Stephen Fletcher

List of Publications by Year
in descending order

62	2,165	257450	223800
papers	citations	24 h-index	46 g-index

71	71	71	2290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tafel slopes from first principles. Journal of Solid State Electrochemistry, 2009, 13, 537-549.	2.5	322
2	A universal equivalent circuit for carbon-based supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 1377-1387.	2.5	128
3	Electrochemical and X-ray diffraction study of the redox cycling of nanocrystals of 7,7,8,8-tetracyanoquinodimethane. Observation of a solidâ€“solid phase transformation controlled by nucleation and growth. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3925-3933.	1.7	108
4	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
5	Tables of Degenerate Electrical Networks for Use in the Equivalentâ€Circuit Analysis of Electrochemical Systems. Journal of the Electrochemical Society, 1994, 141, 1823-1826.	2.9	94
6	The theory of electron transfer. Journal of Solid State Electrochemistry, 2010, 14, 705-739.	2.5	88
7	The relationship between the electrochemistry and the crystallography of microcrystals. The case of TCNQ (7,7,8,8-tetracyanoquinodimethane)â€â€¡. Analyst, The, 1998, 123, 1891-1904.	3.5	85
8	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 239, 17-54.	0.1	84
9	Directed assembly of multilayersâ€”the case of Prussian Blue. Chemical Communications, 2001, , 1994-1995.	4.1	74
10	Contribution to the theory of conducting-polymer electrodes in electrolyte solutions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 311.	1.7	71
11	An electrical model circuit that reproduces the behaviour of conducting polymer electrodes in electrolyte solutions. Journal of Electroanalytical Chemistry, 1992, 337, 127-145.	3.8	67
12	Voltammetry at carbon nanofiber electrodes. Electrochemistry Communications, 2001, 3, 177-180.	4.7	66
13	Selective Knockout of Gold Active Sites. Angewandte Chemie - International Edition, 2010, 49, 3006-3009.	13.8	64
14	Invention of cyclic resistometry. Electrochimica Acta, 1986, 31, 585-589.	5.2	50
15	The direct electrochemistry of ferritin compared with the direct electrochemistry of nanoparticulate hydrous ferric oxide. New Journal of Chemistry, 2002, 26, 259-263.	2.8	49
16	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 277, 1-18.	0.1	42
17	The two-terminal equivalent network of a three-terminal electrochemical cell. Electrochemistry Communications, 2001, 3, 692-696.	4.7	41
18	The use of massograms and voltammograms for distinguishing five basic combinations of charge transfer and mass transfer at electrode surfaces. Journal of Electroanalytical Chemistry, 2002, 526, 1-9.	3.8	41

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19	Nucleation-growth kinetics of the oxidation of silver nanocrystals to silver halide crystals. Journal of Solid State Electrochemistry, 2006, 10, 833-840.	2.5	36
20	Are Nanoparticles Spherical or Quasiâ€Spherical?. Chemistry - A European Journal, 2015, 21, 10741-10746.	3.3	33
21	Characterisation of conductive, electroactive polymers using resistometry. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 319, 365-371.	0.1	32
22	Femtomolar Detection of Silver Nanoparticles by Flow-Enhanced Direct-Impact Voltammetry at a Microelectrode Array. Analytical Chemistry, 2016, 88, 8908-8912.	6.5	32
23	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
24	Beyond the Butlerâ€“Volmer equation. Curved Tafel slopes from steady-state currentâ€“voltage curves. Physical Chemistry Chemical Physics, 2011, 13, 5359.	2.8	28
25	Nanocomposite electrodes made of carbon nanofibers and black wax. Anodic stripping voltammetry of zinc and lead. Analyst, The, 2001, 126, 1878-1881.	3.5	22
26	The deconvolution of nucleation and growth rates from electrochemical currentâ€“time transients. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3527-3536.	1.7	21
27	Nucleation on active sites. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 215, 1-9.	0.1	20
28	A non-Marcus model for electrostatic fluctuations in long range electron transfer. Journal of Solid State Electrochemistry, 2007, 11, 965-969.	2.5	19
29	The fine structure of the Kolmogoroffâ€“Avrami theorem. Canadian Journal of Chemistry, 1979, 57, 1304-1318.	1.1	18
30	Some photoelectrochemical insights into galena flotation. International Journal of Mineral Processing, 1991, 33, 145-163.	2.6	18
31	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
32	Growth of mercury electrodeposits on an inlaid disc thermodynamic theory. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 290, 33-48.	0.1	17
33	A scanning tunneling microscopy study of the surface microstructure of alphaâ€and betaâ€lead dioxide. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 544-548.	2.1	16
34	A voltammetric study of direct electron transfer to cytochrome c using a very large assembly of carbon microelectrodes. Lab on A Chip, 2001, 1, 127.	6.0	16
35	Extracting nucleation rates from currentâ€“time transients. Comments on three papers by Abyaneh and Fleischmann published in this issue. Journal of Electroanalytical Chemistry, 2002, 530, 105-107.	3.8	16
36	Extracting nucleation rates from currentâ€“time transients. Concluding remarks. Journal of Electroanalytical Chemistry, 2002, 530, 119-122.	3.8	16

