## Jason J Davis

## List of Publications by Citations

 $\textbf{Source:} \ https://exaly.com/author-pdf/1309241/jason-j-davis-publications-by-citations.pdf$ 

Version: 2024-04-27

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.

 123
 5,481
 44
 69

 papers
 citations
 h-index
 g-index

 131
 6,157
 8.7
 6.3

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
123	Electrical biosensors and the label free detection of protein disease biomarkers. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5944-62	58.5	329
122	Protein electrochemistry at carbon nanotube electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1997</b> , 440, 279-282	4.1	278
121	Chemical and biochemical sensing with modified single walled carbon nanotubes. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 3732-9	4.8	252
120	An optimised electrochemical biosensor for the label-free detection of C-reactive protein in blood. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 94-8	11.8	161
119	Antifouling Strategies for Selective and Sensing. <i>Chemical Reviews</i> , <b>2020</b> , 120, 3852-3889	68.1	153
118	Reversible luminescence switching of a redox-active ferrocene-europium dyad. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11847-9	16.4	133
117	Zinc metalloporphyrin-functionalised nanoparticle anion sensors. Chemical Communications, 2004, 414-	<b>5</b> 5.8	115
116	The label free picomolar detection of insulin in blood serum. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 21-5	11.8	114
115	Interlocked host rotaxane and catenane structures for sensing charged guest species via optical and electrochemical methodologies. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 415-24	3.9	112
114	Environmentally responsive MRI contrast agents. Chemical Communications, 2013, 49, 9704-21	5.8	108
113	Exploring the electronic and mechanical properties of protein using conducting atomic force microscopy. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5601-9	16.4	108
112	Anion recognition and redox sensing amplification by self-assembled monolayers of 1,1 hbis (alkyl-N-amido) ferrocene. <i>Chemical Communications</i> , <b>2002</b> , 1716-7	5.8	91
111	Ultrasensitive label free electrical detection of insulin in neat blood serum. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4129-34	7.8	88
110	Mechanically interlocked and switchable molecules at surfaces. Chemical Communications, 2010, 46, 54-	<b>-63</b> 8	81
109	Anion templated surface assembly of a redox-active sensory rotaxane. <i>Chemical Communications</i> , <b>2007</b> , 2234-6	5.8	77
108	Multimodality and nanoparticles in medical imaging. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6087-103	4.3	76
107	Sulfate anion templation of a neutral pseudorotaxane assembly using an indolocarbazole threading component. <i>Chemical Communications</i> , <b>2008</b> , 3154-6	5.8	73

106	Electrochemical Anion Sensing: Supramolecular Approaches. <i>Chemical Reviews</i> , <b>2020</b> , 120, 1888-1935	68.1	73
105	Capacitance spectroscopy: a versatile approach to resolving the redox density of states and kinetics in redox-active self-assembled monolayers. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 8822-9	3.4	70
104	A dielectric model of self-assembled monolayer interfaces by capacitive spectroscopy. <i>Langmuir</i> , <b>2012</b> , 28, 9689-99	4	68
103	Halogen bonding-enhanced electrochemical halide anion sensing by redox-active ferrocene receptors. <i>Chemical Communications</i> , <b>2015</b> , 51, 14640-3	5.8	67
102	Fluorescent cyclic voltammetry of immobilized azurin: direct observation of thermodynamic and kinetic heterogeneity. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5776-9	16.4	67
101	Low fouling label-free DNA sensor based on polyethylene glycols decorated with gold nanoparticles for the detection of breast cancer biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 71, 51-56	11.8	64
100	Label free redox capacitive biosensing. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 437-40	11.8	64
99	Protein adsorption at a gold electrode studied by insitu scanning tunnelling microscopy. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 1119-1123	3.6	61
98	Sensitive affimer and antibody based impedimetric label-free assays for C-reactive protein. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 6553-60	7.8	60
97	Electrochemical Aptasensor for Ultralow Fouling Cancer Cell Quantification in Complex Biological Media Based on Designed Branched Peptides. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8334-8340	7.8	59
96	Serum neuronal exosomes predict and differentiate Parkinson® disease from atypical parkinsonism. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2020</b> , 91, 720-729	5.5	57
95	Label-free capacitive diagnostics: exploiting local redox probe state occupancy. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2559-64	7.8	55
94	The robust electrochemical detection of a Parkinson® disease marker in whole blood sera. <i>Chemical Science</i> , <b>2012</b> , 3, 3468	9.4	55
93	The scanning probe microscopy of metalloproteins and metalloenzymes. <i>Chemical Communications</i> , <b>2002</b> , 393-401	5.8	55
92	Low Fouling Protein Detection in Complex Biological Media Supported by a Designed Multifunctional Peptide. <i>ACS Sensors</i> , <b>2018</b> , 3, 1210-1216	9.2	55
91	Nanoparticle-Based Paramagnetic Contrast Agents for Magnetic Resonance Imaging. <i>Contrast Media and Molecular Imaging</i> , <b>2019</b> , 2019, 1845637	3.2	54
90	Solution and surface-confined chloride anion templated redox-active ferrocene catenanes. <i>Chemical Science</i> , <b>2012</b> , 3, 1080	9.4	54
89	Elucidating capacitance and resistance terms in confined electroactive molecular layers. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 411-7	7.8	54

