

# Christopher W. Foster

## List of Publications by Year in descending order

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65  
papers

3,447  
citations

136950  
32  
h-index

138484  
58  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4999  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printed Graphene Based Energy Storage Devices. Scientific Reports, 2017, 7, 42233.	3.3	345
2	Graphene-Rich Wrapped Petal-Like Rutile TiO <sub>2</sub> tuned by Carbon Dots for High-Performance Sodium Storage. Advanced Materials, 2016, 28, 9391-9399.	21.0	262
3	Determination of the Electrochemical Area of Screen-Printed Electrochemical Sensing Platforms. Biosensors, 2018, 8, 53.	4.7	252
4	Oxygen Vacancies Evoked Blue TiO <sub>2</sub> (B) Nanobelts with Efficiency Enhancement in Sodium Storage Behaviors. Advanced Functional Materials, 2017, 27, 1700856.	14.9	212
5	Complete Additively Manufactured (3D-Printed) Electrochemical Sensing Platform. Analytical Chemistry, 2019, 91, 12844-12851.	6.5	176
6	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. Sensors, 2019, 19, 1204.	3.8	154
7	Electrochemical lactate biosensor based upon chitosan/carbon nanotubes modified screen-printed graphite electrodes for the determination of lactate in embryonic cell cultures. Biosensors and Bioelectronics, 2016, 77, 1168-1174.	10.1	129
8	Cobalt-based electrode materials for sodium-ion batteries. Chemical Engineering Journal, 2019, 370, 185-207.	12.7	118
9	Highly sensitive amperometric sensing of nitrite utilizing bulk-modified MnO <sub>2</sub> decorated Graphene oxide nanocomposite screen-printed electrodes. Electrochimica Acta, 2017, 227, 255-266.	5.2	91
10	The electrochemical performance of graphene modified electrodes: An analytical perspective. Analyst, The, 2012, 137, 1815.	3.5	82
11	Additively manufactured graphitic electrochemical sensing platforms. Chemical Engineering Journal, 2020, 381, 122343.	12.7	77
12	Ultraflexible Screen-Printed Graphitic Electroanalytical Sensing Platforms. Electroanalysis, 2014, 26, 262-274.	2.9	69
13	Self-assembly of porous copper oxide hierarchical nanostructures for selective determinations of glucose and ascorbic acid. RSC Advances, 2016, 6, 14474-14482.	3.6	68
14	Cobalt Phthalocyanine Modified Electrodes Utilised in Electroanalysis: Nano-Structured Modified Electrodes vs. Bulk Modified Screen-Printed Electrodes. Sensors, 2014, 14, 21905-21922.	3.8	65
15	Can the mechanical activation (polishing) of screen-printed electrodes enhance their electroanalytical response?. Analyst, The, 2016, 141, 2791-2799.	3.5	65
16	Pencil drawn paper based supercapacitors. RSC Advances, 2016, 6, 81130-81141.	3.6	54
17	Metallic modified (bismuth, antimony, tin and combinations thereof) film carbon electrodes. Analyst, The, 2015, 140, 7598-7612.	3.5	53
18	Development of a novel flexible polymer-based biosensor platform for the thermal detection of noradrenaline in aqueous solutions. Chemical Engineering Journal, 2017, 315, 459-468.	12.7	53

