

# Iola F Duarte

## List of Publications by Year in descending order

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104  
papers

4,310  
citations

87888

38  
h-index

114465

63  
g-index

105  
all docs

105  
docs citations

105  
times ranked

5998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Urine. <i>Journal of Proteome Research</i> , 2011, 10, 221-230.	3.7	205
2	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Blood Plasma. <i>Journal of Proteome Research</i> , 2011, 10, 4314-4324.	3.7	154
3	High-Resolution Nuclear Magnetic Resonance Spectroscopy and Multivariate Analysis for the Characterization of Beer. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 2475-2481.	5.2	144
4	Metabolic Biomarkers of Prenatal Disorders: An Exploratory NMR Metabonomics Study of Second Trimester Maternal Urine and Blood Plasma. <i>Journal of Proteome Research</i> , 2011, 10, 3732-3742.	3.7	144
5	Study of the Compositional Changes of Mango during Ripening by Use of Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 1524-1536.	5.2	140
6	Metabolic Profiling of Human Lung Cancer Tissue by <sup>1</sup> H High Resolution Magic Angle Spinning (HRMAS) NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2010, 9, 319-332.	3.7	136
7	Biocellulose Membranes as Supports for Dermal Release of Lidocaine. <i>Biomacromolecules</i> , 2011, 12, 4162-4168.	5.4	129
8	Metabolic crosstalk in the breast cancer microenvironment. <i>European Journal of Cancer</i> , 2019, 121, 154-171.	2.8	128
9	Multivariate Analysis of NMR and FTIR Data as a Potential Tool for the Quality Control of Beer. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 1031-1038.	5.2	126
10	High-Resolution NMR and Diffusion-Ordered Spectroscopy of Port Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 3736-3743.	5.2	114
11	Metabolic Assessment of Human Liver Transplants from Biopsy Samples at the Donor and Recipient Stages Using High-Resolution Magic Angle Spinning <sup>1</sup> H NMR Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 5570-5578.	6.5	102
12	Application of FTIR Spectroscopy for the Quantification of Sugars in Mango Juice as a Function of Ripening. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 3104-3111.	5.2	97
13	Impact of Prenatal Disorders on the Metabolic Profile of Second Trimester Amniotic Fluid: A Nuclear Magnetic Resonance Metabonomic Study. <i>Journal of Proteome Research</i> , 2010, 9, 6016-6024.	3.7	94
14	UPLC-MS metabolic profiling of second trimester amniotic fluid and maternal urine and comparison with NMR spectral profiling for the identification of pregnancy disorder biomarkers. <i>Molecular BioSystems</i> , 2012, 8, 1243.	2.9	94
15	NMR metabolomics of human blood and urine in disease research. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 93, 17-26.	2.8	94
16	Characterization of the aromatic composition of some liquid foods by nuclear magnetic resonance spectrometry and liquid chromatography with nuclear magnetic resonance and mass spectrometric detection. <i>Analytica Chimica Acta</i> , 2003, 488, 35-51.	5.4	93
17	Composition of Beer by <sup>1</sup> H NMR Spectroscopy: Effects of Brewing Site and Date of Production. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 700-706.	5.2	88
18	Metabolomics of silver nanoparticles toxicity in HaCaT cells: structure-activity relationships and role of ionic silver and oxidative stress. <i>Nanotoxicology</i> , 2016, 10, 1105-1117.	3.0	83

