Frank Marken

List of Publications by Citations

542 papers	14,986 citations	57 h-index	91 g-index
579 ext. papers	16,098 ext. citations	5.2 avg, IF	6.52 L-index

#	Paper	IF	Citations
542	Water-induced accelerated ion diffusion: voltammetric studies in 1-methyl-3-[2,6-(S)-dimethylocten-2-yl]imidazolium tetrafluoroborate, 1-butyl-3-methylimidazolium tetrafluoroborate and hexafluorophosphate ionic liquids. *New Journal of Chemistry*, **2000**, 24, 1009-1015	3.6	474
541	Exploiting the reversible covalent bonding of boronic acids: recognition, sensing, and assembly. *Accounts of Chemical Research*, **2013**, 46, 312-26	24.3	457
540	Electroanalysis at Diamond-Like and Doped-Diamond Electrodes. *Electroanalysis*, **2003**, 15, 1349-1363	3	300
539	Sonoelectrochemical processes: A review. *Electroanalysis*, **1997**, 9, 509-522	3	217
538	Nanoparticles in electrochemical sensors for environmental monitoring. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 1704-1715	14.6	186
537	Kinetics and mechanism of light-driven oxygen evolution at thin film □Fe2O3 electrodes. *Chemical Communications*, **2012**, 48, 2027-9	5.8	183
536	Electrochemical Analysis of Solids. A Review. *Collection of Czechoslovak Chemical Communications*, **2002**, 67, 163-208		175
535	Non-invasive, transdermal, path-selective and specific glucose monitoring via a graphene-based platform. *Nature Nanotechnology*, **2018**, 13, 504-511	28.7	166
534	Electrochemistry of immobilised redox droplets: Concepts and applications. *Physical Chemistry Chemical Physics*, **2003**, 5, 4053	3.6	164
533	Redox processes in microdroplets studied by voltammetry, microscopy and ESR spectroscopy: oxidation ofN,N,N?,N?-tetrahexylphenylene diamine deposited on solid electrode surfaces and immersed in aqueous electrolyte solution. *Journal of Electroanalytical Chemistry*, **1997**, 437, 209-218	4.1	162
532	Plasmon resonance scattering spectroscopy at the single-nanoparticle level: real-time monitoring of a click reaction. *Angewandte Chemie - International Edition*, **2013**, 52, 6011-4	16.4	154
531	An ionic liquid as a solvent for headspace single drop microextraction of chlorobenzenes from water samples. *Analytica Chimica Acta*, **2007**, 584, 189-95	6.6	148
530	New bis(triazinyl) pyridines for selective extraction of americium(III). *New Journal of Chemistry*, **2006**, 30, 1171	3.6	145
529	Electrochemically induced surface modifications of boron-doped diamond electrodes: an X-ray photoelectron spectroscopy study. *Diamond and Related Materials*, **2000**, 9, 390-396	3.5	145
528	New insights into water splitting at mesoporous □Fe2O3 films: a study by modulated transmittance and impedance spectroscopies. *Journal of the American Chemical Society*, **2012**, 134, 1228-34	14.4	140
527	Electrochemical Study of Microcrystalline Solid Prussian Blue Particles Mechanically Attached to Graphite and Gold Electrodes: Electrochemically Induced Lattice Reconstruction. *The Journal of Physical Chemistry*, **1995**, 99, 2096-2103		139
526	Towards paired and coupled electrode reactions for clean organic microreactor electrosyntheses. *Journal of Applied Electrochemistry*, **2006**, 36, 617-634	2.6	133

525	Carbon-based quantum particles: an electroanalytical and biomedical perspective. *Chemical Society Reviews*, **2019**, 48, 4281-4316	58.5	119
524	Dual activation: coupling ultrasound to electrochemistry□n overview. *Electrochimica Acta*, **1997**, 42, 2919-2927	6.7	118
523	Ionic liquid modified electrodes. Unusual partitioning and diffusion effects of Fe(CN)64/3□n droplet and thin layer deposits of 1-methyl-3-(2,6-(S)-dimethylocten-2-yl)-imidazolium tetrafluoroborate. *Journal of Electroanalytical Chemistry*, **2000**, 493, 75-83	4.1	114
