Michael D Ryan

List of Publications by Year
in descending order

85 papers	1,843 citations	257101 24 h-index	288905 40 g-index
86 all docs	86 docs citations	86 times ranked	1188 citing authors

#	Article	IF	Citations
1	The Electrochemical Oxidation of Substituted Catechols. Journal of the Electrochemical Society, 1980, 127, 1489-1495.	1.3	193
2	Impact of the Flipped Classroom on Student Performance and Retention: A Parallel Controlled Study in General Chemistry. Journal of Chemical Education, 2016, 93, 13-23.	1.1	188
3	Electrochemical and spectroscopic studies of iron porphyrin nitrosyls and their reduction products. Inorganic Chemistry, 1991, 30, 1832-1839.	1.9	117
4	Effect of metal ions on the electrochemical reduction of benzil in non-aqueous solvents. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1976, 67, 333-357.	0.3	53
5	Mechanism of antibacterial action: Electron transfer and oxy radicals. Journal of Free Radicals in Biology & Medicine, 1986, 2, 377-391.	2.1	49
6	Cyclic voltammetry of phenazines and quinoxalines including mono- and di-N-oxides. Relation to structure and antimicrobial activity. Chemico-Biological Interactions, 1986, 60, 67-84.	1.7	49
7	Direct Voltammetric Observation of Redox Driven Changes in Axial Coordination and Intramolecular Rearrangement of the Phenylalanine-82-Histidine Variant of Yeast Iso-1-cytochromecâ€. Biochemistry, 1998, 37, 13091-13101.	1.2	48
8	The Effect of Slow Twoâ€Electron Transfers and Disproportionation on Cyclic Voltammograms. Journal of the Electrochemical Society, 1978, 125, 547-555.	1.3	45
9	Reactions of Hydroxylamine with Metal Porphyrins. Inorganic Chemistry, 1997, 36, 3113-3118.	1.9	45
10	Infrared Spectroelectrochemical Reduction of Iron Porphyrin Complexes. Inorganic Chemistry, 2010, 49, 6948-6954.	1.9	45
11	The electrochemical reduction of iron porphyrin nitrosyls in the presence of weak acids. Journal of Electroanalytical Chemistry, 1994, 368, 209-219.	1.9	40
12	Charge transfer and oxy radicals in antimalarial action. Quinones, dapsone metabolites, metal complexes, imunium ions, and peroxides. Journal of Free Radicals in Biology & Medicine, 1985, 1, 353-361.	2.1	34
13	Spectroelectrochemical evaluation of homogeneous electron transfer involving biological molecules. Analytical Chemistry, 1975, 47, 885-890.	3.2	33
14	Electrochemistry of nitrite reductase model compounds. 3. Formation and characterization of a bis(hydroxylamine)(tetraphenylporphyrinato)iron(II) complex. Inorganic Chemistry, 1987, 26, 2480-2483.	1.9	32
15	Electrochemistry of nitrite reductase model compounds 6. Voltammetric and spectroelectrochemical studies of iron(II) nitrosyl complexes with porphyrins, hydroprophyrins and porphinones. Inorganica Chimica Acta, 1997, 258, 247-255.	1.2	32
16	Charge Transfer in the Mechanism of Drug Action Involving Quinoxaline Di-N-oxides. Journal of Pharmaceutical Sciences, 1985, 74, 492-495.	1.6	30
17	An integrated concept of amebicidal action: Electron transfer and oxy radicals. Free Radical Biology and Medicine, 1987, 3, 85-96.	1.3	30
18	Cyclic voltammetry with cyclic iminium ions: Implications for charge transfer with biomolecules (metabolites of nicotine, phencyclidine, and spermine). Bioorganic Chemistry, 1986, 14, 228-241.	2.0	29

