

# Ivana Jarak

## List of Publications by Year in descending order

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67  
papers

1,262  
citations

331259

21  
h-index

395343

33  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inherited Metabolic Memory of High-Fat Diet Impairs Testicular Fatty Acid Content and Sperm Parameters. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2100680.	1.5	12
2	Osteosarcoma from the unknown to the use of exosomes as a versatile and dynamic therapeutic approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 170, 91-111.	2.0	6
3	Exenatide and Dapagliflozin Combination Enhances Sertoli Cell Secretion of Key Metabolites for Spermatogenesis. <i>Biomedicines</i> , 2022, 10, 1115.	1.4	4
4	Where Is Nano Today and Where Is It Headed? A Review of Nanomedicine and the Dilemma of Nanotoxicology. <i>ACS Nano</i> , 2022, 16, 9994-10041.	7.3	62
5	Polymeric and metal nanostructures for bone regeneration and osteomyelitis treatment. , 2022, , 605-644.		0
6	Inheritable testicular metabolic memory of high-fat diet causes transgenerational sperm defects in mice. <i>Scientific Reports</i> , 2021, 11, 9444.	1.6	20
7	Plasmatic Oxidative and Metabonomic Profile of Patients with Different Degrees of Biliary Acute Pancreatitis Severity. <i>Antioxidants</i> , 2021, 10, 988.	2.2	7
8	Unraveling the hepatoprotective effects of blueberries in a hypercaloric diet-induced rat model of prediabetes by metabolomic and transcriptomic approaches. <i>European Journal of Public Health</i> , 2021, 31, .	0.1	0
9	Mitochondrial Regulation Assessment by <sup>13</sup> C-NMR Isotopomer Analysis. <i>Methods in Molecular Biology</i> , 2021, 2310, 259-270.	0.4	0
10	Multifunctional polymeric micelle-based nucleic acid delivery: Current advances and future perspectives. <i>Applied Materials Today</i> , 2021, 25, 101217.	2.3	21
11	Chenodeoxycholic Acid Has Non-Thermogenic, Mitodynamic Anti-Obesity Effects in an In Vitro CRISPR/Cas9 Model of Bile Acid Receptor TGR5 Knockdown. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11738.	1.8	6
12	Synthesis and Characterization of a Novel Nanomicellar System Pluronic-PEI Suitable for Gene and Drug Co-Delivery in Cancer Therapy. <i>Proceedings (mdpi)</i> , 2021, 78, 36.	0.2	0
13	Polymeric Micelles: A Promising Pathway for Dermal Drug Delivery. <i>Materials</i> , 2021, 14, 7278.	1.3	21
14	Blueberry Counteracts Prediabetes in a Hypercaloric Diet-Induced Rat Model and Rescues Hepatic Mitochondrial Bioenergetics. <i>Nutrients</i> , 2021, 13, 4192.	1.7	10
15	Technical-grade chlordane compromises rat Sertoli cells proliferation, viability and metabolic activity. <i>Toxicology in Vitro</i> , 2020, 63, 104673.	1.1	5
16	Gastric Bypass with Different Biliopancreatic Limb Lengths Results in Similar Post-absorptive Metabolomics Profiles. <i>Obesity Surgery</i> , 2020, 30, 1068-1078.	1.1	5
17	Caloric restriction alters the hormonal profile and testicular metabolome, resulting in alterations of sperm head morphology. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E33-E43.	1.8	12
18	Diet during early life defines testicular lipid content and sperm quality in adulthood. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E1061-E1073.	1.8	28

