

Dale A C Brownson

List of Publications by Citations

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

61
papers

4,799
citations

32
h-index

63
g-index

63
ext. papers

5,322
ext. citations

6.5
avg, IF

6.22
L-index

#	Paper	IF	Citations
61	An overview of graphene in energy production and storage applications. <i>Journal of Power Sources</i> , 2011 , 196, 4873-4885	8.9	712
60	Graphene electrochemistry: fundamental concepts through to prominent applications. <i>Chemical Society Reviews</i> , 2012 , 41, 6944-76	58.5	497
59	Graphene electrochemistry: an overview of potential applications. <i>Analyst, The</i> , 2010 , 135, 2768-78	5	438
58	A decade of graphene research: production, applications and outlook. <i>Materials Today</i> , 2014 , 17, 426-432	21.8	368
57	Microbial fuel cells: An overview of current technology. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 101, 60-81	16.2	317
56	Electrochemistry of graphene: not such a beneficial electrode material?. <i>RSC Advances</i> , 2011 , 1, 978	3.7	201
55	Electrochemical properties of CVD grown pristine graphene: monolayer- vs. quasi-graphene. <i>Nanoscale</i> , 2014 , 6, 1607-21	7.7	157
54	Determination of the Electrochemical Area of Screen-Printed Electrochemical Sensing Platforms. <i>Biosensors</i> , 2018 , 8,	5.9	146
53	The Handbook of Graphene Electrochemistry 2014 ,		123
52	The electrochemistry of CVD graphene: progress and prospects. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8264-81	3.6	121
51	The fabrication, characterisation and electrochemical investigation of screen-printed graphene electrodes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4598-611	3.6	118
50	2D Hexagonal Boron Nitride (2D-hBN) Explored for the Electrochemical Sensing of Dopamine. <i>Analytical Chemistry</i> , 2016 , 88, 9729-9737	7.8	115
49	2D nanosheet molybdenum disulphide (MoS ₂) modified electrodes explored towards the hydrogen evolution reaction. <i>Nanoscale</i> , 2015 , 7, 18152-68	7.7	93
48	Freestanding three-dimensional graphene foam gives rise to beneficial electrochemical signatures within non-aqueous media. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5962	13	79
47	Fabricating graphene supercapacitors: highlighting the impact of surfactants and moieties. <i>Chemical Communications</i> , 2012 , 48, 1425-7	5.8	77
46	Graphene Electrochemistry: Surfactants Inherent to Graphene Can Dramatically Effect Electrochemical Processes. <i>Electroanalysis</i> , 2011 , 23, 894-899	3	74
45	The electrochemical performance of graphene modified electrodes: an analytical perspective. <i>Analyst, The</i> , 2012 , 137, 1815-23	5	73

44	2D molybdenum disulphide (2D-MoS ₂) modified electrodes explored towards the oxygen reduction reaction. <i>Nanoscale</i> , 2016 , 8, 14767-77	7.7	70
43	Graphene electrochemistry: Surfactants inherent to graphene inhibit metal analysis. <i>Electrochemistry Communications</i> , 2011 , 13, 111-113	5.1	68
42	In situ electrochemical characterisation of graphene and various carbon-based electrode materials: an internal standard approach. <i>RSC Advances</i> , 2015 , 5, 37281-37286	3.7	55
41	Graphene electrochemistry: fabricating amperometric biosensors. <i>Analyst, The</i> , 2011 , 136, 2084-9	5	54
40	Can the mechanical activation (polishing) of screen-printed electrodes enhance their electroanalytical response?. <i>Analyst, The</i> , 2016 , 141, 2791-9	5	52
39	CVD graphene electrochemistry: the role of graphitic islands. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15825-8	3.6	51
38	CVD graphene electrochemistry: biologically relevant molecules. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20284-8	3.6	49
37	Graphene oxide electrochemistry: the electrochemistry of graphene oxide modified electrodes reveals coverage dependent beneficial electrocatalysis. <i>Royal Society Open Science</i> , 2017 , 4, 171128	3.3	47
36	Graphene oxide gives rise to unique and intriguing voltammetry. <i>RSC Advances</i> , 2012 , 2, 665-668	3.7	40
35	Pencil it in: pencil drawn electrochemical sensing platforms. <i>Analyst, The</i> , 2016 , 141, 4055-64	5	38
34	2D Hexagonal Boron Nitride (2D-hBN) Explored as a Potential Electrocatalyst for the Oxygen Reduction Reaction. <i>Electroanalysis</i> , 2017 , 29, 622-634	3	38
33	Electrochemistry of Q-graphene. <i>Nanoscale</i> , 2012 , 4, 6470-80	7.7	38
32	Antimicrobial activity of graphene oxide-metal hybrids. <i>International Biodeterioration and Biodegradation</i> , 2017 , 123, 182-190	4.8	36
31	Mass-producible 2D-MoSe ₂ bulk modified screen-printed electrodes provide significant electrocatalytic performances towards the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 74-83	5.8	34
30	Electroanalytical detection of pindolol: comparison of unmodified and reduced graphene oxide modified screen-printed graphite electrodes. <i>Analyst, The</i> , 2015 , 140, 1543-50	5	33
29	CVD graphene vs. highly ordered pyrolytic graphite for use in electroanalytical sensing. <i>Analyst, The</i> , 2012 , 137, 833-9	5	32
28	Pencil It in: Exploring the Feasibility of Hand-Drawn Pencil Electrochemical Sensors and Their Direct Comparison to Screen-Printed Electrodes. <i>Biosensors</i> , 2016 , 6,	5.9	30
27	Exploring the origins of the apparent "electrocatalytic" oxidation of kojic acid at graphene modified electrodes. <i>Analyst, The</i> , 2013 , 138, 4436-42	5	29

