

Pavel Babica

List of Publications by Year in Descending Order

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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.

70
papers

1,809
citations

24
h-index

40
g-index

76
ext. papers

2,107
ext. citations

4.9
avg. IF

4.67
L-index

#	Paper	IF	Citations
70	Insights into the molecular targets and emerging pharmacotherapeutic interventions for nonalcoholic fatty liver disease. <i>Metabolism: Clinical and Experimental</i> , 2022 , 126, 154925	12.7	23
69	Treatment of cylindrospermopsin by hydroxyl and sulfate radicals: Does degradation equal detoxification?. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127447	12.8	2
68	Endocrine-disrupting chemicals affect sertoli TM4 cell functionality through dysregulation of gap junctional intercellular communication in vitro.. <i>Food and Chemical Toxicology</i> , 2022 , 113004	4.7	1
67	In vitro testicular toxicity of environmentally relevant endocrine-disrupting chemicals: 2D vs. 3D models of prepubertal Leydig TM3 cells.. <i>Environmental Toxicology and Pharmacology</i> , 2022 , 103869	5.8	0
66	Synthetic Biomimetic Polymethacrylates: Promising Platform for the Design of Anti-Cyanobacterial and Anti-Algal Agents. <i>Polymers</i> , 2021 , 13,	4.5	1
65	Applicability of Scrape Loading-Dye Transfer Assay for Non-Genotoxic Carcinogen Testing. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
64	Occurrence of cylindrospermopsin, anatoxin-a and their homologs in the southern Czech Republic - Taxonomical, analytical, and molecular approaches. <i>Harmful Algae</i> , 2021 , 108, 102101	5.3	2
63	Cyanobacterial lipopeptides puwainaphycins and minutissamides induce disruptive and pro-inflammatory processes in Caco-2 human intestinal barrier model. <i>Harmful Algae</i> , 2020 , 96, 101849	5.3	4
62	Airborne PAHs inhibit gap junctional intercellular communication and activate MAPKs in human bronchial epithelial cell line. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 79, 103422	5.8	3
61	Microcystin-LR Does Not Alter Cell Survival and Intracellular Signaling in Human Bronchial Epithelial Cells. <i>Toxins</i> , 2020 , 12,	4.9	10
60	Improved multiparametric scrape loading-dye transfer assay for a simultaneous high-throughput analysis of gap junctional intercellular communication, cell density and viability. <i>Scientific Reports</i> , 2020 , 10, 730	4.9	7
59	Endocrine-disrupting chemicals rapidly affect intercellular signaling in Leydig cells. <i>Toxicology and Applied Pharmacology</i> , 2020 , 404, 115177	4.6	14
58	Ready to go 3D? A semi-automated protocol for microwell spheroid arrays to increase scalability and throughput of 3D cell culture testing. <i>Toxicology Mechanisms and Methods</i> , 2020 , 30, 590-604	3.6	4
57	Structure-Dependent Effects of Phthalates on Intercellular and Intracellular Communication in Liver Oval Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
56	Effects of cyanobacterial toxins on the human gastrointestinal tract and the mucosal innate immune system. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	36
55	Polycyclic Aromatic Hydrocarbons and Endocrine Disruption: Role of Testicular Gap Junctional Intercellular Communication and Connexins. <i>Toxicological Sciences</i> , 2019 , 169, 70-83	4.4	19
54	Application of passive sampling for sensitive time-integrative monitoring of cyanobacterial toxins microcystins in drinking water treatment plants. <i>Water Research</i> , 2019 , 153, 108-120	12.5	16

