List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	ELSIM—a problem-solving environment for electrochemical kinetic simulations. Version 3.0-solution of governing equations associated with interfacial species, independent of spatial coordinates or in one-dimensional space geometry. Computers & Chemistry, 1997, 21, 1-12.	1.2	63
2	ELSIM—A user-friendly PC program for electrochemical kinetic simulations. Version 1.0—Solution of integral equations for linear scan and cyclic voltammetry. Computers & Chemistry, 1992, 16, 11-14.	1.2	50
3	Finite-difference electrochemical kinetic simulations using the Rosenbrock time integration scheme. Journal of Electroanalytical Chemistry, 1999, 469, 97-115.	1.9	45
4	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 2000, 481, 115-133.	1.9	43
5	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 1993, 360, 119-138.	1.9	41
6	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 1994, 374, 1-22.	1.9	35
7	Automatic derivation of the governing equations that describe a transient electrochemical experiment, given a reaction mechanism of arbitrary complexity. Part 2. Governing equations in one-dimensional geometry. Journal of Electroanalytical Chemistry, 1996, 406, 45-52.	1.9	35
8	An adaptive Huber method with local error control, for the numerical solution of the first kind Abel integral equations. Computing (Vienna/New York), 2008, 83, 25-39.	3.2	35
9	The von Neumann stability of finite-difference algorithms for the electrochemical kinetic simulation of diffusion coupled with homogeneous reactions. Journal of Electroanalytical Chemistry, 1993, 345, 13-25.	1.9	34
10	ELSIM—A PC program for electrochemical kinetic simulations. Version 2.0—solution of the sets of kinetic partial differential equations in one-dimensional geometry, using finite difference and orthogonal collocation methods. Computers & Chemistry, 1993, 17, 355-368.	1.2	33
11	A study of ion transfer across the interface of two immiscible electrolyte solutions by chronopotentiometry with cyclic linear current-scanning. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 189, 1-20.	0.3	32
12	A reaction compiler for electrochemical kinetics. Computers & Chemistry, 1996, 20, 403-418.	1.2	32
13	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 1994, 374, 23-35.	1.9	29
14	An adaptive Huber method for weakly singular second kind Volterra integral equations with non-linear dependencies between unknowns and their integrals. Computing (Vienna/New York), 2010, 87, 35-54.	3.2	29
15	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 1994, 379, 71-87.	1.9	27
16	Automatic derivation of the governing equations that describe a transient electrochemical experiment, given a reaction mechanism of arbitrary complexity. Part 1. Problem parameters and initial conditions. Journal of Electroanalytical Chemistry, 1996, 406, 33-43.	1.9	27
17	Use of sensitivity analysis methods in the modelling of electrochemical transients. Journal of Electroanalytical Chemistry, 1998, 458, 209-229.	1.9	27
18	Cyclic Voltammetric Current Functions Determined with a Prescribed Accuracy by the Adaptive Huber Method for Abel Integral Equations. Analytical Chemistry, 2008, 80, 9659-9665.	3.2	26

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19	Initialisation of the adaptive Huber method for solving the first kind Abel integral equation. Computing (Vienna/New York), 2008, 83, 163-174.	3.2	25
20	Automatic simulation of cyclic voltammograms by the adaptive Huber method for weakly singular second kind Volterra integral equations. Electrochimica Acta, 2010, 55, 721-728.	2.6	25
21	An adaptive Huber method for non-linear systems of weakly singular second kind Volterra integral equations. Applied Mathematics and Computation, 2011, 217, 5622-5631.	1.4	25
22	Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 304, 111-121.	0.3	24
23	Numerical stability of finite difference algorithms for electrochemical kinetic simulations: Matrix stability analysis of the classic explicit, fully implicit and Crank-Nicolson methods and typical problems involving mixed boundary conditions. Computers & Chemistry, 1995, 19, 121-136.	1.2	24
24	Extension of the Thomas Algorithm to a Class of Algebraic Linear Equation Systems Involving Quasi-Block-Tridiagonal Matrices with Isolated Block-Pentadiagonal Rows, Assuming Variable Block Dimensions. Computing (Vienna/New York), 2001, 67, 269-285.	3.2	24
25	High order accurate, one-sided finite-difference approximations to concentration gradients at the boundaries, for the simulation of electrochemical reaction-diffusion problems in one-dimensional space geometry. Computational Biology and Chemistry, 2003, 27, 315-325.	1.1	23