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37	The application of anthraquinone redox catalysts for accelerating the aeration step in the becher process. Hydrometallurgy, 2004, 73, 111-121.	4.3	13
38	Supercatalysis by Superexchange. Journal of Physical Chemistry C, 2016, 120, 26225-26234.	3.1	13
39	Numerical analysis of 2D nucleation/growth/collision processes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 199, 241-247.	0.1	11
40	A reference half-cell capillary that improves the high frequency performance of the potentiostat/whole-cell combination. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 297, 297-299.	0.1	11
41	The new theory of electron transfer. Thermodynamic potential profiles in the inverted and superverted regions. Journal of Solid State Electrochemistry, 2008, 12, 765-770.	2.5	11
42	The catalysis of solid state intercalation processes by organic solvents. Journal of Electroanalytical Chemistry, 2003, 554-555, 157-165.	3.8	10
43	Discovery of a single molecule transistor in photosystem II. Journal of Solid State Electrochemistry, 2015, 19, 241-250.	2.5	10
44	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
45	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
46	Poly(bisphenol) Polymers as Passivating Agents for Carbon Electrodes in Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 8014-8022.	3.1	7
47	Soluble Catalysts for the Oxygen Reduction Reaction, and Their Application to Becher Aeration. Industrial & Engineering Chemistry Research, 2019, 58, 10190-10198.	3.7	7
48	Random Assemblies of Microdisk Electrodes (Ram Electrodes) for Nucleation Studies. A Tutorial Review. , 1991, , 341-355.		6
49	The Thermodynamics of Solid - Solid Interfaces in Systems of Fixed Mass. Australian Journal of Chemistry, 2005, 58, 302.	0.9	5
50	Growth of circular crystals in a circular region. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 1867.	1.0	4
51	The new theory of electron transfer: application to the photosynthetic reaction centre. Journal of Solid State Electrochemistry, 2008, 12, 1511-1520.	2.5	4
52	Electrochemical potentials from first principles. Journal of Solid State Electrochemistry, 2020, 24, 3029-3038.	2.5	4
53	Electronomics. Journal of Solid State Electrochemistry, 2011, 15, 1451-1458.	2.5	3
54	The Definition of Electrochromism. Journal of Solid State Electrochemistry, 2015, 19, 3305-3308.	2.5	2

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55	The future tasks of electrochemistry: a personal view. Journal of Solid State Electrochemistry, 2020, 24, 2077-2080.	2.5	2
56	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
57	Magic samplingâ€"a digital sampling strategy that discriminates against mains interference (noise). Electrochimica Acta, 1990, 35, 1797-1804.	5.2	1
58	Electrochemistryâ€"past, present, and future. Journal of Solid State Electrochemistry, 2011, 15, 1295-1296.	2.5	1
59	Comments on the paper â€œModelling the growth of a single centreâ€, by M.Y. Abyaneh, M. Fleischmann, and M.H. Mehrabi, published in the Journal of Electroanalytical Chemistry, 834,114â€“123 (2019).. Journal of Electroanalytical Chemistry, 2020, 865, 113858.	3.8	1
60	Electrochemistry in a Divided World: The Political Background. , 2015, , 7-11.		1
61	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
62	Editorial Overview: Fundamental and theoretical electrochemistry (2021):. Current Opinion in Electrochemistry, 2021, 30, 100912.	4.8	0