Petr Babula

List of Publications by Year in descending order

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	201385	214527
2,499	27	47
citations	h-index	g-index
70	70	0.504
/9	/9	3534
docs citations	times ranked	citing authors
	citations 79	2,499 27 citations h-index 79 79

#	Article	IF	Citations
1	Nitrogen modulates strontium uptake and toxicity in Hypericum perforatum plants. Journal of Hazardous Materials, 2022, 425, 127894.	6.5	4
2	Involvement of calcium signaling in different types of cell death in cancer. Neoplasma, 2022, 69, 264-273.	0.7	4
3	Slow sulfide donor GYY4137 potentiates effect of paclitaxel on colorectal carcinoma cells. European Journal of Pharmacology, 2022, 922, 174875.	1.7	8
4	Fatty Acid Supplementation Affects Skin Wound Healing in a Rat Model. Nutrients, 2022, 14, 2245.	1.7	4
5	Iron Complexes of Flavonoids-Antioxidant Capacity and Beyond. International Journal of Molecular Sciences, 2021, 22, 646.	1.8	58
6	Novel Mitochondria-targeted Drugs for Cancer Therapy. Mini-Reviews in Medicinal Chemistry, 2021, 21, 816-832.	1.1	12
7	CBD is not converted to THC in rats: A framework interpretation and discussion. European Neuropsychopharmacology, 2021, 50, 135-136.	0.3	3
8	Ni and TiO2 nanoparticles cause adhesion and cytoskeletal changes in human osteoblasts. Environmental Science and Pollution Research, 2021, 28, 6018-6029.	2.7	1
9	Glyphosate does not show higher phytotoxicity than cadmium: Cross talk and metabolic changes in common herb. Journal of Hazardous Materials, 2020, 383, 121250.	6.5	13
10	Calcium signaling affects migration and proliferation differently in individual cancer cells due to nifedipine treatment. Biochemical Pharmacology, 2020, 171, 113695.	2.0	15
11	Effect of Ni ion release on the cells in contact with NiTi alloys. Environmental Science and Pollution Research, 2020, 27, 7934-7942.	2.7	10
12	Nitrogen nutrition modulates oxidative stress and metabolite production in Hypericum perforatum. Protoplasma, 2020, 257, 439-447.	1.0	12
13	Calcium has protective impact on cadmium-induced toxicity in lichens. Plant Physiology and Biochemistry, 2020, 156, 591-599.	2.8	13
14	Role of Sodium/Calcium Exchangers in Tumors. Biomolecules, 2020, 10, 1257.	1.8	26
15	Uptake and phytotoxicity of lead are affected by nitrate nutrition and phenolic metabolism. Environmental and Experimental Botany, 2020, 178, 104158.	2.0	6
16	Zinc Oxide Nanoparticles Damage Tobacco BY-2 Cells by Oxidative Stress Followed by Processes of Autophagy and Programmed Cell Death. Nanomaterials, 2020, 10, 1066.	1.9	25
17	Root response in Pisum sativum under naproxen stress: Morpho-anatomical, cytological, and biochemical traits. Chemosphere, 2020, 258, 127411.	4.2	16
18	Long-term impact of cadmium in protonema cultures of Physcomitrella patens. Ecotoxicology and Environmental Safety, 2020, 193, 110333.	2.9	9

