

Jorg Strutwolf

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95 papers	1,411 citations	23 h-index	31 g-index
103 ext. papers	1,528 ext. citations	3.9 avg, IF	4.63 L-index

#	Paper	IF	Citations
95	Introduction: Proceedings of the First and Second European Workshops on Preterm Labour of the Special Non-Invasive Advances in Fetal and Neonatal Evaluation (SAFE) Network of Excellence. <i>BMC Pregnancy and Childbirth</i> , 2007 , 7,	3.2	78
94	Electrochemical ion transfer across liquid/liquid interfaces confined within solid-state micropore arrays--simulations and experiments. <i>Analyst, The</i> , 2009 , 134, 148-58	5	61
93	Probing liquid liquid interfaces using neutron reflection measurements and scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 483, 163-173	4.1	53
92	Ion-transfer electrochemistry at arrays of nanointerfaces between immiscible electrolyte solutions confined within silicon nitride nanopore membranes. <i>Analytical Chemistry</i> , 2010 , 82, 6115-23	7.8	51
91	Interactions of proteins with small ionised molecules: electrochemical adsorption and facilitated ion transfer voltammetry of haemoglobin at the liquid/liquid interface. <i>Analyst, The</i> , 2009 , 134, 1608-13	5	51
90	Single nanoskived nanowires for electrochemical applications. <i>Analytical Chemistry</i> , 2011 , 83, 5535-40	7.8	47
89	Digital simulation of potential step experiments using the extrapolation method. <i>Electroanalysis</i> , 1997 , 9, 1403-1408	3	44
88	Damping of Crank-Nicolson error oscillations. <i>Computational Biology and Chemistry</i> , 2003 , 27, 253-63	3.6	41
87	Voltammetric behaviour of biological macromolecules at arrays of aqueous organogel micro-interfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10040-7	3.6	36
86	Theory and practice of electrochemical titrations with dual microband electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 108-120	4.1	35
85	Serum-protein effects on the detection of the beta-blocker propranolol by ion-transfer voltammetry at a micro-ITIES array. <i>Talanta</i> , 2010 , 80, 1993-8	6.2	33
84	Digital Simulation in Electrochemistry. <i>Monographs in Electrochemistry</i> , 2016 ,	0.8	33
83	Microstructures by Selective Desorption of Self-Assembled Monolayer from Polycrystalline Gold Electrodes. <i>Electroanalysis</i> , 2007 , 19, 1467-1475	3	29
82	Electrochemical surface structuring with palladium nanoparticles for signal enhancement. <i>Langmuir</i> , 2010 , 26, 12293-9	4	27
81	Electrochemically deposited palladium as a substrate for self-assembled monolayers. <i>Langmuir</i> , 2007 , 23, 10823-30	4	27
80	Ion-transfer voltammetric behavior of propranolol at nanoscale liquid-liquid interface arrays. <i>Analytical Chemistry</i> , 2015 , 87, 4487-94	7.8	26
79	Combined scanning electrochemical microscopy Langmuir trough technique for investigating phase transfer kinetics across liquid/liquid interfaces modified by a molecular monolayer. <i>Electrochemistry Communications</i> , 2003 , 5, 105-110	5.1	25

