

Lawrence A Bottomley

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,132
citations

19
h-index

33
g-index

52
ext. papers

1,230
ext. citations

6.6
avg, IF

4.14
L-index

#	Paper	IF	Citations
50	Scanning Probe Microscopy. <i>Analytical Chemistry</i> , 1998 , 70, 425-476	7.8	118
49	Raman spectroscopic monitoring of carbon deposition on hydrocarbon-fed solid oxide fuel cell anodes. <i>Energy and Environmental Science</i> , 2012 , 5, 7913	35.4	85
48	Influence of pi-stacking on the redox properties of oligothiophenes: (alpha-alkyloligo-thienyl)para[2.2]cyclophanes. <i>Organic Letters</i> , 2002 , 4, 3195-8	6.2	76
47	Scanning Probe Microscopy. <i>Analytical Chemistry</i> , 1996 , 68, 185-230	7.8	76
46	Measuring the Compression of a Carbon Nanospring. <i>Nano Letters</i> , 2004 , 4, 1009-1016	11.5	62
45	High-temperature surface enhanced Raman spectroscopy for in situ study of solid oxide fuel cell materials. <i>Energy and Environmental Science</i> , 2014 , 7, 306-310	35.4	51
44	Well-organized raspberry-like Ag@Cu bimetal nanoparticles for highly reliable and reproducible surface-enhanced Raman scattering. <i>Nanoscale</i> , 2013 , 5, 11620-4	7.7	51
43	The {Bis-2,6-[1-(2-imidazol-4-ylethylimino)ethyl]pyridine}copper(I) cation. A synthetic CuI oxygen carrier in solution as a potential model for oxyhemocyanin. <i>Journal of the Chemical Society Dalton Transactions</i> , 1980 , 1827		49
42	Scanning probe microscopy. <i>Analytical Chemistry</i> , 2000 , 72, 189R-196R	7.8	46
41	Measuring the Adhesion Forces between Alkanethiol-Modified AFM Cantilevers and Single Walled Carbon Nanotubes. <i>Nano Letters</i> , 2004 , 4, 61-64	11.5	45
40	Cyclic square wave voltammetry of single and consecutive reversible electron transfer reactions. <i>Analytical Chemistry</i> , 2009 , 81, 9041-7	7.8	41
39	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2015 , 27, 822-828	9.6	39
38	Chemical Force Microscopy on Single-Walled Carbon Nanotube Paper. <i>Chemistry of Materials</i> , 2005 , 17, 4289-4295	9.6	36
37	Scanning probe microscopy. <i>Analytical Chemistry</i> , 2002 , 74, 2851-62	7.8	32
36	Stereoelectronic Aspects of Inter-Metal Nitrogen Atom Transfer Reactions between Nitridomanganese(V) and Chromium(III) Porphyrins. <i>Inorganic Chemistry</i> , 1997 , 36, 5435-5439	5.1	31
35	Effect of water absorption on pollen adhesion. <i>Journal of Colloid and Interface Science</i> , 2015 , 442, 133-9	9.3	30
34	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21112-9	3.6	29

