Dale A C Brownson

List of Publications by Year
in descending order

60	5,844	34	57
papers	citations	h-index	g-index
		117571	143943

63	63	63	7840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disposable non-enzymatic electrochemical glucose sensors based on screen-printed graphite macroelectrodes modified <i>via</i> a facile methodology with Ni, Cu, and Ni/Cu hydroxides are shown to accurately determine glucose in real human serum blood samples. Analytical Methods, 2021, 13, 2812-2822.	1.3	19
2	Tailoring the electrochemical properties of 2D-hBN <i>via</i> physical linear defects: physicochemical, computational and electrochemical characterisation. Nanoscale Advances, 2020, 2, 264-273.	2.2	11
3	Electrochemical properties of vertically aligned graphenes: tailoring heterogeneous electron transfer through manipulation of the carbon microstructure. Nanoscale Advances, 2020, 2, 5319-5328.	2.2	10
4	Imaging the reactivity and width of graphene's boundary region. Chemical Communications, 2020, 56, 9612-9615.	2.2	4
5	Voltammetric Behaviour of Drug Molecules as a Predictor of Metabolic Liabilities. Scientia Pharmaceutica, 2020, 88, 46.	0.7	4
6	Graphene Oxide Bulk-Modified Screen-Printed Electrodes Provide Beneficial Electroanalytical Sensing Capabilities. Biosensors, 2020, 10, 27.	2.3	21
7	The influence of lateral flake size in graphene/graphite paste electrodes: an electroanalytical investigation. Analytical Methods, 2020, 12, 2133-2142.	1.3	10
8	Investigating the Integrity of Graphene towards the Electrochemical Oxygen Evolution Reaction. ChemElectroChem, 2019, 6, 5446-5453.	1.7	11
9	Investigating the Integrity of Graphene towards the Electrochemical Hydrogen Evolution Reaction (HER). Scientific Reports, 2019, 9, 15961.	1.6	36
10	Exploring the reactivity of distinct electron transfer sites at CVD grown monolayer graphene through the selective electrodeposition of MoO2 nanowires. Scientific Reports, 2019, 9, 12814.	1.6	11
11	Forensic Electrochemistry: The Electroanalytical Sensing of Mephedrone Metabolites. ACS Omega, 2019, 4, 1947-1954.	1.6	30
12	Microbial fuel cells: An overview of current technology. Renewable and Sustainable Energy Reviews, 2019, 101, 60-81.	8.2	473
13	Exploring the electrochemical performance of graphite and graphene paste electrodes composed of varying lateral flake sizes. Physical Chemistry Chemical Physics, 2018, 20, 20010-20022.	1.3	35
14	Determination of the Electrochemical Area of Screen-Printed Electrochemical Sensing Platforms. Biosensors, 2018, 8, 53.	2.3	252
15	Mass-producible 2D-MoSe₂ bulk modified screen-printed electrodes provide significant electrocatalytic performances towards the hydrogen evolution reaction. Sustainable Energy and Fuels, 2017, 1, 74-83.	2.5	39
16	Surfactant exfoliated 2D hexagonal Boron Nitride (2D-hBN) explored as a potential electrochemical sensor for dopamine: surfactants significantly influence sensor capabilities. Analyst, The, 2017, 142, 1756-1764.	1.7	29
17	Antimicrobial activity of graphene oxide-metal hybrids. International Biodeterioration and Biodegradation, 2017, 123, 182-190.	1.9	49
18	Graphene oxide electrochemistry: the electrochemistry of graphene oxide modified electrodes reveals coverage dependent beneficial electrocatalysis. Royal Society Open Science, 2017, 4, 171128.	1.1	55

