

# Oscar Yanes

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

5,870  
citations

33  
h-index

76  
g-index

99  
ext. papers

6,907  
ext. citations

9.7  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
86	Innovation: Metabolomics: the apogee of the omics trilogy. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 263-9	48.7	1517
85	Clathrate nanostructures for mass spectrometry. <i>Nature</i> , <b>2007</b> , 449, 1033-6	50.4	426
84	Metabolic oxidation regulates embryonic stem cell differentiation. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 411-7	11.7	396
83	The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming. <i>Cell Research</i> , <b>2012</b> , 22, 168-77	24.7	388
82	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> , <b>2016</b> , 78, 23-35	14.6	295
81	Expanding coverage of the metabolome for global metabolite profiling. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2152-61	7.8	207
80	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , <b>2016</b> , 7, 13103	17.4	177
79	A Guideline to Univariate Statistical Analysis for LC/MS-Based Untargeted Metabolomics-Derived Data. <i>Metabolites</i> , <b>2012</b> , 2, 775-95	5.6	167
78	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 232-4	11.7	141
77	Neurons have an active glycogen metabolism that contributes to tolerance to hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2014</b> , 34, 945-55	7.3	126
76	Nanostructure-initiator mass spectrometry: a protocol for preparing and applying NIMS surfaces for high-sensitivity mass analysis. <i>Nature Protocols</i> , <b>2008</b> , 3, 1341-9	18.8	112
75	Nanostructure initiator mass spectrometry: tissue imaging and direct biofluid analysis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2969-75	7.8	110
74	ADP-ribose-derived nuclear ATP synthesis by NUDIX5 is required for chromatin remodeling. <i>Science</i> , <b>2016</b> , 352, 1221-5	33.3	101
73	Antioxidant or neurotrophic factor treatment preserves function in a mouse model of neovascularization-associated oxidative stress. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 611-23	15.9	93
72	Liposcale: a novel advanced lipoprotein test based on 2D diffusion-ordered 1H NMR spectroscopy. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 737-746	6.3	90
71	Detection of carbohydrates and steroids by cation-enhanced nanostructure-initiator mass spectrometry (NIMS) for biofluid analysis and tissue imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 121-8	7.8	87
70	Epigenetic Regulation at the Interplay Between Gut Microbiota and Host Metabolism. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 638	4.5	71

69	Assessment of compatibility between extraction methods for NMR- and LC/MS-based metabolomics. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5838-44	7.8	69
68	eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9821-9829	7.8	68
67	Differential macrophage polarization promotes tissue remodeling and repair in a model of ischemic retinopathy. <i>Scientific Reports</i> , <b>2011</b> , 1, 76	4.9	66
66	Hypoxia induces a lipogenic cancer cell phenotype via HIF1 $\beta$ -dependent and -independent pathways. <i>Oncotarget</i> , <b>2015</b> , 6, 1920-41	3.3	50
65	geoRge: A Computational Tool To Detect the Presence of Stable Isotope Labeling in LC/MS-Based Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 621-8	7.8	43
64	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> , <b>2019</b> , 35, 4089-4097	7.2	40
63	Signal preprocessing, multivariate analysis and software tools for MA(LDI)-TOF mass spectrometry imaging for biological applications. <i>Mass Spectrometry Reviews</i> , <b>2018</b> , 37, 281-306	11	39
62	FoxA and LIPG endothelial lipase control the uptake of extracellular lipids for breast cancer growth. <i>Nature Communications</i> , <b>2016</b> , 7, 11199	17.4	39
61	Metabolic Profiling in Formalin-Fixed and Paraffin-Embedded Prostate Cancer Tissues. <i>Molecular Cancer Research</i> , <b>2017</b> , 15, 439-447	6.6	38
60	Mind the Gap: Mapping Mass Spectral Databases in Genome-Scale Metabolic Networks Reveals Poorly Covered Areas. <i>Metabolites</i> , <b>2018</b> , 8,	5.6	38
59	Adipose tissue glycogen accumulation is associated with obesity-linked inflammation in humans. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 5-18	8.8	37
58	MacroH2A1.1 regulates mitochondrial respiration by limiting nuclear NAD consumption. <i>Nature Structural and Molecular Biology</i> , <b>2017</b> , 24, 902-910	17.6	36
57	Nanostructure Initiator Mass Spectrometry for tissue imaging in metabolomics: future prospects and perspectives. <i>Journal of Proteomics</i> , <b>2012</b> , 75, 5061-5068	3.9	35
56	iMet: A Network-Based Computational Tool To Assist in the Annotation of Metabolites from Tandem Mass Spectra. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3474-3482	7.8	34
55	Role of the Transforming Growth Factor- $\beta$ in regulating hepatocellular carcinoma oxidative metabolism. <i>Scientific Reports</i> , <b>2017</b> , 7, 12486	4.9	34
54	Metabolomics reveals reduction of metabolic oxidation in women with polycystic ovary syndrome after pioglitazone-flutamide-metformin polytherapy. <i>PLoS ONE</i> , <b>2011</b> , 6, e29052	3.7	34
53	Detection of non-covalent protein interactions by intensity fading MALDI-TOF mass spectrometry: applications to proteases and protease inhibitors. <i>Nature Protocols</i> , <b>2007</b> , 2, 119-30	18.8	30
52	Identification of protein ligands in complex biological samples using intensity-fading MALDI-TOF mass spectrometry. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3385-95	7.8	29

