

# 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	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
2	<sup>1</sup> H NMR Profiling of Honey Bee Bodies Revealed Metabolic Differences between Summer and Winter Bees. <i>Insects</i> , 2022, 13, 193.	2.2	3
3	Endo- and Exometabolome Crosstalk in Mesenchymal Stem Cells Undergoing Osteogenic Differentiation. <i>Cells</i> , 2022, 11, 1257.	4.1	6
4	Macrophage-targeted shikonin-loaded nanogels for modulation of inflammasome activation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 42, 102548.	3.3	6
5	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
6	Chronic exercise training attenuates prostate cancer-induced molecular remodelling in the testis. <i>Cellular Oncology (Dordrecht)</i> , 2021, 44, 311-327.	4.4	6
7	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
8	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
9	Stratified 3D Microtumors as Organotypic Testing Platforms for Screening Pancreatic Cancer Therapies. <i>Small Methods</i> , 2021, 5, e2001207.	8.6	15
10	Targeting PCSK9: a promising adjuvant strategy in cancer immunotherapy. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 111.	17.1	16
11	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
12	Natural Compounds as Metabolic Modulators of the Tumor Microenvironment. <i>Molecules</i> , 2021, 26, 3494.	3.8	12
13	Cellulose Nanocrystals/Chitosan-Based Nanosystems: Synthesis, Characterization, and Cellular Uptake on Breast Cancer Cells. <i>Nanomaterials</i> , 2021, 11, 2057.	4.1	18
14	<i>Aspergillus fumigatus</i> Acetate Utilization Impacts Virulence Traits and Pathogenicity. <i>MBio</i> , 2021, 12, e0168221.	4.1	10
15	Organotypic 3D decellularized matrix tumor spheroids for high-throughput drug screening. <i>Biomaterials</i> , 2021, 275, 120983.	11.4	25
16	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
17	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
18	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

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19	Assessment of Human Health Risks Posed by Nano-and Microplastics Is Currently Not Feasible. International Journal of Environmental Research and Public Health, 2020, 17, 8832.	2.6	45
20	Differential Modulation of the Phospholipidome of Proinflammatory Human Macrophages by the Flavonoids Quercetin, Naringin and Naringenin. Molecules, 2020, 25, 3460.	3.8	7
21	Triple Negative Breast Cancer and Breast Epithelial Cells Differentially Reprogram Glucose and Lipid Metabolism upon Treatment with Triterpenic Acids. Biomolecules, 2020, 10, 1163.	4.0	9
22	Macrophage Metabolomics Reveals Differential Metabolic Responses to Subtoxic Levels of Silver Nanoparticles and Ionic Silver. European Journal of Inorganic Chemistry, 2020, 2020, 1867-1876.	2.0	5
23	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopes. Molecules, 2020, 25, 2968.	3.8	5
24	In-Depth Analysis of the Impact of Different Serum-Free Media on the Production of Clinical Grade Dendritic Cells for Cancer Immunotherapy. Frontiers in Immunology, 2020, 11, 593363.	4.8	7
25	Flavonoid-mediated immunomodulation of human macrophages involves key metabolites and metabolic pathways. Scientific Reports, 2019, 9, 14906.	3.3	36
26	Metabolic crosstalk in the breast cancer microenvironment. European Journal of Cancer, 2019, 121, 154-171.	2.8	128
27	Odd-Even Effect in the Formation and Extraction Performance of Ionic-Liquid-Based Aqueous Biphasic Systems. Industrial & Engineering Chemistry Research, 2019, 58, 8323-8331.	3.7	10
28	PEGylation-Dependent Metabolic Rewiring of Macrophages with Silk Fibroin Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 14515-14525.	8.0	38
29	Metabolomics in Biomaterial Research. , 2019, , 432-442.		0
30	Development of a novel dendritic cell-based immunotherapy targeting cancer stem cells.. Journal of Clinical Oncology, 2019, 37, e14009-e14009.	1.6	2
31	NMR Metabolomics Reveals Metabolism-Mediated Protective Effects in Liver (HepG2) Cells Exposed to Subtoxic Levels of Silver Nanoparticles. Journal of Proteome Research, 2018, 17, 1636-1646.	3.7	20
32	Targeting Tumor Metabolism with Plant-Derived Natural Products: Emerging Trends in Cancer Therapy. Journal of Agricultural and Food Chemistry, 2018, 66, 10663-10685.	5.2	77
33	Metabolomic response of osteosarcoma cells to nanographene oxide-mediated hyperthermia. Materials Science and Engineering C, 2018, 91, 340-348.	7.3	10
34	Ionic Liquids in Bioseparation Processes. Advances in Biochemical Engineering/Biotechnology, 2018, 168, 1-29.	1.1	1
35	Impact of the Pd <sub>2</sub> Spermine Chelate on Osteosarcoma Metabolism: An NMR Metabolomics Study. Journal of Proteome Research, 2017, 16, 1773-1783.	3.7	23
36	Metabolic Reprogramming of Macrophages Exposed to Silk, Poly(lactic acid-glycolic acid), and Silica Nanoparticles. Advanced Healthcare Materials, 2017, 6, 1601240.	7.6	51

