Katarzyna Chojnacka

List of Publications by Year
in descending order

96 papers	5,368 citations	159585 30 h-index	85541 71 g-index
116 all docs	116 docs citations	116 times ranked	5909 citing authors

#	Article	IF	Citations
1	Biosorption and bioaccumulation â€“ the prospects for practical applications. Environment International, 2010, 36, 299-307.	10.0	617
2	Application of response surface methodology and artificial neural network methods in modelling and optimization of biosorption process. Bioresource Technology, 2014, 160, 150-160.	9.6	476
3	Biosorption of Cr3+, Cd2+ and Cu2+ ions by blueâ€“green algae Spirulina sp.: kinetics, equilibrium and the mechanism of the process. Chemosphere, 2005, 59, 75-84.	8.2	464
4	State of the Art for the Biosorption Processâ€”a Review. Applied Biochemistry and Biotechnology, 2013, 170, 1389-1416.	2.9	373
5	Algae as production systems of bioactive compounds. Engineering in Life Sciences, 2015, 15, 160-176.	3.6	356
6	Evaluation of Spirulina sp. growth in photoautotrophic, heterotrophic and mixotrophic cultures. Enzyme and Microbial Technology, 2004, 34, 461-465.	3.2	271
7	Algal extracts: Technology and advances. Engineering in Life Sciences, 2014, 14, 581-591.	3.6	195
8	3D printing filament as a second life of waste plasticsâ€”a review. Environmental Science and Pollution Research, 2021, 28, 12321-12333.	5.3	169
9	Effect of the New Plant Growth Biostimulants Based on Amino Acids on Yield and Grain Quality of Winter Wheat. Molecules, 2018, 23, 470.	3.8	165
10	Biosorption of Cr(III) ions by eggshells. Journal of Hazardous Materials, 2005, 121, 167-173.	12.4	146
11	The application of natural zeolites for mercury removal: from laboratory tests to industrial scale. Minerals Engineering, 2004, 17, 933-937.	4.3	114
12	Trace element removal by Spirulina sp. from copper smelter and refinery effluents. Hydrometallurgy, 2004, 73, 147-153.	4.3	92
13	Potential environmental pollution from copper metallurgy and methods of management. Environmental Research, 2021, 197, 111050.	7.5	90
14	Plant Growth Biostimulants Based on Different Methods of Seaweed Extraction with Water. BioMed Research International, 2016, 2016, 1-11.	1.9	73
15	Evaluation of Supercritical Extracts of Algae as Biostimulants of Plant Growth in Field Trials. Frontiers in Plant Science, 2016, 7, 1591.	3.6	73
16	Plant Growth Biostimulants, Dietary Feed Supplements and Cosmetics Formulated with Supercritical CO2 Algal Extracts. Molecules, 2017, 22, 66.	3.8	66
17	The challenges and perspectives for anaerobic digestion of animal waste and fertilizer application of the digestate. Chemosphere, 2022, 295, 133799.	8.2	66
18	Effect of macroalgae enriched with microelements on egg quality parameters and mineral content of eggs, eggshell, blood, feathers and droppings. Journal of Animal Physiology and Animal Nutrition, 2011, 95, 374-387.	2.2	61