51	Detection of noncovalent complexes in biological samples by intensity fading and high-mass detection MALDI-TOF mass spectrometry. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2711-9	5.6	27
50	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> , <b>2005</b> , 4, 1602-13	7.6	27
49	FELLA: an R package to enrich metabolomics data. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 538	3.6	25
48	Untargeted metabolomics identifies a plasma sphingolipid-related signature associated with lifestyle intervention in prepubertal children with obesity. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 72-78	5.5	24
47	Metabolomics reveals novel blood plasma biomarkers associated to the BRCA1-mutated phenotype of human breast cancer. <i>Scientific Reports</i> , <b>2017</b> , 7, 17831	4.9	24
46	Proteomic profiling of a snake venom using high mass detection MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 600-6	3.5	24
45	rMSI: an R package for MS imaging data handling and visualization. <i>Bioinformatics</i> , <b>2017</b> , 33, 2427-2428	7.2	23
44	Silicon-Based Laser Desorption Ionization Mass Spectrometry for the Analysis of Biomolecules: A Progress Report. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903609	15.6	23
43	Redundant roles of the phosphatidate phosphatase family in triacylglycerol synthesis in human adipocytes. <i>Diabetologia</i> , <b>2016</b> , 59, 1985-94	10.3	22
42	Essentiality of fatty acid synthase in the 2D to anchorage-independent growth transition in transforming cells. <i>Nature Communications</i> , <b>2019</b> , 10, 5011	17.4	22
41	EXD2 governs germ stem cell homeostasis and lifespan by promoting mitoribosome integrity and translation. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 162-174	23.4	20
40	Proteome of the bacterium <i>Mycoplasma penetrans</i> . <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 688-94	5.6	20
39	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> , <b>2007</b> , 18, 359-67	3.5	19
38	Novel automated workflow for spectral alignment and mass calibration in MS imaging using a sputtered Ag nanolayer. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1022, 61-69	6.6	18
37	Lipoprotein hydrophobic core lipids are partially extruded to surface in smaller HDL: "Herniated" HDL, a common feature in diabetes. <i>Scientific Reports</i> , <b>2016</b> , 6, 19249	4.9	18
36	Assessing the potential of sputtered gold nanolayers in mass spectrometry imaging for metabolomics applications. <i>PLoS ONE</i> , <b>2018</b> , 13, e0208908	3.7	17
35	CD98hc (SLC3A2) sustains amino acid and nucleotide availability for cell cycle progression. <i>Scientific Reports</i> , <b>2019</b> , 9, 14065	4.9	16
34	Dysfunctional LAT2 Amino Acid Transporter Is Associated With Cataract in Mouse and Humans. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 688	4.6	16

