

# Anna Witek-Krowiak

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

3,941  
citations

236612

25  
h-index

123241

61  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Agricultural waste peels as versatile biomass for water purification – A review. <i>Chemical Engineering Journal</i> , 2015, 270, 244-271.	6.6	582
2	Application of response surface methodology and artificial neural network methods in modelling and optimization of biosorption process. <i>Bioresource Technology</i> , 2014, 160, 150-160.	4.8	476
3	State of the Art for the Biosorption Process – a Review. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1389-1416.	1.4	373
4	Biosorption of heavy metals from aqueous solutions onto peanut shell as a low-cost biosorbent. <i>Desalination</i> , 2011, 265, 126-134.	4.0	326
5	Bio-based fertilizers: A practical approach towards circular economy. <i>Bioresource Technology</i> , 2020, 295, 122223.	4.8	271
6	3D printing filament as a second life of waste plastics – a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12321-12333.	2.7	169
7	Controlled release micronutrient fertilizers for precision agriculture – A review. <i>Science of the Total Environment</i> , 2020, 712, 136365.	3.9	159
8	Phytochemicals containing biologically active polyphenols as an effective agent against Covid-19-inducing coronavirus. <i>Journal of Functional Foods</i> , 2020, 73, 104146.	1.6	117
9	Biosorption of copper(II) ions by flax meal: Empirical modeling and process optimization by response surface methodology (RSM) and artificial neural network (ANN) simulation. <i>Ecological Engineering</i> , 2015, 83, 364-379.	1.6	103
10	Removal of microelemental Cr(III) and Cu(II) by using soybean meal waste – Unusual isotherms and insights of binding mechanism. <i>Bioresource Technology</i> , 2013, 127, 350-357.	4.8	91
11	Potential environmental pollution from copper metallurgy and methods of management. <i>Environmental Research</i> , 2021, 197, 111050.	3.7	90
12	A transition from conventional irrigation to fertigation with reclaimed wastewater: Prospects and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109959.	8.2	83
13	Analysis of temperature-dependent biosorption of Cu <sup>2+</sup> ions on sunflower hulls: Kinetics, equilibrium and mechanism of the process. <i>Chemical Engineering Journal</i> , 2012, 192, 13-20.	6.6	75
14	The challenges and perspectives for anaerobic digestion of animal waste and fertilizer application of the digestate. <i>Chemosphere</i> , 2022, 295, 133799.	4.2	66
15	Progress in sustainable technologies of leather wastes valorization as solutions for the circular economy. <i>Journal of Cleaner Production</i> , 2021, 313, 127902.	4.6	64
16	Recovery of fertilizer nutrients from materials - Contradictions, mistakes and future trends. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 485-498.	8.2	61
17	Biofortification of edible plants with selenium and iodine – A systematic literature review. <i>Science of the Total Environment</i> , 2021, 754, 141983.	3.9	61
18	Efficiency of membrane-sorption integrated processes. <i>Journal of Membrane Science</i> , 2004, 239, 129-141.	4.1	56