#	ARTICLE	IF	CITATIONS
19	Supercritical fluid extraction of algae enhances levels of biologically active compounds promoting plant growth. European Journal of Phycology, 2016, 51, 243-252.	2.0	57
20	Biomass of Spirulina maxima enriched by biosorption process as a new feed supplement for swine. Journal of Applied Phycology, 2013, 25, 667-675.	2.8	53
21	Using ICP-OES and SEM-EDX in biosorption studies. Mikrochimica Acta, 2011, 172, 65-74.	5.0	52
22	Interactions of metal cations with anionic groups on the cell wall of the macroalga Vaucheria sp.. Engineering in Life Sciences, 2010, 10, 209-217.	3.6	49
23	Biosorption of Microelements bySpirulina: Towards Technology of Mineral Feed Supplements. Scientific World Journal, The, 2014, 2014, 1-15.	2.1	49
24	Biosorption of malachite green by eggshells: Mechanism identification and process optimization. Bioresource Technology, 2014, 160, 161-165.	9.6	48
25	Seaweed extract by microwave assisted extraction as plant growth biostimulant. Open Chemistry, 2015, 13, .	1.9	45
26	The New Application of Biosorption Properties of Enteromorpha prolifera. Applied Biochemistry and Biotechnology, 2010, 160, 1540-1556.	2.9	42
27	Edible macroalga Ulva prolifera as microelemental feed supplement for livestock: the fundamental assumptions of the production method. World Journal of Microbiology and Biotechnology, 2009, 25, 997-1005.	3.6	38
28	The Application of Biosorption for Production of Micronutrient Fertilizers Based on Waste Biomass. Applied Biochemistry and Biotechnology, 2014, 174, 1376-1392.	2.9	36
29	Toward production of microalgae in photobioreactors under temperate climate. Chemical Engineering Research and Design, 2015, 93, 377-391.	5.6	36
30	Antiviral Properties of Polyphenols from Plants. Foods, 2021, 10, 2277.	4.3	36
31	Green analytical methods of metals determination in biosorption studies. TrAC - Trends in Analytical Chemistry, 2019, 116, 254-265.	11.4	32
32	The application of multielemental analysis in the elaboration of technology of mineral feed additives based on Lemna minor biomass. Talanta, 2006, 70, 966-972.	5.5	31
33	Evaluation of growth yield of Spirulina (Arthrospira) sp. in photoautotrophic, heterotrophic and mixotrophic cultures. World Journal of Microbiology and Biotechnology, 2012, 28, 437-445.	3.6	31
34	New environmentally friendly bio-based micronutrient fertilizer by biosorption: From laboratory studies to the field. Science of the Total Environment, 2020, 710, 136061.	8.0	31
35	The application of macroalga Pithophora varia Wille enriched with microelements by biosorption as biological feed supplement for livestock. Journal of the Science of Food and Agriculture, 2008, 88, 1178-1186.	3.5	30
36	Utilization of microorganisms in the solubilization of low-quality phosphorus raw material. Ecological Engineering, 2016, 89, 109-113.	3.6	30

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37	Biosorption of Cr(III) by Microalgae and Macroalgae: Equilibrium of the Process. American Journal of Agricultural and Biological Science, 2007, 2, 284-290.	0.4	29
38	Algal compost â€“ toward sustainable fertilization. Reviews in Inorganic Chemistry, 2013, 33, 161-172.	4.1	27
39	The release of metal ions from orthodontic appliancesAnimal tests. Angle Orthodontist, 2014, 84, 673-679.	2.4	27
40	Bioaccumulation of Cr(III) ions by Blue-Green alga Spirulina sp. Part I. A Comparison with Biosorption. American Journal of Agricultural and Biological Science, 2007, 2, 218-223.	0.4	27
41	Using SEM-EDX and ICP-OES to Investigate the Elemental Composition of Green MacroalgaVaucheria sessilis. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	26
42	Exposure to metals from orthodontic appliances by hair mineral analysis. Environmental Toxicology and Pharmacology, 2011, 32, 10-16.	4.0	25
43	Supercritical Algal Extracts: A Source of Biologically Active Compounds from Nature. Journal of Chemistry, 2015, 2015, 1-14.	1.9	25
44	Bioconversion of Baltic Seaweeds into Organic Compost. Waste and Biomass Valorization, 2017, 8, 1885-1895.	3.4	24
45	Advances in biosorption of microelements â€“ the starting point for the production of new agrochemicals. Reviews in Inorganic Chemistry, 2015, 35, 115-133.	4.1	21
46	Biomass of Spirulina maxima enriched by biosorption process as a new feed supplement for laying hens. Algal Research, 2016, 19, 342-347.	4.6	21
47	Value-added strategies for the sustainable handling, disposal, or value-added use of copper smelter and refinery wastes. Journal of Hazardous Materials, 2021, 403, 123602.	12.4	21
48	Biofortification of maize with micronutrients by Spirulina. Open Chemistry, 2015, 13, .	1.9	20
49	The Application of Homogenate and Filtrate from Baltic Seaweeds in Seedling Growth Tests. Applied Sciences (Switzerland), 2017, 7, 230.	2.5	20
50	Do soft drinks affect metal ions release from orthodontic appliances?. Journal of Trace Elements in Medicine and Biology, 2015, 31, 74-77.	3.0	19
51	Innovative bio-products for agriculture. Open Chemistry, 2015, 13, .	1.9	19
52	New feed supplement from macroalgae as the dietary source of microelements for pigs. Open Chemistry, 2015, 13, .	1.9	18
53	Biofortification of milk and cheese with microelements by dietary feed bio-preparations. Journal of Food Science and Technology, 2015, 52, 6484-6492.	2.8	17
54	The comparison of biosorption of nutritionally significant minerals in singleâ€•and multiâ€•mineral systems by the edible microalga Spirulina sp.. Journal of the Science of Food and Agriculture, 2009, 89, 2292-2301.	3.5	16

