

Nicole Pamme

List of Publications by Year in descending order

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80
papers

4,881
citations

186209

28
h-index

91828

69
g-index

85
all docs

85
docs citations

85
times ranked

4821
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetism and microfluidics. Lab on A Chip, 2006, 6, 24-38.	3.1	1,013
2	Continuous flow separations in microfluidic devices. Lab on A Chip, 2007, 7, 1644.	3.1	715
3	Continuous sorting of magnetic cells via on-chip free-flow magnetophoresis. Lab on A Chip, 2006, 6, 974.	3.1	459
4	On-Chip Free-Flow Magnetophoresis: A Continuous Flow Separation of Magnetic Particles and Agglomerates. Analytical Chemistry, 2004, 76, 7250-7256.	3.2	435
5	Cell sorting by endocytotic capacity in a microfluidic magnetophoresis device. Lab on A Chip, 2011, 11, 1902.	3.1	130
6	Diamagnetic repulsion – A versatile tool for label-free particle handling in microfluidic devices. Journal of Chromatography A, 2009, 1216, 9055-9062.	1.8	113
7	Counting and sizing of particles and particle agglomerates in a microfluidic device using laser light scattering: application to a particle-enhanced immunoassay. Lab on A Chip, 2003, 3, 187.	3.1	110
8	On-chip free-flow magnetophoresis: Separation and detection of mixtures of magnetic particles in continuous flow. Journal of Magnetism and Magnetic Materials, 2006, 307, 237-244.	1.0	109
9	On-chip bioanalysis with magnetic particles. Current Opinion in Chemical Biology, 2012, 16, 436-443.	2.8	107
10	Mobile magnetic particles as solid-supports for rapid surface-based bioanalysis in continuous flow. Lab on A Chip, 2009, 9, 3110.	3.1	91
11	Flow focussing of particles and cells based on their intrinsic properties using a simple diamagnetic repulsion setup. Lab on A Chip, 2011, 11, 1240-1248.	3.1	80
12	Simultaneous bioassays in a microfluidic channel on plugs of different magnetic particles. Analytica Chimica Acta, 2008, 609, 105-112.	2.6	67
13	Radiochemistry on chip: towards dose-on-demand synthesis of PET radiopharmaceuticals. Lab on A Chip, 2013, 13, 2328.	3.1	58
14	Sample introduction interface for on-chip nucleic acid-based analysis of Helicobacter pylori from stool samples. Lab on A Chip, 2016, 16, 2108-2115.	3.1	55
15	Microscreening toxicity system based on living magnetic yeast and gradient chips. Analytical and Bioanalytical Chemistry, 2011, 400, 1009-1013.	1.9	51
16	Rapid on-chip multi-step (bio)chemical procedures in continuous flow – manoeuvring particles through co-laminar reagent streams. Chemical Communications, 2008, , 1220.	2.2	50
17	The importance of particle type selection and temperature control for on-chip free-flow magnetophoresis. Journal of Magnetism and Magnetic Materials, 2009, 321, 4115-4122.	1.0	47
18	Microfluidic devices in superconducting magnets: on-chip free-flow diamagnetophoresis of polymer particles and bubbles. Microfluidics and Nanofluidics, 2012, 13, 625-635.	1.0	47

