

Alexander Iles

List of Publications by Year in descending order

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33
papers

1,059
citations

361413

20
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

1322
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell sorting by endocytotic capacity in a microfluidic magnetophoresis device. <i>Lab on A Chip</i> , 2011, 11, 1902.	6.0	130
2	Diamagnetic repulsion – A versatile tool for label-free particle handling in microfluidic devices. <i>Journal of Chromatography A</i> , 2009, 1216, 9055-9062.	3.7	113
3	Mobile magnetic particles as solid-supports for rapid surface-based bioanalysis in continuous flow. <i>Lab on A Chip</i> , 2009, 9, 3110.	6.0	91
4	High surface area titania photocatalytic microfluidic reactors. <i>AIChE Journal</i> , 2007, 53, 695-702.	3.6	81
5	Rapid on-chip multi-step (bio)chemical procedures in continuous flow – manoeuvring particles through co-laminar reagent streams. <i>Chemical Communications</i> , 2008, , 1220.	4.1	50
6	The importance of particle type selection and temperature control for on-chip free-flow magnetophoresis. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 4115-4122.	2.3	47
7	Thermal optimisation of the Reimer – Tiemann reaction using thermochromic liquid crystals on a microfluidic reactor. <i>Lab on A Chip</i> , 2005, 5, 540.	6.0	40
8	On-chip diamagnetic repulsion in continuous flow. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 014611.	6.1	39
9	Rapid, multistep on-chip DNA hybridisation in continuous flow on magnetic particles. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2172-2176.	10.1	37
10	Microfluidic Technique for the Simultaneous Quantification of Emulsion Instabilities and Lipid Digestion Kinetics. <i>Analytical Chemistry</i> , 2017, 89, 9116-9123.	6.5	34
11	A lab-on-a-chip platform for integrated extraction and detection of SARS-CoV-2 RNA in resource-limited settings. <i>Analytica Chimica Acta</i> , 2021, 1177, 338758.	5.4	31
12	Detection of doxycycline hydrochloride and oxymetazoline hydrochloride in pharmaceutical preparations via spectrophotometry and microfluidic paper-based analytical device (µPADs). <i>Analytica Chimica Acta</i> , 2020, 1136, 196-204.	5.4	30
13	Microfluidic-Based Electrochemical Immunosensing of Ferritin. <i>Biosensors</i> , 2020, 10, 91.	4.7	29
14	Nanoporous Titania Coating of Microwell Chips for Stem Cell Culture and Analysis. <i>Journal of Biomechanical Science and Engineering</i> , 2010, 5, 272-279.	0.3	28
15	A Simple technique for microfluidic heterogeneous catalytic hydrogenation reactor fabrication. <i>Catalysis Letters</i> , 2007, 114, 71-74.	2.6	26
16	Encapsulation of multi-walled carbon nanotubes (MWCNTs) in Ba ²⁺ -alginate to form coated micro-beads and their application to the pre-concentration/elimination of dibenzo-p-dioxin, dibenzofuran, and biphenyl from contaminated water. <i>Analyst</i> , 2004, 129, 565.	3.5	24
17	A label-free aptamer-based nanogap capacitive biosensor with greatly diminished electrode polarization effects. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 681-691.	2.8	23
18	Bonding of soda-lime glass microchips at low temperature. <i>Microfluidics and Nanofluidics</i> , 2006, 3, 119-122.	2.2	22

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19	Computational modeling and fluorescence microscopy characterization of a two-phase magnetophoretic microsystem for continuous-flow blood detoxification. <i>Lab on A Chip</i> , 2018, 18, 1593-1606.	6.0	21
20	Determination of alkylphenols and alkylphenol polyethoxylates by reversed-phase high-performance liquid chromatography and solid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 554-561.	3.7	20
21	A Microfluidic Device for Rapid Screening of <i>E. coli</i> O157:H7 Based on IFAST and ATP Bioluminescence Assay for Water Analysis. <i>Chemistry - A European Journal</i> , 2017, 23, 12754-12757.	3.3	17
22	Spheroid-on-chip microfluidic technology for the evaluation of the impact of continuous flow on metastatic potential in cancer models <i>in vitro</i> . <i>Biomicrofluidics</i> , 2021, 15, 044103.	2.4	17
23	High-resolution determination of H ⁺ by ion chromatography. Application to the simultaneous determination of H ⁺ , Na ⁺ , NH ₄ ⁺ and K ⁺ in acid rain. <i>Analyst, The</i> , 2001, 126, 821-824.	3.5	16
24	Inertial focusing of microparticles, bacteria, and blood in serpentine glass channels. <i>Electrophoresis</i> , 2021, 42, 2246-2255.	2.4	15
25	A Unified Ion Chromatographic System for the Determination of Acidity and Alkalinity.. <i>Analytical Sciences</i> , 2001, 17, 1401-1404.	1.6	14
26	Definition of a magnetic susceptibility of conglomerates with magnetite particles. Particularities of defining single particle susceptibility. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 724-734.	2.3	13
27	Rapid detection of Group B Streptococcus (GBS) from artificial urine samples based on IFAST and ATP bioluminescence assay: from development to practical challenges during protocol testing in Kenya. <i>Analyst, The</i> , 2019, 144, 6889-6897.	3.5	13
28	Two-Step Numerical Approach To Predict Ferrofluid Droplet Generation and Manipulation inside Multilaminar Flow Chambers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10065-10080.	3.1	12
29	Sorting and Manipulation of Magnetic Droplets in Continuous Flow. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	11
30	Determination of hydrogen ion by ion chromatography (IC) with sulfonated cation-exchange resin as the stationary phase and aqueous EDTA (ethylenediamine- N , N , N -triacetic acid) solution as the mobile phase. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 48-51.	1.5	4
31	Citizen-led sampling to monitor phosphate levels in freshwater environments using a simple paper microfluidic device. <i>PLoS ONE</i> , 2021, 16, e0260102.	2.5	4
32	Bonding of Soda-Lime Glass Microchips at Low Temperature. , 2006, , .		2
33	Use of zwitterionic micelles in the eluent II: a new approach to ion chromatographic analysis of inorganic cations in biological fluids with direct sample injection. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 426-428.	1.5	1