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55	Valorization of Phosphorus Secondary Raw Materials by Acidithiobacillus ferrooxidans. Molecules, 2017, 22, 473.	3.8	16
56	Using XRF and ICP-OES in Biosorption Studies. Molecules, 2018, 23, 2076.	3.8	16
57	Trace Elements in Living Systems: From Beneficial to Toxic Effects. BioMed Research International, 2017, 2017, 1-2.	1.9	15
58	Conversion of spent mushroom substrate into micronutrient fertilizer via biosorption in a pilot plant. Ecological Engineering, 2015, 84, 370-374.	3.6	14
59	Innovative Seed Treatment with Algae Homogenate. Waste and Biomass Valorization, 2015, 6, 441-448.	3.4	13
60	The Influence of pH of Extracting Water on the Composition of Seaweed Extracts and Their Beneficial Properties onLepidium sativum. BioMed Research International, 2017, 2017, 1-11.	1.9	13
61	Exposure to nickel by hair mineral analysis. Environmental Toxicology and Pharmacology, 2012, 34, 727-734.	4.0	12
62	Agricultural and non-agricultural directions of bio-based sewage sludge valorization by chemical conditioning. Environmental Science and Pollution Research, 2021, 28, 47725-47740.	5.3	12
63	Phosphorus recovery from wastewater and bio-based waste: an overview. Bioengineered, 2022, 13, 13474-13506.	3.2	12
64	Relation between mineral composition of human hair and common illnesses. Science Bulletin, 2012, 57, 3460-3465.	1.7	11
65	Transparent orthodontic archwires: A systematic literature review. Archives of Civil and Mechanical Engineering, 2017, 17, 651-657.	3.8	11
66	Solidâ€state solubilization of bones by B. megaterium in spent mushroom substrate as a medium for a phosphate enriched substrate. Journal of Chemical Technology and Biotechnology, 2017, 92, 1397-1405.	3.2	10
67	Biofortification of hensâ€™ eggs with microelements by innovative bioâ€based dietary supplement. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 485-492.	2.2	10
68	Prospects of geothermal water Use in cultivation of Spirulina. Open Chemistry, 2015, 13, .	1.9	9
69	Do Dietary Habits Influence Trace Elements Release from Fixed Orthodontic Appliances?. Biological Trace Element Research, 2017, 180, 214-222.	3.5	9
70	Mapping chemical elements on the surface of orthodontic appliance by SEM-EDX. Medical Science Monitor, 2014, 20, 860-865.	1.1	9
71	Using Spent Mushroom Substrate as the Base for Organic-Mineral Micronutrient Fertilizer â€“ Field Tests on Maize. BioResources, 2015, 10, .	1.0	8
72	Effect of Dietary Yeasts Enriched with Cu, Fe and Mn on Digestibility of Main Nutrients and Absorption of Minerals by Growing Pigs. American Journal of Agricultural and Biological Science, 2007, 2, 267-275.	0.4	8

