

Franck Merlier

List of Publications by Year in descending order

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34
papers

982
citations

430754

18
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434063

31
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all docs

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docs citations

34
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2816-2822.	7.2	76
2	First pass intestinal and liver metabolism of paracetamol in a microfluidic platform coupled with a mathematical modeling as a means of evaluating ADME processes in humans. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2027-2040.	1.7	74
3	Development of a new microfluidic platform integrating co-cultures of intestinal and liver cell lines. <i>Toxicology in Vitro</i> , 2014, 28, 885-895.	1.1	72
4	Betanin-Enriched Red Beetroot (<i>Beta vulgaris</i>) Extract Induces Apoptosis and Autophagic Cell Death in MCF-7 Cells. <i>Phytotherapy Research</i> , 2015, 29, 1964-1973.	2.8	71
5	Composition, antibacterial and antioxidant activities of <i>Pimpinella saxifraga</i> essential oil and application to cheese preservation as coating additive. <i>Food Chemistry</i> , 2019, 288, 47-56.	4.2	65
6	Molecularly Imprinted Polymer Nanoparticles as Potential Synthetic Antibodies for Immunoprotection against HIV. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9824-9831.	4.0	62
7	Toward the Use of a Molecularly Imprinted Polymer in Doping Analysis: Selective Preconcentration and Analysis of Testosterone and Epitestosterone in Human Urine. <i>Analytical Chemistry</i> , 2010, 82, 4420-4427.	3.2	57
8	Plastic Antibodies for Cosmetics: Molecularly Imprinted Polymers Scavenge Precursors of Malodors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6252-6256.	7.2	51
9	Integrated Proteomic and Transcriptomic Investigation of the Acetaminophen Toxicity in Liver Microfluidic Biochip. <i>PLoS ONE</i> , 2011, 6, e21268.	1.1	41
10	A systematic comparison of 25 Tunisian plant species based on oil and phenolic contents, fatty acid composition and antioxidant activity. <i>Industrial Crops and Products</i> , 2018, 123, 768-778.	2.5	36
11	Dual-Oriented Solid-Phase Molecular Imprinting: Toward Selective Artificial Receptors for Recognition of Nucleotides in Water. <i>Macromolecules</i> , 2017, 50, 7484-7490.	2.2	34
12	Investigation of omeprazole and phenacetin first-pass metabolism in humans using a microscale bioreactor and pharmacokinetic models. <i>Biopharmaceutics and Drug Disposition</i> , 2015, 36, 275-293.	1.1	31
13	Long-term human primary hepatocyte cultures in a microfluidic liver biochip show maintenance of mRNA levels and higher drug metabolism compared with Petri cultures. <i>Biopharmaceutics and Drug Disposition</i> , 2016, 37, 264-275.	1.1	31
14	Solid-phase extraction of betanin and isobetanin from beetroot extracts using a dipicolinic acid molecularly imprinted polymer. <i>Journal of Chromatography A</i> , 2016, 1465, 47-54.	1.8	30
15	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20849-20857.	7.2	29
16	Decreased Renal Gluconeogenesis Is a Hallmark of Chronic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 810-827.	3.0	24
17	The carnitine biosynthetic pathway in <i>Arabidopsis thaliana</i> shares similar features with the pathway of mammals and fungi. <i>Plant Physiology and Biochemistry</i> , 2012, 60, 109-114.	2.8	22
18	A water-soluble polysaccharide from <i>Anethum graveolens</i> seeds: Structural characterization, antioxidant activity and potential use as meat preservative. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 516-527.	3.6	22

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19	Glycerolipid analysis during desiccation and recovery of the resurrection plant <i>Xerophyta humilis</i> (Bak) Dur and Schinz. <i>Plant, Cell and Environment</i> , 2018, 41, 533-547.	2.8	21
20	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. <i>Angewandte Chemie</i> , 2020, 132, 2838-2844.	1.6	21
21	Plastic Antibodies for Cosmetics: Molecularly Imprinted Polymers Scavenge Precursors of Malodors. <i>Angewandte Chemie</i> , 2016, 128, 6360-6364.	1.6	18
22	Renewable Plant Oil-Based Molecularly Imprinted Polymers as Biopesticide Delivery Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15927-15935.	3.2	13
23	Molecularly imprinted polymer nanoparticles-based electrochemical chemosensors for selective determination of cilostazol and its pharmacologically active primary metabolite in human plasma. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113542.	5.3	13
24	Online monitoring of hepatic rat metabolism by coupling a liver biochip and a mass spectrometer. <i>Analyst</i> , 2017, 142, 3747-3757.	1.7	12
25	A gas chromatography full scan high resolution Orbitrap mass spectrometry method for separation and characterization of 3-hydroxymethyl pyridine ester of fatty acids at low levels. <i>Journal of Chromatography A</i> , 2018, 1575, 72-79.	1.8	11
26	¹³ C labeling analysis of sugars by high resolution-mass spectrometry for metabolic flux analysis. <i>Analytical Biochemistry</i> , 2017, 527, 45-48.	1.1	10
27	Molecularly imprinted polymers by thiol-ene chemistry: making imprinting even easier. <i>Polymer Chemistry</i> , 2019, 10, 4732-4739.	1.9	10
28	Molecularly imprinted polymer nanogels targeting the HAV motif in cadherins inhibit cell-cell adhesion and migration. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6688-6697.	2.9	9
29	Analysis of ¹³ C labeling amino acids by capillary electrophoresis - High resolution mass spectrometry in developing flaxseed. <i>Analytical Biochemistry</i> , 2018, 547, 14-18.	1.1	5
30	Biosensing of reactive intermediates produced by the photocatalytic activities of titanium dioxide nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 110, 22-27.	1.7	4
31	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. <i>Angewandte Chemie</i> , 2021, 133, 21017-21025.	1.6	3
32	Evaluation of performance and validity limits of gas chromatography electron ionisation with Orbitrap detection for fatty acid methyl ester analyses. <i>Rapid Communications in Mass Spectrometry</i> , 2019, , e8609.	0.7	2
33	Data documenting the comparison between the theoretically expected values of free sugars mass isotopomer composition with standards using GC-MS and LC-HRMS for Metabolic Flux Analysis. <i>Data in Brief</i> , 2017, 12, 108-112.	0.5	1
34	Chemical Characterization and Antioxidant Potential of <i>Athrosma proteiformis</i> Essential Oil. <i>Natural Products Journal</i> , 2017, 7, .	0.1	1