

# Wojciech J PrzybyÅ,owicz

## List of Publications by Year in descending order

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43  
papers

1,115  
citations

361413

20  
h-index

395702

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of essential and non-essential element distribution in leaves of the Cd/Zn hyperaccumulator <i>Thlaspi praecox</i> as revealed by micro-PIXE. <i>Plant, Cell and Environment</i> , 2008, 31, 1484-1496.	5.7	114
2	X-ray elemental mapping techniques for elucidating the ecophysiology of hyperaccumulator plants. <i>New Phytologist</i> , 2018, 218, 432-452.	7.3	104
3	Spatial distribution of cadmium in leaves of metal hyperaccumulating <i>Thlaspi praecox</i> using micro-PIXE. <i>New Phytologist</i> , 2008, 179, 712-721.	7.3	91
4	Proton microprobe and X-ray fluorescence investigations of nickel distribution in serpentine flora from South Africa. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 89, 208-212.	1.4	68
5	Iron and ferritin accumulate in separate cellular locations in <i>Phaseolus</i> seeds. <i>BMC Plant Biology</i> , 2010, 10, 26.	3.6	67
6	Micro-PIXE in plant sciences: Present status and perspectives. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 189, 470-481.	1.4	65
7	Heavy metal distribution in <i>Suillus luteus</i> mycorrhizas as revealed by micro-PIXE analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2001, 181, 649-658.	1.4	46
8	Investigation of Ni hyperaccumulation by true elemental imaging. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1995, 104, 176-181.	1.4	44
9	Quantitative micro-PIXE comparison of elemental distribution in Ni-hyperaccumulating and non-accumulating genotypes of <i>Senecio coronatus</i> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 130, 368-373.	1.4	38
10	Functional analysis of metals distribution in organs of the beetle <i>Chrysolina pardalina</i> exposed to excess of nickel by Micro-PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 210, 343-348.	1.4	35
11	X-ray microanalysis of biological material in the frozen-hydrated state by PIXE. <i>Microscopy Research and Technique</i> , 2007, 70, 55-68.	2.2	35
12	In-vacuum micro-PIXE analysis of biological specimens in frozen-hydrated state. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 260, 141-148.	1.4	33
13	Zinc-induced DNA damage and the distribution of metals in the brain of grasshoppers by the comet assay and micro-PIXE. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006, 144, 242-251.	2.6	32
14	Freeze-substitution methods for Ni localization and quantitative analysis in <i>Berkheya coddii</i> leaves by means of PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 231, 338-344.	1.4	28
15	Micro-PIXE studies of elemental distribution in seeds of <i>Silene vulgaris</i> from a zinc dump in Olkusz, southern Poland. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1999, 158, 306-311.	1.4	23
16	Elemental distribution in lichens transplanted to polluted forest sites near Kraków (Poland). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 189, 499-505.	1.4	23
17	Elemental microanalysis in ecophysiology using ion microbeam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 219-220, 57-66.	1.4	23
18	Elemental distribution and chemical speciation of copper and cobalt in three metallophytes from the copper-cobalt belt in Northern Zambia. <i>Metallomics</i> , 2020, 12, 682-701.	2.4	23