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19	Targeting Tumor Metabolism with Plant-Derived Natural Products: Emerging Trends in Cancer Therapy. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10663-10685.	5.2	77
20	NMR metabolomics of human lung tumours reveals distinct metabolic signatures for adenocarcinoma and squamous cell carcinoma. <i>Carcinogenesis</i> , 2015, 36, 68-75.	2.8	75
21	Exploring the human urine metabolomic potentialities by comprehensive two-dimensional gas chromatography coupled to time of flight mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1252, 155-163.	3.7	71
22	Second Trimester Maternal Urine for the Diagnosis of Trisomy 21 and Prediction of Poor Pregnancy Outcomes. <i>Journal of Proteome Research</i> , 2013, 12, 2946-2957.	3.7	68
23	The influence of Citrate or PEG coating on silver nanoparticle toxicity to a human keratinocyte cell line. <i>Toxicology Letters</i> , 2016, 249, 29-41.	0.8	68
24	Application of NMR Spectroscopy and LC-NMR/MS to the Identification of Carbohydrates in Beer. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4847-4852.	5.2	63
25	Urinary metabolomic changes as a predictive biomarker of asthma exacerbation. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 261-263.e5.	2.9	63
26	<sup>1</sup> H NMR Based Metabonomics of Human Amniotic Fluid for the Metabolic Characterization of Fetus Malformations. <i>Journal of Proteome Research</i> , 2009, 8, 4144-4150.	3.7	62
27	Analytical Approaches toward Successful Human Cell Metabolome Studies by NMR Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 5023-5032.	6.5	61
28	Sorghum fermentation followed by spectroscopic techniques. <i>Food Chemistry</i> , 2005, 90, 853-859.	8.2	57
29	Metabolic signatures of cancer unveiled by NMR spectroscopy of human biofluids. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2012, 62, 51-74.	7.5	54
30	Changes in the metabolome of lettuce leaves due to exposure to mancozeb pesticide. <i>Food Chemistry</i> , 2014, 154, 291-298.	8.2	54
31	Identification of metabolites in human hepatic bile using 800 MHz <sup>1</sup> H NMR spectroscopy, HPLC-NMR/MS and UPLC-MS. <i>Molecular BioSystems</i> , 2009, 5, 180-190.	2.9	53
32	Metabolic Reprogramming of Macrophages Exposed to Silk, Poly(lactic acid-glycolic acid), and Silica Nanoparticles. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601240.	7.6	51
33	Following Healthy Pregnancy by Nuclear Magnetic Resonance (NMR) Metabolic Profiling of Human Urine. <i>Journal of Proteome Research</i> , 2013, 12, 969-979.	3.7	50
34	Insights into the impact of silver nanoparticles on human keratinocytes metabolism through NMR metabolomics. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 53-61.	3.0	49
35	From the Cover: Metabolism Modulation in Different Organs by Silver Nanoparticles: An NMR Metabolomics Study of a Mouse Model. <i>Toxicological Sciences</i> , 2017, 159, 422-435.	3.1	48
36	Metabolite Profiling of Human Amniotic Fluid by Hyphenated Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2008, 80, 6085-6092.	6.5	46

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37	Assessment of Human Health Risks Posed by Nano-and Microplastics Is Currently Not Feasible. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8832.	2.6	45
38	Exploratory applications of diffusion ordered spectroscopy to liquid foods: an aid towards spectral assignment. <i>Analytica Chimica Acta</i> , 2004, 506, 215-223.	5.4	39
39	Nuclear Magnetic Resonance (NMR) Study of the Effect of Cisplatin on the Metabolic Profile of MG-63 Osteosarcoma Cells. <i>Journal of Proteome Research</i> , 2010, 9, 5877-5886.	3.7	39
40	Potential Markers of Cisplatin Treatment Response Unveiled by NMR Metabolomics of Human Lung Cells. <i>Molecular Pharmaceutics</i> , 2013, 10, 4242-4251.	4.6	39
41	Performance of tetraalkylammonium-based ionic liquids as constituents of aqueous biphasic systems in the extraction of ovalbumin and lysozyme. <i>Separation and Purification Technology</i> , 2020, 233, 116019.	7.9	39
42	PEGylation-Dependent Metabolic Rewiring of Macrophages with Silk Fibroin Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14515-14525.	8.0	38
43	Flavonoid-mediated immunomodulation of human macrophages involves key metabolites and metabolic pathways. <i>Scientific Reports</i> , 2019, 9, 14906.	3.3	36
44	Potential of NMR Spectroscopy for the Study of Human Amniotic Fluid. <i>Analytical Chemistry</i> , 2007, 79, 8367-8375.	6.5	35
45	Following dynamic biological processes through NMR-based metabolomics: A new tool in nanomedicine?. <i>Journal of Controlled Release</i> , 2011, 153, 34-39.	9.9	35
46	Metabolic characterisation of plasma in juveniles with glycogen storage disease type 1a (GSD1a) by high-resolution <sup>1</sup> H NMR spectroscopy. <i>NMR in Biomedicine</i> , 2007, 20, 401-412.	2.8	34
47	Can nuclear magnetic resonance (NMR) spectroscopy reveal different metabolic signatures for lung tumours?. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2010, 457, 715-725.	2.8	34
48	Metabolic Markers of MG-63 Osteosarcoma Cell Line Response to Doxorubicin and Methotrexate Treatment: Comparison to Cisplatin. <i>Journal of Proteome Research</i> , 2014, 13, 6033-6045.	3.7	33
49	Metabolic profiling of biofluids: potential in lung cancer screening and diagnosis. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 737-748.	3.1	32
50	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110709.	5.0	30
51	Characterization of Mango Juice by High-Resolution NMR, Hyphenated NMR, and Diffusion-Ordered Spectroscopy. <i>Spectroscopy Letters</i> , 2005, 38, 319-342.	1.0	29
52	Mid-infrared (MIR) metabolic fingerprinting of amniotic fluid: A possible avenue for early diagnosis of prenatal disorders?. <i>Analytica Chimica Acta</i> , 2013, 764, 24-31.	5.4	26
53	Genotoxicity of citrate-coated silver nanoparticles to human keratinocytes assessed by the comet assay and cytokinesis blocked micronucleus assay. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5039-5048.	5.3	25
54	Organotypic 3D decellularized matrix tumor spheroids for high-throughput drug screening. <i>Biomaterials</i> , 2021, 275, 120983.	11.4	25