522	All-Polystyrene 3D-Printed Electrochemical Device with Embedded Carbon Nanofiber-Graphite-Polystyrene Composite Conductor. *Electroanalysis*, **2016**, 28, 1517-1523	3	111
521	Accumulation and Reactivity of the Redox Protein Cytochromecin Mesoporous Films of TiO2Phytate. *Langmuir*, **2003**, 19, 4327-4331	4	105
520	The electrochemical reduction of indigo dissolved in organic solventsand as a solid mechanically attached to a basal plane pyrolytic graphiteelectrode immersed in aqueous electrolyte solution. *Journal of the Chemical Society Perkin Transactions II*, **1997**, 1735-1742		100
519	Conformal transformation of [Co(bdc)(DMF)] (Co-MOF-71, bdc = 1,4-benzenedicarboxylate, DMF = N,N-dimethylformamide) into porous electrochemically active cobalt hydroxide. *Electrochemistry Communications*, **2013**, 27, 9-13	5.1	97
518	Self-supported and clean one-step cathodic coupling of activated olefins with benzyl bromide derivatives in a micro flow reactor. *Angewandte Chemie - International Edition*, **2006**, 45, 4146-9	16.4	96
517	Voltammetry in the presence of ultrasound: Can ultrasound modify heterogeneous electron transfer kinetics?. *Journal of Electroanalytical Chemistry*, **1995**, 395, 335-339	4.1	93
516	Electrochemical and X-ray diffraction study of the redox cycling of nanocrystals of 7,7,8,8-tetracyanoquinodimethane. Observation of a solid□olid phase transformation controlled by nucleation and growth. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 3925-3933		93
515	Voltammetry in the presence of ultrasound: the limit of acoustic streaming induced diffusion layer thinning and the effect of solvent viscosity. *Journal of Electroanalytical Chemistry*, **1996**, 415, 55-63	4.1	92
514	Self-supported paired electrosynthesis of 2,5-dimethoxy-2,5-dihydrofuran using a thin layer flow cell without intentionally added supporting electrolyte. *Electrochemistry Communications*, **2005**, 7, 35-39	5.1	87
513	Mechanistic aspects of the electron and ion transport processes across the electrode | solid | solvent (electrolyte) interface of microcrystalline decamethylferrocene attached mechanically to a graphite electrode. *Journal of Electroanalytical Chemistry*, **1994**, 372, 125-135	4.1	86
512	Paired electrosynthesis: micro-flow cell processes with and without added electrolyte. *Electrochemistry Communications*, **2002**, 4, 825-831	5.1	85
511	A novel cation-binding TiO2 nanotube substrate for electro- and bioelectro-catalysis. *Electrochemistry Communications*, **2005**, 7, 1050-1058	5.1	84
510	Generator-collector double electrode systems: a review. *Analyst, The*, **2012**, 137, 1068-81	5	82
509	Manganese binding to the prion protein. *Journal of Biological Chemistry*, **2008**, 283, 12831-9	5.4	81
508	Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures. *Electrochemistry Communications*, **2010**, 12, 632-635	5.1	79

507	Simultaneous Electrochemical Detection and Determination of Lead and Copper at Boron-Doped Diamond Film Electrodes. *Electroanalysis*, **2002**, 14, 262-272	3	76
506	An ambient aqueous synthesis for highly dispersed and active Pd/C catalyst for formic acid electro-oxidation. *Journal of Power Sources*, **2010**, 195, 7246-7249	8.9	75
505	Directed assembly of multilayers--the case of Prussian blue. *Chemical Communications*, **2001**, 1994-5	5.8	70
504	Electrostatic accumulation and determination of triclosan in ultrathin carbon nanoparticle composite film electrodes. *Analytica Chimica Acta*, **2007**, 593, 117-22	6.6	68
503	Ultrathin Carbon Nanoparticle Composite Film Electrodes: Distinguishing Dopamine and Ascorbate. *Electroanalysis*, **2007**, 19, 1032-1038	3	67