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19	Possible use of a Nicotiana tabacum †Bright Yellow 2' cell suspension as a model to assess phytotoxicity of pharmaceuticals (diclofenac). Ecotoxicology and Environmental Safety, 2019, 182, 109369.	2.9	8
20	Diclofenac as an environmental threat: Impact on the photosynthetic processes of Lemna minor chloroplasts. Chemosphere, 2019, 224, 892-899.	4.2	28
21	Sodium/calcium exchanger is involved in apoptosis induced by H2S in tumor cells through decreased levels of intracellular pH. Nitric Oxide - Biology and Chemistry, 2019, 87, 1-9.	1.2	24
22	Dandelion is more tolerant to cadmium than to nickel excess. Chemosphere, 2019, 224, 884-891.	4.2	9
23	Sensitivity of physiological and biochemical endpoints in early ontogenetic stages of crops under diclofenac and paracetamol treatments. Environmental Science and Pollution Research, 2019, 26, 3965-3979.	2.7	21
24	Nitric oxide affects cadmium-induced changes in the lichen Ramalina farinacea. Nitric Oxide - Biology and Chemistry, 2019, 83, 11-18.	1.2	30
25	Metabolic responses of terrestrial macrolichens to nickel. Plant Physiology and Biochemistry, 2018, 127, 32-38.	2.8	10
26	Impact of humic acid on the accumulation of metals by microalgae. Environmental Science and Pollution Research, 2018, 25, 10792-10798.	2.7	17
27	Metal-induced oxidative stress in terrestrial macrolichens. Chemosphere, 2018, 203, 402-409.	4.2	25
28	Haloperidol Affects Plasticity of Differentiated NG-108 Cells Through $\sharp 1R/IP3R1$ Complex. Cellular and Molecular Neurobiology, 2018, 38, 181-194.	1.7	11
29	Metabolic changes induced by manganese in chamomile. Plant Physiology and Biochemistry, 2018, 133, 127-133.	2.8	8
30	Metabolic responses of Ulva compressa to single and combined heavy metals. Chemosphere, 2018, 213, 384-394.	4.2	18
31	Endogenous H2S producing enzymes are involved in apoptosis induction in clear cell renal cell carcinoma. BMC Cancer, 2018, 18, 591.	1.1	33
32	Zinc oxide nanoparticles phytotoxicity on halophyte from genus Salicornia. Plant Physiology and Biochemistry, 2018, 130, 30-42.	2.8	28
33	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. Prostate, 2017, 77, 604-616.	1.2	19
34	Ascorbic acid protects Coccomyxa subellipsoidea against metal toxicity through modulation of ROS/NO balance and metal uptake. Journal of Hazardous Materials, 2017, 339, 200-207.	6. 5	49
35	Long-term impact of cadmium shows little damage in Scenedesmus acutiformis cultures. Algal Research, 2017, 25, 184-190.	2.4	22
36	Comparison of vascular and non-vascular aquatic plant as indicators of cadmium toxicity. Chemosphere, 2017, 180, 86-92.	4.2	45

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37	Melatonin-Induced Changes in Cytosolic Calcium Might be Responsible for Apoptosis Induction in Tumour Cells. Cellular Physiology and Biochemistry, 2017, 44, 763-777.	1.1	39
38	Fluorescence microscopy as a tool for visualization of metal-induced oxidative stress in plants. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	21
39	Establishment of oral squamous cell carcinoma cell line and magnetic bead-based isolation and characterization of its CD90/CD44 subpopulations. Oncotarget, 2017, 8, 66254-66269.	0.8	11
40	Turkish Scorzonera Species Extracts Attenuate Cytokine Secretion via Inhibition of NF-κB Activation, Showing Anti-Inflammatory Effect in Vitro. Molecules, 2016, 21, 43.	1.7	21
41	Impact of Anions, Cations, and pH on Manganese Accumulation and Toxicity in the Green Alga Scenedesmus quadricauda. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	6
42	Metallothioneins in Prion- and Amyloid-Related Diseases. Journal of Alzheimer's Disease, 2016, 51, 637-656.	1.2	18
43	Humic acid protects barley against salinity. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	26
44	Age affects not only metabolome but also metal toxicity in Scenedesmus quadricauda cultures. Journal of Hazardous Materials, 2016, 306, 58-66.	6.5	34
45	Possible ecological risk of two pharmaceuticals diclofenac and paracetamol demonstrated on a model plant Lemna minor. Journal of Hazardous Materials, 2016, 302, 351-361.	6. 5	93
46	Oxidative Stress Resistance in Metastatic Prostate Cancer: Renewal by Self-Eating. PLoS ONE, 2015, 10, e0145016.	1.1	24
47	Preparation of Silica Nanoparticles Loaded with Nootropics and Their <i>In Vivo</i> Permeation through Blood-Brain Barrier. BioMed Research International, 2015, 2015, 1-9.	0.9	39
48	Molecular response of 4T1-induced mouse mammary tumours and healthy tissues to zinc treatment. International Journal of Oncology, 2015, 46, 1810-1818.	1.4	12
49	DNA hypomethylation concomitant with the overproduction of ROS induced by naphthoquinone juglone on tobacco BY-2 suspension cells. Environmental and Experimental Botany, 2015, 113, 28-39.	2.0	21
50	Lanthanum rather than cadmium induces oxidative stress and metabolite changes in Hypericum perforatum. Journal of Hazardous Materials, 2015, 286, 334-342.	6.5	55
51	Nitric oxide donor modulates cadmium-induced physiological and metabolic changes in the green alga Coccomyxa subellipsoidea. Algal Research, 2015, 8, 45-52.	2.4	49
52	Chromium speciation and biochemical changes vary in relation to plant ploidy. Journal of Inorganic Biochemistry, 2015, 145, 70-78.	1.5	9
53	Physiology and methodology of chromium toxicity using alga Scenedesmus quadricauda as model object. Chemosphere, 2015, 120, 23-30.	4.2	61
54	Multimodal Holographic Microscopy: Distinction between Apoptosis and Oncosis. PLoS ONE, 2015, 10, e0121674.	1.1	59