53	Lipopolysaccharides from Cyanobacteria-Dominated Water Bloom and from Laboratory Cultures Trigger Human Immune Innate Response. <i>Toxins</i> , 2019 , 11,	4.9	8
52	Cylindrospermopsin induces cellular stress and activation of ERK1/2 and p38 MAPK pathways in adult human liver stem cells. <i>Chemosphere</i> , 2019 , 227, 43-52	8.4	6
51	Effects of cylindrospermopsin on cultured immortalized human airway epithelial cells. <i>Chemosphere</i> , 2019 , 220, 620-628	8.4	10
50	Freshwater Cyanotoxin Cylindrospermopsin Has Detrimental Stage-specific Effects on Hepatic Differentiation From Human Embryonic Stem Cells. <i>Toxicological Sciences</i> , 2019 , 168, 241-251	4.4	4
49	Tumor-promoting cyanotoxin microcystin-LR does not induce procarcinogenic events in adult human liver stem cells. <i>Toxicology and Applied Pharmacology</i> , 2018 , 345, 103-113	4.6	12
48	Assessment of Hepatotoxic Potential of Cyanobacterial Toxins Using 3D In Vitro Model of Adult Human Liver Stem Cells. <i>Environmental Science & Technology</i> , 2018 , 52, 10078-10088	10.3	14
47	Branched Poly(ethylene imine)s as Anti-algal and Anti-cyanobacterial Agents with Selective Flocculation Behavior to Cyanobacteria over Algae. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800187	5.5	4
46	Elasticity and tumorigenic characteristics of cells in a monolayer after nanosecond pulsed electric field exposure. <i>European Biophysics Journal</i> , 2017 , 46, 567-580	1.9	12
45	Different DNA damage response of cis and trans isomers of commonly used UV filter after the exposure on adult human liver stem cells and human lymphoblastoid cells. <i>Science of the Total Environment</i> , 2017 , 593-594, 18-26	10.2	32
44	Cyanobacteria and microcystin contamination in untreated and treated drinking water in Ghana. <i>Advances in Oceanography and Limnology</i> , 2017 , 8,	1.3	4
43	Chlorination and ozonation reduce microcystin content and tumour promoting activity of complex cyanobacterial extract. <i>Advances in Oceanography and Limnology</i> , 2017 , 8,	1.3	4
42	Assessment of cyanoprokaryote blooms and of cyanotoxins in Bulgaria in a 15-years period (2000-2015). <i>Advances in Oceanography and Limnology</i> , 2017 , 8,	1.3	13
41	Methoxychlor and Vinclozolin Induce Rapid Changes in Intercellular and Intracellular Signaling in Liver Progenitor Cells. <i>Toxicological Sciences</i> , 2016 , 153, 174-85	4.4	13
40	Transient suppression of gap junctional intercellular communication after exposure to 100-nanosecond pulsed electric fields. <i>Bioelectrochemistry</i> , 2016 , 112, 33-46	5.6	25
39	Gap Junctional Intercellular Communication: A Functional Biomarker to Assess Adverse Effects of Toxicants and Toxins, and Health Benefits of Natural Products. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	9
38	High-valent iron (Fe(VI), Fe(V), and Fe(IV)) species in water: characterization and oxidative transformation of estrogenic hormones. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18802-10	3.6	20
37	Chemopreventive Agents Attenuate Rapid Inhibition of Gap Junctional Intercellular Communication Induced by Environmental Toxicants. <i>Nutrition and Cancer</i> , 2016 , 68, 827-37	2.8	13
36	Assessment of Chemical Impact of Invasive Bryozoan <i>Pectinatella magnifica</i> on the Environment: Cytotoxicity and Antimicrobial Activity of <i>P. magnifica</i> Extracts. <i>Molecules</i> , 2016 , 21,	4.8	4

35	Scrape Loading/Dye Transfer Assay. <i>Methods in Molecular Biology</i> , 2016 , 1437, 133-44	1.4	20
34	Immunomodulatory Potency of Microcystin, an Important Water-Polluting Cyanobacterial Toxin. <i>Environmental Science & Technology</i> , 2015 , 49, 12457-64	10.3	43
33	Phosphatidylcholine Specific PLC-Induced Dysregulation of Gap Junctions, a Robust Cellular Response to Environmental Toxicants, and Prevention by Resveratrol in a Rat Liver Cell Model. <i>PLoS ONE</i> , 2015 , 10, e0124454	3.7	26
32	Survey of cyanobacterial toxins in Czech water reservoirs--the first observation of neurotoxic saxitoxins. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8006-15	5.1	33
31	Acute, chronic and reproductive toxicity of complex cyanobacterial blooms in <i>Daphnia magna</i> and the role of microcystins. <i>Toxicol</i> , 2014 , 79, 11-8	2.8	34
30	Polycyclic aromatic hydrocarbon-induced signaling events relevant to inflammation and tumorigenesis in lung cells are dependent on molecular structure. <i>PLoS ONE</i> , 2014 , 8, e65150	3.7	32
29	Photodynamic effects of 31 different phthalocyanines on a human keratinocyte cell line. <i>Chemosphere</i> , 2013 , 93, 870-4	8.4	3
28	Tumor promoting effects of cyanobacterial extracts are potentiated by anthropogenic contaminants--evidence from in vitro study. <i>Chemosphere</i> , 2012 , 89, 30-7	8.4	10
27	Modulation of gap-junctional intercellular communication by a series of cyanobacterial samples from nature and laboratory cultures. <i>Toxicol</i> , 2011 , 58, 76-84	2.8	17
26	Extract of <i>Microcystis</i> water bloom affects cellular differentiation in filamentous cyanobacterium <i>Trichormus variabilis</i> (Nostocales, Cyanobacteria). <i>Journal of Applied Phycology</i> , 2011 , 23, 967-973	3.2	12
25	Effects of microcystin and complex cyanobacterial samples on the growth and oxidative stress parameters in green alga <i>Pseudokirchneriella subcapitata</i> and comparison with the model oxidative stressor--herbicide paraquat. <i>Environmental Toxicology</i> , 2011 , 26, 641-8	4.2	23
24	Temporal and spatial variability of cyanobacterial toxins microcystins in three interconnected freshwater reservoirs. <i>Journal of the Serbian Chemical Society</i> , 2010 , 75, 1303-1312	0.9	14
23	Inhibition of gap-junctional intercellular communication and activation of mitogen-activated protein kinases by cyanobacterial extracts--indications of novel tumor-promoting cyanotoxins?. <i>Toxicol</i> , 2010 , 55, 126-34	2.8	19
22	Single-walled carbon nanotubes dispersed in aqueous media via non-covalent functionalization: effect of dispersant on the stability, cytotoxicity, and epigenetic toxicity of nanotube suspensions. <i>Water Research</i> , 2010 , 44, 505-20	12.5	136
21	Structure-activity-dependent regulation of cell communication by perfluorinated fatty acids using in vivo and in vitro model systems. <i>Environmental Health Perspectives</i> , 2009 , 117, 545-51	8.4	53
20	Toxins produced in cyanobacterial water blooms - toxicity and risks. <i>Interdisciplinary Toxicology</i> , 2009 , 2, 36-41	2.3	162
19	Tumor promoting properties of a cigarette smoke prevalent polycyclic aromatic hydrocarbon as indicated by the inhibition of gap junctional intercellular communication via phosphatidylcholine-specific phospholipase C. <i>Cancer Science</i> , 2008 , 99, 696-705	6.9	47
18	Detoxification and oxidative stress responses along with microcystins accumulation in Japanese quail exposed to cyanobacterial biomass. <i>Science of the Total Environment</i> , 2008 , 398, 34-47	10.2	35