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19	On-chip processing of particles and cells via multilaminar flow streams. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 139-161.	1.9	46
20	Comparison of Photo-oxidation Reactions in Batch and a New Photosensitizer-Immobilized Microfluidic Device. <i>Organic Letters</i> , 2012, 14, 5724-5727.	2.4	45
21	Stereolithographic 3D printing of extrinsically self-healing composites. <i>Scientific Reports</i> , 2019, 9, 388.	1.6	42
22	Multiplex sorting of foodborne pathogens by on-chip free-flow magnetophoresis. <i>Analytica Chimica Acta</i> , 2016, 918, 69-76.	2.6	40
23	On-chip diamagnetic repulsion in continuous flow. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 014611.	2.8	39
24	On-Chip Determination of C-Reactive Protein Using Magnetic Particles in Continuous Flow. <i>Analytical Chemistry</i> , 2014, 86, 10552-10559.	3.2	39
25	On-chip polyelectrolyte coating onto magnetic droplets “towards continuous flow assembly of drug delivery capsules. <i>Lab on A Chip</i> , 2017, 17, 3785-3795.	3.1	38
26	Rapid, multistep on-chip DNA hybridisation in continuous flow on magnetic particles. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2172-2176.	5.3	37
27	Simultaneous trapping of magnetic and diamagnetic particle plugs for separations and bioassays. <i>RSC Advances</i> , 2013, 3, 7209.	1.7	33
28	Artificial leaf device for hydrogen generation from immobilised <i>C. reinhardtii</i> microalgae. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20698-20707.	5.2	33
29	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.	2.6	31
30	Detection of doxycycline hyclate and oxymetazoline hydrochloride in pharmaceutical preparations via spectrophotometry and microfluidic paper-based analytical device (µPADs). <i>Analytica Chimica Acta</i> , 2020, 1136, 196-204.	2.6	30
31	Microfluidic-Based Electrochemical Immunosensing of Ferritin. <i>Biosensors</i> , 2020, 10, 91.	2.3	29
32	Microfluidic device for the rapid coating of magnetic cells with polyelectrolytes. <i>Materials Letters</i> , 2013, 95, 182-185.	1.3	28
33	On-chip pre-concentration and complexation of [18F]fluoride ions via regenerable anion exchange particles for radiochemical synthesis of Positron Emission Tomography tracers. <i>Journal of Chromatography A</i> , 2011, 1218, 4714-4719.	1.8	27
34	Development of radiodetection systems towards miniaturised quality control of PET and SPECT radiopharmaceuticals. <i>Lab on A Chip</i> , 2016, 16, 1605-1616.	3.1	26
35	Paper-based analytical devices for colorimetric detection of <i>S. aureus</i> and <i>E. coli</i> and their antibiotic resistant strains in milk. <i>Analyst</i> , 2020, 145, 7320-7329.	1.7	26
36	Microfluidic platforms for performing surface-based clinical assays. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 711-720.	1.5	24

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37	Method for Determining Average Iron Content of Ferritin by Measuring its Optical Dispersion. Analytical Chemistry, 2019, 91, 7366-7372.	3.2	24
38	Microfluidics. , 2014, , .		23
39	On-chip acoustophoretic isolation of microflora including <i>S. typhimurium</i> from raw chicken, beef and blood samples. Journal of Microbiological Methods, 2016, 123, 79-86.	0.7	23
40	A label-free aptamer-based nanogap capacitive biosensor with greatly diminished electrode polarization effects. Physical Chemistry Chemical Physics, 2019, 21, 681-691.	1.3	23
41	Analysis of polynitrophenols and hexyl by liquid chromatography–mass spectrometry using atmospheric pressure ionisation methods and a volatile ion-pairing reagent. Journal of Chromatography A, 2002, 943, 47-54.	1.8	22
42	Bonding of soda-lime glass microchips at low temperature. Microfluidics and Nanofluidics, 2006, 3, 119-122.	1.0	22
43	Phaseguide assisted liquid lamination for magnetic particle-based assays. Lab on A Chip, 2014, 14, 2334-2343.	3.1	20
44	Fabrication of tailorable pH responsive cationic amphiphilic microgels on a microfluidic device for drug release. Journal of Polymer Science Part A, 2018, 56, 59-66.	2.5	20
45	“Learning on a chip:” Microfluidics for formal and informal science education. Biomicrofluidics, 2019, 13, 041501.	1.2	20
46	Purification of 2-[18F]fluoro-2-deoxy-d-glucose by on-chip solid-phase extraction. Journal of Chromatography A, 2013, 1280, 117-121.	1.8	18
47	FISH and chips: a review of microfluidic platforms for FISH analysis. Medical Microbiology and Immunology, 2020, 209, 373-391.	2.6	18
48	Microfluidically fabricated pH-responsive anionic amphiphilic microgels for drug release. Journal of Materials Chemistry B, 2016, 4, 3086-3093.	2.9	17
49	A Microfluidic Device for Rapid Screening of <i>E. coli</i> O157:H7 Based on IFAST and ATP Bioluminescence Assay for Water Analysis. Chemistry - A European Journal, 2017, 23, 12754-12757.	1.7	17
50	Spheroid-on-chip microfluidic technology for the evaluation of the impact of continuous flow on metastatic potential in cancer models <i>in vitro</i> . Biomicrofluidics, 2021, 15, 044103.	1.2	17
51	Advances in processes for PET radiotracer synthesis: Separation of [18F]fluoride from enriched [18O]water. Applied Radiation and Isotopes, 2014, 91, 64-70.	0.7	16
52	Tailoring pH-responsive acrylic acid microgels with hydrophobic crosslinks for drug release. Journal of Materials Chemistry B, 2015, 3, 4524-4529.	2.9	16
53	Inertial focusing of microparticles, bacteria, and blood in serpentine glass channels. Electrophoresis, 2021, 42, 2246-2255.	1.3	15
54	Lab-on-a-chip workshop activities for secondary school students. Biomicrofluidics, 2016, 10, 011301.	1.2	13