26	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 2000, 481, 152-167.	1.9	22
27	Use of the Numerov method to improve the accuracy of the spatial discretisation in finite-difference electrochemical kinetic simulations. Computers & Chemistry, 2002, 26, 633-644.	1.2	22
28	Automatic simulation of cyclic voltammograms by the adaptive Huber method for systems of weakly singular Volterra integral equations. Journal of Electroanalytical Chemistry, 2010, 642, 127-134.	1.9	22
29	Automatic simulation of electrochemical transients at cylindrical wire electrodes, by the adaptive Huber method for Volterra integral equations. Journal of Electroanalytical Chemistry, 2011, 662, 371-378.	1.9	22
30	Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 304, 101-109.	0.3	21
31	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 2002, 527, 1-10.	1.9	21
32	An efficient numerical method of solving integral equations for cyclic voltammetry. Journal of Electroanalytical Chemistry, 1993, 347, 15-30.	1.9	19
33	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Patch-adaptive simulation of moving fronts in non-linear diffusion models of the switching of conductive polymers. Electrochemistry Communications, 2001, 3, 149-153.	2.3	19
34	Extraction of Parameters and Their Error Distributions from Cyclic Voltammograms Using Bootstrap Resampling Enhanced by Solution Maps:Â Computational Study. Analytical Chemistry, 2006, 78, 8430-8437.	3.2	19
35	Automatic solution of integral equations pertinent to diffusion with first order homogeneous reactions at cylindrical wire electrodes. Journal of Electroanalytical Chemistry, 2012, 674, 38-47.	1.9	19
36	Use of sensitivity analysis methods in the modelling of electrochemical transients Part 1. Gaining more insight into the behaviour of kinetic models. Journal of Electroanalytical Chemistry, 1998, 441, 271-285.	1.9	18

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37	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 2000, 481, 134-151.	1.9	18
38	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Part 15: patch-adaptive simulation of example transient experiments described by Nernst–Planck–electroneutrality equations in one-dimensional space geometry. Journal of Electroanalytical Chemistry, 2004, 565, 273-285.	1.9	18
39	A highly accurate, inexpensive procedure for computing integral transformation kernel and its moment integrals for cylindrical wire electrodes. Journal of Electroanalytical Chemistry, 2011, 661, 280-286.	1.9	18
40	Influence of diffusion coefficient ratio on potential-step chronoamperometric and linear voltammetric current at stationary planar electrodes in the case of a pseudo-first-order EC catalytic reaction scheme. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 170, 77-87.	0.3	17
41	A highly accurate, inexpensive procedure for computing theoretical chronoamperometric current at cylindrical wire electrodes. Electrochimica Acta, 2011, 56, 6982-6988.	2.6	17
42	Electrochemical kinetic simulations of mixed diffusion/homogeneous reaction problems by the Saul'yev finite difference algorithms. Analytica Chimica Acta, 1993, 278, 59-70.	2.6	16
43	A method-oriented approach to the formulation of algorithms for electrochemical kinetic simulations. Part 2. Extension to kinetic problems characterized by the simultaneous presence of bulk and interfacial species. Journal of Electroanalytical Chemistry, 1996, 404, 195-208.	1.9	16
44	Improving the accuracy of the spatial discretization in finite-difference electrochemical kinetic simulations, by means of the extended Numerov method. Journal of Computational Chemistry, 2004, 25, 1075-1083.	1.5	16
45	A New Theory of Potential Step Chronoamperometry at a Microdisk Electrode: Complete Explicit Semi-Analytical Formulae for the Faradaic Current Density and the Faradaic Current. Electrochimica Acta, 2016, 199, 1-11.	2.6	16
46	A method-oriented approach to the formulation of algorithms for electrochemical kinetic simulations. Journal of Electroanalytical Chemistry, 1992, 340, 19-34.	1.9	15
47	Kinetics of the oxygen electrode reaction in molten Li + Na carbonate eutectic. Journal of Electroanalytical Chemistry, 1993, 353, 195-208.	1.9	15
48	Theory of linear sweep/cyclic voltammetry for the electrochemical reaction mechanism involving a redox catalyst couple attached to a spherical electrode. Electrochimica Acta, 2010, 56, 543-552.	2.6	15
49	Highly accurate, inexpensive procedures for computing theoretical chronoamperometric currents at single straight electrode edges and at single microband electrodes. Journal of Electroanalytical Chemistry, 2016, 760, 71-79.	1.9	15