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19	Pluronic-based nanovehicles: Recent advances in anticancer therapeutic applications. <i>European Journal of Medicinal Chemistry</i> , 2020, 206, 112526.	2.6	45
20	Blueberry Consumption Challenges Hepatic Mitochondrial Bioenergetics and Elicits Transcriptomics Reprogramming in Healthy Wistar Rats. <i>Pharmaceutics</i> , 2020, 12, 1094.	2.0	4
21	Different Malabsorptive Obesity Surgery Interventions Result in Distinct Postprandial Amino Acid Metabolomic Signatures. <i>Obesity Surgery</i> , 2020, 30, 4019-4028.	1.1	4
22	The potential of micelleplexes as a therapeutic strategy for osteosarcoma disease. <i>3 Biotech</i> , 2020, 10, 147.	1.1	12
23	Micelleplex-based nucleic acid therapeutics: From targeted stimuli-responsiveness to nanotoxicity and regulation. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 153, 105461.	1.9	15
24	Micelleplexes as nucleic acid delivery systems for cancer-targeted therapies. <i>Journal of Controlled Release</i> , 2020, 323, 442-462.	4.8	41
25	Development and Characterization of a Novel Mixed Polymeric Micelle as a Potential Therapeutic Strategy for Osteosarcoma. <i>Proceedings (mdpi)</i> , 2020, 78, .	0.2	0
26	High-Fat Diet Promotes a Pro-Inflammatory Environment in Testis and Inhibits Antioxidant Defenses in the Progeny. <i>Medical Sciences Forum</i> , 2020, 2, .	0.5	0
27	Sources of hepatic glycogen synthesis in mice fed with glucose or fructose as the sole dietary carbohydrate. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 639-644.	1.9	7
28	IGF2 role in adrenocortical carcinoma biology. <i>Endocrine</i> , 2019, 66, 326-337.	1.1	26
29	Warburg Effect Inversion: Adiposity shifts central primary metabolism in MCF-7 breast cancer cells. <i>Life Sciences</i> , 2019, 223, 38-46.	2.0	20
30	MAPK/ERK pathway inhibition is a promising treatment target for adrenocortical tumors. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 894-906.	1.2	32
31	A switch from high-fat to normal diet does not restore sperm quality but prevents metabolic syndrome. <i>Reproduction</i> , 2019, 158, 377-387.	1.1	40
32	Fractal Approach for <sup>1</sup> H-NMR Spectra Simplification and Data Processing. <i>Applied Magnetic Resonance</i> , 2018, 49, 975-998.	0.6	4
33	Assessing Sertoli Cell Metabolic Activity. <i>Methods in Molecular Biology</i> , 2018, 1748, 157-171.	0.4	2
34	The effects of the obesogen tributyltin on the metabolism of Sertoli cells cultured ex vivo. <i>Archives of Toxicology</i> , 2018, 92, 601-610.	1.9	15
35	Senescence and declining reproductive potential: Insight into molecular mechanisms through testicular metabolomics. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3388-3396.	1.8	34
36	Response to dietary carbohydrates in European seabass ( <i>Dicentrarchus labrax</i> ) muscle tissue as revealed by NMR-based metabolomics. <i>Metabolomics</i> , 2018, 14, 95.	1.4	24

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37	8-(3-phenylpropyl)-1,3,7-triethylxanthine is a synthetic caffeine substitute with stronger metabolic modulator activity. <i>Toxicology in Vitro</i> , 2018, 53, 114-120.	1.1	2
38	Mitochondrial Bioenergetics by <sup>13</sup> Câ€“NMR Isotopomer Analysis. <i>Methods in Molecular Biology</i> , 2018, 1782, 229-247.	0.4	1
39	Resolving NMR signals of shortâ€œchain fatty acid mixtures using unsupervised component analysis. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 936-943.	1.1	6
40	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.	1.4	48
41	Methamphetamine Induces Anhedonicâ€œLike Behavior and Impairs Frontal Cortical Energetics in Mice. <i>CNS Neuroscience and Therapeutics</i> , 2017, 23, 119-126.	1.9	12
42	Comparison of Antitumor Activity of Some Benzothiophene and Thienothiophene Carboxanilides and Quinolones in 2D and 3D Cell Culture System. <i>Croatica Chemica Acta</i> , 2017, 90, .	0.1	3
43	Microscopic Studies of Liver and Kidney in Mice Exposed to Silver Nanoparticles. <i>Microscopy and Microanalysis</i> , 2016, 22, 18-19.	0.2	0
44	Glucose uptake and lipid metabolism are impaired in epicardial adipose tissue from heart failure patients with or without diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E550-E564.	1.8	51
45	Metabolomics of silver nanoparticles toxicity in HaCaT cells: structureâ€œactivity relationships and role of ionic silver and oxidative stress. <i>Nanotoxicology</i> , 2016, 10, 1105-1117.	1.6	83
46	The bile acid chenodeoxycholic acid directly modulates metabolic pathways in white adipose tissue <i>in vitro</i>: insight into how bile acids decrease obesity. <i>NMR in Biomedicine</i> , 2016, 29, 1391-1402.	1.6	18
47	Effects of dietary carbohydrate on hepatic de novo lipogenesis in European seabass ( <i>Dicentrarchus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlaid	2.0	50
48	Testicular lactate content is compromised in men with Klinefelter Syndrome. <i>Molecular Reproduction and Development</i> , 2016, 83, 208-216.	1.0	14
49	High sucrose consumption induces memory impairment in rats associated with electrophysiological modifications but not with metabolic changes in the hippocampus. <i>Neuroscience</i> , 2016, 315, 196-205.	1.1	22
50	Pentamidine analogs as inhibitors of [3H]MK-801 and [3H]ifenprodil binding to rat brain NMDA receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4489-4500.	1.4	11
51	Contribution of dietary starch to hepatic and systemic carbohydrate fluxes in European seabass ( <i>Dicentrarchus labrax</i> L.). <i>British Journal of Nutrition</i> , 2015, 113, 1345-1354.	1.2	21
52	Metabolic evaluations of cancer metabolism by <sc>NMR</sc>â€œbased stable isotope tracer methodologies. <i>European Journal of Clinical Investigation</i> , 2015, 45, 37-43.	1.7	13
53	Resolving futile glucose cycling and glycogenolytic contributions to plasma glucose levels following a glucose load. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1368-1373.	1.9	9
54	Effects of food-deprivation and refeeding on the regulation and sources of blood glucose appearance in European seabass ( <i>Dicentrarchus labrax</i> L.). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2013, 166, 399-405.	0.8	28