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19	Redox and Spectroscopic Properties of Iron Porphyrin Nitroxyl in the Presence of Weak Acids. Inorganic Chemistry, 2017, 56, 3302-3309.	1.9	28
20	Charge transfer mechanism for benzodiazepine (BZ) action. Bioelectrochemistry, 1986, 16, 407-426.	1.0	27
21	Visible and resonance Raman spectra of low valent iron porphyrins. Inorganica Chimica Acta, 1999, 287, 21-26.	1.2	27
22	X-ray Structure and Properties of the Ferrous Octaethylporphyrin Nitroxyl Complex. Inorganic Chemistry, 2016, 55, 2070-2075.	1.9	27
23	Use of Evolutionary Factor Analysis in the Spectroelectrochemistry ofEscherichia coliSulfite Reductase Hemoprotein and a Mo/Fe/S Cluster. Analytical Chemistry, 1999, 71, 1744-1752.	3.2	26
24	Electrochemistry and Spectroelectrochemistry of 1,4-Dinitrobenzene in Acetonitrile and Room-Temperature Ionic Liquids: Ion-Pairing Effects in Mixed Solvents. Analytical Chemistry, 2014, 86, 6617-6625.	3.2	26
25	The electrochemistry of iron porphyrin nitrosyls in the presence of pyridines and amines. Inorganica Chimica Acta, 1988, 153, 25-30.	1.2	24
26	Electrochemistry of nitrite reductase model compounds. 1. Electrochemistry of iron tetraphenylchlorin. Inorganic Chemistry, 1985, 24, 612-617.	1.9	23
27	Oxidative Ionic Metabolites of L-Methyl-4-Phenyl-L, 2, 3, 6-Tetrahydropy-Ridine (MPTP): Correlation of Electro-Reduction with Physiological Behavior. Free Radical Research Communications, 1986, 2, 107-113.	1.8	23
28	Effect of Sodium Ions on the Electrochemical Reduction of Diethyl Fumarate in Dimethylsulfoxide and Acetonitrile. Journal of the Electrochemical Society, 1974, 121, 881.	1.3	21
29	The chronoamperometric determination of homogeneous small molecule-redox protein reaction rates. Analytical Biochemistry, 1979, 96, 326-333.	1.1	21
30	Conjugated and cross-conjugated mesomeric betaines. correlation of electroreduction with structure and physiological activity. Life Sciences, 1986, 39, 1085-1091.	2.0	21
31	Electrochemistry of nitrite reductase model compounds. 2. Formation of an iron bis-nitro porphyrin complex. Inorganic Chemistry, 1986, 25, 2606-2610.	1.9	21
32	Reduction potentials of anthelmintic drugs: Possible relationship to activity. Free Radical Biology and Medicine, 1989, 6, 131-139.	1.3	21
33	The redox couple of the cytochrome c cyanide complex: The contribution of heme iron ligation to the structural stability, chemical reactivity, and physiological behavior of horse cytochrome c. Protein Science, 2006, 15, 234-241.	3.1	20
34	Comparative kinetic-ionic strength study of two differently charged cytochromes c: Effects are limited to overall charge. Biochemical and Biophysical Research Communications, 1977, 79, 769-775.	1.0	19
35	Cyclic Voltammetry of Quinolinium Salts and Related Compounds: Correlation with Structure and Anticancer Activity. Journal of Pharmaceutical Sciences, 1987, 76, 481-484.	1.6	19
36	844 â€" Charge transfer mechanism for carcinogenesis by alkylating and other agents. Bioelectrochemistry, 1986, 15, 305-316.	1.0	18