33	Application of surface enhanced Raman spectroscopy to the study of SOFC electrode surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5919-23	3.6	27
32	Thermal Stability of Silver Nanorod Arrays. <i>Chemistry of Materials</i> , 2010 , 22, 2184-2189	9.6	21
31	Photoluminescence in the Earliest Stages of Porous Silicon Formation. <i>Journal of the Electrochemical Society</i> , 1996 , 143, L164-L166	3.9	18
30	Diagnostic criteria for the characterization of quasireversible electron transfer reactions by cyclic square wave voltammetry. <i>Analytical Chemistry</i> , 2014 , 86, 8183-91	7.8	17
29	Heterobimetallic ENitrido Complexes Formed by Incomplete Nitrogen Atom Transfer Reactions between Nitridorhenium(V) and Chlorochromium(III) Porphyrins. <i>Inorganic Chemistry</i> , 1996 , 35, 5108-5109	5.1	17
28	Inter-Metal Nitrogen Atom Transfer Reactions between Nitridochromium(V) and Chromium(III) Porphyrins. <i>Inorganic Chemistry</i> , 1997 , 36, 5432-5434	5.1	14
27	Cyclic Square Wave Voltammetry of Surface-Confined Quasireversible Electron Transfer Reactions. <i>Langmuir</i> , 2015 , 31, 9511-20	4	13
26	Trends in the Interaction of the Strong Acids HCl, HBr, and HI with a Photoluminescing Porous Silicon Surface. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 8860-8864	3.4	13
25	Impact of nano- and mesoscale particles on the performance of microcantilever-based sensors. <i>Analytical Chemistry</i> , 2004 , 76, 5685-9	7.8	9
24	Redox Tuning of Iron Porphyrins. <i>Advances in Chemistry Series</i> , 1982 , 279-311		9
23	Diagnostic Criteria for Identifying an ECE Mechanism with Cyclic Square Wave Voltammetry. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3101-H3109	3.9	8
22	A new mechanism for spontaneous nanostructure formation on bottom-patterned compliant substrates. <i>Applied Physics Letters</i> , 1997 , 71, 2773-2775	3.4	7
21	Diagnostic Criteria for the Characterization of Electrode Reactions with Chemically Coupled Reactions Preceding the Electron Transfer by Cyclic Square Wave Voltammetry. <i>ChemPhysChem</i> , 2016 , 17, 2596-606	3.2	6
20	Coordinated Acylimido Complexes Formed by Reaction of Nitridorhenium and Nitridomolybdenum Porphyrins with Substituted Acetic Anhydrides. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998 , 02, 261-268	1.8	6
19	Diagnostic Criteria for the Characterization of Electrode Reactions with Chemical Reactions Following Electron Transfer by Cyclic Square Wave Voltammetry. <i>Electrochimica Acta</i> , 2016 , 205, 20-28	6.7	6
18	Supercapacitor Electrodes Based on Three-Dimensional Copper Structures with Precisely Controlled Dimensions. <i>ChemElectroChem</i> , 2015 , 2, 236-245	4.3	5
17	Cationic Polyacrylamide Conformation on Mica Studied by Single Molecule Bulging with Scanning Probe Microscopy. <i>Macromolecules</i> , 2007 , 40, 4561-4567	5.5	5
16	Dimers of Nineteen-Electron Sandwich Compounds: An Electrochemical Study of the Kinetics of Their Formation. <i>Organometallics</i> , 2015 , 34, 3706-3712	3.8	4

15	Empirical Correlation of the Morphology of Coiled Carbon Nanotubes with Their Response to Axial Compression. <i>Journal of Nanotechnology</i> , 2014 , 2014, 1-12	3.5	4
14	Salt effect on cationic polyacrylamide conformation on mica studied by single molecule "pulling" with scanning probe microscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12686-91	3.4	4
13	Electrosynthesis of Sodium Hydrosulfite: III. Porous Cathode Materials and Process Model. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 4062-4066	3.9	4
12	Electrochemical Patterning of the Surface of Insulators with Electrically Conductive Polymers. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L226-L227	3.9	4
11	Anthraquinone compounds as redox mediators for enhanced continuous-flow anaerobic biotransformation of reactive dyes under hypersaline conditions. <i>Desalination and Water Treatment</i> , 2011 , 33, 68-76		3
10	Electrosynthesis of Sodium Hydrosulfite: II. The Effect of Cathode Material. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 4057-4061	3.9	3
9	Electrosynthesis of Sodium Hydrosulfite: I. Development of an Online Process Control Monitor. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 4052-4056	3.9	3
8	Kinetic and electrochemical study of nitrile adducts of tetrachloro-bis (1,2-bis(diphenylphosphine)methane)dirhenium(II). <i>Transition Metal Chemistry</i> , 1995 , 20, 409-412	2.1	2
7	Peeling of Long, Straight Carbon Nanotubes from Surfaces. <i>Journal of Nanotechnology</i> , 2014 , 2014, 1-11	3.5	1
6	Adhesive and Mechanical Properties of Carbon Nanotube Probes Contacting Chemically-Treated Surfaces 2011 ,		1
5	Scanning tunneling microscopic imaging of electrostatically immobilized nucleic acids: the influence of self-assembled monolayer structure on the binding of plasmid DNA to gold surfaces 1993 , 1891, 48		1
4	An Electrochemical Investigation of Several Nitrido Iron Porphyrin Dimers. <i>Journal of the Electrochemical Society</i> , 1980 , 127, 307C-309C	3.9	0
3	Force Spectroscopy of Biopolymers: Correlating Molecular Structure with Single Molecule Elasticity. <i>Microscopy and Microanalysis</i> , 2004 , 10, 204-205	0.5	
2	Single Molecule Mechanical Testing of Mimetic-Elastin Molecules. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1096-1097	0.5	
1	Molecular Design of Next-generation Single Walled Carbon Nanotubes-Polymer Composites. <i>Microscopy and Microanalysis</i> , 2004 , 10, 134-135	0.5	