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55	Impact of the Pd <sup>2+</sup> Spermine Chelate on Osteosarcoma Metabolism: An NMR Metabolomics Study. <i>Journal of Proteome Research</i> , 2017, 16, 1773-1783.	3.7	23
56	PM2.5 chemical composition and health risks by inhalation near a chemical complex. <i>Journal of Environmental Sciences</i> , 2023, 124, 860-874.	6.1	22
57	Study of natural mango juice spoilage and microbial contamination with <i>Penicillium expansum</i> by high resolution 1H NMR spectroscopy. <i>Food Chemistry</i> , 2006, 96, 313-324.	8.2	21
58	A Contribution to the Harmonization of Non-targeted NMR Methods for Data-Driven Food Authenticity Assessment. <i>Food Analytical Methods</i> , 2020, 13, 530-541.	2.6	21
59	Metabolic Profiling of Liver from Hypercholesterolemic Pigs Fed Rye or Wheat Fiber and from Normal Pigs. High-Resolution Magic Angle Spinning 1H NMR Spectroscopic Study. <i>Analytical Chemistry</i> , 2007, 79, 168-175.	6.5	20
60	NMR Metabolomics Reveals Metabolism-Mediated Protective Effects in Liver (HepG2) Cells Exposed to Subtoxic Levels of Silver Nanoparticles. <i>Journal of Proteome Research</i> , 2018, 17, 1636-1646.	3.7	20
61	Different responses of young and expanded lettuce leaves to fungicide Mancozeb: chlorophyll fluorescence, lipid peroxidation, pigments and proline content. <i>Photosynthetica</i> , 2014, 52, 148-151.	1.7	19
62	Coating independent cytotoxicity of citrate- and PEG-coated silver nanoparticles on a human hepatoma cell line. <i>Journal of Environmental Sciences</i> , 2017, 51, 191-201.	6.1	18
63	Silk Hydrogel Substrate Stress Relaxation Primes Mesenchymal Stem Cell Behavior in 2D. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30420-30433.	8.0	18
64	Cellulose Nanocrystals/Chitosan-Based Nanosystems: Synthesis, Characterization, and Cellular Uptake on Breast Cancer Cells. <i>Nanomaterials</i> , 2021, 11, 2057.	4.1	18
65	NMR metabolomics of renal cancer: an overview. <i>Bioanalysis</i> , 2015, 7, 2361-2374.	1.5	17
66	Targeting PCSK9: a promising adjuvant strategy in cancer immunotherapy. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 111.	17.1	16
67	Stratified 3D Microtumors as Organotypic Testing Platforms for Screening Pancreatic Cancer Therapies. <i>Small Methods</i> , 2021, 5, e2001207.	8.6	15
68	NMR metabonomics for mammalian cell metabolism studies. <i>Bioanalysis</i> , 2009, 1, 1597-1614.	1.5	13
69	Remodeling of liver phospholipidomic profile in streptozotocin-induced diabetic rats. <i>Archives of Biochemistry and Biophysics</i> , 2013, 538, 95-102.	3.0	13
70	Biodistribution and pulmonary metabolic effects of silver nanoparticles in mice following acute intratracheal instillations. <i>Environmental Science and Pollution Research</i> , 2021, 28, 2301-2314.	5.3	12
71	Natural Compounds as Metabolic Modulators of the Tumor Microenvironment. <i>Molecules</i> , 2021, 26, 3494.	3.8	12
72	Can Biofluids Metabolic Profiling Help to Improve Healthcare during Pregnancy?. <i>Spectroscopy</i> , 2012, 27, 515-523.	0.8	10