17	A novel approach for monitoring of cyanobacterial toxins: development and evaluation of the passive sampler for microcystins. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1167-72	4.4	26
16	Analyses of cyanobacterial toxins (microcystins, cylindrospermopsin) in the reservoirs of the Czech Republic and evaluation of health risks. <i>Environmental Chemistry Letters</i> , 2008 , 6, 223-227	13.3	55
15	Isolation and endotoxin activities of lipopolysaccharides from cyanobacterial cultures and complex water blooms and comparison with the effects of heterotrophic bacteria and green alga. <i>Journal of Applied Toxicology</i> , 2008 , 28, 72-7	4.1	33
14	Concentrations and Seasonal Trends of Extracellular Microcystins in Freshwaters of the Czech Republic [Results of the National Monitoring Program. <i>Clean - Soil, Air, Water</i> , 2007 , 35, 348-354	1.6	35
13	Microcystin kinetics (bioaccumulation and elimination) and biochemical responses in common carp (<i>Cyprinus carpio</i>) and silver carp (<i>Hypophthalmichthys molitrix</i>) exposed to toxic cyanobacterial blooms. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 2687-93	3.8	69
12	Effects of cyanobacterial biomass on the Japanese quail. <i>Toxicol</i> , 2007 , 49, 793-803	2.8	23
11	Effect of different cyanobacterial biomasses and their fractions with variable microcystin content on embryonal development of carp (<i>Cyprinus carpio</i> L.). <i>Aquatic Toxicology</i> , 2007 , 81, 312-8	5.1	52
10	. <i>Phycologia</i> , 2007 , 46, 137-142	2.7	39
9	Effects of Different Oxygen Saturation on Activity of Complex Biomass and Aqueous Crude Extract of Cyanobacteria During Embryonal Development in Carp (<i>Cyprinus carpio</i> L.). <i>Acta Veterinaria Brno</i> , 2007 , 76, 291-299	0.8	6
8	Evaluation of extraction approaches linked to ELISA and HPLC for analyses of microcystin-LR, -RR and -YR in freshwater sediments with different organic material contents. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1545-51	4.4	84
7	Contamination of some reservoirs and lakes in Republic of Bulgaria by microcystins. <i>Clean - Soil, Air, Water</i> , 2006 , 34, 437-441		23
6	Cyanobacteria species identified in the Weija and Kpong reservoirs, Ghana, and their implications for drinking water quality with respect to microcystin. <i>African Journal of Marine Science</i> , 2006 , 28, 451-456 ^{0.8}		11
5	Toxicity of complex cyanobacterial samples and their fractions in <i>Xenopus laevis</i> embryos and the role of microcystins. <i>Aquatic Toxicology</i> , 2006 , 80, 346-54	5.1	54
4	EXPLORING THE NATURAL ROLE OF MICROCYSTINS A REVIEW OF EFFECTS ON PHOTOAUTOTROPHIC ORGANISMS ¹ . <i>Journal of Phycology</i> , 2006 , 42, 9-20	3	180
3	Separation of microcystins by capillary electrochromatography in monolithic columns. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 841, 140-4	3.2	14
2	Removal of microcystins by phototrophic biofilms. A microcosm study. <i>Environmental Science and Pollution Research</i> , 2005 , 12, 369-74	5.1	27
1	Effects of Cyanobacterial Toxins on the Human Gastrointestinal Tract and the Mucosal Innate Immune System		3