502	Direct cytochrome c electrochemistry at boron-doped diamond electrodes. *Electrochemistry Communications*, **2002**, 4, 62-66	5.1	66
501	Large-amplitude Fourier transformed high-harmonic alternating current cyclic voltammetry: kinetic discrimination of interfering Faradaic processes at glassy carbon and at boron-doped diamond electrodes. *Analytical Chemistry*, **2004**, 76, 3619-29	7.8	65
500	Electrochemical analysis of nucleic acids at boron-doped diamond electrodes. *Analyst, The*, **2002**, 127, 329-32	5	65
499	Metastable ionic diodes derived from an amine-based polymer of intrinsic microporosity. *Angewandte Chemie - International Edition*, **2014**, 53, 10751-4	16.4	64
498	Triple-decker complexes. 9. Triple-decker complexes with bridging cyclopentadienyl ligands and novel cyclopentadienyl transfer reactions. *Organometallics*, **1993**, 12, 4039-4045	3.8	64
497	Electrochemical sensing using boronic acids. *Chemical Communications*, **2015**, 51, 14562-73	5.8	63
496	Hydrophilic carbon nanoparticle-laccase thin film electrode for mediatorless dioxygen reduction: SECM activity mapping and application in zinc-dioxygen battery. *Electrochimica Acta*, **2009**, 54, 4620-4625	6.7	62
495	Electrocatalytic oxidation of nitric oxide at TiO2/Au nanocomposite film electrodes. *Electrochemistry Communications*, **2007**, 9, 436-442	5.1	61
494	Arsenite Determination in Phosphate Media at Electroaggregated Gold Nanoparticle Deposits. *Electroanalysis*, **2008**, 20, 1286-1292	3	61
493	Electrochemically Driven Ion Insertion Processes across Liquid|Liquid Boundaries: Neutral versus Ionic Redox Liquids. *Journal of Physical Chemistry B*, **2001**, 105, 1344-1350	3.4	61
492	The synucleins are a family of redox-active copper binding proteins. *Biochemistry*, **2011**, 50, 37-47	3.2	60
491	Microwave activation of electrochemical processes: enhanced electrodehalogenation in organic solvent media. *Journal of the American Chemical Society*, **2002**, 124, 9784-8	16.4	60
490	Microwave activation of electrochemical processes at microelectrodes. *Chemical Communications*, **1998**, 2595-2596	5.8	59

489	Voltammetry at carbon nanofiber electrodes. *Electrochemistry Communications*, **2001**, 3, 177-180	5.1	59
488	Voltammetry, electron microscopy, and x-ray electron probe microanalysis at the electrode-aqueous electrolyte interface of solid microcrystalline cis- and trans-Cr(CO)2(dpe)2 and trans-[Cr(CO)2(dpe)2]+ complexes (dpe = Ph2PCH2CH2PPh2) mechanically attached to carbon electrodes. *Journal of the American Chemical Society*, **1993**, 115, 9556-9562	16.4	59
487	Chemically surface-modified carbon nanoparticle carrier for phenolic pollutants: Extraction and electrochemical determination of benzophenone-3 and triclosan. *Analytica Chimica Acta*, **2008**, 616, 28-35	6.6	58
486	Evidence for Nucleation-Growth, Redistribution, and Dissolution Mechanisms during the Course of Redox Cycling Experiments on the C60/NBu4C60Solid-State Redox System:Voltammetric, SEM, and in Situ AFM Studies. *Journal of Physical Chemistry B*, **1999**, 103, 5637-5644	3.4	58
485	Anion Detection by Electro-Insertion into N, N, N?, N?-Tetrahexyl-Phenylenediamine (THPD) Microdroplets Studied by Voltammetry, EQCM, and SEM Techniques. *Electroanalysis*, **1998**, 10, 821-826	3	57
484	Electrochemistry at boron-doped diamond films grown on graphite substrates: redox-, adsorption and deposition processes. *Journal of Electroanalytical Chemistry*, **1998**, 442, 207-216	4.1	57
483	Direct electrochemistry of nanoparticulate Fe2O3 in aqueous solution and adsorbed onto tin-doped indium oxide. *Pure and Applied Chemistry*, **2001**, 73, 1885-1894	2.1	57
