Pavel Babica

List of Publications by Year
in descending order

		201385	223531
73	2,390	27	46
papers	citations	h-index	g-index

76	76	76	2754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toxins produced in cyanobacterial water blooms - toxicity and risks. Interdisciplinary Toxicology, 2009, 2, 36-41.	1.0	224
2	EXPLORING THE NATURAL ROLE OF MICROCYSTINS-A REVIEW OF EFFECTS ON PHOTOAUTOTROPHIC ORGANISMS1. Journal of Phycology, 2006, 42, 9-20.	1.0	196
3	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. Water Research, 2010, 44, 505-520.	5.3	148
4	Insights into the molecular targets and emerging pharmacotherapeutic interventions for nonalcoholic fatty liver disease. Metabolism: Clinical and Experimental, 2022, 126, 154925.	1.5	134
5	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. Analytical and Bioanalytical Chemistry, 2006, 385, 1545-1551.	1.9	92
6	Effects of cyanobacterial toxins on the human gastrointestinal tract and the mucosal innate immune system. Environmental Sciences Europe, 2019, 31, .	2.6	81
7	MICROCYSTIN KINETICS (BIOACCUMULATION AND ELIMINATION) AND BIOCHEMICAL RESPONSES IN COMMON CARP (CYPRINUS CARPIO) AND SILVER CARP (HYPOPHTHALMICHTHYS MOLITRIX) EXPOSED TO TOXIC CYANOBACTERIAL BLOOMS. Environmental Toxicology and Chemistry, 2007, 26, 2687.	2.2	79
8	Analyses of cyanobacterial toxins (microcystins, cylindrospermopsin) in the reservoirs of the Czech Republic and evaluation of health risks. Environmental Chemistry Letters, 2008, 6, 223-227.	8.3	70
9	Effect of different cyanobacterial biomasses and their fractions with variable microcystin content on embryonal development of carp (Cyprinus carpio L.). Aquatic Toxicology, 2007, 81, 312-318.	1.9	59
10	Structure-Activityâ€“Dependent Regulation of Cell Communication by Perfluorinated Fatty Acids using <i>in Vivo</i> and <i>in Vitro</i> Model Systems. Environmental Health Perspectives, 2009, 117, 545-551.	2.8	59
11	Toxicity of complex cyanobacterial samples and their fractions in Xenopus laevis embryos and the role of microcystins. Aquatic Toxicology, 2006, 80, 346-354.	1.9	58
12	Tumor promoting properties of a cigarette smoke prevalent polycyclic aromatic hydrocarbon as indicated by the inhibition of gap junctional intercellular communication via phosphatidylcholineâ€specific phospholipase C. Cancer Science, 2008, 99, 696-705.	1.7	49
13	Concentrations and Seasonal Trends of Extracellular Microcystins in Freshwaters of the Czech Republic â€“ Results of the National Monitoring Program. Clean - Soil, Air, Water, 2007, 35, 348-354.	0.7	48
14	Immunomodulatory Potency of Microcystin, an Important Water-Polluting Cyanobacterial Toxin. Environmental Science & Technology, 2015, 49, 12457-12464.	4.6	48
15	Effects of dissolved microcystins on growth of planktonic photoautotrophs. Phycologia, 2007, 46, 137-142.	0.6	45
16	Detoxification and oxidative stress responses along with microcystins accumulation in Japanese quail exposed to cyanobacterial biomass. Science of the Total Environment, 2008, 398, 34-47.	3.9	42
17	Acute, chronic and reproductive toxicity of complex cyanobacterial blooms in Daphnia magna and the role of microcystins. Toxicon, 2014, 79, 11-18.	0.8	40
18	Polycyclic Aromatic Hydrocarbon-Induced Signaling Events Relevant to Inflammation and Tumorigenesis in Lung Cells Are Dependent on Molecular Structure. PLoS ONE, 2013, 8, e65150.	1.1	39