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55	Application of BY-2 cell model in evaluating an effect of newly prepared potential calcium channel blockers. Pakistan Journal of Pharmaceutical Sciences, 2015, 28, 1281-93.	0.2	O
56	The Study of Naphthoquinones and Their Complexes with DNA by Using Raman Spectroscopy and Surface Enhanced Raman Spectroscopy: New Insight into Interactions of DNA with Plant Secondary Metabolites. BioMed Research International, 2014, 2014, 1-12.	0.9	11
57	Variation of antioxidants and secondary metabolites in nitrogen-deficient barley plants. Journal of Plant Physiology, 2014, 171, 260-268.	1.6	43
58	Hexavalent chromium damages chamomile plants by alteration of antioxidants and its uptake is prevented by calcium. Journal of Hazardous Materials, 2014, 273, 110-117.	6. 5	64
59	Comparison of oxidative stress in four Tillandsia species exposed to cadmium. Plant Physiology and Biochemistry, 2014, 80, 33-40.	2.8	21
60	Oxidative stress, uptake and bioconversion of 5-fluorouracil in algae. Chemosphere, 2014, 100, 116-123.	4.2	20
61	Manganese-induced oxidative stress in two ontogenetic stages of chamomile and amelioration by nitric oxide. Plant Science, 2014, 215-216, 1-10.	1.7	48
62	Phytotoxic action of naphthoquinone juglone demonstrated on lettuce seedling roots. Plant Physiology and Biochemistry, 2014, 84, 78-86.	2.8	38
63	Toxicity of Naturally-Contaminated Manganese Soil to Selected Crops. Journal of Agricultural and Food Chemistry, 2014, 62, 7287-7296.	2.4	17
64	Cisplatin-resistant prostate cancer model: Differences in antioxidant system, apoptosis and cell cycle. International Journal of Oncology, 2014, 44, 923-933.	1.4	58
65	Unexpected Behavior of Some Nitric Oxide Modulators under Cadmium Excess in Plant Tissue. PLoS ONE, 2014, 9, e91685.	1.1	63
66	Toxicity of aluminium oxide nanoparticles demonstrated using a BY-2 plant cell suspension culture model. Environmental and Experimental Botany, 2013, 91, 1-11.	2.0	119
67	Microfluidic robotic device coupled with electrochemical sensor field for handling of paramagnetic micro-particles as a tool for determination of plant mRNA. Mikrochimica Acta, 2011, 173, 189-197.	2.5	14
68	A New Approach how to Define the Coefficient of Electroactivity of Adenine and Its Twelve Derivatives Using Flow Injection Analysis with Amperometric Detection. Electroanalysis, 2011, 23, 1556-1567.	1.5	6
69	Naphthoquinones as allelochemical triggers of programmed cell death. Environmental and Experimental Botany, 2009, 65, 330-337.	2.0	63
70	Squareâ€Wave Voltammetry as a Tool for Investigation of Doxorubicin Interactions with DNA Isolated from Neuroblastoma Cells. Electroanalysis, 2009, 21, 487-494.	1.5	26
71	Electrochemical Investigation of Strontium–Metallothionein Interactions – Analysis of Serum and Urine of Patients with Osteoporosis. Electroanalysis, 2009, 21, 650-656.	1.5	16
72	The role of sulphur in cadmium(II) ions detoxification demonstrated in in vitro model: Dionaea muscipula Ell Environmental Chemistry Letters, 2009, 7, 353-361.	8.3	5

#	Article	IF	CITATIONS
73	Noteworthy Secondary Metabolites Naphthoquinones – their Occurrence, Pharmacological Properties and Analysis. Current Pharmaceutical Analysis, 2009, 5, 47-68.	0.3	205
74	Uncommon heavy metals, metalloids and their plant toxicity: a review. Environmental Chemistry Letters, 2008, 6, 189-213.	8.3	328
75	Amperometric Sensor for Detection of Chloride Ions. Sensors, 2008, 8, 5619-5636.	2.1	30
76	Electrochemical Determination of Low Molecular Mass Thiols Content in Potatoes (Solanum) Tj ETQq0 0 0 rgBT (Phytophora infestans). Sensors, 2008, 8, 3165-3182.	/Overlock 2.1	10 Tf 50 627 33
77	Flow Injection Analysis Coupled with Carbon Electrodes as the Tool for Analysis of Naphthoquinones with Respect to Their Content and Functions in Biological Samples. Sensors, 2006, 6, 1466-1482.	2.1	29