88	Label-free sub-picomolar protein detection with field-effect transistors. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3531-6	7.8	54
87	Peptide aptamers in label-free protein detection: 1. Characterization of the immobilized scaffold. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1089-96	7.8	52
86	Ultrasensitive and selective voltammetric aptasensor for dopamine based on a conducting polymer nanocomposite doped with graphene oxide. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1123-1129	5.8	49
85	Measuring quantum capacitance in energetically addressable molecular layers. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1337-41	7.8	49
84	Redox and label-free array detection of protein markers in human serum. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5553-8	7.8	48
83	Spatially controlled Suzuki and Heck catalytic molecular coupling. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14135-41	16.4	48
82	Location-tuned relaxivity in Gd-doped mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22848-22850		46
81	Metalloprotein tunnel junctions: compressional modulation of barrier height and transport mechanism. <i>Faraday Discussions</i> , <b>2006</b> , 131, 167-79; discussion 205-20	3.6	46
80	Concentration-Normalized Electroanalytical Assaying of Exosomal Markers. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3184-3190	7.8	45
79	Redox Capacitive Assaying of C-Reactive Protein at a Peptide Supported Aptamer Interface. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3005-3008	7.8	44
78	Amplification of anion sensing by disulfide functionalized ferrocene and ferrocene-calixarene receptors adsorbed onto gold surfaces. <i>Dalton Transactions</i> , <b>2010</b> , 39, 6532-41	4.3	44
77	Spatially resolved Suzuki coupling reaction initiated and controlled using a catalytic AFM probe. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13082-3	16.4	42
76	A scanning tunnelling study of immobilised cytochrome P450cam. <i>Faraday Discussions</i> , <b>2000</b> , 15-22; discussion 67-75	3.6	42
75	Elucidating redox-level dispersion and local dielectric effects within electroactive molecular films. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1997-2004	7.8	41
74	Anion sensing by solution- and surface-assembled osmium(II) bipyridyl rotaxanes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 15898-906	4.8	41
73	Peptide aptamers in label-free protein detection: 2. Chemical optimization and detection of distinct protein isoforms. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 3314-20	7.8	41
72	Anion templated formation of pseudorotaxane and rotaxane monolayers on gold from neutral components. <i>Langmuir</i> , <b>2009</b> , 25, 2935-40	4	41
71	Capacitance spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 9375-82	3.6	39

## (2020-2003)

70	Force dependent metalloprotein conductance by conducting atomic force microscopy. <i>Nanotechnology</i> , <b>2003</b> , 14, 1023-1028	3.4	39
69	A halogen-bonding foldamer molecular film for selective reagentless anion sensing in water. <i>Chemical Communications</i> , <b>2019</b> , 55, 4849-4852	5.8	35
68	A dual marker label free electrochemical assay for Flavivirus dengue diagnosis. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 100, 519-525	11.8	35
67	Surface-attached sensors for cation and anion recognition. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 1739-48	4.4	35
66	Anion Sensing Porphyrin Functionalized Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2008</b> , 18, 32-40	3.2	35
65	The Diagnostic Utility of Electrochemical Impedance. <i>Electroanalysis</i> , <b>2014</b> , 26, 1249-1258	3	34
64	Genetic modulation of metalloprotein electron transfer at bare gold. <i>Chemical Communications</i> , <b>2003</b> , 576-7	5.8	34
63	Immittance electroanalysis in diagnostics. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 944-50	7.8	29
62	Exploiting lanthanide luminescence in supramolecular assemblies. <i>Chemical Communications</i> , <b>2014</b> , 50, 5678-87	5.8	28
61	The application of electrochemical scanning probe microscopy to the interpretation of metalloprotein voltammetry. <i>Coordination Chemistry Reviews</i> , <b>2000</b> , 200-202, 411-442	23.2	28
60	Exploiting the mechanical bond for molecular recognition and sensing of charged species. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1052-1073	7.8	28
59	Enhanced photocurrent in engineered bacteriorhodopsin monolayer. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 683-9	3.4	27
58	Sensing nitrite through a pseudoazurin-nitrite reductase electron transfer relay. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1114-20	3.2	27
57	Graphene-based protein biomarker detection. <i>Bioanalysis</i> , <b>2015</b> , 7, 725-42	2.1	26
56	Quantum capacitance as a reagentless molecular sensing element. <i>Nanoscale</i> , <b>2017</b> , 9, 15362-15370	7.7	26
55	Optimized Diagnostic Assays Based on Redox Tagged Bioreceptive Interfaces. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 12137-44	7.8	26
54	Point of Care Sensors for Infectious Pathogens. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 184-197	7.8	26
53	Reagentless Redox Capacitive Assaying of C-Reactive Protein at a Polyaniline Interface. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3508-3511	7.8	25