50	An efficient numerical method of solving the Abel integral equation for cyclic voltammetry. Computers & Chemistry, 1992, 16, 311-317.	1.2	14
51	Numerical stability of the Saul'yev finite difference algorithms for electrochemical kinetic simulations: Matrix stability analysis for an example problem involving mixed boundary conditions. Computers & Chemistry, 1995, 19, 357-370.	1.2	14
52	The effect of the discretization of the mixed boundary conditions on the numerical stability of the Crank-Nicolson algorithm of electrochemical kinetic simulations. Computers & Chemistry, 1997, 21, 391-401.	1.2	14
53	Theory of Potential Step Chronoamperometry at a Microband Electrode: Complete Explicit Semi-Analytical Formulae for the Faradaic Current Density and the Faradaic Current. Electrochimica Acta, 2015, 178, 25-33.	2.6	14
54	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Advantage of time step adaptation, using example of current spikes in linear potential sweep voltammograms for the EqrevEqrev-DISP reaction mechanism. Electrochemistry Communications, 2002, 4, 5-10.	2.3	13

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55	Analytical formulae for chronoamperometry of a charge neutralisation process under conditions of linear migration and diffusion. Electrochemistry Communications, 2002, 4, 917-921.	2.3	13
56	Comments on the paper by M. Rudolph, entitled "Digital simulations on unequally spaced grids. Part 1. Critical remarks on using the point method by discretisation on a transformed gridâ€: Journal of Electroanalytical Chemistry, 2003, 558, 167-170.	1.9	13
57	Use of dynamically adaptive grid techniques for the solution of electrochemical Rinetic equations. Part 14: extension of the patch-adaptive strategy to time-dependent models involving migration–diffusion transport in one-dimensional space geometry, and its application to example transient experiments described by Nernst–Planck–Poisson equations. Journal of Electroanalytical	1.9	13
58	Chemistry, 2004 565, 200251. Automatic simulation of electrochemical transients assuming finite diffusion space at planar interfaces, by the adaptive Huber method for Volterra integral equations. Journal of Electroanalytical Chemistry, 2012, 684, 20-31.	1.9	13
59	Automatic simulation of electrochemical transients by the adaptive Huber method for Volterra integral equations involving Kernel terms exp[â^'α(t â^' Ï,,)]erex{[β(t â^' Ï,,)]1/2} and exp[â^'α(t â^' Ï,,)]daw {[β(t â Journal of Mathematical Chemistry, 2012, 50, 765-781.	^ɑ̈́,⁊)]1/2}.	13
60	Highly accurate, efficient, and automatic computation of reversible cyclic voltammograms, using double exponential formulas for numerical integration. Journal of Electroanalytical Chemistry, 2018, 808, 195-203.	1.9	13
61	Numerical stability of finite difference algorithms for electrochemical kinetic simulations. Matrix stability analysis of the classic explicit, fully implicit and Crank-Nicolson methods, extended to the 3-and 4-point gradient approximation at the electrodes. Computers & Chemistry, 1995, 19, 351-355.	1.2	12
62	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Part 12. Patch-adaptive simulation of example transient experiments described by kinetic models defined over multiple space intervals in one-dimensional space geometry. Journal of Electroanalytical Chemistry, 2002, 527, 21-32.	1.9	12
63	The combined unidirectional and local coupling in a spatially one-dimensional model of oscillatory metal electrodissolution. Patch-adaptive simulation study. Physical Chemistry Chemical Physics, 2003, 5, 1831-1841.	1.3	12
64	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Electrochimica Acta, 2007, 52, 3929-3940.	2.6	12
65	Analysis of the applicability of the integral equation method in the theory of transient electroanalytical experiments for homogeneous reaction–diffusion systems: The case of planar electrodes. Journal of Electroanalytical Chemistry, 2011, 657, 91-97.	1.9	12
66	Extension of the Adaptive Huber Method for Solving Integral Equations Occurring in Electroanalysis, onto Kernel Function Representing Fractional Diffusion. Electroanalysis, 2011, 23, 1506-1511.	1.5	12
67	Highly accurate, inexpensive procedures for computing chronoamperometric current, integral transformation kernel, and related integrals, for an inlaid disk electrode. Electrochimica Acta, 2018, 259, 1068-1080.	2.6	12
68	Efficiency of Electrochemical Kinetic Simulations by Orthogonal Collocation and Finite Difference Methods. A Comparison Acta Chemica Scandinavica, 1993, 47, 757-767.	0.7	12
