

Robert Crapnell

List of Publications by Year in descending order

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papers

907
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430874

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all docs

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docs citations

37
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroanalytical overview: the electroanalytical sensing of hydrazine. <i>Sensors & Diagnostics</i> , 2022, 1, 71-86.	3.8	20
2	Reviewing the use of chitosan and polydopamine for electrochemical sensing. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100885.	4.8	6
3	Influence of design and material characteristics on 3D printed flow-cells for heat transfer-based analytical devices. <i>Mikrochimica Acta</i> , 2022, 189, 73.	5.0	2
4	Nano-molecularly imprinted polymers for serum creatinine sensing using the heat transfer method. <i>Talanta Open</i> , 2022, 5, 100087.	3.7	8
5	Electroanalytical overview: screen-printed electrochemical sensing platforms for the detection of vital cardiac, cancer and inflammatory biomarkers. <i>Sensors & Diagnostics</i> , 2022, 1, 405-428.	3.8	20
6	Electroanalytical point-of-care detection of gold standard and emerging cardiac biomarkers for stratification and monitoring in intensive care medicine—A review. <i>Mikrochimica Acta</i> , 2022, 189, 142.	5.0	22
7	All-in-One Single-Print Additively Manufactured Electroanalytical Sensing Platforms. <i>ACS Measurement Science Au</i> , 2022, 2, 167-176.	4.4	22
8	Molecularly Imprinted Polymer Nanoparticles Enable Rapid, Reliable, and Robust Point-of-Care Thermal Detection of SARS-CoV-2. <i>ACS Sensors</i> , 2022, 7, 1122-1131.	7.8	45
9	Electroanalytical overview: The determination of manganese. <i>Sensors and Actuators Reports</i> , 2022, 4, 100110.	4.4	6
10	Dual detection of nafcillin using a molecularly imprinted polymer-based platform coupled to thermal and fluorescence read-out. <i>Materials Advances</i> , 2021, 2, 5105-5115.	5.4	9
11	Electrochemically Induced Mesomorphism Switching in a Chlorpromazine Hydrochloride Lyotropic Liquid Crystal. <i>ACS Omega</i> , 2021, 6, 4630-4640.	3.5	1
12	Toward the Rapid Diagnosis of Sepsis: Detecting Interleukin-6 in Blood Plasma Using Functionalized Screen-Printed Electrodes with a Thermal Detection Methodology. <i>Analytical Chemistry</i> , 2021, 93, 5931-5938.	6.5	31
13	Approaches to the Rational Design of Molecularly Imprinted Polymers Developed for the Selective Extraction or Detection of Antibiotics in Environmental and Food Samples. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100021.	1.8	15
14	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. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27868-27879.	8.0	24
15	Electroanalytical overview: utilising micro- and nano-dimensional sized materials in electrochemical-based biosensing platforms. <i>Mikrochimica Acta</i> , 2021, 188, 268.	5.0	28
16	Electroanalytical overview: The electroanalytical detection of theophylline. <i>Talanta Open</i> , 2021, 3, 100037.	3.7	7
17	Electroanalytical Overview: Electrochemical Sensing Platforms for Food and Drink Safety. <i>Biosensors</i> , 2021, 11, 291.	4.7	24
18	Electropolymerised molecularly imprinted polymers for the heat-transfer based detection of microorganisms: A proof-of-concept study using yeast. <i>Thermal Science and Engineering Progress</i> , 2021, 24, 100956.	2.7	7

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19	Electrospun Nylon Fibers with Integrated Polypyrrole Molecularly Imprinted Polymers for the Detection of Glucose. <i>Analytical Chemistry</i> , 2021, 93, 13235-13241.	6.5	25
20	Perspective: What constitutes a quality paper in electroanalysis?. <i>Talanta Open</i> , 2021, 4, 100065.	3.7	8
21	Additive manufacturing for electrochemical labs: An overview and tutorial note on the production of cells, electrodes and accessories. <i>Talanta Open</i> , 2021, 4, 100051.	3.7	46
22	Electroanalytical overview: the pungency of chile and chilli products determined <i>via</i> the sensing of capsaicinoids. <i>Analyst, The</i> , 2021, 146, 2769-2783.	3.5	17
23	Evaluating the Possibility of Translating Technological Advances in Non-Invasive Continuous Lactate Monitoring into Critical Care. <i>Sensors</i> , 2021, 21, 879.	3.8	8
24	Glassy Carbon Electrode Modified with Layering of Carbon Black/Poly(Allylamine Hydrochloride) Composite for Multianalyte Determination. <i>Electroanalysis</i> , 2021, 33, 526-536.	2.9	8
25	Electroanalytical overview: The detection of the molecule of murder atropine. <i>Talanta Open</i> , 2021, 4, 100073.	3.7	12
26	Sensing Materials: Carbon Materials. , 2021, , .		0
27	Electrochemical Improvements Can Be Realized via Shortening the Length of Screen-Printed Electrochemical Platforms. <i>Analytical Chemistry</i> , 2021, 93, 16481-16488.	6.5	29
28	Molecularly imprinted polymer based electrochemical biosensors: Overcoming the challenges of detecting vital biomarkers and speeding up diagnosis. <i>Talanta Open</i> , 2020, 2, 100018.	3.7	92
29	Functionalized Co ₃ O ₄ graphitic nanoparticles: A high performance electrocatalyst for the oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31380-31388.	7.1	21
30	Platinum nanoparticle decorated vertically aligned graphene screen-printed electrodes: electrochemical characterisation and exploration towards the hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 18214-18224.	5.6	23
31	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). <i>Analytical Methods</i> , 2020, 12, 2152-2165.	2.7	22
32	Thermistors coated with molecularly imprinted nanoparticles for the electrical detection of peptides and proteins. <i>Analyst, The</i> , 2020, 145, 5419-5424.	3.5	9
33	Screen Printed Electrode Based Detection Systems for the Antibiotic Amoxicillin in Aqueous Samples Utilising Molecularly Imprinted Polymers as Synthetic Receptors. <i>Chemosensors</i> , 2020, 8, 5.	3.6	42
34	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of <i>Staphylococcus aureus</i> Growth in Buffered Solutions and Digestate Samples. <i>ACS Applied Bio Materials</i> , 2019, 2, 3790-3798.	4.6	11
35	Thermal Detection of Cardiac Biomarkers Heart-Fatty Acid Binding Protein and ST2 Using a Molecularly Imprinted Nanoparticle-Based Multiplex Sensor Platform. <i>ACS Sensors</i> , 2019, 4, 2838-2845.	7.8	50
36	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. <i>Sensors</i> , 2019, 19, 1204.	3.8	154

#	ARTICLE	IF	CITATIONS
37	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