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55	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.	1.0	13
56	Plastic Scintillator-Based Microfluidic Devices for Miniaturized Detection of Positron Emission Tomography Radiopharmaceuticals. <i>Chemistry - A European Journal</i> , 2018, 24, 13749-13753.	1.7	13
57	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.	1.7	13
58	On-Chip Magnetic Particle-Based Immunoassays Using Multilaminar Flow for Clinical Diagnostics. <i>Methods in Molecular Biology</i> , 2017, 1547, 69-83.	0.4	12
59	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.	1.5	12
60	Sorting and Manipulation of Magnetic Droplets in Continuous Flow. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	11
61	Monolith-based ⁶⁸ Ga processing: a new strategy for purification to facilitate direct radiolabelling methods. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 361-365.	1.9	11
62	Positron detection in silica monoliths for miniaturised quality control of PET radiotracers. <i>Chemical Communications</i> , 2016, 52, 7221-7224.	2.2	11
63	A feasibility study of a leaky waveguide aptasensor for thrombin. <i>Analyst, The</i> , 2019, 144, 6048-6054.	1.7	10
64	Magnetic Particle Plug-Based Assays for Biomarker Analysis. <i>Micromachines</i> , 2016, 7, 77.	1.4	9
65	A microfluidic system for performing fast, sequential biochemical procedures on the surface of mobile magnetic particles in continuous flow. <i>Magneto hydrodynamics</i> , 2009, 45, 361-370.	0.5	8
66	Integrated DNA extraction and amplification using electrokinetic pumping in a microfluidic device. <i>Analytical Methods</i> , 2012, 4, 96-100.	1.3	7
67	Diamagnetic repulsion of particles for multilaminar flow assays. <i>RSC Advances</i> , 2015, 5, 103776-103781.	1.7	6
68	Actual Role of the Magnetic Susceptibility of Particles in Magnetophoresis (Magnetic Separation). <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2020, 77, 67-72.	0.2	6
69	Investigating oxygen transport efficiencies in precision-cut liver slice-based organ-on-a-chip devices. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	6
70	Microcapsules as assay compartments formed through layer-by-layer deposition. <i>Analytical Methods</i> , 2018, 10, 5335-5340.	1.3	5
71	Host-Pathogen Adhesion as the Basis of Innovative Diagnostics for Emerging Pathogens. <i>Diagnostics</i> , 2021, 11, 1259.	1.3	5
72	On-chip electrochemical detection of glucose towards the miniaturised quality control of carbohydrate-based radiotracers. <i>Analyst, The</i> , 2020, 145, 4920-4930.	1.7	4

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73	Citizen-led sampling to monitor phosphate levels in freshwater environments using a simple paper microfluidic device. PLoS ONE, 2021, 16, e0260102.	1.1	4
74	Bonding of Soda-Lime Glass Microchips at Low Temperature. , 2006, , .		2
75	Suspension Temperature as a Rheological Control Parameter in Magnetic Separation. Glass and Ceramics (English Translation of Steklo I Keramika), 2020, 77, 318-321.	0.2	2
76	Realisation of a sub-wavelength dimple using a 193Ånm wavelength photonic nano jet. Chemical Physics Letters, 2020, 750, 137400.	1.2	2
77	Biosensor for determining average iron content of ferritin by measuring its optical dispersion. , 2020, , .		1
78	Magnetic Nanoparticles in Lab-on-a-Chip Devices. , 2012, , 277-300.		1
79	High sensitivity biosensor for Staphylococcus Aureus detection based on tapered a singlemode-no core-singlemode fiber structure. , 2019, , .		0
80	On the Influence of Viscosity and Density of a Liquid Medium on Efficiency of Magnetophoresis. Role of Temperature. IOP Conference Series: Earth and Environmental Science, 2022, 987, 012006.	0.2	0