

Frédéric Barrère

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/246470/frederic-barriere-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

94
papers

4,011
citations

32
h-index

62
g-index

105
ext. papers

4,328
ext. citations

7
avg. IF

5.55
L-index

#	Paper	IF	Citations
94	Electrografted anthraquinone to monitor pH at the biofilm-anode interface in a wastewater microbial fuel cell. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 210, 112274	6	
93	Introducing Selenium in Single-Component Molecular Conductors Based on Nickel Bis(dithiolene) Complexes. <i>Inorganic Chemistry</i> , 2021 , 60, 7876-7886	5.1	3
92	A radical mixed-ligand gold bis(dithiolene) complex. <i>Chemical Communications</i> , 2021 , 57, 1615-1618	5.8	1
91	Denitrifying bio-cathodes developed from constructed wetland sediments exhibit electroactive nitrate reducing biofilms dominated by the genera <i>Azoarcus</i> and <i>Pontibacter</i> . <i>Bioelectrochemistry</i> , 2021 , 140, 107819	5.6	3
90	Nanoscaffold effects on the performance of air-cathodes for microbial fuel cells: Sustainable Fe/N-carbon electrocatalysts for the oxygen reduction reaction under neutral pH conditions. <i>Bioelectrochemistry</i> , 2021 , 142, 107937	5.6	4
89	Diselenolene proligands: reactivity and comparison with their dithiolene congeners. <i>New Journal of Chemistry</i> , 2021 , 45, 8971-8977	3.6	1
88	Halogen bonded metal bis(dithiolene) 2D frameworks. <i>CrystEngComm</i> , 2020 , 22, 3579-3587	3.3	11
87	Communication Electrochemical Single Nano-Impacts of Electroactive <i>Shewanella Oneidensis</i> Bacteria onto Carbon Ultramicroelectrode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 105501	3.9	4
86	Assisted lipid deposition by reductive electrochemical aryldiazonium grafting and insertion of the antiport NhaA protein in this stable biomimetic membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 190, 110924	6	2
85	Lipid Membrane Permeability of Synthetic Redox DMPC Liposomes Investigated by Single Electrochemical Collisions. <i>Analytical Chemistry</i> , 2020 , 92, 2401-2408	7.8	11
84	Tailored glycosylated anode surfaces: Addressing the exoelectrogen bacterial community via functional layers for microbial fuel cell applications. <i>Bioelectrochemistry</i> , 2020 , 136, 107621	5.6	6
83	Ambipolar Discotic Liquid Crystals Built Around Platinum Diimine-Dithiolene Cores. <i>Chemistry - A European Journal</i> , 2019 , 25, 5719-5732	4.8	4
82	Redox active films of salicylic acid-based molecules as pH and ion sensors for monitoring ionophore activity in supported lipid deposits. <i>Electrochimica Acta</i> , 2019 , 313, 261-270	6.7	1
81	Cyclization of Terphenyl-Bisfluorenols: A Mechanistic Study of the Regioselectivity. <i>Chemistry - A European Journal</i> , 2019 , 25, 10689-10697	4.8	5
80	Halogen and chalcogen-bonding interactions in sulphur-rich Electron acceptors. <i>CrystEngComm</i> , 2019 , 21, 1934-1939	3.3	3
79	Electrochemical properties of pH-dependent flavocytochrome c3 from <i>Shewanella putrefaciens</i> adsorbed onto unmodified and catechol-modified edge plane pyrolytic graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 847, 113232	4.1	5
78	Electronic Communication within Flexible Bisdithiolene Ligands Bridging Molybdenum Centers. <i>Organometallics</i> , 2019 , 38, 4399-4408	3.8	3