26	Exploring the electrochemical performance of graphitic paste electrodes: graphene vs. graphite. <i>Analyst, The</i> , 2013 , 138, 6354-64	5	25
25	Surfactant exfoliated 2D hexagonal Boron Nitride (2D-hBN) explored as a potential electrochemical sensor for dopamine: surfactants significantly influence sensor capabilities. <i>Analyst, The</i> , 2017 , 142, 1756-1764 ²²	5	22
24	Electroanalytical Performance of a Freestanding Three-Dimensional Graphene Foam Electrode. <i>Electroanalysis</i> , 2014 , 26, 93-102	3	22
23	Defining the origins of electron transfer at screen-printed graphene-like and graphite electrodes: MoO ₂ nanowire fabrication on edge plane sites reveals electrochemical insights. <i>Nanoscale</i> , 2016 , 8, 15241-51	7.7	22
22	Investigating the Integrity of Graphene towards the Electrochemical Hydrogen Evolution Reaction (HER). <i>Scientific Reports</i> , 2019 , 9, 15961	4.9	21
21	Limitations of CVD graphene when utilised towards the sensing of heavy metals. <i>RSC Advances</i> , 2012 , 2, 5385	3.7	21
20	Exploring the electrochemical performance of graphite and graphene paste electrodes composed of varying lateral flake sizes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20010-20022	3.6	20
19	Forensic Electrochemistry: The Electroanalytical Sensing of Mephedrone Metabolites. <i>ACS Omega</i> , 2019 , 4, 1947-1954	3.9	19
18	High temperature low vacuum synthesis of a freestanding three-dimensional graphene nano-ribbon foam electrode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2617-2629	13	17
17	Graphene Oxide Bulk-Modified Screen-Printed Electrodes Provide Beneficial Electroanalytical Sensing Capabilities. <i>Biosensors</i> , 2020 , 10,	5.9	13
16	Graphene electroanalysis: inhibitory effects in the stripping voltammetry of cadmium with surfactant free graphene. <i>Analyst, The</i> , 2012 , 137, 420-3	5	13
15	Crime scene investigation III: Exploring the effects of drugs of abuse and neurotransmitters on Bloodstain Pattern Analysis. <i>Analytical Methods</i> , 2012 , 4, 721	3.2	11
14	Exploring the reactivity of distinct electron transfer sites at CVD grown monolayer graphene through the selective electrodeposition of MoO nanowires. <i>Scientific Reports</i> , 2019 , 9, 12814	4.9	10
13	Crime scene investigation: The effect of drug contaminated bloodstains on bloodstain pattern analysis. <i>Analytical Methods</i> , 2010 , 2, 1885	3.2	9
12	Investigating the Integrity of Graphene towards the Electrochemical Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019 , 6, 5446-5453	4.3	7
11	Disposable non-enzymatic electrochemical glucose sensors based on screen-printed graphite macroelectrodes modified via a facile methodology with Ni, Cu, and Ni/Cu hydroxides are shown to accurately determine glucose in real human serum blood samples. <i>Analytical Methods</i> , 2021 , 13, 2812-2822	3.2	7
10	The influence of lateral flake size in graphene/graphite paste electrodes: an electroanalytical investigation. <i>Analytical Methods</i> , 2020 , 12, 2133-2142	3.2	6
9	Tailoring the electrochemical properties of 2D-hBN via physical linear defects: physicochemical, computational and electrochemical characterisation. <i>Nanoscale Advances</i> , 2020 , 2, 264-273	5.1	6

8	Electrochemical properties of vertically aligned graphenes: tailoring heterogeneous electron transfer through manipulation of the carbon microstructure. <i>Nanoscale Advances</i> , 2020 , 2, 5319-5328	5.1	6
7	Crime scene investigation II: The effect of warfarin on bloodstain pattern analysis. <i>Analytical Methods</i> , 2011 , 3, 1521	3.2	4
6	Voltammetric Behaviour of Drug Molecules as a Predictor of Metabolic Liabilities. <i>Scientia Pharmaceutica</i> , 2020 , 88, 46	4.3	4
5	Graphene Applications 2014 , 127-174		3
4	Graphene for Energy Production and Storage Applications 2013 , 133-170		3
3	Introduction to Graphene 2014 , 1-22		2
2	Imaging the reactivity and width of graphene's boundary region. <i>Chemical Communications</i> , 2020 , 56, 9612-9615	5.8	2
1	The Electrochemistry of Graphene 2014 , 79-126		0