

Oscar Yanes

List of Publications by Year in descending order

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92
papers

7,730
citations

117453

34
h-index

53109

85
g-index

99
all docs

99
docs citations

99
times ranked

13342
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics: the apogee of the omics trilogy. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 263-269.	16.1	1,931
2	Clathrate nanostructures for mass spectrometry. <i>Nature</i> , 2007, 449, 1033-1036.	13.7	457
3	Metabolic oxidation regulates embryonic stem cell differentiation. <i>Nature Chemical Biology</i> , 2010, 6, 411-417.	3.9	454
4	The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming. <i>Cell Research</i> , 2012, 22, 168-177.	5.7	452
5	Mass spectral databases for LC/MS- and GC/MS-based metabolomics: State of the field and future prospects. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 78, 23-35.	5.8	404
6	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , 2016, 7, 13103.	5.8	261
7	Expanding Coverage of the Metabolome for Global Metabolite Profiling. <i>Analytical Chemistry</i> , 2011, 83, 2152-2161.	3.2	233
8	A Guideline to Univariate Statistical Analysis for LC/MS-Based Untargeted Metabolomics-Derived Data. <i>Metabolites</i> , 2012, 2, 775-795.	1.3	224
9	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. <i>Nature Chemical Biology</i> , 2012, 8, 232-234.	3.9	183
10	Neurons Have an Active Glycogen Metabolism that Contributes to Tolerance to Hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 945-955.	2.4	169
11	ADP-ribose-derived nuclear ATP synthesis by NUDIX5 is required for chromatin remodeling. <i>Science</i> , 2016, 352, 1221-1225.	6.0	141
12	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. <i>Journal of Lipid Research</i> , 2015, 56, 737-746.	2.0	133
13	Nanostructure-initiator mass spectrometry: a protocol for preparing and applying NIMS surfaces for high-sensitivity mass analysis. <i>Nature Protocols</i> , 2008, 3, 1341-1349.	5.5	122
14	Nanostructure Initiator Mass Spectrometry: Tissue Imaging and Direct Biofluid Analysis. <i>Analytical Chemistry</i> , 2009, 81, 2969-2975.	3.2	117
15	Epigenetic Regulation at the Interplay Between Gut Microbiota and Host Metabolism. <i>Frontiers in Genetics</i> , 2019, 10, 638.	1.1	116
16	Antioxidant or neurotrophic factor treatment preserves function in a mouse model of neovascularization-associated oxidative stress. <i>Journal of Clinical Investigation</i> , 2009, 119, 611-623.	3.9	114
17	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 9821-9829.	3.2	101
18	Detection of Carbohydrates and Steroids by Cation-Enhanced Nanostructure-Initiator Mass Spectrometry (NIMS) for Biofluid Analysis and Tissue Imaging. <i>Analytical Chemistry</i> , 2010, 82, 121-128.	3.2	94