33	Null diffusion-based enrichment for metabolomics data. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189012	3.7	16
32	Epigenetic programming at the Mogat1 locus may link neonatal overnutrition with long-term hepatic steatosis and insulin resistance. <i>FASEB Journal</i> , <b>2018</b> , 32, fj201700717RR	0.9	16
31	Fatty acid binding protein 4 (FABP4) as a potential biomarker reflecting myocardial lipid storage in type 2 diabetes. <i>Metabolism: Clinical and Experimental</i> , <b>2019</b> , 96, 12-21	12.7	15
30	Adaptation to HIF1 Deletion in Hypoxic Cancer Cells by Upregulation of GLUT14 and Creatine Metabolism. <i>Molecular Cancer Research</i> , <b>2019</b> , 17, 1531-1544	6.6	14
29	Lifestyle Intervention Decreases Urine Trimethylamine N-Oxide Levels in Prepubertal Children with Obesity. <i>Obesity</i> , <b>2018</b> , 26, 1603-1610	8	14
28	Tumors defective in homologous recombination rely on oxidative metabolism: relevance to treatments with PARP inhibitors. <i>EMBO Molecular Medicine</i> , <b>2020</b> , 12, e11217	12	13
27	Environmental arginine controls multinuclear giant cell metabolism and formation. <i>Nature Communications</i> , <b>2020</b> , 11, 431	17.4	13
26	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional H-NMR Approach for C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3531-3535	16.4	12
25	rMSIproc: an R package for mass spectrometry imaging data processing. <i>Bioinformatics</i> , <b>2020</b> , 36, 3618-3619	36.19	10
24	Metabolomics reveals impaired maturation of HDL particles in adolescents with hyperinsulinaemic androgen excess. <i>Scientific Reports</i> , <b>2015</b> , 5, 11496	4.9	10
23	Endogenous Retroelement Activation by Epigenetic Therapy Reverses the Warburg Effect and Elicits Mitochondrial-Mediated Cancer Cell Death. <i>Cancer Discovery</i> , <b>2021</b> , 11, 1268-1285	24.4	10
22	Intensity-fading MALDI-TOF-MS: novel screening for ligand binding and drug discovery. <i>Drug Discovery Today: TARGETS</i> , <b>2004</b> , 3, 23-30		9
21	Nucleotide depletion reveals the impaired ribosome biogenesis checkpoint as a barrier against DNA damage. <i>EMBO Journal</i> , <b>2020</b> , 39, e103838	13	9
20	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. <i>JCI Insight</i> , <b>2019</b> , 5,	9.9	8
19	Activation of glycogenolysis and glycolysis in breast cancer stem cell models. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165886	6.9	7
18	Integrative analysis reveals novel pathways mediating the interaction between adipose tissue and pancreatic islets in obesity in rats. <i>Diabetologia</i> , <b>2014</b> , 57, 1219-31	10.3	6
17	Untargeted lipidomics uncovers lipid signatures that distinguish severe from moderate forms of acutely decompensated cirrhosis. <i>Journal of Hepatology</i> , <b>2021</b> , 75, 1116-1127	13.4	5
16	Crosstalk between Drp1 phosphorylation sites during mitochondrial remodeling and their impact on metabolic adaptation. <i>Cell Reports</i> , <b>2021</b> , 36, 109565	10.6	5

15	Plasma glucose, triglycerides, VLDL, leptin and resistin levels as potential biomarkers for myocardial fat in mice. <i>Clinica E Investigaci3n En Arteriosclerosis</i> , <b>2020</b> , 32, 8-14	1.4	4
14	Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	4
13	Sample preparation methods for LC-MS-based global aqueous metabolite profiling. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1198, 75-80	1.4	3
12	HERMES: a molecular-formula-oriented method to target the metabolome. <i>Nature Methods</i> , <b>2021</b> , 18, 1370-1376	21.6	3
11	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> , <b>2021</b> , 93, 1242-1248	7.8	3
10	Metabolite discovery: Biochemistry's scientific driver.. <i>Cell Metabolism</i> , <b>2022</b> , 34, 21-34	24.6	2
9	Innentitelbild: Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional 1H-NMR Approach for 13C Stable Isotope Tracer Studies in Metabolomics (Angew. Chem. 13/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3446-3446	3.6	1
8	Positional Enrichment by Proton Analysis (PEPA): A One-Dimensional 1H-NMR Approach for 13C Stable Isotope Tracer Studies in Metabolomics. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3585-3589	3.6	1
7	Plasma Metabolomic Profiling Associates Bicuspid Aortic Valve Disease and Ascending Aortic Dilation with a Decrease in Antioxidant Capacity. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	1
6	Serum metabolic biomarkers for synucleinopathy conversion in isolated REM sleep behavior disorder. <i>Npj Parkinson's Disease</i> , <b>2021</b> , 7, 40	9.7	1
5	Identification of metabolic changes leading to cancer susceptibility in Fanconi anemia cells. <i>Cancer Letters</i> , <b>2021</b> , 503, 185-196	9.9	1
4	Histamine signaling and metabolism identify potential biomarkers and therapies for lymphangioleiomyomatosis. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13929	12	0
3	Plasma glucose, triglycerides, VLDL, leptin and resistin levels as potential biomarkers for myocardial fat in mice. <i>Clinica E Investigaci3n En Arteriosclerosis (English Edition)</i> , <b>2020</b> , 32, 8-14	0.3	
2	MAPI: A Server for Improving Protein Identification from a Four Matrices Mass Spectrometry Approach. <i>Current Proteomics</i> , <b>2010</b> , 7, 102-107	0.7	
1	Analysis of Protein-Protein Interactions in Complex Biological Samples by MALDI TOF MS. Feasibility and Use of the Intensity-Fading (IF-) Approach. <i>Principles and Practice</i> , <b>2004</b> , 183-202		