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37	Mode of action of antiprotozoan agents. Electron transfer and oxy radicals. Life Sciences, 1987, 41, 1895-1902.	2.0	18
38	Electrochemistry and spectroelectrochemistry of iron porphyrins in the presence of nitrite. Inorganica Chimica Acta, 2001, 314, 49-57.	1.2	18
39	Reduction potentials of antimycobacterial agents: Relationship to activity. Bioelectrochemistry, 1989, 21, 269-278.	1.0	17
40	A novel approach to Î²-lactam chemistry in vivo: Electron transfer and oxy radical formation by iminium. Bioorganic Chemistry, 1987, 15, 423-441.	2.0	15
41	Electrochemistry of nitrite reductase model compounds 5. Electrochemistry and spectroelectrochemistry of iron porphinone, porphindione and isobacteriochlorin complexes. Inorganica Chimica Acta, 1994, 225, 57-66.	1.2	14
42	The use of rotating disk voltammetry for the determination of homogeneous small molecule-redox protein reaction rates. Analytical Biochemistry, 1980, 106, 269-277.	1.1	13
43	Electrochemistry of the Anticancer Agents Methotrexate and Î±-Difluaromethylornithine in Iminium Form. Journal of Pharmaceutical Sciences, 1988, 77, 999-1002.	1.6	13
44	Electron transfer mechanism for Î²-lactam antibiotic action via side-chain imine. Bioorganic Chemistry, 1988, 16, 149-164.	2.0	13
45	Spectroscopic Evidence of Nanodomains in THF/RTIL Mixtures: Spectroelectrochemical and Voltammetric Study of Nickel Porphyrins. Analytical Chemistry, 2015, 87, 12245-12253.	3.2	12
46	Influence of RTIL Nanodomains on the Voltammetry and Spectroelectrochemistry Of Fullerene C60 in Benzonitrile/Room Temperature Ionic Liquids Mixtures. Electrochimica Acta, 2016, 191, 567-576.	2.6	12
47	Infrared Spectroelectrochemistry of Iron-Nitrosyl Triarylcorroles. Implications for Ligand Noninnocence. Inorganic Chemistry, 2020, 59, 3232-3238.	1.9	12
48	The Electrochemical Oxidation of Organic Selenides and Selenoxides. Journal of the Electrochemical Society, 1997, 144, 1952-1957.	1.3	11
49	Molecular interpretation of kinetic-ionic strength effects. Journal of Inorganic Biochemistry, 1981, 15, 187-199.	1.5	10
50	240 - Electrochemical studies of cytochromes c. Bioelectrochemistry, 1978, 5, 478-482.	1.0	9
51	The electrochemistry and spectroelectrochemistry of sulfate complexes of iron porphyrins. Inorganica Chimica Acta, 1991, 179, 25-33.	1.2	9
52	Visible and infrared spectroelectrochemistry of cobalt porphinones and porphinediones. Journal of Electroanalytical Chemistry, 2012, 670, 16-22.	1.9	9
53	Charge Transfer-Oxy Radical Mechanism for Anticancer Agents: mAMSA Derivatives, Rhodamine 123, and Nickel Salicylaldoximate. Free Radical Research Communications, 1987, 3, 347-356.	1.8	8
54	Reaction of low-valent iron porphyrins with alkyl containing supporting electrolytes. Inorganica Chimica Acta, 1994, 226, 195-201.	1.2	8

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55	Chemical and Electrochemical Studies of Cl2FeS2MS2FeCl2n- Clusters [M = Mo (n = 2), W (n = 2), V (n =) Tj ETQq1 1 0.784314 rgBT /O	1.9	7
56	Visible and infrared spectroelectrochemistry of zinc and manganese porphinones: Metal vs. porphyrin reduction. Journal of Electroanalytical Chemistry, 2015, 744, 17-24.	1.9	7
57	Proton Transfer versus Hydrogen Bonding in a Reduced Iron Porphyrin Nitrosyl Complex. Inorganic Chemistry, 2019, 58, 13788-13795.	1.9	7
58	Proton-coupled reduction of an iron nitrosyl porphyrin in the protic ionic liquid nanodomain. Electrochimica Acta, 2019, 295, 735-741.	2.6	7
59	Minimum Essential Structural Requirements for Lactam Antibiotic Action. Free Radical Research Communications, 1989, 7, 19-26.	1.8	6
60	Insight into Solvent Coordination of an Iron Porphyrin Hydroxylamine Complex from Spectroscopy and DFT Calculations. European Journal of Inorganic Chemistry, 2018, 2018, 1762-1765.	1.0	6
61	Voltammetry and Spectroelectrochemistry of TCNQ in Acetonitrile/RTIL Mixtures. Molecules, 2020, 25, 303.	1.7	6
62	Anticancer Quinones and Quinolines: Mode of Action Via Electron Transfer and Oxidative Stress. , 1988, , 295-307.		6
63	Electron Transfer Mechanism for Cocaine Action. , 1988, , 323-331.		6
64	The electron-transfer kinetics of spinach ferredoxin with strong reductants. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 680, 242-249.	0.5	5
65	A chronoamperometric kinetic study of the reduction of the double Fe4S4 clustered ferredoxin of Clostridium pasteurianum by methylviologen. Bioelectrochemistry, 1984, 12, 575-581.	1.0	5
66	Electrochemistry of cyclic Î±-imino carboxylates and their metal complexes: Correlation with physiological activity. Chemico-Biological Interactions, 1989, 69, 235-244.	1.7	5
67	Electrochemistry and spectroscopy of sulfate and thiosulfate complexes of iron porphyrins. Inorganica Chimica Acta, 2002, 328, 13-22.	1.2	5
68	Far-infrared spectroelectrochemistry: a study of linear molybdenum/iron/sulfur clusters. Inorganica Chimica Acta, 2004, 357, 1332-1336.	1.2	5
69	Altering the Coordination of Iron Porphyrins by Ionic Liquid Nanodomains in Mixed Solvent Systems. Chemistry - A European Journal, 2017, 23, 13076-13086.	1.7	5
70	The reduction of cytochrome c by iron EDTA-like complexes: implications on charge effect corrections to mediator-protein rate constants. Journal of Inorganic Biochemistry, 1982, 17, 237-246.	1.5	4
71	Reduction potentials of antimycobacterial agents: relationship to activity. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 275, 269-278.	0.3	4
72	The use of RRDE voltammetry to study acid-base reactions in unbuffered solutions. Electrochimica Acta, 2018, 281, 17-23.	2.6	4

