

Stephen Fletcher

List of Publications by Year in descending order

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62
papers

2,165
citations

257450

24
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

2290
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial Overview: Fundamental and theoretical electrochemistry (2021):. Current Opinion in Electrochemistry, 2021, 30, 100912.	4.8	0
2	The future tasks of electrochemistry: a personal view. Journal of Solid State Electrochemistry, 2020, 24, 2077-2080.	2.5	2
3	Electrochemical potentials from first principles. Journal of Solid State Electrochemistry, 2020, 24, 3029-3038.	2.5	4
4	Hemispherical nucleation of nanoparticles as a boundary value problem. Some comments on a proposed new approach by Abyaneh et al. (2019). Closing remarks. Journal of Electroanalytical Chemistry, 2020, 865, 113859.	3.8	0
5	Comments on the paper "Modelling the growth of a single centre", by M.Y. Abyaneh, M. Fleischmann, and M.H. Mehrabi, published in the Journal of Electroanalytical Chemistry, 834,114-123 (2019).. Journal of Electroanalytical Chemistry, 2020, 865, 113858.	3.8	1
6	Soluble Catalysts for the Oxygen Reduction Reaction, and Their Application to Becher Aeration. Industrial & Engineering Chemistry Research, 2019, 58, 10190-10198.	3.7	7
7	Ternary Mixtures of Sulfolanes and Ionic Liquids for Use in High-Temperature Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 2612-2620.	6.7	10
8	The modelling of carbon-based supercapacitors: Distributions of time constants and Pascal Equivalent Circuits. Journal of Power Sources, 2017, 345, 247-253.	7.8	30
9	Poly(bisphenol) Polymers as Passivating Agents for Carbon Electrodes in Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 8014-8022.	3.1	7
10	Femtomolar Detection of Silver Nanoparticles by Flow-Enhanced Direct-Impact Voltammetry at a Microelectrode Array. Analytical Chemistry, 2016, 88, 8908-8912.	6.5	32
11	Supercatalysis by Superexchange. Journal of Physical Chemistry C, 2016, 120, 26225-26234.	3.1	13
12	Are Nanoparticles Spherical or Quasi-Spherical?. Chemistry - A European Journal, 2015, 21, 10741-10746.	3.3	33
13	Discovery of a single molecule transistor in photosystem II. Journal of Solid State Electrochemistry, 2015, 19, 241-250.	2.5	10
14	The Definition of Electrochromism. Journal of Solid State Electrochemistry, 2015, 19, 3305-3308.	2.5	2
15	Electrochemistry in a Divided World: The Political Background. , 2015, , 7-11.		1
16	A universal equivalent circuit for carbon-based supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 1377-1387.	2.5	128
17	Surface thermodynamics reconsidered. Derivation of the Gokhshtein relations from the Gibbs potential and a new approach to surface stress. Journal of Solid State Electrochemistry, 2014, 18, 1231-1238.	2.5	8
18	Quantum design of ionic liquids for extreme chemical inertness and a new theory of the glass transition. Journal of Solid State Electrochemistry, 2013, 17, 327-337.	2.5	18

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19	Beyond the Butler-Volmer equation. Curved Tafel slopes from steady-state current-voltage curves. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5359.	2.8	28
20	Electrochemistry—past, present, and future. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1295-1296.	2.5	1
21	Electronics. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1451-1458.	2.5	3
22	The theory of electron transfer. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 705-739.	2.5	88
23	Selective Knockout of Gold Active Sites. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3006-3009.	13.8	64
24	Tafel slopes from first principles. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 537-549.	2.5	322
25	The new theory of electron transfer. Thermodynamic potential profiles in the inverted and superverted regions. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 765-770.	2.5	11
26	The new theory of electron transfer: application to the photosynthetic reaction centre. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 1511-1520.	2.5	4
27	A non-Marcus model for electrostatic fluctuations in long range electron transfer. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 965-969.	2.5	19
28	Nucleation-growth kinetics of the oxidation of silver nanocrystals to silver halide crystals. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 833-840.	2.5	36
29	The Thermodynamics of Solid - Solid Interfaces in Systems of Fixed Mass. <i>Australian Journal of Chemistry</i> , 2005, 58, 302.	0.9	5
30	The application of anthraquinone redox catalysts for accelerating the aeration step in the becher process. <i>Hydrometallurgy</i> , 2004, 73, 111-121.	4.3	13
31	The catalysis of solid state intercalation processes by organic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 157-165.	3.8	10
32	The direct electrochemistry of ferritin compared with the direct electrochemistry of nanoparticulate hydrous ferric oxide. <i>New Journal of Chemistry</i> , 2002, 26, 259-263.	2.8	49
33	The use of massograms and voltammograms for distinguishing five basic combinations of charge transfer and mass transfer at electrode surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2002, 526, 1-9.	3.8	41
34	Extracting nucleation rates from current-time transients. Comments on three papers by Abyaneh and Fleischmann published in this issue. <i>Journal of Electroanalytical Chemistry</i> , 2002, 530, 105-107.	3.8	16
35	Extracting nucleation rates from current-time transients. Concluding remarks. <i>Journal of Electroanalytical Chemistry</i> , 2002, 530, 119-122.	3.8	16
36	Directed assembly of multilayers—the case of Prussian Blue. <i>Chemical Communications</i> , 2001, , 1994-1995.	4.1	74

