Benedicte Elena-Herrmann

List of Publications by Year
in descending order

67	4,073	117619	118840
papers	citations	34 h-index	62 g-index

68	68	68	5207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of Modulators of the C.Âelegans Aryl Hydrocarbon Receptor and Characterization of Transcriptomic and Metabolic AhR-1 Profiles. Antioxidants, 2022, 11, 1030.	5.1	5
2	Effects of an Exercise and Nutritional Intervention on Circulating Biomarkers and Metabolomic Profiling During Adjuvant Treatment for Localized Breast Cancer: Results From the PASAPAS Feasibility Randomized Controlled Trial. Integrative Cancer Therapies, 2021, 20, 153473542097766.	2.0	6
3	Investigation of circulating metabolites associated with breast cancer risk by untargeted metabolomics: a caseâ€“control study nested within the French E3N cohort. British Journal of Cancer, 2021, 124, 1734-1743.	6.4	27
4	Metabolomic Approaches to Study Chemical Exposure-Related Metabolism Alterations in Mammalian Cell Cultures. International Journal of Molecular Sciences, 2020, 21, 6843.	4.1	16
5	Fast and ergonomic extraction of adherent mammalian cells for NMR-based metabolomics studies. Analytical and Bioanalytical Chemistry, 2020, 412, 5453-5463.	3.7	6
6	Multi-platform NMR Study of Pluripotent Stem Cells Unveils Complementary Metabolic Signatures towards Differentiation. Scientific Reports, 2020, 10, 1622.	3.3	12
7	General Guidelines for Sample Preparation Strategies in HR-ÂµMAS NMR-based Metabolomics of Microscopic Specimens. Metabolites, 2020, 10, 54.	2.9	11
8	Metabolomic Profiling of Body Fluids in Mouse Models Demonstrates that Nuclear Magnetic Resonance Is a Putative Diagnostic Tool for the Presence of Thyroid Hormone Receptor Î±1 Mutations. Thyroid, 2019, 29, 1327-1335.	4.5	8
9	FRI-291-Glucokinase sensitizes hepatocarcinoma cells to the lipogenic activity of fructose and controls accumulation of lipid droplets and secretion of triglyceride-rich lipoproteins. Journal of Hepatology, 2019, 70, e523.	3.7	0
10	Discrimination of Escherichia coli and Shigella spp. by Nuclear Magnetic Resonance Based Metabolomic Characterization of Culture Media. ACS Infectious Diseases, 2019, 5, 1879-1886.	3.8	11
11	Metabolic Phenotyping of Adipose-Derived Stem Cells Reveals a Unique Signature and Intrinsic Differences between Fat Pads. Stem Cells International, 2019, 2019, 1-16.	2.5	13
12	Cell-Free Protein Synthesis Enhancement from Real-Time NMR Metabolite Kinetics: Redirecting Energy Fluxes in Hybrid RRL Systems. ACS Synthetic Biology, 2018, 7, 218-226.	3.8	17
13	Metabolic rewiring and de novo lipogenesis induced by Glucokinase expression in hepatocarcinoma cell line. Journal of Hepatology, 2018, 68, S139.	3.7	0
14	Evolution of Newbornsâ€™ Urinary Metabolomic Profiles According to Age and Growth. Journal of Proteome Research, 2017, 16, 3732-3740.	3.7	31
15	Longitudinal serum metabolomics evaluation of trastuzumab and everolimus combination as pre-operative treatment for HER-2 positive breast cancer patients. Oncotarget, 2017, 8, 83570-83584.	1.8	18
16	Insights on the virulence of swine respiratory tract mycoplasmas through genome-scale metabolic modeling. BMC Genomics, 2016, 17, 353.	2.8	34
17	A Systematic Evaluation of Blood Serum and Plasma Pre-Analytics for Metabolomics Cohort Studies. International Journal of Molecular Sciences, 2016, 17, 2035.	4.1	56
18	Structure elucidation of a complex CO₂-based organic framework material by NMR crystallography. Chemical Science, 2016, 7, 4379-4390.	7.4	39