482	Chemistry of polynuclear metal complexes with bridging carbene or carbyne ligands. Part 79. Synthesis and reactions of the alkylidynemetal complexes [M(CR)(CO)2(C5H5)](R = C6H3Me2-2,6, M = Cr, Mo, or W; R = C6H4Me-2, C6H4OMe-2, or C6H4NMe2-4, M = MO); crystal structure of the compound [MoFe(μ-CC6H3Me2-2,6)(CO)5(C5H5)]. *Journal of the Chemical Society Dalton*		57
481	Metal-organic frameworks post-synthetically modified with ferrocenyl groups: framework effects on redox processes and surface conduction. *Dalton Transactions*, **2012**, 41, 1475-80	4.3	56
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478	Ferrocene-decorated nanocrystalline cellulose with charge carrier mobility. *Langmuir*, **2012**, 28, 6514-9	4	55
477	Sonoelectrochemical and sonochemical effects of cavitation: correlation with interfacial cavitation induced by 20 kHz ultrasound. *Ultrasonics Sonochemistry*, **2000**, 7, 7-14	8.9	55
476	Electroanalytical thin film electrodes based on a Nafion multi-walled carbon nanotube composite. *Electrochemistry Communications*, **2004**, 6, 917-922	5.1	54
475	The development of boronic acids as sensors and separation tools. *Chemical Record*, **2012**, 12, 464-78	6.6	53
474	A redox-activated fluorescence switch based on a ferrocene-fluorophore-boronic ester conjugate. *Chemical Communications*, **2015**, 51, 1293-6	5.8	52
473	Thin-Film Modified Electrodes with Reconstituted Cellulose PDDAC Films for the Accumulation and Detection of Triclosan. *Journal of Physical Chemistry C*, **2008**, 112, 2660-2666	3.8	51
472	Probing Thermodynamic Aspects of Electrochemically Driven Ion-Transfer Processes Across Liquid|Liquid Interfaces: Pure versus Diluted Redox Liquids. *Journal of Physical Chemistry B*, **2002**, 106, 8697-8704	3.4	51

471	Self-Supported Methoxylation and Acetoxylation Electrosynthesis Using a Simple Thin-Layer Flow Cell. *Journal of the Electrochemical Society*, **2006**, 153, D143	3.9	50
470	Voltammetry of Electroactive Oil Droplets. Part II: Comparison of Experimental and Simulation Data for Coupled Ion and Electron Insertion Processes and Evidence for Microscale Convection. *Electroanalysis*, **2000**, 12, 1017-1025	3	50
469	Comparison of three optimized digestion methods for rapid determination of chemical oxygen demand: Closed microwaves, open microwaves and ultrasound irradiation. *Analytica Chimica Acta*, **2006**, 561, 210-217	6.6	48
468	Hemoglobin adsorption into TiO2 phytate multi-layer films: particle size and conductivity effects. *Electrochemistry Communications*, **2004**, 6, 1249-1253	5.1	48
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466	Emulsion electrosynthesis in the presence of power ultrasound Biphasic Kolbe coupling processes at platinum and boron-doped diamond electrodes. *Journal of Electroanalytical Chemistry*, **2001**, 507, 135-143	4.1	48
465	Enhanced chemical reversibility of redox processes incyanine dye rotaxanes. *Chemical Communications*, **2001**, 1046-1047	5.8	48
464	Microwave-Enhanced Anodic Stripping Detection of Lead in a River Sediment Sample. A Mercury-Free Procedure Employing a Boron-Doped Diamond Electrode. *Electroanalysis*, **2001**, 13, 831-835	3	47
463	Nanoporous iron oxide membranes: layer-by-layer deposition and electrochemical characterisation of processes within nanopores. *New Journal of Chemistry*, **2002**, 26, 625-629	3.6	46
462	The direct electrochemistry of ferritin compared with the direct electrochemistry of nanoparticulate hydrous ferric oxide. *New Journal of Chemistry*, **2002**, 26, 259-263	3.6	46
461	Water desalination concept using an ionic rectifier based on a polymer of intrinsic microporosity (PIM). *Journal of Materials Chemistry A*, **2015**, 3, 15849-15853	13	45
460	Carbon nanoparticle–chitosan composite electrode with anion, cation, and neutral binding sites: Dihydroxybenzene selectivity. *Sensors and Actuators B: Chemical*, **2012**, 162, 194-200	8.5	45