#	Article	IF	Citations
19	Removal of Microcystins by Phototrophic Biofilms. A Microcosm Study (6 pp). Environmental Science and Pollution Research, 2005, 12, 369-374.	2.7	38
20	Isolation and endotoxin activities of lipopolysaccharides from cyanobacterial cultures and complex water blooms and comparison with the effects of heterotrophic bacteria and green alga. Journal of Applied Toxicology, 2008, 28, 72-77.	1.4	38
21	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. Science of the Total Environment, 2017, 593-594, 18-26.	3.9	38
22	Survey of cyanobacterial toxins in Czech water reservoirsâ€”the first observation of neurotoxic saxitoxins. Environmental Science and Pollution Research, 2014, 21, 8006-8015.	2.7	36
23	Scrape Loading/Dye Transfer Assay. Methods in Molecular Biology, 2016, 1437, 133-144.	0.4	32
24	Effects of cyanobacterial biomass on the Japanese quail. Toxicon, 2007, 49, 793-803.	0.8	29
25	Transient suppression of gap junctional intercellular communication after exposure to 100-nanosecond pulsed electric fields. Bioelectrochemistry, 2016, 112, 33-46.	2.4	29
26	A novel approach for monitoring of cyanobacterial toxins: development and evaluation of the passive sampler for microcystins. Analytical and Bioanalytical Chemistry, 2008, 390, 1167-1172.	1.9	28
27	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. PLoS ONE, 2015, 10, e0124454.	1.1	28
28	Polycyclic Aromatic Hydrocarbons and Endocrine Disruption: Role of Testicular Gap Junctional Intercellular Communication and Connexins. Toxicological Sciences, 2019, 169, 70-83.	1.4	28
29	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 stressorâ€”herbicide paraquat. Environmental Toxicology, 2011, 26, 641-648.	2.1	27
30	Contamination of some reservoirs and lakes in Republic of Bulgaria by microcystins. Clean - Soil, Air, Water, 2006, 34, 437-441.	0.8	26
31	Endocrine-disrupting chemicals rapidly affect intercellular signaling in Leydig cells. Toxicology and Applied Pharmacology, 2020, 404, 115177.	1.3	26
32	High-valent iron (FeVI, FeV, and FeIV) species in water: characterization and oxidative transformation of estrogenic hormones. Physical Chemistry Chemical Physics, 2016, 18, 18802-18810.	1.3	25
33	Assessment of Hepatotoxic Potential of Cyanobacterial Toxins Using 3D In Vitro Model of Adult Human Liver Stem Cells. Environmental Science & Technology, 2018, 52, 10078-10088.	4.6	24
34	Inhibition of gap-junctional intercellular communication and activation of mitogen-activated protein kinases by cyanobacterial extracts â€“ Indications of novel tumor-promoting cyanotoxins?. Toxicon, 2010, 55, 126-134.	0.8	23
35	Application of passive sampling for sensitive time-integrative monitoring of cyanobacterial toxins microcystins in drinking water treatment plants. Water Research, 2019, 153, 108-120.	5.3	23
36	Modulation of gap-junctional intercellular communication by a series of cyanobacterial samples from nature and laboratory cultures. Toxicon, 2011, 58, 76-84.	0.8	18

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37	Assessment of cyanoprokaryote blooms and of cyanotoxins in Bulgaria in a 15-years period (2000-2015). Advances in Oceanography and Limnology, 2017, 8, .	0.2	18
38	Tumor-promoting cyanotoxin microcystin-LR does not induce procarcinogenic events in adult human liver stem cells. Toxicology and Applied Pharmacology, 2018, 345, 103-113.	1.3	17
39	Lipopolysaccharides from Microcystis Cyanobacteria-Dominated Water Bloom and from Laboratory Cultures Trigger Human Immune Innate Response. Toxins, 2019, 11, 218.	1.5	17
40	Bile Acids Transporters of Enterohepatic Circulation for Targeted Drug Delivery. Molecules, 2022, 27, 2961.	1.7	17
41	Temporal and spatial variability of cyanobacterial toxins microcystins in three interconnected freshwater reservoirs. Journal of the Serbian Chemical Society, 2010, 75, 1303-1312.	0.4	16
42	Elasticity and tumorigenic characteristics of cells in a monolayer after nanosecond pulsed electric field exposure. European Biophysics Journal, 2017, 46, 567-580.	1.2	16
43	Separation of microcystins by capillary electrochromatography in monolithic columns. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 841, 140-144.	1.2	15
44	Chemopreventive Agents Attenuate Rapid Inhibition of Gap Junctional Intercellular Communication Induced by Environmental Toxicants. Nutrition and Cancer, 2016, 68, 827-837.	0.9	15
45	Microcystin-LR Does Not Alter Cell Survival and Intracellular Signaling in Human Bronchial Epithelial Cells. Toxins, 2020, 12, 165.	1.5	15
46	Methoxychlor and Vinclozolin Induce Rapid Changes in Intercellular and Intracellular Signaling in Liver Progenitor Cells. Toxicological Sciences, 2016, 153, 174-185.	1.4	14
47	Effects of cylindrospermopsin on cultured immortalized human airway epithelial cells. Chemosphere, 2019, 220, 620-628.	4.2	14
48	Extract of Microcystis water bloom affects cellular differentiation in filamentous cyanobacterium Trichormus variabilis (Nostocales, Cyanobacteria). Journal of Applied Phycology, 2011, 23, 967-973.	1.5	13
49	Improved multiparametric scrape loading-dye transfer assay for a simultaneous high-throughput analysis of gap junctional intercellular communication, cell density and viability. Scientific Reports, 2020, 10, 730.	1.6	13
50	Cyanobacteria species identified in the Weija and Kpong reservoirs, Ghana, and their implications for drinking water quality with respect to microcystin. African Journal of Marine Science, 2006, 28, 451-456.	0.4	12
51	Tumor promoting effects of cyanobacterial extracts are potentiated by anthropogenic contaminants â€" Evidence from in vitro study. Chemosphere, 2012, 89, 30-37.	4.2	11
52	Cylindrospermopsin induces cellular stress and activation of ERK1/2 and p38 MAPK pathways in adult human liver stem cells. Chemosphere, 2019, 227, 43-52.	4.2	11
53	Structure-Dependent Effects of Phthalates on Intercellular and Intracellular Communication in Liver Oval Cells. International Journal of Molecular Sciences, 2020, 21, 6069.	1.8	11
54	Cyanobacterial lipopeptides puwainaphycins and minutissamides induce disruptive and pro-inflammatory processes in Caco-2 human intestinal barrier model. Harmful Algae, 2020, 96, 101849.	2.2	11