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19	Identification of bacterial species by untargeted NMR spectroscopy of the exo-metabolome. Analyst, The, 2016, 141, 4558-4561.	3.5	47
20	Metabolomic profiles of hepatocellular carcinoma in a European prospective cohort. BMC Medicine, 2015, 13, 242.	5.5	93
21	A statistical framework to model the meeting-in-the-middle principle using metabolomic data: application to hepatocellular carcinoma in the EPIC study. Mutagenesis, 2015, 30, gev045.	2.6	28
22	Glycolysis-Mediated Changes in Acetyl-CoA and Histone Acetylation Control the Early Differentiation of Embryonic Stem Cells. Cell Metabolism, 2015, 21, 392-402.	16.2	541
23	A serum metabolomic fingerprint of bevacizumab and temsirolimus combination as first-line treatment of metastatic renal cell carcinoma. British Journal of Cancer, 2015, 113, 1148-1157.	6.4	20
24	A serum nuclear magnetic resonance-based metabolomic signature of advanced metastatic human breast cancer. Cancer Letters, 2014, 343, 33-41.	7.2	133
25	Metabolic expressivity of human genetic variants: NMR metabotyping of MEN1 pathogenic mutants. Journal of Pharmaceutical and Biomedical Analysis, 2014, 93, 118-124.	2.8	4
26	Metabolomics Analysis Uncovers That Dietary Restriction Buffers Metabolic Changes Associated with Aging in Caenorhabditis elegans. Journal of Proteome Research, 2014, 13, 2910-2919.	3.7	40
27	Investigating sources of variability in metabolomic data in the EPIC study: the Principal Component Partial R-square (PC-PR2) method. Metabolomics, 2014, 10, 1074-1083.	3.0	40
28	Downregulation of transcription factor E4F1 in hepatocarcinoma cells: HBV-dependent effects on autophagy, proliferation and metabolism. Carcinogenesis, 2014, 35, 635-650.	2.8	11
29	Î¼High Resolution-Magic-Angle Spinning NMR Spectroscopy for Metabolic Phenotyping of Caenorhabditis elegans. Analytical Chemistry, 2014, 86, 6064-6070.	6.5	39
30	1165 HCV INFECTION REPROGRAMS THE HEPATIC GLUCOSE AND GLUTAMINE METABOLISM. Journal of Hepatology, 2013, 58, S474.	3.7	0
31	637 A NMR METABONOMIC APPROACH TO EXPLORE EARLY BIOMARKERS OF HEPATOCELLULAR CARCINOMA IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION (EPIC). Journal of Hepatology, 2013, 58, S260.	3.7	0
32	Applications of Projection NMR Techniques. Annual Reports on NMR Spectroscopy, 2013, 78, 55-102.	1.5	1
33	Batch profiling calibration for robust NMR metabonomic data analysis. Analytical and Bioanalytical Chemistry, 2013, 405, 8819-8827.	3.7	15
34	Metabolomics-on-a-Chip of Hepatotoxicity Induced by Anticancer Drug Flutamide and Its Active Metabolite Hydroxyflutamide Using HepG2/C3a Microfluidic Biochips. Toxicological Sciences, 2013, 132, 8-20.	3.1	79
35	715 A Multi-marker Approach for Early Detection of HBV-related Hepatocellular Carcinoma in Areas of High Incidence. European Journal of Cancer, 2012, 48, S169-S170.	2.8	1
36	Metabolomics-on-a-chip and metabolic flux analysis for label-free modeling of the internal metabolism of HepG2/C3A cells. Molecular BioSystems, 2012, 8, 1908.	2.9	37