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19	Assessment of Compatibility between Extraction Methods for NMR- and LC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , 2012, 84, 5838-5844.	3.2	86
20	Differential Macrophage Polarization Promotes Tissue Remodeling and Repair in a Model of Ischemic Retinopathy. <i>Scientific Reports</i> , 2011, 1, 76.	1.6	77
21	Hypoxia induces a lipogenic cancer cell phenotype via HIF1 α -dependent and -independent pathways. <i>Oncotarget</i> , 2015, 6, 1920-1941.	0.8	72
22	geoRge: A Computational Tool To Detect the Presence of Stable Isotope Labeling in LC/MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 621-628.	3.2	67
23	FELLA: an R package to enrich metabolomics data. <i>BMC Bioinformatics</i> , 2018, 19, 538.	1.2	61
24	Signal preprocessing, multivariate analysis and software tools for MA(LDI)-TOF mass spectrometry imaging for biological applications. <i>Mass Spectrometry Reviews</i> , 2018, 37, 281-306.	2.8	58
25	CliqueMS: a computational tool for annotating in-source metabolite ions from LC-MS untargeted metabolomics data based on a coelution similarity network. <i>Bioinformatics</i> , 2019, 35, 4089-4097.	1.8	57
26	MacroH2A1.1 regulates mitochondrial respiration by limiting nuclear NAD ⁺ consumption. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 902-910.	3.6	54
27	Role of the Transforming Growth Factor- β 2 in regulating hepatocellular carcinoma oxidative metabolism. <i>Scientific Reports</i> , 2017, 7, 12486.	1.6	54
28	Metabolic Profiling in Formalin-Fixed and Paraffin-Embedded Prostate Cancer Tissues. <i>Molecular Cancer Research</i> , 2017, 15, 439-447.	1.5	53
29	Mind the Gap: Mapping Mass Spectral Databases in Genome-Scale Metabolic Networks Reveals Poorly Covered Areas. <i>Metabolites</i> , 2018, 8, 51.	1.3	51
30	FoxA and LIPG endothelial lipase control the uptake of extracellular lipids for breast cancer growth. <i>Nature Communications</i> , 2016, 7, 11199.	5.8	50
31	Adipose tissue glycogen accumulation is associated with obesity-linked inflammation in humans. <i>Molecular Metabolism</i> , 2016, 5, 5-18.	3.0	50
32	iMet: A Network-Based Computational Tool To Assist in the Annotation of Metabolites from Tandem Mass Spectra. <i>Analytical Chemistry</i> , 2017, 89, 3474-3482.	3.2	46
33	Essentiality of fatty acid synthase in the 2D to anchorage-independent growth transition in transforming cells. <i>Nature Communications</i> , 2019, 10, 5011.	5.8	43
34	Endogenous Retroelement Activation by Epigenetic Therapy Reverses the Warburg Effect and Elicits Mitochondrial-Mediated Cancer Cell Death. <i>Cancer Discovery</i> , 2021, 11, 1268-1285.	7.7	42
35	Metabolomics Reveals Reduction of Metabolic Oxidation in Women with Polycystic Ovary Syndrome after Pioglitazone-Flutamide-Metformin Polytherapy. <i>PLoS ONE</i> , 2011, 6, e29052.	1.1	41
36	Silicon-Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. <i>Advanced Functional Materials</i> , 2019, 29, 1903609.	7.8	37

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37	Tumors defective in homologous recombination rely on oxidative metabolism: relevance to treatments with <sc>PARP</sc> inhibitors. <i>EMBO Molecular Medicine</i> , 2020, 12, e11217.	3.3	37
38	Environmental arginine controls multinuclear giant cell metabolism and formation. <i>Nature Communications</i> , 2020, 11, 431.	5.8	37
39	Nanostructure Initiator Mass Spectrometry for tissue imaging in metabolomics: Future prospects and perspectives. <i>Journal of Proteomics</i> , 2012, 75, 5061-5068.	1.2	36
40	rMSI: an R package for MS imaging data handling and visualization. <i>Bioinformatics</i> , 2017, 33, 2427-2428.	1.8	36
41	Metabolite discovery: Biochemistry's scientific driver. <i>Cell Metabolism</i> , 2022, 34, 21-34.	7.2	36
42	Fatty acid binding protein 4 (FABP4) as a potential biomarker reflecting myocardial lipid storage in type 2 diabetes. <i>Metabolism: Clinical and Experimental</i> , 2019, 96, 12-21.	1.5	35
43	Detection of non-covalent protein interactions by 'intensity fading' MALDI-TOF mass spectrometry: applications to proteases and protease inhibitors. <i>Nature Protocols</i> , 2007, 2, 119-130.	5.5	34
44	Untargeted metabolomics identifies a plasma sphingolipid-related signature associated with lifestyle intervention in prepubertal children with obesity. <i>International Journal of Obesity</i> , 2018, 42, 72-78.	1.6	33
45	Crosstalk between Drp1 phosphorylation sites during mitochondrial remodeling and their impact on metabolic adaptation. <i>Cell Reports</i> , 2021, 36, 109565.	2.9	32
46	Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. <i>Scientific Reports</i> , 2017, 7, 17831.	1.6	31
47	EXD2 governs germ stem cell homeostasis and lifespan by promoting mitoribosome integrity and translation. <i>Nature Cell Biology</i> , 2018, 20, 162-174.	4.6	31
48	Untargeted lipidomics uncovers lipid signatures that distinguish severe from moderate forms of acutely decompensated cirrhosis. <i>Journal of Hepatology</i> , 2021, 75, 1116-1127.	1.8	31
49	Identification of Protein Ligands in Complex Biological Samples Using Intensity-Fading MALDI-TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 3385-3395.	3.2	30
50	CD98hc (SLC3A2) sustains amino acid and nucleotide availability for cell cycle progression. <i>Scientific Reports</i> , 2019, 9, 14065.	1.6	30
51	Functional Screening of Serine Protease Inhibitors in the Medical Leech <i>Hirudo medicinalis</i> Monitored by Intensity Fading MALDI-TOF MS. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1602-1613.	2.5	29
52	Null diffusion-based enrichment for metabolomics data. <i>PLoS ONE</i> , 2017, 12, e0189012.	1.1	29
53	Detection of Noncovalent Complexes in Biological Samples by Intensity Fading and High-Mass Detection MALDI-TOF Mass Spectrometry. <i>Journal of Proteome Research</i> , 2006, 5, 2711-2719.	1.8	28
54	Dysfunctional LAT2 Amino Acid Transporter Is Associated With Cataract in Mouse and Humans. <i>Frontiers in Physiology</i> , 2019, 10, 688.	1.3	28