52	Graphene oxide interfaces in serum based autoantibody quantification. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 346-50	7.8	25
51	Synthesis of type II/type I CdTe/CdS/ZnS quantum dots and their use in cellular imaging. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8341		25
50	Force modulation and electrochemical gating of conductance in a cytochrome. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 374123	1.8	25
49	Theoretical Analysis of the Relative Significance of Thermodynamic and Kinetic Dispersion in the dc and ac Voltammetry of Surface-Confined Molecules. <i>Langmuir</i> , <b>2015</b> , 31, 4996-5004	4	24
48	Molecular scale conductance photoswitching in engineered bacteriorhodopsin. <i>Nano Letters</i> , <b>2012</b> , 12, 899-903	11.5	24
47	Anion templated assembly of an indolocarbazole containing pseudorotaxane on beads and silica nanoparticles. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 760	3.6	24
46	Anion induced displacement studies in naphthalene diimide containing interpenetrated and interlocked structures. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 769	3.6	24
45	The Mesoscopic Electrochemistry of Molecular Junctions. <i>Scientific Reports</i> , <b>2016</b> , 6, 18400	4.9	23
44	High signal contrast gating with biomodified Gd doped mesoporous nanoparticles. <i>Chemical Communications</i> , <b>2013</b> , 49, 60-2	5.8	22
43	Acyclic halogen and hydrogen bonding diquat-containing receptors for the electrochemical sensing of anions. <i>Polyhedron</i> , <b>2016</b> , 116, 20-25	2.7	22
42	Reversible redox modulation of a lanthanide emissive molecular film. <i>Chemical Communications</i> , <b>2015</b> , 51, 6515-7	5.8	21
41	Neutral redox-active hydrogen- and halogen-bonding [2]rotaxanes for the electrochemical sensing of chloride. <i>Dalton Transactions</i> , <b>2014</b> , 43, 17274-82	4.3	21
40	Charge transport and energy storage at the molecular scale: from nanoelectronics to electrochemical sensing. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7505-7515	58.5	21
39	Reversible recruitment and emission of DO3A-derived lanthanide complexes at ligating molecular films on gold. <i>Langmuir</i> , <b>2013</b> , 29, 1475-82	4	20
38	Mapping the ionic fingerprints of molecular monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15098-15109	3.6	19
37	Ratiometric oxygen sensing using lanthanide luminescent emitting interfaces. <i>Chemical Communications</i> , <b>2015</b> , 51, 15944-7	5.8	18
36	Molecularly resolved protein electromechanical properties. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 9062-8	3.4	18
35	Molecular electron transfer of protein junctions characterised by conducting atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2005</b> , 40, 189-94	6	18