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19	Tools for the Discovery of Hyperaccumulator Plant Species and Understanding Their Ecophysiology. <i>Mineral Resource Reviews</i> , 2018, , 117-133.	1.5	21
20	Nuclear microprobe studies of elemental distribution in seeds of <i>Biscutella laevigata</i> L. from zinc wastes in Olkusz, Poland. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2001, 181, 634-639.	1.4	20
21	True elemental imaging of pyrites from Witwatersrand reefs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1995, 104, 450-455.	1.4	18
22	Nuclear microprobe studies of elemental distributions in dormant seeds of <i>Burkea africana</i> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 130, 381-387.	1.4	18
23	Abnormal concentrations of Cu and Co in <i>Haumaniastrum katangense</i> , <i>Haumaniastrum robertii</i> and <i>Aeolanthus biformifolius</i> : contamination or hyperaccumulation?. <i>Metallomics</i> , 2019, 11, 586-596.	2.4	17
24	Micro-PIXE investigation of bean seeds to assist micronutrient biofortification. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2297-2302.	1.4	12
25	X-ray fluorescence elemental mapping of roots, stems and leaves of the nickel hyperaccumulators <i>Rinorea cf. bengalensis</i> and <i>Rinorea cf. javanica</i> (Violaceae) from Sabah (Malaysia), Borneo. <i>Plant and Soil</i> , 2020, 448, 15-36.	3.7	11
26	Micro-PIXE analysis: importance of biological sample preparation techniques. <i>Radiation Physics and Chemistry</i> , 2004, 71, 785-786.	2.8	10
27	Quantitative mapping of elemental distribution in leaves of the metallophytes <i>Helichrysum candolleum</i> , <i>Blepharis aspera</i> , and <i>Blepharis diversispina</i> from Selkirk Cu-Ni mine, Botswana. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 363, 188-193.	1.4	10
28	Endosperm prevents toxic amounts of Zn from accumulating in the seed embryo – an adaptation to metalliferous sites in metal-tolerant <i>Biscutella laevigata</i> . <i>Metallomics</i> , 2020, 12, 42-53.	2.4	9
29	Environmental pollution monitoring using lichens as bioindicators: a micro-PIXE study. <i>Radiation Physics and Chemistry</i> , 2004, 71, 783-784.	2.8	8
30	Mycorrhizal fungi modify element distribution in gametophytes and sporophytes of a fern <i>Pellaea viridis</i> from metalliferous soils. <i>Chemosphere</i> , 2013, 92, 1267-1273.	8.2	8
31	Elemental distribution patterns in the skins of false killer whales ( <i>Pseudorca crassidens</i> ) from a mass stranding in South Africa, analysed using micro-PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 363, 70-74.	1.4	7
32	Mineralizing fluids of the supergene-enriched Mashitu South Cu-Co deposit, Katanga Copperbelt, DRC. <i>Ore Geology Reviews</i> , 2019, 109, 201-228.	2.7	7
33	Co-Localization of Copper, Zinc and Lead with Calcium in Their Accumulation Sites in the Housefly's Abdomen by Micro-PIXE. <i>Mikrochimica Acta</i> , 2006, 155, 301-304.	5.0	6
34	Stopping power of Nd, Pm and Sm ions in Cd determined with -ray lineshape analysis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 607, 591-599.	1.6	6
35	Zinc allocation to and within <i>Arabidopsis halleri</i> seeds: Different strategies of metal homeostasis in accessions under divergent selection pressure. <i>Plant-Environment Interactions</i> , 2020, 1, 207-220.	1.5	5
36	Ecophysiology of nickel hyperaccumulating plants from South Africa – from ultramafic soil and mycorrhiza to plants and insects. <i>Metallomics</i> , 2020, 12, 1018-1035.	2.4	5

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37	Multimodal synchrotron X-ray fluorescence imaging reveals elemental distribution in seeds and seedlings of the Zn–Cd–Ni hyperaccumulator <i>Noccaea caerulescens</i> . <i>Metallomics</i> , 2022, 14, .	2.4	5
38	Methods for Visualizing Elemental Distribution in Hyperaccumulator Plants. <i>Mineral Resource Reviews</i> , 2021, , 197-214.	1.5	4
39	Micro-PIXE characterisation of uranium occurrence in the coal zones and the mudstones of the Springbok Flats Basin, South Africa. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 404, 114-120.	1.4	3
40	Convergent patterns of tissue-level distribution of elements in different tropical woody nickel hyperaccumulator species from Borneo Island. <i>AoB PLANTS</i> , 2020, 12, plaa058.	2.3	3
41	Aspects of Chemical Composition of Exodermal Cell Walls in Roots of Ni-Hyperaccumulating and Non-Hyperaccumulating Genotypes of <i>Senecio coronatus</i> . <i>Microscopy and Microanalysis</i> , 2014, 20, 1276-1277.	0.4	1
42	Geological Studies by Means of Proton Microbeam System. <i>Acta Physica Polonica A</i> , 2001, 100, 679-686.	0.5	0
43	Contrasting patterns of nickel distribution in the hyperaccumulators <i>Phyllanthus balgooyi</i> and <i>Phyllanthus rufuschaneyi</i> from Malaysian Borneo. <i>Metallomics</i> , 2022, 14, .	2.4	0