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55	Proteomic profiling of a snake venom using high mass detection MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 600-606.	1.2	27
56	Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: a common feature in diabetes. <i>Scientific Reports</i> , 2016, 6, 19249.	1.6	25
57	Redundant roles of the phosphatidate phosphatase family in triacylglycerol synthesis in human adipocytes. <i>Diabetologia</i> , 2016, 59, 1985-1994.	2.9	25
58	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. <i>PLoS ONE</i> , 2018, 13, e0208908.	1.1	25
59	Nucleotide depletion reveals the impaired ribosome biogenesis checkpoint as a barrier against DNA damage. <i>EMBO Journal</i> , 2020, 39, e103838.	3.5	24
60	Adaptation to HIF1 α Deletion in Hypoxic Cancer Cells by Upregulation of GLUT14 and Creatine Metabolism. <i>Molecular Cancer Research</i> , 2019, 17, 1531-1544.	1.5	22
61	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. <i>Analytica Chimica Acta</i> , 2018, 1022, 61-69.	2.6	21
62	Lifestyle Intervention Decreases Urine Trimethylamine N-Oxide Levels in Prepubertal Children with Obesity. <i>Obesity</i> , 2018, 26, 1603-1610.	1.5	21
63	rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , 2020, 36, 3618-3619.	1.8	21
64	Proteome of the Bacterium <i>Mycoplasma penetrans</i> . <i>Journal of Proteome Research</i> , 2006, 5, 688-694.	1.8	20
65	Exploring the intensity fading phenomenon in the study of noncovalent interactions by MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 359-367.	1.2	20
66	Epigenetic programming at the Mogat1 locus may link neonatal overnutrition with long-term hepatic steatosis and insulin resistance. <i>FASEB Journal</i> , 2018, 32, 6025-6037.	0.2	19
67	Exploring the Use of Gas Chromatography Coupled to Chemical Ionization Mass Spectrometry (GC-CI-MS) for Stable Isotope Labeling in Metabolomics. <i>Analytical Chemistry</i> , 2021, 93, 1242-1248.	3.2	16
68	HERMES: a molecular-formula-oriented method to target the metabolome. <i>Nature Methods</i> , 2021, 18, 1370-1376.	9.0	16
69	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , 2015, 5, 11496.	1.6	15
70	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional ¹³ C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3531-3535.	7.2	15
71	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. <i>JCI Insight</i> , 2019, 4, .	2.3	14
72	Activation of glycogenolysis and glycolysis in breast cancer stem cell models. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165886.	1.8	11