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19	2D Hexagonal Boron Nitride (2Dâ€hBN) Explored as a Potential Electrocatalyst for the Oxygen Reduction Reaction. Electroanalysis, 2017, 29, 622-634.	1.5	50
20	Pencil It in: Exploring the Feasibility of Hand-Drawn Pencil Electrochemical Sensors and Their Direct Comparison to Screen-Printed Electrodes. Biosensors, 2016, 6, 45.	2.3	40
21	2D molybdenum disulphide (2D-MoS₂) modified electrodes explored towards the oxygen reduction reaction. Nanoscale, 2016, 8, 14767-14777.	2.8	83
22	2D Hexagonal Boron Nitride (2D-hBN) Explored for the Electrochemical Sensing of Dopamine. Analytical Chemistry, 2016, 88, 9729-9737.	3.2	155
23	Defining the origins of electron transfer at screen-printed graphene-like and graphite electrodes: MoO₂ nanowire fabrication on edge plane sites reveals electrochemical insights. Nanoscale, 2016, 8, 15241-15251.	2.8	28
24	Pencil it in: pencil drawn electrochemical sensing platforms. Analyst, The, 2016, 141, 4055-4064.	1.7	49
25	High temperature low vacuum synthesis of a freestanding three-dimensional graphene nano-ribbon foam electrode. Journal of Materials Chemistry A, 2016, 4, 2617-2629.	5.2	19
26	Can the mechanical activation (polishing) of screen-printed electrodes enhance their electroanalytical response?. Analyst, The, 2016, 141, 2791-2799.	1.7	65
27	Electroanalytical detection of pindolol: comparison of unmodified and reduced graphene oxide modified screen-printed graphite electrodes. Analyst, The, 2015, 140, 1543-1550.	1.7	38
28	In situ electrochemical characterisation of graphene and various carbon-based electrode materials: an internal standard approach. RSC Advances, 2015, 5, 37281-37286.	1.7	57
29	2D nanosheet molybdenum disulphide (MoS₂) modified electrodes explored towards the hydrogen evolution reaction. Nanoscale, 2015, 7, 18152-18168.	2.8	104
30	The Electrochemistry of Graphene. , 2014, , 79-126.		3
31	Graphene Applications. , 2014, , 127-174.		3
32	Introduction to Graphene. , 2014, , 1-22.		4
33	The fabrication, characterisation and electrochemical investigation of screen-printed graphene electrodes. Physical Chemistry Chemical Physics, 2014, 16, 4598.	1.3	143
34	Electrochemical properties of CVD grown pristine graphene: monolayer- vs. quasi-graphene. Nanoscale, 2014, 6, 1607-1621.	2.8	177
35	Electroanalytical Performance of a Freestanding Threeâ€Dimensional Graphene Foam Electrode. Electroanalysis, 2014, 26, 93-102.	1.5	26
36	A decade of graphene research: production, applications and outlook. Materials Today, 2014, 17, 426-432.	8.3	519

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37	The Handbook of Graphene Electrochemistry. , 2014, , .		151
38	Exploring the electrochemical performance of graphitic paste electrodes: graphene vs. graphite. Analyst, The, 2013, 138, 6354.	1.7	33
39	Freestanding three-dimensional graphene foam gives rise to beneficial electrochemical signatures within non-aqueous media. Journal of Materials Chemistry A, 2013, 1, 5962.	5.2	88
40	Exploring the origins of the apparent â€œelectrocatalyticâ€•oxidation of kojic acid at graphene modified electrodes. Analyst, The, 2013, 138, 4436-4442.	1.7	31
41	The electrochemical performance of graphene modified electrodes: An analytical perspective. Analyst, The, 2012, 137, 1815.	1.7	82
42	Graphene oxide gives rise to unique and intriguing voltammetry. RSC Advances, 2012, 2, 665-668.	1.7	44
43	Fabricating graphene supercapacitors: highlighting the impact of surfactants and moieties. Chemical Communications, 2012, 48, 1425-1427.	2.2	88
44	Electrochemistry of Q-Graphene. Nanoscale, 2012, 4, 6470.	2.8	40
45	Graphene electroanalysis: Inhibitory effects in the stripping voltammetry of cadmium with surfactant free graphene. Analyst, The, 2012, 137, 420-423.	1.7	13
46	Crime scene investigation III: Exploring the effects of drugs of abuse and neurotransmitters on Bloodstain Pattern Analysis. Analytical Methods, 2012, 4, 721.	1.3	13
47	Limitations of CVD graphene when utilised towards the sensing of heavy metals. RSC Advances, 2012, 2, 5385.	1.7	21
48	CVDgraphenevs. highly ordered pyrolytic graphite for use in electroanalytical sensing. Analyst, The, 2012, 137, 833-839.	1.7	33
49	The electrochemistry of CVD graphene: progress and prospects. Physical Chemistry Chemical Physics, 2012, 14, 8264.	1.3	148
50	Graphene electrochemistry: fundamental concepts through to prominent applications. Chemical Society Reviews, 2012, 41, 6944.	18.7	540
51	Graphene electrochemistry: Fabricating amperometric biosensors. Analyst, The, 2011, 136, 2084.	1.7	57
52	Crime scene investigation II: The effect of warfarin on bloodstain pattern analysis. Analytical Methods, 2011, 3, 1521.	1.3	4
53	CVD graphene electrochemistry: biologically relevant molecules. Physical Chemistry Chemical Physics, 2011, 13, 20284.	1.3	53
54	CVD graphene electrochemistry: the role of graphitic islands. Physical Chemistry Chemical Physics, 2011, 13, 15825.	1.3	53

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55	Electrochemistry of graphene: not such a beneficial electrode material?. RSC Advances, 2011, 1, 978.	1.7	217
56	Graphene Electrochemistry: Surfactants Inherent to Graphene Can Dramatically Effect Electrochemical Processes. Electroanalysis, 2011, 23, 894-899.	1.5	85
57	Graphene electrochemistry: Surfactants inherent to graphene inhibit metal analysis. Electrochemistry Communications, 2011, 13, 111-113.	2.3	73
58	An overview of graphene in energy production and storage applications. Journal of Power Sources, 2011, 196, 4873-4885.	4.0	819
59	Crime scene investigation: The effect of drug contaminated bloodstains on bloodstain pattern analysis. Analytical Methods, 2010, 2, 1885.	1.3	9
60	Graphene electrochemistry: an overview of potential applications. Analyst, The, 2010, 135, 2768.	1.7	481