69	Chronopotentiometry at a microband electrode: simulation study using a Rosenbrock time integration scheme for differential–algebraic equations and a direct sparse solver. Journal of Electroanalytical Chemistry, 2001, 503, 141-152.	1.9	11
70	A fourth-order accurate, three-point compact approximation of the boundary gradient, for electrochemical kinetic simulations by the extended Numerov method. Electrochimica Acta, 2007, 52, 2203-2209.	2.6	11
71	Electrocatalysis at Modified Microelectrodes: A Theoretical Approach to Cyclic Voltammetry. Journal of Physical Chemistry C, 2010, 114, 14542-14551.	1.5	11
72	Automatic solution of integral equations describing electrochemical transients under conditions of internal spherical diffusion. Journal of Electroanalytical Chemistry, 2013, 694, 104-113.	1.9	11

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73	A specialised cyclic reduction algorithm for linear algebraic equation systems with quasi-tridiagonal matrices. Journal of Mathematical Chemistry, 2017, 55, 1793-1807.	0.7	11
74	Automatic solution of the Singh and Dutt integral equations for channel or tubular electrodes, by the adaptive Huber method. Journal of Electroanalytical Chemistry, 2013, 693, 95-104.	1.9	10
75	Automatic solution of integral equations describing electrochemical transients under conditions of internal cylindrical diffusion. Journal of Electroanalytical Chemistry, 2013, 700, 30-39.	1.9	10
76	Linear voltammetric current functions for a pseudo-first-order EC catalytic reaction scheme with DO ≠DR: Series expansion algorithm. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 188, 13-20.	0.3	9
77	Use of sensitivity analysis methods in the modelling of electrochemical transients Journal of Electroanalytical Chemistry, 1998, 447, 173-186.	1.9	9
78	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations. Journal of Electroanalytical Chemistry, 2002, 527, 11-20.	1.9	9
79	Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations Journal of Electroanalytical Chemistry, 2002, 529, 51-58.	1.9	9
80	A fourth-order accurate, Numerov-type, three-point finite-difference discretization of electrochemical reaction-diffusion equations on nonuniform (exponentially expanding) spatial grids in one-dimensional space geometry. Journal of Computational Chemistry, 2004, 25, 1515-1521.	1.5	9
81	A set of compact finite-difference approximations to first and second derivatives, related to the extended Numerov method of Chawla on nonuniform grids. Computing (Vienna/New York), 2007, 81, 77-89.	3.2	9
82	A procedure for rapid and highly accurate computation of Marcus–Hush–Chidsey rate constants. Journal of Electroanalytical Chemistry, 2012, 683, 112-118.	1.9	9
83	Analytical Expressions for the Steady-State Concentrations of Glucose, Oxygen and Gluconic Acid in a Composite Membrane for Closed-Loop Insulin Delivery. Journal of Membrane Biology, 2013, 246, 121-129.	1.0	9
84	An adaptive Huber method for nonlinear systems of Volterra integral equations with weakly singular kernels and solutions. Journal of Computational and Applied Mathematics, 2017, 323, 136-146.	1.1	9
85	Highly accurate and inexpensive procedures for computing chronoamperometric currents for the catalytic EC' reaction mechanism at an inlaid disk electrode. Electrochimica Acta, 2019, 298, 924-933.	2.6	9
86	A singularity correction procedure for digital simulation of potential-step chronoamperometric transients in one-dimensional homogeneous reaction–diffusion systems. Electrochimica Acta, 2005, 50, 3253-3261.	2.6	8
87	Automatic solution of integral equations describing electrochemical transients at dropping mercury electrodes. Journal of Electroanalytical Chemistry, 2013, 705, 44-51.	1.9	8
88	A new theory, and automatic computation of reversible cyclic voltammograms at a microband electrode. Journal of Electroanalytical Chemistry, 2016, 767, 123-133.	1.9	8
89	A reliable automatic simulation of singular electroanalytical transients, by the adaptive Huber method for Volterra integral equations. Journal of Electroanalytical Chemistry, 2017, 799, 40-52.	1.9	8
90	High-Dimensional Model Representation of Cyclic Voltammograms. Analytical Chemistry, 2006, 78, 1807-1816.	3.2	7

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91	Experiments with a local adaptive grid h-refinement for the finite-difference solution of BVPs in singularly perturbed second-order ODEs. Applied Mathematics and Computation, 2008, 195, 196-219.	1.4	7
92	Adaptive solution of BVPs in singularly perturbed second-order ODEs, by the extended Numerov method combined with an iterative local grid h-refinement. Applied Mathematics and Computation, 2008, 198, 665-682.	1.4	6