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19	Next-Generation Additive Manufacturing: Tailorable Graphene/Poly(lactic acid) Filaments Allow the Fabrication of 3D Printable Porous Anodes for Utilisation within Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 448-453.	4.7	52
20	Calixarene bulk modified screen-printed electrodes (SPCCEs) as a one-shot disposable sensor for the simultaneous detection of lead(II), copper(II) and mercury(II) ions: Application to environmental samples. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 517-525.	4.1	51
21	Pencil it in: pencil drawn electrochemical sensing platforms. <i>Analyst</i> , The, 2016, 141, 4055-4064.	3.5	49
22	Single step additive manufacturing (3D printing) of electrocatalytic anodes and cathodes for efficient water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 302-311.	4.9	49
23	Surfactant-exfoliated 2D hexagonal boron nitride (2D-hBN): role of surfactant upon the electrochemical reduction of oxygen and capacitance applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4103-4113.	10.3	48
24	Titanium nanoparticles (TiO <sub>2</sub> )/graphene oxide nanosheets (GO): an electrochemical sensing platform for the sensitive and simultaneous determination of benzocaine in the presence of antipyrine. <i>Analyst</i> , The, 2017, 142, 3674-3679.	3.5	48
25	Next-Generation Additive Manufacturing of Complete Standalone Sodium-Ion Energy Storage Architectures. <i>Advanced Energy Materials</i> , 2019, 9, 1803019.	19.5	48
26	Screen-printed back-to-back electroanalytical sensors: heavy metal ion sensing. <i>Analyst</i> , The, 2015, 140, 4130-4136.	3.5	47
27	Exploring the electrical wiring of screen-printed configurations utilised in electroanalysis. <i>Analytical Methods</i> , 2015, 7, 1208-1214.	2.7	42
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, 45.	4.7	40
29	Mass-producible 2D-MoSe <sub>2</sub> bulk modified screen-printed electrodes provide significant electrocatalytic performances towards the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2017, 1, 74-83.	4.9	39
30	Use of Screen-Printed Electrodes Modified by Prussian Blue and Analogues in Sensing of Cysteine. <i>Electroanalysis</i> , 2018, 30, 170-179.	2.9	33
31	A reduced graphene oxide-cyclodextrin-platinum nanocomposite modified screen printed electrode for the detection of cysteine. <i>Journal of Electroanalytical Chemistry</i> , 2018, 829, 230-240.	3.8	33
32	Introducing Thermal Wave Transport Analysis (TWTA): A Thermal Technique for Dopamine Detection by Screen-Printed Electrodes Functionalized with Molecularly Imprinted Polymer (MIP) Particles. <i>Molecules</i> , 2016, 21, 552.	3.8	32
33	Molecular-Level CuS@S Hybrid Nanosheets Constructed by Mineral Chemistry for Energy Storage Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43669-43681.	8.0	32
34	Trace manganese detection via differential pulse cathodic stripping voltammetry using disposable electrodes: additively manufactured nanographite electrochemical sensing platforms. <i>Analyst</i> , The, 2020, 145, 3424-3430.	3.5	32
35	Analytical determination of heroin, fentanyl and fentalogues using high-performance liquid chromatography with diode array and amperometric detection. <i>Analytical Methods</i> , 2019, 11, 1053-1063.	2.7	30
36	Forensic Electrochemistry: The Electroanalytical Sensing of Mephedrone Metabolites. <i>ACS Omega</i> , 2019, 4, 1947-1954.	3.5	30