77	Reductive electrografting of in situ produced diazopyridinium cations: Tailoring the interface between carbon electrodes and electroactive bacterial films. <i>Bioelectrochemistry</i> , 2018 , 120, 157-165	5.6	15
76	An optimal surface concentration of pure cardiolipin deposited onto glassy carbon electrode promoting the direct electron transfer of cytochrome-c. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 808, 286-292	4.1	8
75	Conformational behavior, redox and spectroscopic properties of gold dithiolene complexes: [Au(iPr-thiazYdt) ₂] ⁺ (Y = O, S, Se). <i>Inorganica Chimica Acta</i> , 2018 , 469, 255-263	2.7	1
74	Simulation of SAXS patterns of hexa-n-alkoxy-2,3,6,7,10,11-triphenylene mesophase. <i>Liquid Crystals</i> , 2018 , 45, 698-702	2.3	3
73	Electrochemical Detection of pH-Responsive Grafted Catechol and Immobilized Cytochrome onto Lipid Deposit-Modified Glassy Carbon Surface. <i>ACS Omega</i> , 2018 , 3, 9035-9042	3.9	8
72	Electrochemical Activation of TTF-Based Halogen Bond Donors: A Powerful, Selective and Sensitive Analytical Tool for Probing a Weak Interaction in Complex Media. <i>ChemistrySelect</i> , 2018 , 3, 8874-8880	1.8	10
71	The ins and outs of microorganism-electrode electron transfer reactions. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	276
70	Direct SN1 reaction at oxidized PPF surfaces. <i>Electrochemistry Communications</i> , 2017 , 75, 48-51	5.1	1
69	Electronic Interplay between TTF and Extended-TCNQ Electrophores along a Ruthenium Bis(acetylide) Linker. <i>Organic Letters</i> , 2017 , 19, 6060-6063	6.2	7
68	Continuum in Enzymatic and Microbial Bioelectrocatalysis 2017 , 77-92		
67	CS?I halogen bonding interactions in crystalline iodinated dithiole-2-thiones and thiazole-2-thiones. <i>CrystEngComm</i> , 2016 , 18, 5474-5481	3.3	13
66	A sulfur-rich electron acceptor derived from 5,5'-bithiazolidinylidene: charge-transfer complex vs. charge-transfer salt. <i>CrystEngComm</i> , 2016 , 18, 3925-3933	3.3	12
65	Sequential Halogen Bonding with Ditopic Donors: Hole Evolutions upon Halogen Bond Formation. <i>Crystal Growth and Design</i> , 2016 , 16, 2963-2971	3.5	18
64	Interplay between Organic-Organometallic Electrophores within Bis(cyclopentadienyl)Molybdenum Dithiolene Tetrathiafulvalene Complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 5013-20	5.1	10
63	Monophyletic group of unclassified Proteobacteria dominates in mixed culture biofilm of high-performing oxygen reducing biocathode. <i>Bioelectrochemistry</i> , 2015 , 106, 167-76	5.6	42
62	Influence of inoculum and anode surface properties on the selection of Geobacter-dominated biofilms. <i>Bioresource Technology</i> , 2015 , 195, 265-72	11	20
61	Trifluoromethyl-substituted tetrathiafulvalenes. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 647-582.5		4
60	Redox-Active Molecular Wires Derived from Dinuclear Ferrocenyl/Ruthenium(II) Alkynyl Complexes: Covalent Attachment to Hydrogen-Terminated Silicon Surfaces. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3680-3695	3.8	28

59	Model Complexes of the Active Site of Nitrogenases: Recent Advances 2014 , 225-248		1
58	Electrostatic Modeling of the Tunable Potential Difference between the Two Consecutive Oxidation Steps of Dinickel Bisfulvalene. <i>Organometallics</i> , 2014 , 33, 5046-5048	3.8	13
57	Variable magnetic interactions between S = 1/2 cation radical salts of functionalizable electron-rich dithiolene and diselenolene Cp ₂ Mo complexes. <i>Inorganic Chemistry</i> , 2013 , 52, 2162-73	5.1	14
56	Ferrocene and Tetrathiafulvalene Redox Interplay across a Bis-acetylide Ruthenium Bridge. <i>Organometallics</i> , 2013 , 32, 6130-6135	3.8	13
55	A sulfur rich electron acceptor and its [Fe(Cp*) ₂] ⁺ charge transfer salt with ferromagnetic interactions. <i>Dalton Transactions</i> , 2013 , 42, 16672-5	4.3	13
54	A single sediment-microbial fuel cell powering a wireless telecommunication system. <i>Journal of Power Sources</i> , 2013 , 241, 703-708	8.9	84
53	Experimental and theoretical insights into the sequential oxidations of 3E ₂ spiro molecules derived from oligophenylenes: A comparative study of 1,2-b-DiSpiroFluorene-IndenoFluorene versus 1,2-b-DiSpiroFluorene(tert-butyl)4-IndenoFluorene. <i>Electrochimica Acta</i> , 2013 , 110, 735-740	6.7	7
52	Advanced electrokinetic characterization of composite porous membranes. <i>Journal of Membrane Science</i> , 2013 , 429, 44-51	9.6	32
51	Cis and trans-bis(tetrathiafulvalene-acetylide) platinum(II) complexes: syntheses, crystal structures, and influence of the ancillary ligands on their electronic properties. <i>Dalton Transactions</i> , 2013 , 42, 383-943	4.3	18
50	Phenylboronic Acid Modified Anodes Promote Faster Biofilm Adhesion and Increase Microbial Fuel Cell Performances. <i>Electroanalysis</i> , 2013 , 25, 601-605	3	31
49	pH and Temperature Determine Performance of Oxygen Reducing Biocathodes. <i>Electroanalysis</i> , 2013 , 25, 652-655	3	20
48	On the nature of the electrode surface modification by cathodic reduction of tetraarylporphyrin diazonium salts in aqueous media. <i>Electrochemistry Communications</i> , 2012 , 20, 167-170	5.1	16
47	A versatile route to modify polyethersulfone membranes by chemical reduction of aryldiazonium salts. <i>Journal of Membrane Science</i> , 2012 , 417-418, 131-136	9.6	16
46	Enzymatic versus microbial bio-catalyzed electrodes in bio-electrochemical systems. <i>ChemSusChem</i> , 2012 , 5, 995-1005	8.3	45
45	Preparation of chiral ruthenium(IV) complexes and applications in regio- and enantioselective allylation of phenols. <i>Dalton Transactions</i> , 2011 , 40, 5625-30	4.3	22
44	Graphite anode surface modification with controlled reduction of specific aryl diazonium salts for improved microbial fuel cells power output. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 181-8	11.8	88
43	Characterisation of yeast microbial fuel cell with the yeast <i>Arxula adenivorans</i> as the biocatalyst. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3742-7	11.8	66
42	Violet-to-blue tunable emission of aryl-substituted dispirofluorene-indenofluorene isomers by conformationally-controllable intramolecular excimer formation. <i>Chemistry - A European Journal</i> , 2011 , 17, 10272-87	4.8	61

