

David F Grant

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8912338/publications.pdf>

Version: 2024-02-01

33
papers

2,019
citations

361413

20
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

2354
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Mobility Derived Collision Cross Sections to Support Metabolomics Applications. <i>Analytical Chemistry</i> , 2014, 86, 3985-3993.	6.5	279
2	Bioactivation of leukotoxins to their toxic diols by epoxide hydrolase. <i>Nature Medicine</i> , 1997, 3, 562-566.	30.7	268
3	Ion Mobility-Derived Collision Cross Section As an Additional Measure for Lipid Fingerprinting and Identification. <i>Analytical Chemistry</i> , 2015, 87, 1137-1144.	6.5	245
4	Distribution of Soluble Epoxide Hydrolase and of Cytochrome P450 2C8, 2C9, and 2J2 in Human Tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 447-454.	2.5	221
5	Polymorphisms in Human Soluble Epoxide Hydrolase. <i>Molecular Pharmacology</i> , 2003, 64, 482-490.	2.3	142
6	Mass Spectral Metabonomics beyond Elemental Formula: Chemical Database Querying by Matching Experimental with Computational Fragmentation Spectra. <i>Analytical Chemistry</i> , 2008, 80, 5574-5582.	6.5	117
7	CE ₅₀ : Quantifying collision induced dissociation energy for small molecule characterization and identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1759-1767.	2.8	93
8	Distribution of soluble epoxide hydrolase, cytochrome P450 2C8, 2C9 and 2J2 in human malignant neoplasms. <i>Journal of Molecular Histology</i> , 2006, 37, 133-141.	2.2	75
9	MolFind: A Software Package Enabling HPLC/MS-Based Identification of Unknown Chemical Structures. <i>Analytical Chemistry</i> , 2012, 84, 9388-9394.	6.5	65
10	Effects of human soluble epoxide hydrolase polymorphisms on isoprenoid phosphate hydrolysis. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 254-260.	2.1	57
11	Development of Ecom ₅₀ and Retention Index Models for Nontargeted Metabolomics: Identification of 1,3-Dicyclohexylurea in Human Serum by HPLC/Mass Spectrometry. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 1222-1237.	5.4	46
12	Evaluation of an Artificial Neural Network Retention Index Model for Chemical Structure Identification in Nontargeted Metabolomics. <i>Analytical Chemistry</i> , 2018, 90, 12752-12760.	6.5	40
13	In Silico Enzymatic Synthesis of a 400,000 Compound Biochemical Database for Nontargeted Metabolomics. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 2483-2492.	5.4	37
14	Comprehensive Assessment of GFN Tight-Binding and Composite Density Functional Theory Methods for Calculating Gas-Phase Infrared Spectra. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7044-7060.	5.3	32
15	BioSM: Metabolomics Tool for Identifying Endogenous Mammalian Biochemical Structures in Chemical Structure Space. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 601-612.	5.4	30
16	Linoleic Acid Diols Are Novel Substrates for Human UDP-Glucuronosyltransferases. <i>Archives of Biochemistry and Biophysics</i> , 2000, 380, 294-302.	3.0	28
17	Prediction of HPLC Retention Index Using Artificial Neural Networks and IGroup E-State Indices. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 788-799.	5.4	25
18	Defining Mechanisms of Toxicity for Linoleic Acid Monoepoxides and Diols in Sf-21 Cells. <i>Chemical Research in Toxicology</i> , 2001, 14, 431-437.	3.3	23

#	ARTICLE	IF	CITATIONS
19	Development of a Reverse Phase HPLC Retention Index Model for Nontargeted Metabolomics Using Synthetic Compounds. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 591-604.	5.4	21
20	Correlation of Ecom ₅₀ values between mass spectrometers: effect of collision cell radiofrequency voltage on calculated survival yield. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2303-2310.	1.5	20
21	Optimizing artificial neural network models for metabolomics and systems biology: an example using HPLC retention index data. <i>Bioanalysis</i> , 2015, 7, 939-955.	1.5	20
22	Alignment of high resolution mass spectra: development of a heuristic approach for metabolomics. <i>Metabolomics</i> , 2006, 2, 75-83.	3.0	19
23	Differential subcellular localization of endogenous and transfected soluble epoxide hydrolase in mammalian cells: evidence for isozyme variants. <i>FEBS Letters</i> , 1999, 445, 301-305.	2.8	16
24	Database searching for structural identification of metabolites in complex biofluids for mass spectrometry-based metabonomics. <i>Bioanalysis</i> , 2009, 1, 1627-1643.	1.5	15
25	CHEMICAL STRUCTURE IDENTIFICATION IN METABOLOMICS: COMPUTATIONAL MODELING OF EXPERIMENTAL FEATURES. <i>Computational and Structural Biotechnology Journal</i> , 2013, 5, e201302005.	4.1	12
26	Identification of the $\hat{1}^3$ -Aminobutyric Acid Receptor $\hat{1}^2$ and $\hat{1}^3$ Subunits in Rat, Rabbit, and Human Kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 1107-1113.	6.1	12
27	A semiparametric modeling framework for potential biomarker discovery and the development of metabonomic profiles. <i>BMC Bioinformatics</i> , 2008, 9, 38.	2.6	9
28	Correction of precursor and product ion relative abundances in order to standardize CID spectra and improve Ecom ₅₀ accuracy for non-targeted metabolomics. <i>Metabolomics</i> , 2015, 11, 753-763.	3.0	9
29	NMR and HPLC-MS/MS analysis of synthetically prepared linoleic acid diol glucuronides. <i>Chemistry and Physics of Lipids</i> , 2006, 140, 75-87.	3.2	8
30	Development of Database Assisted Structure Identification (DASI) Methods for Nontargeted Metabolomics. <i>Metabolites</i> , 2016, 6, 17.	2.9	5
31	High-Throughput Non-targeted Chemical Structure Identification Using Gas-Phase Infrared Spectra. <i>Analytical Chemistry</i> , 2021, 93, 10688-10696.	6.5	4
32	Linoleic Acid Metabolites Act to Increase Contractility in Isolated Rat Heart. <i>Cardiovascular Toxicology</i> , 2002, 2, 219-230.	2.7	1
33	MolFind2: A Protocol for Acquiring and Integrating MS3 Data to Improve In Silico Chemical Structure Elucidation for Metabolomics. <i>Methods in Molecular Biology</i> , 2020, 2084, 283-295.	0.9	1