

Petr Bartos

List of Publications by Year in descending order

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Version: 2024-02-01

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	Modified biochars present an economic challenge to phosphate management in wastewater treatment plants. <i>Journal of Cleaner Production</i> , 2020, 272, 123015.	9.3	111
2	Advances in nutrient management make it possible to accelerate biogas production and thus improve the economy of food waste processing. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-10.	2.3	58
3	Economic impacts of soil fertility degradation by traces of iron from drinking water treatment. <i>Environment, Development and Sustainability</i> , 2022, 24, 4835-4844.	5.0	52
4	Biochemical and economical effect of application biostimulants containing seaweed extracts and amino acids as an element of agroecological management of bean cultivation. <i>Scientific Reports</i> , 2020, 10, 17759.	3.3	44
5	Advances in the agrochemical utilization of fermentation residues reduce the cost of purpose-grown phytomass for biogas production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-11.	2.3	43
6	Remaining Useful Life Prediction and Fault Diagnosis of Rolling Bearings Based on Short-Time Fourier Transform and Convolutional Neural Network. <i>Shock and Vibration</i> , 2020, 2020, 1-14.	0.6	23
7	Soil-cutting simulation and parameter optimization of rotary blade's three-axis resistances by response surface method. <i>Computers and Electronics in Agriculture</i> , 2019, 164, 104902.	7.7	20
8	Hydrophobization of cotton fabric by Gliding Arc plasma discharge. <i>Current Applied Physics</i> , 2019, 19, 128-136.	2.4	18
9	Advanced Computational Methods for Agriculture Machinery Movement Optimization with Applications in Sugarcane Production. <i>Agriculture (Switzerland)</i> , 2020, 10, 434.	3.1	18
10	Modified Biochar's A Tool for Wastewater Treatment. <i>Energies</i> , 2020, 13, 5270.	3.1	14
11	Techno-Economic Assessment: Food Emulsion Waste Management. <i>Energies</i> , 2020, 13, 4922.	3.1	13
12	Fault diagnosis of rolling bearing based on back propagation neural network optimized by cuckoo search algorithm. <i>Multimedia Tools and Applications</i> , 2022, 81, 1567-1587.	3.9	10
13	Plant Material as a Novel Tool in Designing and Formulating Modern Biostimulants's Analysis of Botanical Extract from <i>Linum usitatissimum</i> L.. <i>Materials</i> , 2021, 14, 6661.	2.9	9
14	Plazmová technologie v potravinářském průmyslu: mini-review. <i>Kvasný Průmysl</i> , 2017, 63, 134-138.	0.2	8
15	Cold Plasma as a Potential Activator of Plant Biostimulants. <i>Sustainability</i> , 2022, 14, 495.	3.2	8
16	Deposition of TiO ₂ -Based Layer on Textile Substrate: Theoretical and Experimental Study. <i>Plasma Processes and Polymers</i> , 2009, 6, S897-S901.	3.0	7
17	Research on defect detection method of powder metallurgy gear based on machine vision. <i>Machine Vision and Applications</i> , 2021, 32, 1.	2.7	7
18	Highly Hydrophobic Organosilane-Functionalized Cellulose: A Promising Filler for Thermoplastic Composites. <i>Materials</i> , 2021, 14, 2005.	2.9	7

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19	Enhancement of the Yield of Crops by Plasma and Using of Entomopathogenic and Mycoparasitic Fungi: From Laboratory to Large-Field Experiments. <i>Journal of Biomaterials and Tissue Engineering</i> , 2018, 8, 829-836.	0.1	7
20	Marketing communication in beer industry in the Czech Republic with respect to minibreweries. <i>Kvasn½ PrÁmysl</i> , 2019, 65, 6-12.	0.2	5
21	Methodology for Measurement of Ammonia Emissions from Intensive Pig Farming. <i>Agriculture (Switzerland)</i> , 2021, 11, 1073.	3.1	5
22	Dynamic engagement characteristics of wet clutch based on hydro-mechanical continuously variable transmission. <i>Journal of Central South University</i> , 2021, 28, 1377-1389.	3.0	4
23	Experimental Investigation into the Influence of Plasma Technology on Seed Surface Wettability. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9994.	2.5	4
24	Application of the Machine Vision Technology and Infrared Thermography to the Detection of Hoof Diseases in Dairy Cows: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11045.	2.5	4
25	In-Line Technologies for the Analysis of Important Milk Parameters during the Milking Process: A Review. <i>Agriculture (Switzerland)</i> , 2021, 11, 239.	3.1	3
26	Plasma jet for environmental applications: Computational study of the electric field distribution between electrodes. , 2014, , .		2
27	The effect of low-temperature plasma discharge on mycotoxin content in barley and malt. <i>Kvasn½ PrÁmysl</i> , 2019, 65, .	0.2	2
28	Fluid Model of Plasma Sheath Involving Ion Energy Spectrum. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2322-2327.	1.3	1
29	Sputter Deposition of Nanostructured TiO₂ Thin Films. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2790-2791.	1.3	1
30	Dynamic Characteristic Analysis and Clutch Engagement Test of HMCVT in the High-Power Tractor. <i>Complexity</i> , 2021, 2021, 1-8.	1.6	1
31	The effect of treatment of barley grain and malt with low-temperature plasma discharge on the malt gushing potential. <i>Kvasn½ PrÁmysl</i> , 2018, 64, 314-317.	0.2	1
32	Multi-dimensional modelling of plasmaâ€™solid interaction. <i>European Physical Journal D</i> , 2006, 56, 1445-1451.	0.4	0
33	Low-Temperature Plasma Behavior in the Vicinity of a Cylindrical Probe. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2534-2535.	1.3	0
34	Analysis of aerodynamics and charging of nanoparticles in the gas aggregation source based on a planar magnetron. , 2012, , .		0
35	Technology for Intensive Poultry Production as a Source of Odour Emissions with Time-Varying Intensity. <i>Acta Technologica Agriculturae</i> , 2017, 20, 91-95.	0.9	0