Robert Crapnell

List of Publications by Year
in descending order

37 papers	907 citations	430874 18 h-index	477307 29 g-index
37 all docs	37 docs citations	37 times ranked	689 citing authors

#	Article	IF	Citations
1	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. Sensors, 2019, 19, 1204.	3.8	154
2	Molecularly imprinted polymer based electrochemical biosensors: Overcoming the challenges of detecting vital biomarkers and speeding up diagnosis. Talanta Open, 2020, 2, 100018.	3.7	92
3	Thermal Detection of Cardiac Biomarkers Heart-Fatty Acid Binding Protein and ST2 Using a Molecularly Imprinted Nanoparticle-Based Multiplex Sensor Platform. ACS Sensors, 2019, 4, 2838-2845.	7.8	50
4	Additive manufacturing for electrochemical labs: An overview and tutorial note on the production of cells, electrodes and accessories. Talanta Open, 2021, 4, 100051.	3.7	46
5	Molecularly Imprinted Polymer Nanoparticles Enable Rapid, Reliable, and Robust Point-of-Care Thermal Detection of SARS-CoV-2. ACS Sensors, 2022, 7, 1122-1131.	7.8	45
6	Screen Printed Electrode Based Detection Systems for the Antibiotic Amoxicillin in Aqueous Samples Utilising Molecularly Imprinted Polymers as Synthetic Receptors. Chemosensors, 2020, 8, 5.	3.6	42
7	Evaluating the temperature dependence of heat-transfer based detection: A case study with caffeine and Molecularly Imprinted Polymers as synthetic receptors. Chemical Engineering Journal, 2019, 359, 505-517.	12.7	33
8	Toward the Rapid Diagnosis of Sepsis: Detecting Interleukin-6 in Blood Plasma Using Functionalized Screen-Printed Electrodes with a Thermal Detection Methodology. Analytical Chemistry, 2021, 93, 5931-5938.	6.5	31
9	Electrochemical Improvements Can Be Realized via Shortening the Length of Screen-Printed Electrochemical Platforms. Analytical Chemistry, 2021, 93, 16481-16488.	6.5	29
10	Electroanalytical overview: utilising micro- and nano-dimensional sized materials in electrochemical-based biosensing platforms. Mikrochimica Acta, 2021, 188, 268.	5.0	28
11	Electrospun Nylon Fibers with Integrated Polypyrrole Molecularly Imprinted Polymers for the Detection of Glucose. Analytical Chemistry, 2021, 93, 13235-13241.	6.5	25
12	Immobilization of Molecularly Imprinted Polymer Nanoparticles onto Surfaces Using Different Strategies: Evaluating the Influence of the Functionalized Interface on the Performance of a Thermal Assay for the Detection of the Cardiac Biomarker Troponin I. ACS Applied Materials & Interfaces, 2021, 13, 27868-27879.	8.0	24
13	Electroanalytical Overview: Electrochemical Sensing Platforms for Food and Drink Safety. Biosensors, 2021, 11, 291.	4.7	24
14	Platinum nanoparticle decorated vertically aligned graphene screen-printed electrodes: electrochemical characterisation and exploration towards the hydrogen evolution reaction. Nanoscale, 2020, 12, 18214-18224.	5.6	23
15	Versatile additively manufactured (3D printed) wall-jet flow cell for high performance liquid chromatography-amperometric analysis: application to the detection and quantification of new psychoactive substances (NBOMes). Analytical Methods, 2020, 12, 2152-2165.	2.7	22
16	Electroanalytical point-of-care detection of gold standard and emerging cardiac biomarkers for stratification and monitoring in intensive care medicineÂ- a review. Mikrochimica Acta, 2022, 189, 142.	5.0	22
17	All-in-One Single-Print Additively Manufactured Electroanalytical Sensing Platforms. ACS Measurement Science Au, 2022, 2, 167-176.	4.4	22
18	Functionalized Co3O4 graphitic nanoparticles: A high performance electrocatalyst for the oxygen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 31380-31388.	7.1	21

#	Article	IF	Citations
19	Electroanalytical overview: the electroanalytical sensing of hydrazine. Sensors & Diagnostics, 2022, 1, 71-86.	3.8	20
20	Electroanalytical overview: screen-printed electrochemical sensing platforms for the detection of vital cardiac, cancer and inflammatory biomarkers. Sensors & Diagnostics, 2022, 1, 405-428.	3.8	20
21	Electroanalytical overview: the pungency of chile and chilli products determined via the sensing of capsaicinoids. Analyst, The, 2021, 146, 2769-2783.	3.5	17
22	Approaches to the Rational Design of Molecularly Imprinted Polymers Developed for the Selective Extraction or Detection of Antibiotics in Environmental and Food Samples. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100021.	1.8	15
23	Electroanalytical overview: The detection of the molecule of murder atropine. Talanta Open, 2021, 4, 100073.	3.7	12
24	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of Staphylococcus aureus Growth in Buffered Solutions and Digestate Samples. ACS Applied Bio Materials, 2019, 2, 3790-3798.	4.6	11
25	Thermistors coated with molecularly imprinted nanoparticles for the electrical detection of peptides and proteins. Analyst, The, 2020, 145, 5419-5424.	3.5	9
26	Dual detection of nafcillin using a molecularly imprinted polymer-based platform coupled to thermal and fluorescence read-out. Materials Advances, 2021, 2, 5105-5115.	5.4	9
27	Perspective: What constitutes a quality paper in electroanalysis?. Talanta Open, 2021, 4, 100065.	3.7	8
28	Evaluating the Possibility of Translating Technological Advances in Non-Invasive Continuous Lactate Monitoring into Critical Care. Sensors, 2021, 21, 879.	3.8	8
29	Glassy Carbon Electrode Modified with Layering of Carbon Black/Poly(Allylamine Hydrochloride) Composite for Multianalyte Determination. Electroanalysis, 2021, 33, 526-536.	2.9	8
30	Nano-molecularly imprinted polymers for serum creatinine sensing using the heat transfer method. Talanta Open, 2022, 5, 100087.	3.7	8
31	Electroanalytical overview: The electroanalytical detection of theophylline. Talanta Open, 2021, 3, 100037.	3.7	7
32	Electropolymerised molecularly imprinted polymers for the heat-transfer based detection of microorganisms: A proof-of-concept study using yeast. Thermal Science and Engineering Progress, 2021, 24, 100956.	2.7	7
33	Reviewing the use of chitosan and polydopamine for electrochemical sensing. Current Opinion in Electrochemistry, 2022, 32, 100885.	4.8	6
34	Electroanalytical overview: The determination of manganese. Sensors and Actuators Reports, 2022, 4, 100110.	4.4	6
35	Influence of design and material characteristics on 3D printed flow-cells for heat transfer-based analytical devices. Mikrochimica Acta, 2022, 189, 73.	5.0	2
36	Electrochemically Induced Mesomorphism Switching in a Chlorpromazine Hydrochloride Lyotropic Liquid Crystal. ACS Omega, 2021, 6, 4630-4640.	3.5	1

#	Article	IF	Citations
37	Sensing Materials: Carbon Materials. , 2021, , .		0