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37	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
38	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
39	Antimicrobial Properties and Therapeutic Applications of Silver Nanoparticles and Nanocomposites. , 2017, , 223-259.		6
40	HIF-1 $\alpha$ 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
41	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
42	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
43	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
44	Microscopic Studies of Liver and Kidney in Mice Exposed to Silver Nanoparticles. <i>Microscopy and Microanalysis</i> , 2016, 22, 18-19.	0.4	0
45	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
46	Inflammatory responses of a human keratinocyte cell line to 10 nm citrate- and PEG-coated silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	10
47	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
48	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
49	Role of Isoprenoid Compounds on Angiogenic Regulation: Opportunities and Challenges. <i>Current Medicinal Chemistry</i> , 2016, 23, 911-928.	2.4	1
50	NMR metabolomics of renal cancer: an overview. <i>Bioanalysis</i> , 2015, 7, 2361-2374.	1.5	17
51	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
52	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
53	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
54	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

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55	Changes in the metabolome of lettuce leaves due to exposure to mancozeb pesticide. Food Chemistry, 2014, 154, 291-298.	8.2	54
56	Metabolic Markers of MG-63 Osteosarcoma Cell Line Response to Doxorubicin and Methotrexate Treatment: Comparison to Cisplatin. Journal of Proteome Research, 2014, 13, 6033-6045.	3.7	33
57	Metabolic profiling of biofluids: potential in lung cancer screening and diagnosis. Expert Review of Molecular Diagnostics, 2013, 13, 737-748.	3.1	32
58	Potential Markers of Cisplatin Treatment Response Unveiled by NMR Metabolomics of Human Lung Cells. Molecular Pharmaceutics, 2013, 10, 4242-4251.	4.6	39
59	Following Healthy Pregnancy by Nuclear Magnetic Resonance (NMR) Metabolic Profiling of Human Urine. Journal of Proteome Research, 2013, 12, 969-979.	3.7	50
60	Mid-infrared (MIR) metabolic fingerprinting of amniotic fluid: A possible avenue for early diagnosis of prenatal disorders?. Analytica Chimica Acta, 2013, 764, 24-31.	5.4	26
61	Remodeling of liver phospholipidomic profile in streptozotocin-induced diabetic rats. Archives of Biochemistry and Biophysics, 2013, 538, 95-102.	3.0	13
62	Metabolic response of human keratinocytes to silver nanoparticles: A metabolomics study. Toxicology Letters, 2013, 221, S242-S243.	0.8	0
63	Second Trimester Maternal Urine for the Diagnosis of Trisomy 21 and Prediction of Poor Pregnancy Outcomes. Journal of Proteome Research, 2013, 12, 2946-2957.	3.7	68
64	Exploring the human urine metabolomic potentialities by comprehensive two-dimensional gas chromatography coupled to time of flight mass spectrometry. Journal of Chromatography A, 2012, 1252, 155-163.	3.7	71
65	Can Biofluids Metabolic Profiling Help to Improve Healthcare during Pregnancy?. Spectroscopy, 2012, 27, 515-523.	0.8	10
66	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. Molecular BioSystems, 2012, 8, 1243.	2.9	94
67	Metabolic signatures of cancer unveiled by NMR spectroscopy of human biofluids. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 62, 51-74.	7.5	54
68	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Urine. Journal of Proteome Research, 2011, 10, 221-230.	3.7	205
69	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Blood Plasma. Journal of Proteome Research, 2011, 10, 4314-4324.	3.7	154
70	Metabolic Biomarkers of Prenatal Disorders: An Exploratory NMR Metabonomics Study of Second Trimester Maternal Urine and Blood Plasma. Journal of Proteome Research, 2011, 10, 3732-3742.	3.7	144
71	Biocellulose Membranes as Supports for Dermal Release of Lidocaine. Biomacromolecules, 2011, 12, 4162-4168.	5.4	129
72	Following dynamic biological processes through NMR-based metabonomics: A new tool in nanomedicine?. Journal of Controlled Release, 2011, 153, 34-39.	9.9	35

