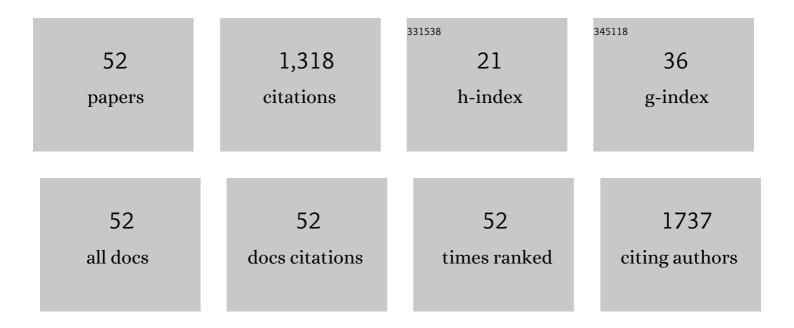
## Lawrence A Bottomley

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Scanning Probe Microscopy. Analytical Chemistry, 1998, 70, 425-476.	3.2	124
2	Raman spectroscopic monitoring of carbon deposition on hydrocarbon-fed solid oxide fuel cell anodes. Energy and Environmental Science, 2012, 5, 7913.	15.6	105
3	Scanning Probe Microscopy. Analytical Chemistry, 1996, 68, 185-230.	3.2	85
4	Influence of π-Stacking on the Redox Properties of Oligothiophenes: (α-Alkyloligo-thienyl)para[2.2]cyclophanes. Organic Letters, 2002, 4, 3195-3198.	2.4	77
5	Measuring the Compression of a Carbon Nanospring. Nano Letters, 2004, 4, 1009-1016.	4.5	71
6	High-temperature surface enhanced Raman spectroscopy for in situ study of solid oxide fuel cell materials. Energy and Environmental Science, 2014, 7, 306-310.	15.6	58
7	Well-organized raspberry-like Ag@Cu bimetal nanoparticles for highly reliable and reproducible surface-enhanced Raman scattering. Nanoscale, 2013, 5, 11620.	2.8	57
8	The {Bis-2,6-[1-(2-imidazol-4-ylethylimino)ethyl]pyridine}copper(I) cation. A synthetic Cu I oxygen carrier in solution as a potential model for oxyhemocyanin. Journal of the Chemical Society Dalton Transactions, 1980, , 1827.	1.1	56
9	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. Chemistry of Materials, 2015, 27, 822-828.	3.2	54
10	Scanning Probe Microscopy. Analytical Chemistry, 2000, 72, 189-196.	3.2	50
11	Measuring the Adhesion Forces between Alkanethiol-Modified AFM Cantilevers and Single Walled Carbon Nanotubes. Nano Letters, 2004, 4, 61-64.	4.5	48
12	Cyclic Square Wave Voltammetry of Single and Consecutive Reversible Electron Transfer Reactions. Analytical Chemistry, 2009, 81, 9041-9047.	3.2	48
13	Stereoelectronic Aspects of Inter-Metal Nitrogen Atom Transfer Reactions between Nitridomanganese(V) and Chromium(III) Porphyrins. Inorganic Chemistry, 1997, 36, 5435-5439.	1.9	39
14	Chemical Force Microscopy on Single-Walled Carbon Nanotube Paper. Chemistry of Materials, 2005, 17, 4289-4295.	3.2	39
15	Application of surface enhanced Raman spectroscopy to the study of SOFC electrode surfaces. Physical Chemistry Chemical Physics, 2012, 14, 5919.	1.3	38
16	Effect of water absorption on pollen adhesion. Journal of Colloid and Interface Science, 2015, 442, 133-139.	5.0	38
17	Scanning Probe Microscopy. Analytical Chemistry, 2002, 74, 2851-2862.	3.2	37
18	An operando surface enhanced Raman spectroscopy (SERS) study of carbon deposition on SOFC anodes. Physical Chemistry Chemical Physics, 2015, 17, 21112-21119.	1.3	34