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37	Predictive toxicology using systemic biology and liver microfluidic â€œon chipâ€•approaches: Application to acetaminophen injury. Toxicology and Applied Pharmacology, 2012, 259, 270-280.	2.8	59
38	Powder Crystallography by Combined Crystal Structure Prediction and High-Resolution ¹H Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 2564-2566.	13.7	201
39	Two-Dimensional Statistical Recoupling for the Identification of Perturbed Metabolic Networks from NMR Spectroscopy. Journal of Proteome Research, 2010, 9, 4513-4520.	3.7	47
40	La mÃ©tabolomique: un nouvel outil pour la recherche translationnelle en cancÃ©rologie. Oncologie, 2010, 12, 409-415.	0.7	0
41	Computation and NMR crystallography of terbutaline sulfate. Magnetic Resonance in Chemistry, 2010, 48, S103-S112.	1.9	76
42	Targeted projection NMR spectroscopy for unambiguous metabolic profiling of complex mixtures. Magnetic Resonance in Chemistry, 2010, 48, 727-733.	1.9	17
43	15Nâ€“15N spinâ€“spin coupling constants through intermolecular hydrogen bonds in the solid state. Journal of Magnetic Resonance, 2010, 206, 274-279.	2.1	11
44	Observation of NMR noise from solid samples. Journal of Magnetic Resonance, 2010, 207, 168-172.	2.1	13
45	Homonuclear dipolar decoupling with very large scaling factors for high-resolution ultrafast magic angle spinning 1H solid-state NMR spectroscopy. Chemical Physics Letters, 2010, 498, 214-220.	2.6	39
46	Ab initio simulation of proton spin diffusion. Physical Chemistry Chemical Physics, 2010, 12, 9172.	2.8	34
47	Complete 1H resonance assignment of Î²-maltose from 1Hâ€“1H DQ-SQ CRAMPS and 1H (DQ-DUMBO)â€“13C SQ refocused INEPT 2D solid-state NMR spectra and first principles GIPAW calculations. Physical Chemistry Chemical Physics, 2010, 12, 6970.	2.8	83
48	Enhanced sensitivity in high-resolution 1H solid-state NMR spectroscopy with DUMBO dipolar decoupling under ultra-fast MAS. Chemical Physics Letters, 2009, 469, 336-341.	2.6	80
49	Statistical Recoupling Prior to Significance Testing in Nuclear Magnetic Resonance Based Metabonomics. Analytical Chemistry, 2009, 81, 6242-6251.	6.5	88
50	Metabolic Profiling Strategy of Caenorhabditis elegans by Whole-Organism Nuclear Magnetic Resonance. Journal of Proteome Research, 2009, 8, 2542-2550.	3.7	51
51	Powder NMR crystallography of thymol. Physical Chemistry Chemical Physics, 2009, 11, 2610.	2.8	180
52	Improving resolution in proton solid-state NMR by removing nitrogen-14 residual dipolar broadening. Chemical Physics Letters, 2008, 458, 391-395.	2.6	9
53	Methyl Proton Contacts Obtained Using Heteronuclear Through-Bond Transfers in Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 10625-10632.	13.7	19
54	Metabotyping of Caenorhabditis elegans reveals latent phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19808-19812.	7.1	107

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55	Resolving Structures from Powders by NMR Crystallography Using Combined Proton Spin Diffusion and Plane Wave DFT Calculations. Journal of the American Chemical Society, 2007, 129, 8932-8933.	13.7	120
56	Twoâ€Photon Microscopy and Spectroscopy of Lanthanide Bioprobes. ChemPhysChem, 2007, 8, 2125-2132.	2.1	78
57	On the orientational dependence of resolution in1H solid-state NMR, and its role in MAS, CRAMPS and delayed-acquisition experiments. Magnetic Resonance in Chemistry, 2007, 45, S93-S100.	1.9	15
58	Molecular Structure Determination in Powders by NMR Crystallography from Proton Spin Diffusion. Journal of the American Chemical Society, 2006, 128, 9555-9560.	13.7	165
59	Assigning powders to crystal structures by high-resolution1Hâ€“1H double quantum and1Hâ€“13C J-INEPT solid-state NMR spectroscopy and first principles computation. A case study of penicillin G. Physical Chemistry Chemical Physics, 2006, 8, 3418-3422.	2.8	79
60	Powder Crystallography by Proton Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 9140-9146.	13.7	164
61	Proton to Carbon-13 INEPT in Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 17296-17302.	13.7	138
62	Characterization of heteronuclear decoupling through proton spin dynamics in solid-state nuclear magnetic resonance spectroscopy. Journal of Chemical Physics, 2004, 121, 3165-3180.	3.0	50
63	Probing Protonâ^'Proton Proximities in the Solid State:Â High-Resolution Two-Dimensional1Hâ^'1H Double-Quantum CRAMPS NMR Spectroscopy. Journal of the American Chemical Society, 2004, 126, 13230-13231.	13.7	118
64	Direct spectral optimisation of protonâ€“proton homonuclear dipolar decoupling in solid-state NMR. Chemical Physics Letters, 2004, 398, 532-538.	2.6	188
65	Correlation of fast and slow chemical shift spinning sideband patterns under fast magic-angle spinning. Journal of Magnetic Resonance, 2003, 160, 40-46.	2.1	27
66	Dynamic nuclear polarization at 9T using a novel 250GHz gyrotron microwave source. Journal of Magnetic Resonance, 2003, 160, 85-90.	2.1	209
67	Experimental aspects of proton NMR spectroscopy in solids using phase-modulated homonuclear dipolar decoupling. Journal of Magnetic Resonance, 2003, 163, 105-113.	2.1	169