78	Reference values of the chronoamperometric response at cylindrical and capped cylindrical electrodes. <i>Electrochimica Acta</i> , 2010 , 55, 5629-5635	6.7	24
77	Digital Simulation of Two-Dimensional Mass Transfer Problems in Electrochemistry Using the Extrapolation Method. <i>Electroanalysis</i> , 1999 , 11, 487-493	3	24
76	Higher-order spatial discretisations in electrochemical digital simulations. Part 4. Discretisation on an arbitrarily spaced grid. <i>Computational Biology and Chemistry</i> , 2003 , 27, 327-37	3.6	23
75	High-order spatial discretisations in electrochemical digital simulation. 1. Combination with the BDF algorithm. <i>Computers & Chemistry</i> , 2000 , 24, 673-84		23
74	Electron transfer mediated by glucose oxidase at the liquid/liquid interface. <i>Faraday Discussions</i> , 2000 , 109-18; discussion 171-90	3.6	23
73	Effect of self-assembled surfactant structures on ion transport across the liquid liquid interface. <i>Electrochemistry Communications</i> , 1999 , 1, 139-144	5.1	23
72	Reference values of the diffusion-limited current at a microdisk electrode. <i>Electrochimica Acta</i> , 2004 , 50, 107-113	6.7	21
71	Effect of phospholipids on the kinetics of dioxygen transfer across a 1,2-dichloroethane/water interface. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 5553-5558	3.6	21
70	Linear and cyclic sweep voltammetry at a rotating disk electrode. A digital simulation. <i>Electroanalysis</i> , 1996 , 8, 1034-1039	3	21
69	Chronoamperometric response at nanoscale liquid liquid interface arrays. <i>Electrochimica Acta</i> , 2013 , 101, 177-185	6.7	20
68	The performance of differential pulse stripping voltammetry at micro-liquid liquid interface arrays. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 641, 7-13	4.1	20
67	On the bond strengths in higher element homologues of methylenephosphane and diphosphene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 2957-2962		19
66	Electrochemical fabrication of nanostructured surfaces for enhanced response. <i>ChemPhysChem</i> , 2008 , 9, 920-7	3.2	19
65	Reference values of the diffusion-limited chronoamperometric current at a microband electrode. <i>Electrochimica Acta</i> , 2005 , 51, 333-339	6.7	19
64	Minimum grid digital simulation of chronoamperometry at a disk electrode. <i>Electrochimica Acta</i> , 2012 , 78, 365-376	6.7	18
63	An Electrochemical Sensing Platform Based on Liquid-Liquid Microinterface Arrays Formed in Laser-Ablated Glass Membranes. <i>Analytical Chemistry</i> , 2016 , 88, 2596-604	7.8	17
62	Optimisation of the conditions for stripping voltammetric analysis at liquid-liquid interfaces supported at micropore arrays: a computational simulation. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1625-31	4.4	17
61	High order spatial discretisations in electrochemical digital simulation. 2. Combination with the extrapolation algorithm. <i>Computers & Chemistry</i> , 2001 , 25, 205-14		17

60	Several ways to simulate time dependent liquid junction potentials by finite differences. <i>Electrochimica Acta</i> , 2014 , 137, 328-335	6.7	16
59	Investigation of some starting protocols for BDF (FIRM) in electrochemical digital simulation. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 512, 119-123	4.1	16
58	Bioanalytical Applications of Electrochemistry at Liquid-Liquid Microinterfaces. <i>Electroanalytical Chemistry, A Series of Advances</i> , 2013 , 105-178		16
57	Microelectrochemical Systems on Silicon Chips for the Detection of Pollutants in Seawater. <i>Electroanalysis</i> , 2011 , 23, 147-155	3	15
56	Electroanalytical response of an ultramicroelectrode at the bottom of an insulating conical well: Digital simulation. <i>Electrochimica Acta</i> , 2006 , 52, 33-41	6.7	14
55	Computational Study of Chronoamperometry at Rectangular Microelectrodes. <i>Electroanalysis</i> , 2005 , 17, 1547-1554	3	14
54	A Capacitive Humidity Sensor Suitable for CMOS Integration. <i>IEEE Sensors Journal</i> , 2013 , 13, 4487-4495	4	12
53	High-order spatial discretisations in electrochemical digital simulation. Part 3. Combination with the explicit Runge-Kutta algorithm. <i>Computers & Chemistry</i> , 2002 , 26, 97-103		12
52	Electrochemical Sensor Design Using Coplanar and Elevated Interdigitated Array Electrodes. A Computational Study. <i>Electroanalysis</i> , 2005 , 17, 169-177	3	12
51	Digital simulation of thermal reactions. <i>Applied Mathematics and Computation</i> , 2011 , 218, 1280-1290	2.7	11
50	Flow-injection amperometry at microfabricated silicon-based liquid-liquid interface arrays. <i>Electrochimica Acta</i> , 2010 , 55, 4234-4239	6.7	11
49	Higher-order spatial discretisations in electrochemical digital simulation. Part 5: application to stationary ultramicrodisc electrode simulation. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 566, 15-23	4.1	11
48	Liquid-liquid interface electrochemistry applied to study of a two-phase permanganate oxidation. <i>Electrochemistry Communications</i> , 2001 , 3, 619-623	5.1	11
47	Potentiometric investigation of protonation reactions at aqueous-aqueous boundaries within a dual-stream microfluidic structure. <i>Langmuir</i> , 2010 , 26, 18526-33	4	10
46	Diffusion-limited chronoamperometry at conical-tip microelectrodes. <i>Electrochimica Acta</i> , 2010 , 55, 1272-1277	6.7	10
45	Effect of Nonionic Surfactants on Interfacial Electron Transfer at the Liquid/Liquid Interface. <i>Langmuir</i> , 2001 , 17, 8348-8354	4	10
44	Cationic systems as self-assembled monolayers on gold surfaces. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 464, 263-267	4.1	10
43	The phospho-2-allyl-system: electrochemical and quantum chemical investigations. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 1751		10