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73	NMR metabonomic study of lung cancer: metabolic profiling of tissues. BMC Proceedings, 2010, 4, .	1.6	0
74	Can nuclear magnetic resonance (NMR) spectroscopy reveal different metabolic signatures for lung tumours?. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2010, 457, 715-725.	2.8	34
75	Metabolic Profiling of Human Lung Cancer Tissue by 1H High Resolution Magic Angle Spinning (HRMAS) NMR Spectroscopy. Journal of Proteome Research, 2010, 9, 319-332.	3.7	136
76	Nuclear Magnetic Resonance (NMR) Study of the Effect of Cisplatin on the Metabolic Profile of MG-63 Osteosarcoma Cells. Journal of Proteome Research, 2010, 9, 5877-5886.	3.7	39
77	Impact of Prenatal Disorders on the Metabolic Profile of Second Trimester Amniotic Fluid: A Nuclear Magnetic Resonance Metabonomic Study. Journal of Proteome Research, 2010, 9, 6016-6024.	3.7	94
78	Identification of metabolites in human hepatic bile using 800 MHz 1H NMR spectroscopy , HPLC-NMR/MS and UPLC-MS. Molecular BioSystems, 2009, 5, 180-190.	2.9	53
79	<sup>1</sup> H NMR Based Metabonomics of Human Amniotic Fluid for the Metabolic Characterization of Fetus Malformations. Journal of Proteome Research, 2009, 8, 4144-4150.	3.7	62
80	NMR metabonomics for mammalian cell metabolism studies. Bioanalysis, 2009, 1, 1597-1614.	1.5	13
81	Analytical Approaches toward Successful Human Cell Metabolome Studies by NMR Spectroscopy. Analytical Chemistry, 2009, 81, 5023-5032.	6.5	61
82	High-Resolution Magic Angle Spinning NMR Spectroscopy of Fruits and Vegetables. , 2008, , 1765-1768.		3
83	High-Resolution Nuclear Magnetic Resonance Spectroscopy of Fruit Juices. , 2008, , 1617-1621.		3
84	High-Resolution Nuclear Magnetic Resonance Spectroscopy of Wine, Beer, and Spirits. , 2008, , 1689-1694.		3
85	Metabolite Profiling of Human Amniotic Fluid by Hyphenated Nuclear Magnetic Resonance Spectroscopy. Analytical Chemistry, 2008, 80, 6085-6092.	6.5	46
86	Potential of NMR Spectroscopy for the Study of Human Amniotic Fluid. Analytical Chemistry, 2007, 79, 8367-8375.	6.5	35
87	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. Analytical Chemistry, 2007, 79, 168-175.	6.5	20
88	Metabolic characterisation of plasma in juveniles with glycogen storage disease type 1a (GSD1a) by high-resolution 1H NMR spectroscopy. NMR in Biomedicine, 2007, 20, 401-412.	2.8	34
89	Composition of Beer by 1H NMR Spectroscopy: Effects of Brewing Site and Date of Production. Journal of Agricultural and Food Chemistry, 2006, 54, 700-706.	5.2	88
90	Study of natural mango juice spoilage and microbial contamination with Penicillium expansum by high resolution 1H NMR spectroscopy. Food Chemistry, 2006, 96, 313-324.	8.2	21

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91	Sorghum fermentation followed by spectroscopic techniques. Food Chemistry, 2005, 90, 853-859.	8.2	57
92	Characterization of Mango Juice by High-Resolution NMR, Hyphenated NMR, and Diffusion-Ordered Spectroscopy. Spectroscopy Letters, 2005, 38, 319-342.	1.0	29
93	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. Analytical Chemistry, 2005, 77, 5570-5578.	6.5	102
94	Exploratory applications of diffusion ordered spectroscopy to liquid foods: an aid towards spectral assignment. Analytica Chimica Acta, 2004, 506, 215-223.	5.4	39
95	High-Resolution NMR and Diffusion-Ordered Spectroscopy of Port Wine. Journal of Agricultural and Food Chemistry, 2004, 52, 3736-3743.	5.2	114
96	Multivariate Analysis of NMR and FTIR Data as a Potential Tool for the Quality Control of Beer. Journal of Agricultural and Food Chemistry, 2004, 52, 1031-1038.	5.2	126
97	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. Analytica Chimica Acta, 2003, 488, 35-51.	5.4	93
98	Application of NMR Spectroscopy and LC-NMR/MS to the Identification of Carbohydrates in Beer. Journal of Agricultural and Food Chemistry, 2003, 51, 4847-4852.	5.2	63
99	High-Resolution Nuclear Magnetic Resonance Spectroscopy and Multivariate Analysis for the Characterization of Beer. Journal of Agricultural and Food Chemistry, 2002, 50, 2475-2481.	5.2	144
100	Application of FTIR Spectroscopy for the Quantification of Sugars in Mango Juice as a Function of Ripening. Journal of Agricultural and Food Chemistry, 2002, 50, 3104-3111.	5.2	97
101	Study of the Compositional Changes of Mango during Ripening by Use of Nuclear Magnetic Resonance Spectroscopy. Journal of Agricultural and Food Chemistry, 2000, 48, 1524-1536.	5.2	140
102	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
103	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
104	Designed for Dentistry, Articaine in NLC Improves Anaesthesia at Inflamed Tissues. , 0, , .		0