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37	Nanocomposite electrodes made of carbon nanofibers and black wax. Anodic stripping voltammetry of zinc and lead. <i>Analyst, The</i> , 2001, 126, 1878-1881.	3.5	22
38	A voltammetric study of direct electron transfer to cytochrome c using a very large assembly of carbon microelectrodes. <i>Lab on A Chip</i> , 2001, 1, 127.	6.0	16
39	Voltammetry at carbon nanofiber electrodes. <i>Electrochemistry Communications</i> , 2001, 3, 177-180.	4.7	66
40	The two-terminal equivalent network of a three-terminal electrochemical cell. <i>Electrochemistry Communications</i> , 2001, 3, 692-696.	4.7	41
41	The relationship between the electrochemistry and the crystallography of microcrystals. The case of TCNQ (7,7,8,8-tetracyanoquinodimethane). <i>Analyst, The</i> , 1998, 123, 1891-1904.	3.5	85
42	The deconvolution of nucleation and growth rates from electrochemical current-time transients. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3527-3536.	1.7	21
43	Electrochemical and X-ray diffraction study of the redox cycling of nanocrystals of 7,7,8,8-tetracyanoquinodimethane. Observation of a solid-solid phase transformation controlled by nucleation and growth. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3925-3933.	1.7	108
44	Tables of Degenerate Electrical Networks for Use in the Equivalent Circuit Analysis of Electrochemical Systems. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1823-1826.	2.9	94
45	Contribution to the theory of conducting-polymer electrodes in electrolyte solutions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 311.	1.7	71
46	An electrical model circuit that reproduces the behaviour of conducting polymer electrodes in electrolyte solutions. <i>Journal of Electroanalytical Chemistry</i> , 1992, 337, 127-145.	3.8	67
47	Some photoelectrochemical insights into galena flotation. <i>International Journal of Mineral Processing</i> , 1991, 33, 145-163.	2.6	18
48	A reference half-cell capillary that improves the high frequency performance of the potentiostat/whole-cell combination. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 297, 297-299.	0.1	11
49	Characterisation of conductive, electroactive polymers using resistometry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 319, 365-371.	0.1	32
50	Random Assemblies of Microdisk Electrodes (Ram Electrodes) for Nucleation Studies. A Tutorial Review. , 1991, , 341-355.		6
51	Magic sampling—a digital sampling strategy that discriminates against mains interference (noise). <i>Electrochimica Acta</i> , 1990, 35, 1797-1804.	5.2	1
52	Nucleation on active sites. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 277, 1-18.	0.1	42
53	Growth of mercury electrode deposits on an inlaid disc thermodynamic theory. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 290, 33-48.	0.1	17
54	A scanning tunneling microscopy study of the surface microstructure of alpha and beta lead dioxide. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 544-548.	2.1	16

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55	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 239, 17-54.	0.1	84
56	Invention of cyclic resistometry. Electrochimica Acta, 1986, 31, 585-589.	5.2	50
57	Numerical analysis of 2D nucleation/growth/collision processes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 199, 241-247.	0.1	11
58	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 215, 1-9.	0.1	20
59	A new formula for the electrical current-time behaviour of two-dimensional nucleation/growth/collision processes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 195, 417-418.	0.1	1
60	Growth of circular crystals in a circular region. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 1867.	1.0	4
61	Electrochemical deposition of hemispherical nuclei under diffusion control. Some theoretical considerations. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 467.	1.0	100
62	The fine structure of the Kolmogoroff-Avrami theorem. Canadian Journal of Chemistry, 1979, 57, 1304-1318.	1.1	18