## (2013-2018)

34	Dy-DOTA integrated mesoporous silica nanoparticles as promising ultrahigh field magnetic resonance imaging contrast agents. <i>Nanoscale</i> , <b>2018</b> , 10, 21041-21045	7.7	18
33	Interfacial sensing: surface assembled molecular receptors. <i>Chemical Communications</i> , <b>2005</b> , 3509-13	5.8	16
32	High resolution scanning force microscopy of cardiac myocytes. <i>Cell Biology International</i> , <b>2001</b> , 25, 127	'1 <sub>4</sub> 75	16
31	Enhanced voltammetric anion sensing at halogen and hydrogen bonding ferrocenyl SAMs. <i>Chemical Science</i> , <b>2020</b> , 12, 2433-2440	9.4	16
30	Large Amplitude Conductance Gating in a Wired Redox Molecule. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1541-1546	6.4	14
29	Facile Impedimetric Analysis of Neuronal Exosome Markers in Parkinson® Disease Diagnostics. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13647-13651	7.8	14
28	Solvent Effects in Halogen and Hydrogen Bonding Mediated Electrochemical Anion Sensing in Aqueous Solution and at Interfaces. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 10201-10209	4.8	14
27	Halogen Bonding Tetraphenylethene Anion Receptors: Anion-Induced Emissive Aggregates and Photoswitchable Recognition. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19442-19450	16.4	14
26	Mechanistic studies of AFM probe-driven Suzuki and Heck molecular coupling. <i>Nanotechnology</i> , <b>2010</b> , 21, 265302	3.4	13
25	Mesoporous Silica Nanoparticles in Bioimaging. <i>Materials</i> , <b>2020</b> , 13,	3.5	13
24	Ultrasensitive Impedimetric Immunosensor for the Detection of C-Reactive Protein in Blood at Surface-Initiated-Reversible Addition-Fragmentation Chain Transfer Generated Poly(2-hydroxyethyl methacrylate) Brushes. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4707-4710	7.8	12
23	An impedimetric assay of Esynuclein autoantibodies in early stage Parkinson <b>ß</b> disease. <i>RSC Advances</i> , <b>2014</b> , 4, 58773-58777	3.7	12
22	The nanoscopic principles of capacitive ion sensing interfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 3770-3774	3.6	11
21	Engineered bacteriorhodopsin: a molecular scale potential switch. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 5632-6	4.8	11
20	Functional Molecular Interfaces for Impedance-Based Diagnostics. <i>Annual Review of Analytical Chemistry</i> , <b>2020</b> , 13, 183-200	12.5	10
19	Tunnelling conductance of vectorial porphyrin monolayers. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 31	09	10
18	Magnetic Nanoparticles Supporting Bio-responsive / Magnetic Resonance Imaging. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
17	Engineering cytochrome-modified silica nanoparticles to induce programmed cell death. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 17891-8	4.8	9

16	Validation of Esynuclein in L1CAM-Immunocaptured Exosomes as a Biomarker for the Stratification of Parkinsonian Syndromes. <i>Movement Disorders</i> , <b>2021</b> , 36, 2663-2669	7	9
15	A facile measurement of heterogeneous electron transfer kinetics. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 1092	20 <del>76</del> 8	6
14	Ligation driven (19)F relaxation enhancement in self-assembled Ln(III) complexes. <i>Chemical Communications</i> , <b>2015</b> , 51, 2918-20	5.8	6
13	Multiplexed Profiling of Extracellular Vesicles for Biomarker Development. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 3	19.5	6
12	Homogeneous functional self-assembled monolayers: Faradaic impedance baseline signal drift suppression for high-sensitivity immunosensing of C-reactive protein. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 856, 113675	4.1	5
11	Water gated contrast switching with polymer-silica hybrid nanoparticles. <i>Chemical Communications</i> , <b>2019</b> , 55, 8540-8543	5.8	4
10	Open Circuit Potential as a Tool for the Assessment of Binding Kinetics and Reagentless Protein Quantitation. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14748-14754	7.8	4
9	A Quantification of Target Protein Biomarkers in Complex Media by Faradaic Shotgun Tagging <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	3
8	Continuous and Polarization-Tuned Redox Capacitive Anion Sensing at Electroactive Interfaces. Journal of the American Chemical Society, <b>2021</b> , 143, 19199-19206	16.4	3
7	Introducing polymer conductance in diagnostically relevant transduction. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 172, 112705	11.8	3
6	Halogen Bonding Tetraphenylethene Anion Receptors: Anion-Induced Emissive Aggregates and Photoswitchable Recognition. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19591-19599	3.6	3
5	Real-time Voltammetric Anion Sensing Under Flow*. Chemistry - A European Journal, <b>2021</b> , 27, 17700	4.8	1
4	Characterising the biosensing interface. Analytica Chimica Acta, 2022, 339759	6.6	1
3	Applying atomic force microscopy to studies in cardiac physiology. <i>Methods in Molecular Biology</i> , <b>2004</b> , 242, 161-78	1.4	
2	Promoting high contrast in Dy-doped MSNs through Curie effects <i>Journal of Materials Chemistry B</i> , <b>2022</b> , 10, 302-305	7.3	
1	EXPLORING TUNNEL TRANSPORT THROUGH PROTEIN AT THE MOLECULAR LEVEL. <i>Series on Iraq</i> War and Its Consequences, <b>2007</b> , 167-193		