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55	Disposition of [ <sup>3</sup> H]glucose into hepatic glycogen in rat and in seabass. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2013, 166, 316-322.	0.8	14
56	Hepatic glycogen synthesis in farmed European seabass ( <i>Dicentrarchus labrax</i> L.) is dominated by indirect pathway fluxes. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2012, 163, 22-29.	0.8	25
57	NMR Methodologies for Studying Mitochondrial Bioenergetics. <i>Methods in Molecular Biology</i> , 2012, 810, 281-309.	0.4	3
58	Novel Substituted Benzothiophene and Thienothiophene Carboxanilides and Quinolones: Synthesis, Photochemical Synthesis, DNA-Binding Properties, Antitumor Evaluation and 3D-Derived QSAR Analysis. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 5044-5060.	2.9	42
59	Putative mechanisms of antitumor activity of cyano-substituted heteroaryles in HeLa cells. <i>Investigational New Drugs</i> , 2012, 30, 450-467.	1.2	3
60	Analysis of glucose metabolism in farmed European sea bass ( <i>Dicentrarchus labrax</i> L.) using deuterated water. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2011, 160, 341-347.	0.8	30
61	Novel pentamidine derivatives: Synthesis, anti-tumor properties and polynucleotide-binding activities. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 2807-2815.	2.6	26
62	Novel Derivatives of Pyridylbenzo[ <i>b</i> ]thiophene-2-carboxamides and Benzo[ <i>b</i> ]thieno[2,3- <i>c</i> ]naphthyridin-2-ones: Minor Structural Variations Provoke Major Differences of Antitumor Action Mechanisms. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2482-2492.	2.9	32
63	Potentially biologically active new substituted anilides of benzo[2,3- <i>b</i> ]thiophene series. <i>Structural Chemistry</i> , 2007, 18, 103-111.	1.0	3
64	Novel cyano- and amidino-substituted derivatives of thieno[2,3- <i>b</i> ]- and thieno[3,2- <i>b</i> ]thiophene-2-carboxanilides and thieno[3,2- <i>b</i> ]thieno- and thieno[2,3- <i>c</i> ]thieno[2,3- <i>c</i> ]quinolones: Synthesis, photochemical synthesis, DNA binding, and antitumor evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 2859-2868.	1.4	72
65	4-Amino-N-isopropylbenzamidinium chloride ethanol solvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, o98-o100.	0.4	3
66	Novel Cyano- and N-Isopropylamidino-Substituted Derivatives of Benzo[ <i>b</i> ]thiophene-2-carboxanilides and Benzo[ <i>b</i> ]thieno[2,3- <i>c</i> ]quinolones: Synthesis, Photochemical Synthesis, Crystal Structure Determination, and Antitumor Evaluation. 2. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2346-2360.	2.9	73
67	N-Isopropylamidino-substituted derivatives of benzo[ <i>b</i> ]thiophene-2-carboxanilides and benzo[ <i>b</i> ]thieno[2,3- <i>c</i> ]quinolones: DNA binding by intercalation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, c281-c282.	0.3	0