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37	L-Cysteine determination in embryo cell culture media using Co (II)-phthalocyanine modified disposable screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 303-310.	3.8	29
38	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.	3.5	29
39	Organic-resistant screen-printed graphitic electrodes: Application to on-site monitoring of liquid fuels. <i>Analytica Chimica Acta</i> , 2016, 934, 1-8.	5.4	24
40	Electrochemical Determination of the Serotonin Reuptake Inhibitor, Dapoxetine, Using Cesium <sup>+</sup> Gold Nanoparticles. <i>ACS Omega</i> , 2017, 2, 6628-6635.	3.5	23
41	Boron-doped diamond electrodes explored for the electroanalytical detection of 7-methylguanine and applied for its sensing within urine samples. <i>Electrochimica Acta</i> , 2016, 197, 167-178.	5.2	22
42	Can solvent induced surface modifications applied to screen-printed platforms enhance their electroanalytical performance?. <i>Analyst, The</i> , 2016, 141, 2783-2790.	3.5	22
43	Back-to-Back Screen-Printed Electroanalytical Sensors: Extending the Potential Applications of the Simplistic Design. <i>Electroanalysis</i> , 2015, 27, 2295-2301.	2.9	20
44	Detection and quantification of new psychoactive substances (NPSs) within the evolved "legal high" product, NRG-2, using high performance liquid chromatography-amperometric detection (HPLC-AD). <i>Analyst, The</i> , 2015, 140, 6283-6294.	3.5	20
45	Metallic Impurities in Graphene Screen-Printed Electrodes Can Influence Their Electrochemical Properties. <i>Electroanalysis</i> , 2014, 26, 2429-2433.	2.9	17
46	Ultra Flexible Paper Based Electrochemical Sensors: Effect of Mechanical Contortion upon Electrochemical Performance. <i>Electroanalysis</i> , 2013, 25, 2275-2282.	2.9	16
47	High Yield Synthesis of Hydroxyapatite (HAP) and Palladium Doped HAP via a Wet Chemical Synthetic Route. <i>Catalysts</i> , 2016, 6, 119.	3.5	16
48	Highly sensitive and selective determination of dopamine using screen-printed electrodes modified with nanocomposite of N <sup>2</sup> -phenyl-p-phenylenediamine/multiwalled carbon nanotubes/naion. <i>Materials Research Bulletin</i> , 2018, 101, 253-263.	5.2	16
49	Utilising copper screen-printed electrodes (CuSPE) for the electroanalytical sensing of sulfide. <i>Analyst, The</i> , 2016, 141, 1233-1238.	3.5	15
50	Portable electrochemical system using screen-printed electrodes for monitoring corrosion inhibitors. <i>Talanta</i> , 2017, 174, 420-427.	5.5	14
51	Quick Test for Determination of N-Bombs (Phenethylamine Derivatives, NBOMe) Using High-Performance Liquid Chromatography: A Comparison between Photodiode Array and Amperometric Detection. <i>ACS Omega</i> , 2019, 4, 14439-14450.	3.5	14
52	Fundamentals of Screen-Printing Electrochemical Architectures. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 13-23.	0.4	12
53	A facile electrochemical intercalation and microwave assisted exfoliation methodology applied to screen-printed electrochemical-based sensing platforms to impart improved electroanalytical outputs. <i>Analyst, The</i> , 2018, 143, 3360-3365.	3.5	11
54	Exploring the reactivity of distinct electron transfer sites at CVD grown monolayer graphene through the selective electrodeposition of MoO <sub>2</sub> nanowires. <i>Scientific Reports</i> , 2019, 9, 12814.	3.3	11

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55	Tailoring the electrochemical properties of 2D-hBN <i>via</i> physical linear defects: physicochemical, computational and electrochemical characterisation. <i>Nanoscale Advances</i> , 2020, 2, 264-273.	4.6	11
56	The Mediatorless Electroanalytical Sensing of Sulfide Utilizing Unmodified Graphitic Electrode Materials. <i>Journal of Carbon Research</i> , 2016, 2, 14.	2.7	10
57	Graphene Encapsulated Silicon Carbide Nanocomposites for High and Low Power Energy Storage Applications. <i>Journal of Carbon Research</i> , 2017, 3, 20.	2.7	6
58	Fast Determination of Antioxidant Capacity of Food Samples Using Continuous Amperometric Detection on Polyester Screen-Printed Graphitic Electrodes. <i>Electroanalysis</i> , 2018, 30, 1192-1197.	2.9	6
59	Development of a Flexible MIP-Based Biosensor Platform for the Thermal Detection of Neurotransmitters. <i>MRS Advances</i> , 2018, 3, 1569-1574.	0.9	5
60	Electrochemical Decoration of Additively Manufactured Graphene Macroelectrodes with MoO <sub>2</sub> Nanowires: An Approach to Demonstrate the Surface Morphology. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15377-15385.	3.1	5
61	A Facile and Cost-Effective Electroanalytical Strategy for the Quantification of Deoxyguanosine and Deoxyadenosine in Oligonucleotides Using Screen-Printed Graphite Electrodes. <i>Electroanalysis</i> , 2016, 28, 3066-3074.	2.9	4
62	Reprint of: L-Cysteine determination in embryo cell culture media using Co (II)-phthalocyanine modified disposable screen-printed electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 77-84.	3.8	4
63	Introduction and Current Applications of Screen-Printed Electrochemical Architectures. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 1-12.	0.4	1
64	Next-Generation Additive Manufacturing: Tailorable Graphene/Poly(lactic acid) Filaments Allow the Fabrication of 3D Printable Porous Anodes for Utilisation within Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 399-400.	4.7	0
65	Quality Control/Quality Assurance Analysis of Electrochemical Screen-Printed Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 35-56.	0.4	0