93	A Fifth (Six) Order Accurate, Three-Point Compact Finite Difference Scheme for the Numerical Solution of Sixth Order Boundary Value Problems on Geometric Meshes. Journal of Scientific Computing, 2015, 64, 898-913.	1.1	6
94	Experiments with an adaptive multicut-HDMR map generation for slowly varying continuous multivariate functions. Applied Mathematics and Computation, 2015, 258, 206-219.	1.4	5
95	A new theory and automatic computation of reversible cyclic voltammograms at an inlaid disk electrode. Electrochimica Acta, 2018, 264, 410-420.	2.6	5
96	Extension of the adaptive Huber method for Volterra integral equations arising in electroanalytical chemistry, to convolution kernels exp [â´Î± (t-ï")] erex {[l²(t-ï")]1/2} and exp [â´Î±(t-ï")] daw {[l²(t-ï")]1/2}. Journ Computational Methods in Sciences and Engineering, 2011, 11, 323-338.	abof	5
97	The potential-step method theory for a linked mechanism involving an adsorption step, a charge-transfer step and diffusion, in the case of very low coverages of the intermediate. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 195, 419-424.	0.3	4
98	Use of potential-step formulae to reduce computational time in the simulation of linear voltammetry by orthogonal collocation. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 208, 165-168.	0.3	4
99	Two new compact finite-difference schemes for the solution of boundary value problems in second-order non-linear ordinary differential equations, using non-uniform grids. Journal of Computational Methods in Sciences and Engineering, 2008, 8, 3-18.	0.1	4
100	Theory of chronoamperometry for the catalytic EC′ mechanism at a band electrode: Highly accurate and efficient computation of the Faradaic currents. Journal of Electroanalytical Chemistry, 2019, 841, 158-165.	1.9	4
101	A reliable automatic simulation of singular transients by the adaptive Huber method: The case of homogeneous reactions at planar and spherical electrodes. Electrochimica Acta, 2019, 297, 463-478.	2.6	4
102	Chronoamperometry for reversible charge transfers at cylindrical wire electrodes: Theory for DOÂâ‰ÂDR, and a highly accurate computation of the current. Journal of Electroanalytical Chemistry, 2021, 880, 114650.	1.9	4
103	Catalytic ErevCrev′ mechanism at cylindrical wire electrodes: Theory of controlled-potential transients assuming DOÂ=ÂDR, and highly accurate computation of chronoamperograms and cyclic Theory ang highly accurate computation of hone and highly accurate computation of the second	1.9	4
104	the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si25.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">E</mml:mi </mml:mrow><mml:mrow><mml:mi mathvariant="normal">rev</mml:mi </mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi< td=""><td>1.9</td><td>4</td></mml:mi<></mml:mrow></mml:msub></mml:mrow></mml:math>	1.9	4
105	mathvariant="normal">C <mml:mrow><mml:mi Simulation of "cyclic voltammetry for the linked mechanism of the hydrogen electrode reaction in molten carbonates. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 249, 155-165.</mml:mi </mml:mrow>	0.3	3
106	A New Theory of Potential Step Chronoamperometry at Hemispheroidal Electrodes: Complete Explicit Semi-Analytical Formulae for the Faradaic Current Density and the Faradaic Current. Journal of Electroanalytical Chemistry, 2017, 784, 91-101.	1.9	3
107	A NonLinear Transient Reaction-Diffusion Problem from Electroanalytical Chemistry. SIAM Journal on Applied Mathematics, 2021, 81, 208-232.	0.8	3
108	The linked mechanism of the hydrogen electrode reaction in molten carbonates. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 197, 387-393.	0.3	2

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109	A Unifying View of Computational Electrochemistry. AIP Conference Proceedings, 2007, , .	0.3	2
110	Numerical Solution Methods. Monographs in Electrochemistry, 2015, , 269-304.	0.2	2
111	Singular transients in the presence of homogeneous reactions at cylindrical wire electrodes: Simulation by the adaptive Huber method for integral equations. Journal of Electroanalytical Chemistry, 2022, 907, 116027.	1.9	2
112	Monte Carlo simulation of the emergency shutdown system for the high-temperature pebble-bed nuclear reactor. Annals of Nuclear Energy, 1983, 10, 299-303.	0.9	1
113	Value of the exponential current–time perturbation for achieving stationary polarisation curves at planar and spherical electrodes of any size. Electrochimica Acta, 2010, 55, 9010-9018.	2.6	1
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