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19	Heterobimetallic μ-Nitrido Complexes Formed by Incomplete Nitrogen Atom Transfer Reactions between Nitridorhenium(V) and Chlorochromium(III) Porphyrins. Inorganic Chemistry, 1996, 35, 5108-5109.	1.9	21
20	Inter-Metal Nitrogen Atom Transfer Reactions between Nitridochromium(V) and Chromium(III) Porphyrins. Inorganic Chemistry, 1997, 36, 5432-5434.	1.9	21
21	Thermal Stability of Silver Nanorod Arrays. Chemistry of Materials, 2010, 22, 2184-2189.	3.2	21
22	Diagnostic Criteria for the Characterization of Quasireversible Electron Transfer Reactions by Cyclic Square Wave Voltammetry. Analytical Chemistry, 2014, 86, 8183-8191.	3.2	21
23	Cyclic Square Wave Voltammetry of Surface-Confined Quasireversible Electron Transfer Reactions. Langmuir, 2015, 31, 9511-9520.	1.6	19
24	Photoluminescence in the Earliest Stages of Porous Silicon Formation. Journal of the Electrochemical Society, 1996, 143, L164-L166.	1.3	18
25	Trends in the Interaction of the Strong Acids HCl, HBr, and HI with a Photoluminescing Porous Silicon Surface. Journal of Physical Chemistry B, 1997, 101, 8860-8864.	1.2	15
26	Redox Tuning of Iron Porphyrins. Advances in Chemistry Series, 1982, , 279-311.	0.6	11
27	Impact of Nano- and Mesoscale Particles on the Performance of Microcantilever-Based Sensors. Analytical Chemistry, 2004, 76, 5685-5689.	3.2	11
28	Diagnostic Criteria for Identifying an ECE Mechanism with Cyclic Square Wave Voltammetry. Journal of the Electrochemical Society, 2016, 163, H3101-H3109.	1.3	11
29	Diagnostic Criteria for the Characterization of Electrode Reactions with Chemical Reactions Following Electron Transfer by Cyclic Square Wave Voltammetry. Electrochimica Acta, 2016, 205, 20-28.	2.6	9
30	Diagnostic Criteria for the Characterization of Electrode Reactions with Chemically Coupled Reactions Preceding the Electron Transfer by Cyclic Square Wave Voltammetry. ChemPhysChem, 2016, 17, 2596-2606.	1.0	9
31	A new mechanism for spontaneous nanostructure formation on bottom-patterned compliant substrates. Applied Physics Letters, 1997, 71, 2773-2775.	1.5	8
32	Electrosynthesis of Sodium Hydrosulfite: III. Porous Cathode Materials and Process Model. Journal of the Electrochemical Society, 1998, 145, 4062-4066.	1.3	7
33	Supercapacitor Electrodes Based on Threeâ€Dimensional Copper Structures with Precisely Controlled Dimensions. ChemElectroChem, 2015, 2, 236-245.	1.7	7
34	Dimers of Nineteen-Electron Sandwich Compounds: An Electrochemical Study of the Kinetics of Their Formation. Organometallics, 2015, 34, 3706-3712.	1.1	7
35	Coordinated Acylimido Complexes Formed by Reaction of Nitridorhenium and Nitridomolybdenum Porphyrins with Substituted Acetic Anhydrides. Journal of Porphyrins and Phthalocyanines, 1998, 02, 261-268.	0.4	6
36	Electrochemical Patterning of the Surface of Insulators with Electrically Conductive Polymers. Journal of the Electrochemical Society, 1995, 142, L226-L227.	1.3	5

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37	Cationic Polyacrylamide Conformation on Mica Studied by Single Molecule "Pulling―with Scanning Probe Microscopy. Macromolecules, 2007, 40, 4561-4567.	2.2	5
38	Electrosynthesis of Sodium Hydrosulfite: II. The Effect of Cathode Material. Journal of the Electrochemical Society, 1998, 145, 4057-4061.	1.3	4
39	Salt Effect on Cationic Polyacrylamide Conformation on Mica Studied by Single Molecule "Pulling― with Scanning Probe Microscopy. Journal of Physical Chemistry B, 2008, 112, 12686-12691.	1.2	4
40	Empirical Correlation of the Morphology of Coiled Carbon Nanotubes with Their Response to Axial Compression. Journal of Nanotechnology, 2014, 2014, 1-12.	1.5	4
41	Kinetic and electrochemical study of nitrile adducts of tetrachloro-bis (1,2-bis(diphenylphosphine)methane)dirhenium(II). Transition Metal Chemistry, 1995, 20, 409-412.	0.7	3
42	Electrosynthesis of Sodium Hydrosulfite: I. Development of an Online Process Control Monitor. Journal of the Electrochemical Society, 1998, 145, 4052-4056.	1.3	3
43	Anthraquinone compounds as redox mediators for enhanced continuous-flow anaerobic biotransformation of reactive dyes under hypersaline conditions. Desalination and Water Treatment, 2011, 33, 68-76.	1.0	3
44	<title>Scanning tunneling microscopic imaging of electrostatically immobilized nucleic acids: the&lt;br&gt;influence of self-assembled monolayer structure on the binding of plasmid DNA to gold&lt;br&gt;surfaces</title> . , 1993, 1891, 48.		2
45	Peeling of Long, Straight Carbon Nanotubes from Surfaces. Journal of Nanotechnology, 2014, 2014, 1-11.	1.5	2
46	An Electrochemical Investigation of Several μâ€Nitrido Iron Porphyrin Dimers. Journal of the Electrochemical Society, 1980, 127, 307C-309C.	1.3	1
47	Molecular Design of Next-generation Single Walled Carbon Nanotubes-Polymer Composites. Microscopy and Microanalysis, 2004, 10, 134-135.	0.2	1
48	Adhesive and Mechanical Properties of Carbon Nanotube Probes Contacting Chemically-Treated Surfaces. , 2011, , .		1
49	Structural characterization and nanometer-scale domain formation in phospholipid model membranes by infrared spectroscopy and scanning tunneling microscopy. , 1994, , .		Ο
50	Preparation of atomically smooth Ge substrates for combined IR spectroscopy and scanning probe microscopy of organic monolayers. , 1994, , .		0
51	Force Spectroscopy of Biopolymers:Correlating Molecular Structure with Single Molecule Elasticity. Microscopy and Microanalysis, 2004, 10, 204-205.	0.2	Ο
52	Single Molecule Mechanical Testing of Mimetic-Elastin Molecules. Microscopy and Microanalysis, 2004, 10, 1096-1097.	0.2	0