42	Digital simulation of chronoamperometry at a disk electrode under a flat polymer film containing an enzyme. <i>Electrochimica Acta</i> , 2015 , 152, 302-307	6.7	9
41	Potentiometric characterisation of a dual-stream electrochemical microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 231-240	2.8	9
40	On the electronic hypersurface of the methylenephosphenium cation. <i>Computational and Theoretical Chemistry</i> , 1994 , 305, 127-137		9
39	Finite-element simulations of the influence of pore wall adsorption on cyclic voltammetry of ion transfer across a liquid-liquid interface formed at a micropore. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2494-500	3.6	8
38	Halogen Substitution at Phosphorus in Phosphaalkenes and Phosphasilenes versus Bis(methylene)phosphoranes: A Quantum Chemical Evaluation of Bonding Properties. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 2329-2334		8
37	Reversible Integration of Microfluidic Devices with Microelectrode Arrays for Neurobiological Applications. <i>BioNanoScience</i> , 2014 , 4, 263-275	3.4	7
36	Investigation of potential distribution and the influence of ion complexation on diffusion potentials at aqueous-aqueous boundaries within a dual-stream microfluidic structure. <i>Analytical Chemistry</i> , 2009 , 81, 8373-9	7.8	7
35	High order spatial discretisations in electrochemical digital simulation. 2. Combination with the extrapolation algorithm. <i>Computers & Chemistry</i> , 2001 , 25, 511-20		7
34	Nanofabrication of Robust Nanoelectrodes for Electrochemical Applications. <i>ECS Transactions</i> , 2010 , 28, 29-37	1	6
33	Digital simulation of chronoamperometry at an electrode within a hemispherical polymer drop containing an enzyme: comparison of a hemispherical with a flat disk electrode. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 269-77	11.8	5
32	Study of the Effects of Nonlinear Potential Sweeps on Voltammetry. <i>Electroanalysis</i> , 2009 , 21, 68-76	3	5
31	Revisiting rectangular electrodes; a simulation study. <i>Electrochimica Acta</i> , 2020 , 338, 135728	6.7	4
30	Comparison of flux approximations in electrochemical digital simulation. Part 2: Complications due to homogeneous chemical reactions, charge estimation and application to the ultramicrodisk electrode. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 622, 51-58	4.1	4
29	Model Calculation to Characterize Kinetic Effects for Electrochemical Phase Formation*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999 , 208, 239-251	3.1	4
28	On the electronic structures of the metaphosphate (metaphosphite) anions $PX_3(X)PX_2(X)$, X = CH ₂ , SiH ₂ , NH, PH, O, S. <i>Computational and Theoretical Chemistry</i> , 1995 , 333, 249-260		4
27	Comparison of flux approximations in electrochemical digital simulation. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 602, 210-216	4.1	3
26	Use of the Saul'yev method for the digital simulation of chronoamperometry and linear sweep voltammetry at the ultramicrodisk electrode. <i>Electrochimica Acta</i> , 2017 , 258, 17-23	6.7	2
25	Use of the Saul'yev method for the digital simulation of chronoamperometry at the disk electrode, in the presence of homogeneous chemical reactions. <i>Electrochimica Acta</i> , 2018 , 283, 300-305	6.7	2