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73	340 - Electrochemical approaches to the study of small molecule-protein reaction rates. Bioelectrochemistry, 1980, 7, 587-594.	1.0	3
74	Reversible Proton-Coupled Reduction of an Iron Nitrosyl Porphyrin within [DBUâ€“H]+-Based Protic Ionic Liquid Nanodomains. Inorganic Chemistry, 2021, 60, 10631-10641.	1.9	3
75	Electron Transfer-Oxy Radical Mechanism for Anticancer Agents: Etoposide, Cu Dips, and BIS(9-Aminoacridines). , 1988, , 345-357.		3
76	The voltammetric study of the reduction of tetraalkylammonium perchlorate by Fe(TPP)^{2âˆ’}. Journal of Porphyrins and Phthalocyanines, 2007, 11, 519-523.	0.4	2
77	In Situ Study of the Photodegradation of Carbofuran Deposited on TiO2Film under UV Light, Using ATR-FTIR Coupled to HS-MCR-ALS. Environmental Science & Technology, 2013, 47, 130729104008008.	4.6	2
78	Electrochemical approaches to the study of small molecule-protein reaction rates. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1980, 116, 587-594.	0.3	1
79	Use of Factor Analysis in Multi-Electron Spectroelectrochemistry. AIP Conference Proceedings, 2007, , .	0.3	1
80	Spectroelectrochemical elucidation of the kinetics of two closely spaced electron transfers. Journal of Electroanalytical Chemistry, 2012, 677-680, 56-62.	1.9	1
81	Catalytic Reduction of Bisulfite by Myoglobin/Surfactant Films. Electroanalysis, 2017, 29, 2437-2443.	1.5	1
82	Investigation of solvation and solvent coordination effects in iron porphyrin nitrosyls by infrared spectroelectrochemistry and DFT calculations. Journal of Porphyrins and Phthalocyanines, 2019, 23, 639-644.	0.4	1
83	Electrochemistry of iron-sulfur proteins. , 1997, , 325-359.		0
84	Ion Pairing versus Solvation of Dinitrobenzene Anions in Room-Temperature Ionic Liquids (RTILs): Vibrational Signatures of RTILâ€“Substrate Interactions. Journal of Physical Chemistry A, 2020, 124, 10225-10238.	1.1	0
85	OVERALL CHARGE CONTROL OF THE IONIC STRENGTH EFFECTS UPON THE REDOX KINETICS OF SMALL MOLECULE-PROTEIN AND PROTEIN-PROTEIN REACTIONS. , 1979, , 569-574.		0