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73	Intensity-fading MALDI-TOF-MS: novel screening for ligand binding and drug discovery. <i>Drug Discovery Today: TARGETS</i> , 2004, 3, 23-30.	0.5	9
74	Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms. <i>Biomolecules</i> , 2020, 10, 1275.	1.8	9
75	Serum metabolic biomarkers for synucleinopathy conversion in isolated REM sleep behavior disorder. <i>Npj Parkinson's Disease</i> , 2021, 7, 40.	2.5	9
76	Plasma Metabolomic Profiling Associates Bicuspid Aortic Valve Disease and Ascending Aortic Dilation with a Decrease in Antioxidant Capacity. <i>Journal of Clinical Medicine</i> , 2020, 9, 2215.	1.0	8
77	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , 2014, 57, 1219-1231.	2.9	7
78	Effects of Lifestyle Intervention in Tissue-Specific Lipidomic Profile of Formerly Obese Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3694.	1.8	7
79	Sample Preparation Methods for LC-MS-Based Global Aqueous Metabolite Profiling. <i>Methods in Molecular Biology</i> , 2014, 1198, 75-80.	0.4	6
80	Histamine signaling and metabolism identify potential biomarkers and therapies for lymphangioleiomyomatosis. <i>EMBO Molecular Medicine</i> , 2021, 13, e13929.	3.3	6
81	Playing piñata with single cells. <i>Nature Chemical Biology</i> , 2013, 9, 471-473.	3.9	5
82	Niveles plasmáticos de glucosa, triglicéridos, VLDL, leptina y resistina como potenciales biomarcadores de la grasa miocárdica en ratones. <i>Clínica E Investigación En Arteriosclerosis</i> , 2020, 32, 8-14.	0.4	4
83	Identification of metabolic changes leading to cancer susceptibility in Fanconi anemia cells. <i>Cancer Letters</i> , 2021, 503, 185-196.	3.2	4
84	MCF-7 Drug Resistant Cell Lines Switch Their Lipid Metabolism to Triple Negative Breast Cancer Signature. <i>Cancers</i> , 2021, 13, 5871.	1.7	4
85	The Capacity of APOB-Depleted Plasma in Inducing ATP-Binding Cassette A1/G1-Mediated Macrophage Cholesterol Efflux But Not Gut Microbial-Derived Metabolites Is Independently Associated with Mortality in Patients with ST-Segment Elevation Myocardial Infarction. <i>Biomedicines</i> , 2021, 9, 1336.	1.4	3
86	Innentitelbild: Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional ¹ H-NMR Approach for ¹³ C Stable Isotope Tracer Studies in Metabolomics (<i>Angew. Chem.</i> 13/2017). <i>Angewandte Chemie</i> , 2017, 129, 3446-3446.	1.6	1
87	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional ¹ H-NMR Approach for ¹³ C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie</i> , 2017, 129, 3585-3589.	1.6	1
88	Plasma glucose, triglycerides, VLDL, leptin and resistin levels as potential biomarkers for myocardial fat in mice. <i>Clínica E Investigación En Arteriosclerosis (English Edition)</i> , 2020, 32, 8-14.	0.1	1
89	Increased Hypothalamic Anti-Inflammatory Mediators in Non-Diabetic Insulin Receptor Substrate 2-Deficient Mice. <i>Cells</i> , 2021, 10, 2085.	1.8	1
90	MAPI: A Server for Improving Protein Identification from a Four Matrices Mass Spectrometry Approach. <i>Current Proteomics</i> , 2010, 7, 102-107.	0.1	0

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91	Analysis of Protein-Protein Interactions in Complex Biological Samples by MALDI TOF MS. Feasibility and Use of the Intensity-Fading (IF-) Approach. Principles and Practice, 2004, , 183-202.	0.3	0
92	Solvents for Mass Spec-Based Metabolomics. Materials and Methods, 0, 1, .	0.0	0