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19	Analysis of influence of process conditions on kinetics of malachite green biosorption onto beech sawdust. <i>Chemical Engineering Journal</i> , 2011, 171, 976-985.	6.6	56
20	Biosorption of malachite green by eggshells: Mechanism identification and process optimization. <i>Bioresource Technology</i> , 2014, 160, 161-165.	4.8	48
21	Application of beech sawdust for removal of heavy metals from water: biosorption and desorption studies. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 227-236.	1.3	41
22	Antiviral Properties of Polyphenols from Plants. <i>Foods</i> , 2021, 10, 2277.	1.9	36
23	Immobilization of biosorbent in hydrogel as a new environmentally friendly fertilizer for micronutrients delivery. <i>Journal of Cleaner Production</i> , 2019, 241, 118387.	4.6	31
24	Encapsulation efficiency and survival of plant growth-promoting microorganisms in an alginate-based matrix – A systematic review and protocol for a practical approach. <i>Industrial Crops and Products</i> , 2022, 181, 114846.	2.5	29
25	Concentration of natural aroma compounds from fruit juice hydrolates by pervaporation in laboratory and semi-technical scale. Part 1. Base study. <i>Food Chemistry</i> , 2018, 258, 63-70.	4.2	25
26	Innovative high digestibility protein feed materials reducing environmental impact through improved nitrogen-use efficiency in sustainable agriculture. <i>Journal of Environmental Management</i> , 2021, 291, 112693.	3.8	25
27	Advances in biosorption of microelements – the starting point for the production of new agrochemicals. <i>Reviews in Inorganic Chemistry</i> , 2015, 35, 115-133.	1.8	21
28	Value-added strategies for the sustainable handling, disposal, or value-added use of copper smelter and refinery wastes. <i>Journal of Hazardous Materials</i> , 2021, 403, 123602.	6.5	21
29	Novel nanoparticles modified composite eco-adsorbents – A deep insight into kinetics modelling using numerical surface diffusion and artificial neural network models. <i>Chemical Engineering Research and Design</i> , 2016, 109, 1-17.	2.7	20
30	Preparation of antimicrobial 3D printing filament: In situ thermal formation of silver nanoparticles during the material extrusion. <i>Polymer Composites</i> , 2020, 41, 4692-4705.	2.3	20
31	Improvements in drying technologies - Efficient solutions for cleaner production with higher energy efficiency and reduced emission. <i>Journal of Cleaner Production</i> , 2021, 320, 128706.	4.6	20
32	Valorization of poultry slaughterhouse waste for fertilizer purposes as an alternative for thermal utilization methods. <i>Journal of Hazardous Materials</i> , 2022, 424, 127328.	6.5	19
33	New directions for agricultural wastes valorization as hydrogel biocomposite fertilizers. <i>Journal of Environmental Management</i> , 2021, 299, 113480.	3.8	18
34	Recent innovations in various methods of harmful gases conversion and its mechanism in poultry farms. <i>Environmental Research</i> , 2022, 214, 113825.	3.7	18
35	Biosorption of malachite green from aqueous solutions by pine sawdust: equilibrium, kinetics and the effect of process parameters. <i>Desalination and Water Treatment</i> , 2013, 51, 3284-3294.	1.0	17
36	Ultrafiltrative separation of rhamnolipid from culture medium. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 1961-1964.	1.7	16

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37	Tannery waste-derived biochar as a carrier of micronutrients essential to plants. <i>Chemosphere</i> , 2022, 294, 133720.	4.2	16
38	Mathematical modeling of sorption step in pervaporative aroma compounds recovery from the multicomponent solution. <i>Chemical Engineering Science</i> , 2015, 129, 78-90.	1.9	14
39	Removal of ammonium and orthophosphates from reject water generated during dewatering of digested sewage sludge in municipal wastewater treatment plant using adsorption and membrane contactor system. <i>Journal of Cleaner Production</i> , 2017, 161, 277-287.	4.6	14
40	Modelling and optimization of chromium(III) biosorption on soybean meal. <i>Open Chemistry</i> , 2013, 11, 1505-1517.	1.0	13
41	Valorization of bio-based post-extraction residues of goldenrod and alfalfa as energy pellets. <i>Energy</i> , 2020, 194, 116898.	4.5	13
42	Biodegradable hydrogel materials for water storage in agriculture - review of recent research. , 0, 194, 324-332.		13
43	Agricultural and non-agricultural directions of bio-based sewage sludge valorization by chemical conditioning. <i>Environmental Science and Pollution Research</i> , 2021, 28, 47725-47740.	2.7	12
44	Hydrogel Alginate Seed Coating as an Innovative Method for Delivering Nutrients at the Early Stages of Plant Growth. <i>Polymers</i> , 2021, 13, 4233.	2.0	12
45	Phosphorus recovery from wastewater and bio-based waste: an overview. <i>Bioengineered</i> , 2022, 13, 13474-13506.	1.4	12
46	Kinetics of VOC absorption using capillary membrane contactor. <i>Chemical Engineering Journal</i> , 2011, 168, 1016-1023.	6.6	11
47	Concentration of natural aroma compounds from fruit juice hydrolytes by pervaporation in laboratory and semi-technical scale. Part 2. Economic analysis. <i>Journal of Cleaner Production</i> , 2017, 165, 509-519.	4.6	10
48	Tannery waste as a renewable source of nitrogen for production of multicomponent fertilizers with biostimulating properties. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8759-8777.	2.7	10
49	From hazardous waste to fertilizer: Recovery of high-value metals from smelter slags. <i>Chemosphere</i> , 2022, 297, 134226.	4.2	8
50	Enrichment of Soybean Meal with Microelements during the Process of Biosorption in a Fixed-Bed Column. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8436-8443.	2.4	7
51	Production of dietary feed supplements enriched in microelements in a pilot plant biosorption system. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1089-1098.	1.8	7
52	KINETICS AND EQUILIBRIUM OF COPPER AND CHROMIUM IONS REMOVAL FROM AQUEOUS SOLUTIONS USING SAWDUST. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 2125-2135.	0.2	7
53	Biodegradation of pharmaceuticals in photobioreactors – a systematic literature review. <i>Bioengineered</i> , 2022, 13, 4537-4556.	1.4	7
54	Application of a membrane contactor for a simultaneous removal of p-cresol and Cr(III) ions from water solution. <i>Desalination</i> , 2009, 241, 91-96.	4.0	6

