

Pavel Babica

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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	EXPLORING THE NATURAL ROLE OF MICROCYSTINS A REVIEW OF EFFECTS ON PHOTOAUTOTROPHIC ORGANISMS1. <i>Journal of Phycology</i> , 2006 , 42, 9-20	3	180
69	Toxins produced in cyanobacterial water blooms - toxicity and risks. <i>Interdisciplinary Toxicology</i> , 2009 , 2, 36-41	2.3	162
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	Immunomodulatory Potency of Microcystin, an Important Water-Polluting Cyanobacterial Toxin. <i>Environmental Science & Technology</i> , 2015 , 49, 12457-64	10.3	43
59	. <i>Phycologia</i> , 2007 , 46, 137-142	2.7	39
58	Effects of cyanobacterial toxins on the human gastrointestinal tract and the mucosal innate immune system. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	36
57	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
56	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
55	Acute, chronic and reproductive toxicity of complex cyanobacterial blooms in <i>Daphnia magna</i> and the role of microcystins. <i>Toxicon</i> , 2014 , 79, 11-8	2.8	34
54	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

53	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
52	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
51	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
50	Removal of microcystins by phototrophic biofilms. A microcosm study. <i>Environmental Science and Pollution Research</i> , 2005 , 12, 369-74	5.1	27
49	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
48	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
47	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
46	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
45	Contamination of some reservoirs and lakes in Republic of Bulgaria by microcystins. <i>Clean - Soil, Air, Water</i> , 2006 , 34, 437-441		23
44	Effects of cyanobacterial biomass on the Japanese quail. <i>Toxicon</i> , 2007 , 49, 793-803	2.8	23
43	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
42	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
41	Scrape Loading/Dye Transfer Assay. <i>Methods in Molecular Biology</i> , 2016 , 1437, 133-44	1.4	20
40	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
39	Inhibition of gap-junctional intercellular communication and activation of mitogen-activated protein kinases by cyanobacterial extracts–indications of novel tumor-promoting cyanotoxins?. <i>Toxicon</i> , 2010 , 55, 126-34	2.8	19
38	Modulation of gap-junctional intercellular communication by a series of cyanobacterial samples from nature and laboratory cultures. <i>Toxicon</i> , 2011 , 58, 76-84	2.8	17
37	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
36	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

35	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
34	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
33	Endocrine-disrupting chemicals rapidly affect intercellular signaling in Leydig cells. <i>Toxicology and Applied Pharmacology</i> , 2020 , 404, 115177	4.6	14
32	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
31	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
30	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
29	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
28	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
27	Extract of Microcystis 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
26	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
25	Microcystin-LR Does Not Alter Cell Survival and Intracellular Signaling in Human Bronchial Epithelial Cells. <i>Toxins</i> , 2020 , 12,	4.9	10
24	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
23	Effects of cylindrospermopsin on cultured immortalized human airway epithelial cells. <i>Chemosphere</i> , 2019 , 220, 620-628	8.4	10
22	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
21	Lipopolysaccharides from Cyanobacteria-Dominated Water Bloom and from Laboratory Cultures Trigger Human Immune Innate Response. <i>Toxins</i> , 2019 , 11,	4.9	8
20	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
19	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
18	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

17	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
16	Cyanobacteria and microcystin contamination in untreated and treated drinking water in Ghana. <i>Advances in Oceanography and Limnology</i> , 2017 , 8,	1.3	4
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	Photodynamic effects of 31 different phthalocyanines on a human keratinocyte cell line. <i>Chemosphere</i> , 2013 , 93, 870-4	8.4	3
7	Effects of Cyanobacterial Toxins on the Human Gastrointestinal Tract and the Mucosal Innate Immune System		3
6	Treatment of cylindrospermopsin by hydroxyl and sulfate radicals: Does degradation equal detoxification?. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127447	12.8	2
5	Applicability of Scrape Loading-Dye Transfer Assay for Non-Genotoxic Carcinogen Testing. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
4	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
3	Synthetic Biomimetic Polymethacrylates: Promising Platform for the Design of Anti-Cyanobacterial and Anti-Algal Agents. <i>Polymers</i> , 2021 , 13,	4.5	1
2	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
1	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