review. <i>Biosensors</i> , 2022, 12, 26.	2.3	6
63	A simple laboratory generator for low concentrations of sulphur dioxide. <i>Analytica Chimica Acta</i> , 1985, 166, 305-310.	2.6	4
64	Transfer of heparin polyion across a polarized water/ionic liquid membrane interface. <i>Electrochemistry Communications</i> , 2012, 24, 25-27.	2.3	4
65	Determination of subnanogram amounts of sulfur dioxide and sulfites by pneumatopotentiometry. <i>Collection of Czechoslovak Chemical Communications</i> , 1986, 51, 2077-2082.	1.0	3
66	Voltammetry of Several Natural and Synthetic Opioids at a Polarized Ionic Liquid Membrane. <i>ChemElectroChem</i> , 2021, 8, 2519-2525.	1.7	2
67	Electrochemically-controlled generation of small amounts of carbon monoxide. <i>Talanta</i> , 1992, 39, 367-369.	2.9	1
68	Automatic coulometric titrator with optical indication for acidity number determination. <i>Electroanalysis</i> , 1994, 6, 606-608.	1.5	1
69	Voltammetry of Protonated Anesthetics at a Liquid Membrane: Evaluation of the Drug Propagation. , 2000, 12, 901.		1
70	Wall-jet ion sensor based on ion transfer processes at a polarized room-temperature ionic liquid membrane. <i>Journal of Electroanalytical Chemistry</i> , 2020, 861, 113948.	1.9	0
71	Adsorption of Gaseous Propylamine on Films of Polypyrrole in Different Oxidation States. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1-12.	1.0	0