41	Blue emitting 3E ₂ spiro terfluorene-indenofluorene isomers: a structure-properties relationship study. <i>Chemistry - A European Journal</i> , 2011 , 17, 14031-46	4.8	49
40	Identifying charge and mass transfer resistances of an oxygen reducing biocathode. <i>Energy and Environmental Science</i> , 2011 , 4, 5035	35.4	88
39	A robust pure hydrocarbon derivative based on the (2,1-b)-indenofluorenyl core with high triplet energy level. <i>Chemical Communications</i> , 2011 , 47, 11703-5	5.8	45
38	Polythiophenes containing in-chain cobaltabisdicarbollide centers. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 691-702	9.5	28
37	Redox multifunctionality in a series of Pt(II) dithiolene complexes of a tetrathiafulvalene-based diphosphine ligand. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 169-76	4.5	18
36	Organometallic electrochemistry based on electrolytes containing weakly-coordinating fluoroarylborate anions. <i>Accounts of Chemical Research</i> , 2010 , 43, 1030-9	24.3	268
35	Persistent mixed-valence [(TTF) ₂] ⁺ dyad of a chiral bis(binaphthol)-tetrathiafulvalene (TTF) derivative. <i>Chemistry - A European Journal</i> , 2010 , 16, 8020-8	4.8	33
34	(2,1-a)-Indenofluorene derivatives: syntheses, X-ray structures, optical and electrochemical properties. <i>Chemistry - A European Journal</i> , 2010 , 16, 13646-58	4.8	49
33	Tetrathiafulvalene hydrazone: efficient synthon for the synthesis of novel bidentate redox active ligands. <i>Tetrahedron Letters</i> , 2010 , 51, 4497-4500	2	6
32	Dependence of catalytic activity and long-term stability of enzyme hydrogel films on curing time. <i>Bioelectrochemistry</i> , 2010 , 79, 142-6	5.6	12
31	Encumbered dispiro[fluorene-indenofluorene]: mechanistic insights. <i>Chemistry - A European Journal</i> , 2009 , 15, 13304-7	4.8	38
30	Covalent immobilization and SECM analysis in feedback mode of glucose oxidase on a modified oxidized silicon surface. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 628, 144-147	4.1	10
29	Tuning the optical properties of aryl-substituted dispirofluorene-indenofluorene isomers through intramolecular excimer formation. <i>Organic Letters</i> , 2009 , 11, 4794-7	6.2	47
28	An improved microbial fuel cell with laccase as the oxygen reduction catalyst. <i>Energy and Environmental Science</i> , 2009 , 2, 96-99	35.4	99
27	Electronic communication between metal-organic electrophores in an organometallic ruthenium-acetylide-tetrathiafulvalene complex. <i>Chemical Communications</i> , 2009 , 7200-2	5.8	25
26	Electropolymerizable 2,2'QCarboranyldithiophenes. Structure-Property Investigations of the Corresponding Conducting Polymer Films by Electrochemistry, UV-Visible Spectroscopy and Conducting Probe Atomic Force Microscopy. <i>Macromolecules</i> , 2009 , 42, 2981-2987	5.5	44
25	Optimized preparation and scanning electrochemical microscopy analysis in feedback mode of glucose oxidase layers grafted onto conducting carbon surfaces. <i>Langmuir</i> , 2008 , 24, 9089-95	4	31
24	Bacteria and yeasts as catalysts in microbial fuel cells: electron transfer from micro-organisms to electrodes for green electricity. <i>Energy and Environmental Science</i> , 2008 , 1, 607	35.4	156