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73	Two-phase exponential model for describing kinetics of biosorption of Cr(III) ions by microalgae Spirulina maxima. Chemical Engineering Journal, 2012, 197, 49-55.	12.7	7
74	Valorization of Biomass into Micronutrient Fertilizers. Waste and Biomass Valorization, 2019, 10, 925-931.	3.4	7
75	Biodegradation of pharmaceuticals in photobioreactors â€“ a systematic literature review. Bioengineered, 2022, 13, 4537-4556.	3.2	7
76	Mode of Biosorption of Chromium(III) by Spirulina Species Cells from Aqueous Solutions. Water Environment Research, 2006, 78, 740-743.	2.7	6
77	Application of Biosorption in the Production of Innovative Feed Supplements: A Novel Method. Adsorption Science and Technology, 2013, 31, 421-431.	3.2	6
78	Effect of Marine Macroalga Enteromorpha sp. Enriched with Zn(II) and Cu(II) ions on the Digestibility, Meat Quality and Carcass Characteristics of Growing Pigs. Journal of Marine Science and Engineering, 2020, 8, 347.	2.6	6
79	Biofortification of Hens Eggs with Polyunsaturated Fatty Acids by New Dietary Formulation: Supercritical Microalgal Extract. Animals, 2020, 10, 499.	2.3	6
80	Exposure of Cleft Lip and Palate Patients to Toxic Elements Released during Orthodontic Treatment in the Study of Non-Invasive Matrices. PLoS ONE, 2015, 10, e0140211.	2.5	5
81	Valorization of post-extraction biomass residues as carriers of bioavailable micronutrients for plants and livestock. Biomass Conversion and Biorefinery, 2021, 11, 3037-3052.	4.6	5
82	Practical aspects of biowastes conversion to fertilizers. Biomass Conversion and Biorefinery, 2024, 14, 1515-1533.	4.6	5
83	Utilization of spent petrochemical sulfuric acid in the production of wet-process phosphoric acid. Journal of Chemical Technology and Biotechnology, 2005, 80, 1331-1338.	3.2	4
84	New generation of phosphate fertilizer from bones, produced by bacteria. Open Chemistry, 2015, 13, .	1.9	4
85	Biofortification of maize grains with micronutrients by enriched biomass of blackcurrant seeds. Open Chemistry, 2015, 13, .	1.9	4
86	Production of phosphate biofertilizers from bones by phosphate-solubilizing bacteria Bacillus megaterium. Open Chemistry, 2015, 13, .	1.9	4
87	Valorization of postextraction residuesâ€”analysis of the influence of new feed additives with micronutrients on eggs quality parameters. Poultry Science, 2021, 100, 101416.	3.4	4
88	New Role of Sulfuric Acid In Production of Multicomponent Fertilizers From Renewable Sources. American Journal of Agricultural and Biological Science, 2007, 2, 241-247.	0.4	4
89	Valorization of Biomass Residues by Biosorption of Microelements in a Closed-Loop Cycle. Waste and Biomass Valorization, 2022, 13, 1913-1929.	3.4	4
90	Multi-cation biosorption by chlorella kessleri. Open Chemistry, 2015, 13, .	1.9	3

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91	Effects of anions on the biosorption of microelement cations by macroalga Enteromorpha prolifera in single- and multi-metal systems. Science Bulletin, 2012, 57, 736-743.	1.7	2
92	Pilot Plant Conversion of Blackcurrant Seeds into New Micronutrient Fertilizer Biocomponents via Biosorption. BioResources, 2015, 11, .	1.0	2
93	Algal compost â€“ toward sustainable fertilization. Reviews in Inorganic Chemistry, 2014, 34, 281.	4.1	0
94	New micronutrient biocomponents based on blackcurrant seeds pomace â€“ Bench-scale kinetic studies. Energy and Environment, 2021, 32, 1397-1413.	4.6	0
95	Badania stabilnoÅ›ci (E)-azastilbenÃ³w jako Å›rodkÃ³w odkaÅ¼ajÄ…cych i konserwujÄ…cych oraz ich wydobywania z roztworÃ³w wodnych. Przemysl Chemiczny, 2018, 1, 126-130.	0.0	0
96	Quality of tap water in an urban agglomeration: 2-yearsâ€™ monitoring study in WrocÅ‚aw, Poland. Urban Water Journal, 0, , 1-14.	2.1	0