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73	Inflammatory responses of a human keratinocyte cell line to 10Ânm citrate- and PEG-coated silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	10
74	Metabolic responses of the isopod <i>Porcellionides pruinosus</i> to nickel exposure assessed by 1H NMR metabolomics. <i>Journal of Proteomics</i> , 2016, 137, 59-67.	2.4	10
75	Metabolomic response of osteosarcoma cells to nanographene oxide-mediated hyperthermia. <i>Materials Science and Engineering C</i> , 2018, 91, 340-348.	7.3	10
76	Oddâ€Even Effect in the Formation and Extraction Performance of Ionic-Liquid-Based Aqueous Biphasic Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 8323-8331.	3.7	10
77	<i>Aspergillus fumigatus</i> Acetate Utilization Impacts Virulence Traits and Pathogenicity. <i>MBio</i> , 2021, 12, e0168221.	4.1	10
78	Triple Negative Breast Cancer and Breast Epithelial Cells Differentially Reprogram Glucose and Lipid Metabolism upon Treatment with Triterpenic Acids. <i>Biomolecules</i> , 2020, 10, 1163.	4.0	9
79	A study of the effects of citrate-coated silver nanoparticles on RAW 264.7 cells using a toolbox of cytotoxic endpoints. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	8
80	Differential Modulation of the Phospholipidome of Proinflammatory Human Macrophages by the Flavonoids Quercetin, Naringin and Naringenin. <i>Molecules</i> , 2020, 25, 3460.	3.8	7
81	In-Depth Analysis of the Impact of Different Serum-Free Media on the Production of Clinical Grade Dendritic Cells for Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2020, 11, 593363.	4.8	7
82	Antimicrobial Properties andÂTherapeutic Applications of Silver Nanoparticles andÂNanocomposites. , 2017, , 223-259.		6
83	Chronic exercise training attenuates prostate cancer-induced molecular remodelling in the testis. <i>Cellular Oncology (Dordrecht)</i> , 2021, 44, 311-327.	4.4	6
84	Endo- and Exometabolome Crosstalk in Mesenchymal Stem Cells Undergoing Osteogenic Differentiation. <i>Cells</i> , 2022, 11, 1257.	4.1	6
85	Macrophage-targeted shikonin-loaded nanogels for modulation of inflammasome activation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 42, 102548.	3.3	6
86	HIF-1Î± inhibition by diethylstilbestrol and its polyacetal conjugate in hypoxic prostate tumour cells: insights from NMR metabolomics. <i>Journal of Drug Targeting</i> , 2017, 25, 845-855.	4.4	5
87	Macrophage Metabolomics Reveals Differential Metabolic Responses to Subtoxic Levels of Silver Nanoparticles and Ionic Silver. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1867-1876.	2.0	5
88	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopesâ€7. <i>Molecules</i> , 2020, 25, 2968.	3.8	5
89	Metabolic Effects of a <i>Eucalyptus</i> Bark Lipophilic Extract on Triple Negative Breast Cancer and Nontumor Breast Epithelial Cells. <i>Journal of Proteome Research</i> , 2021, 20, 565-575.	3.7	5
90	Comparative Metabolomics Study of the Impact of Articaine and Lidocaine on the Metabolism of SH-SY5Y Neuronal Cells. <i>Metabolites</i> , 2022, 12, 581.	2.9	5

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91	An NMR study of the biochemistry of mango: The effects of ripening, processing and microbial growth. Special Publication - Royal Society of Chemistry, 0, , 259-266.	0.0	4
92	High-Resolution Magic Angle Spinning NMR Spectroscopy of Fruits and Vegetables. , 2008, , 1765-1768.		3
93	High-Resolution Nuclear Magnetic Resonance Spectroscopy of Fruit Juices. , 2008, , 1617-1621.		3
94	High-Resolution Nuclear Magnetic Resonance Spectroscopy of Wine, Beer, and Spirits. , 2008, , 1689-1694.		3
95	<sup>1</sup> H NMR Profiling of Honey Bee Bodies Revealed Metabolic Differences between Summer and Winter Bees. Insects, 2022, 13, 193.	2.2	3
96	Application of NMR and hyphenated NMR spectroscopy for the study of beer components. Special Publication - Royal Society of Chemistry, 0, , 151-158.	0.0	2
97	Development of a novel dendritic cell-based immunotherapy targeting cancer stem cells.. Journal of Clinical Oncology, 2019, 37, e14009-e14009.	1.6	2
98	Ionic Liquids in Bioseparation Processes. Advances in Biochemical Engineering/Biotechnology, 2018, 168, 1-29.	1.1	1
99	Role of Isoprenoid Compounds on Angiogenic Regulation: Opportunities and Challenges. Current Medicinal Chemistry, 2016, 23, 911-928.	2.4	1
100	NMR metabonomic study of lung cancer: metabolic profiling of tissues. BMC Proceedings, 2010, 4, .	1.6	0
101	Metabolic response of human keratinocytes to silver nanoparticles: A metabolomics study. Toxicology Letters, 2013, 221, S242-S243.	0.8	0
102	Microscopic Studies of Liver and Kidney in Mice Exposed to Silver Nanoparticles. Microscopy and Microanalysis, 2016, 22, 18-19.	0.4	0
103	Metabolomics in Biomaterial Research. , 2019, , 432-442.		0
104	Designed for Dentistry, Articaine in NLC Improves Anaesthesia at Inflamed Tissues. , 0, , .		0