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55	Concentration of fruit juice aroma compound from model multicomponent solution and natural apple juice hydrolate: Optimization and modeling by design of experiment. <i>Journal of Food Process Engineering</i> , 2018, 41, e12669.	1.5	6
56	Removal of Cationic Dyes from Aqueous Solutions using Microspherical Particles of Fly Ash. <i>Water Environment Research</i> , 2012, 84, 162-170.	1.3	5
57	Valorization of post-extraction biomass residues as carriers of bioavailable micronutrients for plants and livestock. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 3037-3052.	2.9	5
58	Practical aspects of biowastes conversion to fertilizers. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1515-1533.	2.9	5
59	Sustainable method of phosphorus biowaste management to innovative biofertilizers: A solution for circular economy of the future. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 27, 100634.	1.6	5
60	Valorization of postextraction residues – analysis of the influence of new feed additives with micronutrients on eggs quality parameters. <i>Poultry Science</i> , 2021, 100, 101416.	1.5	4
61	Valorization of Biomass Residues by Biosorption of Microelements in a Closed-Loop Cycle. <i>Waste and Biomass Valorization</i> , 2022, 13, 1913-1929.	1.8	4
62	Agrochemicals in view of circular economy. , 2022, , 57-80.		3
63	Characteristic of aroma compounds recovery from binary and ternary (alcohol-ester-water) aqueous solutions with use of pervaporation. <i>Journal of Molecular Liquids</i> , 2018, 271, 756-768.	2.3	2
64	Granulation as the method of rational fertilizer application. , 2022, , 163-184.		1
65	Innovative uses of biochar derived from tannery waste as a soil amendment and fertilizer. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 7057-7073.	2.9	1
66	New micronutrient biocomponents based on blackcurrant seeds pomace – Bench-scale kinetic studies. <i>Energy and Environment</i> , 2021, 32, 1397-1413.	2.7	0
67	Technologia wytwarzania nawozów mikroelementowych na bazie lucerny i nawoŃci. <i>Przemysł Chemiczny</i> , 2018, 1, 166-170.	0.0	0
68	Nowe dodatki paszowe na bazie lucerny i nawoŃci wzbogacone w mikroelementy metod... biosorpcji. <i>Przemysł Chemiczny</i> , 2018, 1, 167-170.	0.0	0
69	Quality of tap water in an urban agglomeration: 2-years™ monitoring study in Wrocław, Poland. <i>Urban Water Journal</i> , 0, , 1-14.	1.0	0