24	Electrochemical surface nanopatterning by selective reductive desorption from mixed metal surfaces. <i>Electrochimica Acta</i> , 2010 , 55, 4309-4313	6.7	2
23	Orbital Isomerism in the 1.3-Dphosphacyclobutane-2.4-Diyl, Quantum Chemical Investigations at MCSCF Level. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996 , 111, 42-42	1	2
22	Phosphorus in Strained Ring Systems. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1993 , 77, 93-96	1	2
21	Rotational barrier in phosphatriafulvene: An MCSCF study. <i>Journal of Computational Chemistry</i> , 1993 , 14, 3-7	3.5	2
20	Surface concentration nonuniformities resulting from chronoamperometry of a reversible reaction at an ultramicrodisk electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 776, 202-205	4.1	2
19	Effects Due to Uncompensated Resistance and Capacitance. <i>Monographs in Electrochemistry</i> , 2016 , 241-249	2.4	1
18	Investigation of Molecular Transfer Processes across Phospholipid Monolayers by the Combined Scanning Electrochemical Microscopy-Langmuir Trough Technique. <i>Progress in Reaction Kinetics and Mechanism</i> , 2007 , 32, 195-217	0.5	1
17	Printed Multilayer Piezoelectric Transducers on Paper for Haptic Feedback and Dual Touch-Sound Sensation. <i>Sensors</i> , 2022 , 22, 3796	3.8	1
16	Programming. <i>Monographs in Electrochemistry</i> , 2016 , 421-425	0.8	0
15	Unequal Intervals. <i>Monographs in Electrochemistry</i> , 2016 , 123-144	0.8	0
14	Memristive devices based on mass printed organic resistive switching layers. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
13	Simulation Packages. <i>Monographs in Electrochemistry</i> , 2016 , 427-438	0.8	
12	Pharmaceutical modulation of diffusion potentials at aqueous-aqueous boundaries under laminar flow conditions. <i>Electrophoresis</i> , 2011 , 32, 844-9	3.6	
11	On The Electronic Structures of Metaphosphate PX ₃ (X) and Metaphosphite PX ₂ (X) Anions, X = CH ₂ , SiH ₂ , NH, PH, O, S. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996 , 111, 41-41	1	
10	Rectangular electrodes: Simulation of accurate steady state currents and the behaviour of square electrode arrays. <i>Electrochimica Acta</i> , 2022 , 404, 139750	6.7	
9	Two (and Three) Dimensions. <i>Monographs in Electrochemistry</i> , 2016 , 251-337	0.8	
8	Migrational Effects. <i>Monographs in Electrochemistry</i> , 2016 , 339-367	0.8	
7	Convection. <i>Monographs in Electrochemistry</i> , 2016 , 369-388	0.8	

6	The Explicit Method. <i>Monographs in Electrochemistry</i> , 2016 , 89-100	o.8
5	Boundary Conditions. <i>Monographs in Electrochemistry</i> , 2016 , 101-121	o.8
4	The Commonly Used Implicit Methods. <i>Monographs in Electrochemistry</i> , 2016 , 145-176	o.8
3	Other Methods. <i>Monographs in Electrochemistry</i> , 2016 , 177-234	o.8
2	Basic Equations. <i>Monographs in Electrochemistry</i> , 2016 , 5-37	o.8
1	Approximations to Derivatives. <i>Monographs in Electrochemistry</i> , 2016 , 39-59	o.8