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458	Microwave activation of electrochemical processes: convection, thermal gradients and hot spot formation at the electrode|solution interface. *New Journal of Chemistry*, **2000**, 24, 653-658	3.6	45
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456	The use of ultrasound in the enhancement of the deposition and detection of metals in anodic stripping voltammetry. *Electroanalysis*, **1997**, 9, 19-22	3	44
455	Synthesis, structure, and redox states of homoleptic d-block metal complexes with bis-1,2,4-triazin-3-yl-pyridine and 1,2,4-triazin-3-yl-bipyridine extractants. *Polyhedron*, **2006**, 25, 888-900	2.7	44
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452	Enantioselective Organocatalytic Epoxidation Driven by Electrochemically Generated Percarbonate and Persulfate. *Advanced Synthesis and Catalysis*, **2008**, 350, 1149-1154	5.6	43
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450	Detection of new features associated with the oxidation of microcrystalline tetrathiafulvalene attached to gold electrodes by the simultaneous application of electrochemical and quartz crystal microbalance techniques. *Electroanalysis*, **1996**, 8, 732-741	3	43
449	Sonoelectrochemically modified electrodes: ultrasound assisted electrode cleaning, conditioning, and product trapping in 1-octanol/water emulsion systems. *Electrochimica Acta*, **1998**, 43, 2157-2165	6.7	41
448	Sono-electroanalysis: Application to the detection of lead in wine. *Electrochimica Acta*, **1998**, 43, 3443-3449	6.7	41
447	Electrochemical and sonoelectrochemical monitoring of indigo reduction by glucose. *Dyes and Pigments*, **2008**, 76, 542-549	4.6	41
446	Biphasic sonoelectrosynthesis. A review. *Pure and Applied Chemistry*, **2001**, 73, 1947-1955	2.1	41
445	Methylene Green Voltammetry in Aqueous Solution: Studies Using Thermal, Microwave, Laser, or Ultrasonic Activation at Platinum Electrodes. *Journal of Physical Chemistry B*, **1999**, 103, 9987-9995	3.4	41
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442	Electrochemical reactivity of TiO2 nanoparticles adsorbed onto boron-doped diamond surfaces. *Electrochemistry Communications*, **2004**, 6, 1153-1158	5.1	40
441	Thermal activation of electrochemical processes in a Rf-heated channel flow cell: experiment and finite element simulation. *Journal of Electroanalytical Chemistry*, **2000**, 492, 150-155	4.1	40
440	Aerosol-Assisted CVD of Bismuth Vanadate Thin Films and Their Photoelectrochemical Properties. *Chemical Vapor Deposition*, **2015**, 21, 41-45		39
439	Fluorescent boron bis(phenolate) with association response to chloride and dissociation response to fluoride. *Inorganic Chemistry*, **2008**, 47, 6236-44	5.1	39
438	Modeling Hot Wire Electrochemistry. Coupled Heat and Mass Transport at a Directly and Continuously Heated Wire. *Journal of Physical Chemistry B*, **2000**, 104, 764-769	3.4	39
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436	Direct reversible voltammetry and electrocatalysis with surface-stabilised Fe2O3 redox states. *Electrochemistry Communications*, **2008**, 10, 1773-1776	5.1	38

435	New application for the BiVO4 photoanode: A photoelectroanalytical sensor for nitrite. *Electrochemistry Communications*, **2015**, 61, 1-4	5.1	37
434	Polymers of intrinsic microporosity in electrocatalysis: Novel pore rigidity effects and lamella palladium growth. *Electrochimica Acta*, **2014**, 128, 3-9	6.7	37
433	Voltammetric analysis of iron oxide pigments. *Analyst, The*, **2002**, 127, 1100-7	5	37