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55	Gap Junctional Intercellular Communication: A Functional Biomarker to Assess Adverse Effects of Toxicants and Toxins, and Health Benefits of Natural Products. Journal of Visualized Experiments, 2016, , .	0.2	10
56	Applicability of Scrape Loading-Dye Transfer Assay for Non-Genotoxic Carcinogen Testing. International Journal of Molecular Sciences, 2021, 22, 8977.	1.8	9
57	Effects of Different Oxygen Saturation on Activity of Complex Biomass and Aqueous Crude Extract of Cyanobacteria During Embryonal Development in Carp (Cyprinus carpio L.). Acta Veterinaria Brno, 2007, 76, 291-299.	0.2	9
58	Ready to go 3D? A semi-automated protocol for microwell spheroid arrays to increase scalability and throughput of 3D cell culture testing. Toxicology Mechanisms and Methods, 2020, 30, 590-604.	1.3	8
59	Occurrence of cylindrospermopsin, anatoxin-a and their homologs in the southern Czech Republic â€" Taxonomical, analytical, and molecular approaches. Harmful Algae, 2021, 108, 102101.	2.2	8
60	Cyanobacteria and microcystin contamination in untreated and treated drinking water in Ghana. Advances in Oceanography and Limnology, 2017, 8, .	0.2	7
61	Branched Poly(ethylene imine)s as Antiâ€algal and Antiâ€cyanobacterial Agents with Selective Flocculation Behavior to Cyanobacteria over Algae. Macromolecular Bioscience, 2018, 18, e1800187.	2.1	7
62	Freshwater Cyanotoxin Cylindrospermopsin Has Detrimental Stage-specific Effects on Hepatic Differentiation From Human Embryonic Stem Cells. Toxicological Sciences, 2019, 168, 241-251.	1.4	7
63	Airborne PAHs inhibit gap junctional intercellular communication and activate MAPKs in human bronchial epithelial cell line. Environmental Toxicology and Pharmacology, 2020, 79, 103422.	2.0	6
64	Synthetic Biomimetic Polymethacrylates: Promising Platform for the Design of Anti-Cyanobacterial and Anti-Algal Agents. Polymers, 2021, 13, 1025.	2.0	6
65	Treatment of cylindrospermopsin by hydroxyl and sulfate radicals: Does degradation equal detoxification?. Journal of Hazardous Materials, 2022, 424, 127447.	6.5	6
66	Endocrine-disrupting chemicals affect Sertoli TM4 cell functionality through dysregulation of gap junctional intercellular communication in vitro. Food and Chemical Toxicology, 2022, 164, 113004.	1.8	5
67	Assessment of Chemical Impact of Invasive Bryozoan Pectinatella magnifica on the Environment: Cytotoxicity and Antimicrobial Activity of P. magnifica Extracts. Molecules, 2016, 21, 1476.	1.7	4
68	Chlorination and ozonation reduce microcystin content and tumour promoting activity of complex cyanobacterial extract. Advances in Oceanography and Limnology, 2017, 8, .	0.2	4
69	Photodynamic effects of 31 different phthalocyanines on a human keratinocyte cell line. Chemosphere, 2013, 93, 870-874.	4.2	3
70	In vitro testicular toxicity of environmentally relevant endocrine-disrupting chemicals: 2D vs. 3D models of prepubertal Leydig TM3 cells. Environmental Toxicology and Pharmacology, 2022, 93, 103869.	2.0	3
71	The effects of puwainaphycins F on Caco-2 cell line as a model of the intestinal barrier. Toxicology Letters, 2017, 280, S86.	0.4	1
72	Lung Tumor Promoting Properties Of 1-Methylanthracene, A Cigarette Smoke Prevalent Polycyclic Aromatic Hydrocarbon. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Abstract 3587: Polycyclic aromatic hydrocarbons exhibit differential tumor promoting properties through mitogen activated protein kinases and inhibition of gap junctions in murine lung cells.. , 2013, , .		0