Petr Bartos

List of Publications by Year
in descending order

35 papers	510 citations	1040056 9 h-index	794594 19 g-index
35 all docs	35 docs citations	35 times ranked	650 citing authors

#	Article	IF	Citations
1	Economic impacts of soil fertility degradation by traces of iron from drinking water treatment. Environment, Development and Sustainability, 2022, 24, 4835-4844.	5.0	52
2	Fault diagnosis of rolling bearing based on back propagation neural network optimized by cuckoo search algorithm. Multimedia Tools and Applications, 2022, 81, 1567-1587.	3.9	10
3	Cold Plasma as a Potential Activator of Plant Biostimulants. Sustainability, 2022, 14, 495.	3.2	8
4	Dynamic Characteristic Analysis and Clutch Engagement Test of HMCVT in the High-Power Tractor. Complexity, 2021, 2021, 1-8.	1.6	1
5	Research on defect detection method of powder metallurgy gear based on machine vision. Machine Vision and Applications, 2021, 32, 1.	2.7	7
6	In-Line Technologies for the Analysis of Important Milk Parameters during the Milking Process: A Review. Agriculture (Switzerland), 2021, 11, 239.	3.1	3
7	Highly Hydrophobic Organosilane-Functionalized Cellulose: A Promising Filler for Thermoplastic Composites. Materials, 2021, 14, 2005.	2.9	7
8	Dynamic engagement characteristics of wet clutch based on hydro-mechanical continuously variable transmission. Journal of Central South University, 2021, 28, 1377-1389.	3.0	4
9	Experimental Investigation into the Influence of Plasma Technology on Seed Surface Wettability. Applied Sciences (Switzerland), 2021, 11, 9994.	2.5	4
10	Methodology for Measurement of Ammonia Emissions from Intensive Pig Farming. Agriculture (Switzerland), 2021, 11, 1073.	3.1	5
11	Plant Material as a Novel Tool in Designing and Formulating Modern Biostimulantsâ€"Analysis of Botanical Extract from Linum usitatissimum L.. Materials, 2021, 14, 6661.	2.9	9
12	Application of the Machine Vision Technology and Infrared Thermography to the Detection of Hoof Diseases in Dairy Cows: A Review. Applied Sciences (Switzerland), 2021, 11, 11045.	2.5	4
13	Advanced Computational Methods for Agriculture Machinery Movement Optimization with Applications in Sugarcane Production. Agriculture (Switzerland), 2020, 10, 434.	3.1	18
14	Techno-Economic Assessment: Food Emulsion Waste Management. Energies, 2020, 13, 4922.	3.1	13
15	Remaining Useful Life Prediction and Fault Diagnosis of Rolling Bearings Based on Short-Time Fourier Transform and Convolutional Neural Network. Shock and Vibration, 2020, 2020, 1-14.	0.6	23
16	Biochemical and economical effect of application biostimulants containing seaweed extracts and amino acids as an element of agroecological management of bean cultivation. Scientific Reports, 2020, 10, 17759.	3.3	44
17	Modified biochars present an economic challenge to phosphate management in wastewater treatment plants. Journal of Cleaner Production, 2020, 272, 123015.	9.3	111
18	Modified Biocharâ€"A Tool for Wastewater Treatment. Energies, 2020, 13, 5270.	3.1	14

#	Article	IF	Citations
19	Soil-cutting simulation and parameter optimization of rotary bladeâ€™s three-axis resistances by response surface method. Computers and Electronics in Agriculture, 2019, 164, 104902.	7.7	20
20	Hydrophobization of cotton fabric by Gliding Arc plasma discharge. Current Applied Physics, 2019, 19, 128-136.	2.4	18
21	The effect of low-temperature plasma discharge on mycotoxin content in barley and malt. KvasnÃ½ PrÅ¯mysl, 2019, 65, .	0.2	2
22	Marketing communication in beer industry in the Czech Republic with respect to minibreweries. KvasnÃ½ PrÅ¯mysl, 2019, 65, 6-12.	0.2	5
23	Enhancement of the Yield of Crops by Plasma and Using of Entomopathogenic and Mycoparasitic Fungi: From Laboratory to Large-Field Experiments. Journal of Biomaterials and Tissue Engineering, 2018, 8, 829-836.	0.1	7
24	The effect of treatment of barley grain and malt with low-temperature plasma discharge on the malt gushing potential. KvasnÃ½ PrÅ¯mysl, 2018, 64, 314-317.	0.2	1
25	Technology for Intensive Poultry Production as a Source of Odour Emissions with Time-Varying Intensity. Acta Technologica Agriculturae, 2017, 20, 91-95.	0.9	0
26	PlazmovÃ© technologie v potravinÃ¡Å™skÃ©m prÅ¯myslu: mini-review. KvasnÃ½ PrÅ¯mysl, 2017, 63, 134-138.	0.2	8
27	Plasma jet for environmental applications: Computational study of the electric field distribution between electrodes. , 2014, , .		2
28	Sputter Deposition of Nanostructured TiO₂ Thin Films. IEEE Transactions on Plasma Science, 2014, 42, 2790-2791.	1.3	1
29	Analysis of aerodynamics and charging of nanoparticles in the gas aggregation source based on a planar magnetron. , 2012, , .		0
30	Low-Temperature Plasma Behavior in the Vicinity of a Cylindrical Probe. IEEE Transactions on Plasma Science, 2011, 39, 2534-2535.	1.3	0
31	Fluid Model of Plasma Sheath Involving Ion Energy Spectrum. IEEE Transactions on Plasma Science, 2010, 38, 2322-2327.	1.3	1
32	Deposition of TiO2-Based Layer on Textile Substrate: Theoretical and Experimental Study. Plasma Processes and Polymers, 2009, 6, S897-S901.	3.0	7
33	Multi-dimensional modelling of plasmaâ€”solid interaction. European Physical Journal D, 2006, 56, 1445-1451.	0.4	0
34	Advances in nutrient management make it possible to accelerate biogas production and thus improve the economy of food waste processing. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-10.	2.3	58
35	Advances in the agrochemical utilization of fermentation residues reduce the cost of purpose-grown phytomass for biogas production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-11.	2.3	43