432	Voltammetry in the Presence of Ultrasound:Sonovoltammetric Detection of Cytochromecunder Very Fast Mass Transport Conditions. *The Journal of Physical Chemistry*, **1996**, 100, 17395-17399		37
431	Voltammetry in the presence of ultrasound: A novel sono-electrode geometry. *Electrochimica Acta*, **1996**, 41, 1541-1547	6.7	37
430	Microwave-Assisted Electroanalysis: A Review. *Electroanalysis*, **2009**, 21, 113-123	3	36
429	Boronic acid dendrimer receptor modified nanofibrillar cellulose membranes. *Journal of Materials Chemistry*, **2010**, 20, 588-594		36
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427	Electrochemical Detection of As(III) via Iodine Electrogenerated at Platinum, Gold, Diamond or Carbon-Based Electrodes. *Electroanalysis*, **2004**, 16, 897-903	3	36
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425	Pulse-voltammetric glucose detection at gold junction electrodes. *Analytical Chemistry*, **2010**, 82, 7063-7	7.8	35
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423	High-frequency sonoelectrochemical processes: mass transport, thermal and surface effects induced by cavitation in a 500 kHz reactor. *Ultrasonics Sonochemistry*, **1999**, 6, 189-197	8.9	35
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415	Plasmon Resonance Scattering Spectroscopy at the Single-Nanoparticle Level: Real-Time Monitoring of a Click Reaction. *Angewandte Chemie*, **2013**, 125, 6127-6130	3.6	33
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412	Mesoporous platinum hosts for electrode|liquid|liquid Triple phase boundary redox systems. *Electrochemistry Communications*, **2005**, 7, 1333-1339	5.1	33
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408	Probing carboxylate Gibbs transfer energies via liquid|liquid transfer at triple phase boundary electrodes: ion-transfer voltammetry versus COSMO-RS predictions. *Physical Chemistry Chemical Physics*, **2008**, 10, 3925-33	3.6	32
407	Microwave activation of electrochemical processes: High temperature phenol and triclosan electro-oxidation at carbon and diamond electrodes. *Electrochimica Acta*, **2007**, 53, 1092-1099	6.7	32
406	Focused microwaves in electrochemical processes. *Electrochimica Acta*, **2006**, 51, 2195-2203	6.7	32
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402	Sonoelectrochemical investigation of silver analysis at a highly boron-doped diamond electrode. *Talanta*, **2000**, 53, 403-15	6.2	32
401	Laser activation voltammetry: selective removal of reduced forms of methyl viologen deposited on glassy carbon and boron-doped diamond electrodes. *Analytical Chemistry*, **2000**, 72, 2362-70	7.8	32
400	Mechanistic Study of the Voltammetry of Nonconducting Microcrystalline cis- and trans-Cr(CO)2(dpe)2 Complexes (dpe = Ph2PCH2CH2PPh2) Mechanically attached to a Graphite Electrode and Immersed in Different Aqueous Electrolyte Media: Identification by Infrared Spectroscopy of cis-[Cr(CO)2(dpe)2]+ Stabilized at the Electrode-Solid-Solution Interface. *Organometallics*, **1994**, 13, 5122-5131	3.8	32

399	Continuous low temperature synthesis of MAPbX3 perovskite nanocrystals in a flow reactor. *Reaction Chemistry and Engineering*, **2018**, 3, 640-644	4.9	31
398	Electrochemical Investigation of Hemispherical Microdroplets of N,N-Didodecyl-N′,N′-diethylphenylenediamine Immobilized as Regular Arrays on Partially-Blocked Electrodes: A New Approach to Liquid|Liquid Voltammetry. *Journal of Physical Chemistry C*, **2007**, 111, 9992-10002	3.8	31
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396	Growth and Application of Paired Gold Electrode Junctions: Evidence for Nitrosonium Phosphate During Nitric Oxide Oxidation. *Electroanalysis*, **2008**, 20, 2403-2409	3	31
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