23	Redox bifunctionality in a Pt(ii) dithiolene complex of a tetrathiafulvalene diphosphine ligand. <i>Dalton Transactions</i> , 2008 , 5869-71	4.3	18
22	Anodic oxidation of indenofluorene. Electrodeposition of electroactive poly(indenofluorene). <i>New Journal of Chemistry</i> , 2008 , 32, 1259	3.6	18
21	Designing stable redox-active surfaces: chemical attachment of an osmium complex to glassy carbon electrodes prefunctionalized by electrochemical reduction of an in situ-generated aryl diazonium cation. <i>Langmuir</i> , 2008 , 24, 6351-8	4	72
20	New dispiro compounds: synthesis and properties. <i>Organic Letters</i> , 2008 , 10, 373-6	6.2	48
19	Powering fuel cells through biocatalysis 2008 , 385-410		1
18	Covalent modification of graphitic carbon substrates by non-electrochemical methods. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1231-1244	2.6	143
17	New 3pi-2spiro ladder-type phenylene materials: synthesis, physicochemical properties and applications in OLEDs. <i>Chemistry - A European Journal</i> , 2008 , 14, 11328-42	4.8	66
16	Improved stability of redox enzyme layers on glassy carbon electrodes via covalent grafting. <i>Electrochemistry Communications</i> , 2008 , 10, 835-838	5.1	57
15	Dispirofluorene-indenofluorene derivatives as new building blocks for blue organic electroluminescent devices and electroactive polymers. <i>Chemistry - A European Journal</i> , 2007 , 13, 10055-69	4.8	124
14	SECM imaging of micropatterned organic films on carbon surfaces. <i>Electrochemistry Communications</i> , 2007 , 9, 2387-2392	5.1	10
13	Use of weakly coordinating anions to develop an integrated approach to the tuning of $\Delta E(1/2)$ values by medium effects. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3980-9	16.4	445
12	A laccase-glucose oxidase biofuel cell prototype operating in a physiological buffer. <i>Electrochimica Acta</i> , 2006 , 51, 5187-5192	6.7	177
11	Between Ni(mnt) ₂ and Ni(tfd) ₂ dithiolene complexes: the unsymmetrical 2-(trifluoromethyl)acrylonitrile-1,2-dithiolate and its nickel complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 9763-70	5.1	36
10	Anodic Electrochemistry of Multiferrrocenyl Phosphine and Phosphine Chalcogenide Complexes in Weakly Nucleophilic Electrolytes. <i>Organometallics</i> , 2005 , 24, 48-52	3.8	67
9	Targetting redox polymers as mediators for laccase oxygen reduction in a membrane-less biofuel cell. <i>Electrochemistry Communications</i> , 2004 , 6, 237-241	5.1	141
8	Modeling of the molybdenum center in the nitrogenase FeMo-cofactor. <i>Coordination Chemistry Reviews</i> , 2003 , 236, 71-89	23.2	85
7	Use of medium effects to tune the $\Delta E(1/2)$ values of bimetallic and oligometallic compounds. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7262-3	16.4	256
6	Extended Hückel calculations on functional and structural models of the FeMo-cofactor of nitrogenase. <i>Polyhedron</i> , 2001 , 20, 27-36	2.7	17

5	On the electrochemical preparation of the neutral complexes $M[S_4C_4(CN)_4]$, $M(mnt)_2$, $M = Ni, Pd$, Pt. <i>Inorganic Chemistry</i> , 2001 , 40, 2472-3	5.1	29
4	Generation of the 15-Electron Rhodium(II) Complex $[RhCl(PPh_3)_3]^+$ by 1-Electron Oxidation of Wilkinson's Catalyst. <i>Organometallics</i> , 2001 , 20, 2133-2135	3.8	8
3	Exo-iron centres linked to MoFeS clusters. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999 , 957-964		5
2	Electrochemical dehydrodimerisation of a vinylenylamide ligand: formation of the binuclear group $\{MoN+CHCHCHCHCHN+Mo\}$ which displays very strong electronic coupling in the $\{(MoIII)(MoIV)\}$ mixed-valence state. <i>Chemical Communications</i> , 1998 , 675-676	5.8	2
1	Electrochemical deprotection of a substrate binding site in $[Mo_2(cp)_2(\eta-SMe)_3(\eta-Cl)](cp = \eta-C_5H_5)$ via chloride-bridge opening. Kinetics of MeCN and ButNC binding at this site. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996 , 3967-3976		31