

Beata Gutarowska

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

2,152
citations

236925

25
h-index

330143

37
g-index

116
all docs

116
docs citations

116
times ranked

2236
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomic and high-throughput sequencing analysisâ€”modern approach for the assessment of biodeterioration of materials from historic buildings. <i>Frontiers in Microbiology</i> , 2015, 6, 979.	3.5	86
2	Analysis of the sensitivity of microorganisms contaminating museums and archives to silver nanoparticles. <i>International Biodeterioration and Biodegradation</i> , 2012, 68, 7-17.	3.9	71
3	Assessment of microbiological contamination in the work environments of museums, archives and libraries. <i>Aerobiologia</i> , 2015, 31, 389-401.	1.7	71
4	Evaluation of Microbiological and Chemical Contaminants in Poultry Farms. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 192.	2.6	64
5	Methods of mycological analysis in buildings. <i>Building and Environment</i> , 2007, 42, 1843-1850.	6.9	61
6	First evaluation of the microbiome of built cultural heritage by using the Ion Torrent next generation sequencing platform. <i>International Biodeterioration and Biodegradation</i> , 2018, 131, 11-18.	3.9	61
7	Comparison of methods for identification of microbial communities in book collections: Culture-dependent (sequencing and MALDI-TOF MS) and culture-independent (Illumina MiSeq). <i>International Biodeterioration and Biodegradation</i> , 2018, 131, 51-59.	3.9	57
8	Historical textiles â€” a review of microbial deterioration analysis and disinfection methods. <i>Textile Reseach Journal</i> , 2017, 87, 2388-2406.	2.2	48
9	Elaboration and application of mathematical model for estimation of mould contamination of some building materials based on ergosterol content determination. <i>International Biodeterioration and Biodegradation</i> , 2002, 49, 299-305.	3.9	47
10	Application of molecular techniques for the assessment of microorganism diversity on cultural heritage objects.. <i>Acta Biochimica Polonica</i> , 2014, 61, .	0.5	46
11	Metabolic Activity of Moulds as a Factor of Building Materials Biodegradation. <i>Polish Journal of Microbiology</i> , 2010, 59, 119-124.	1.7	44
12	Influence of silver nanoparticles on metabolism and toxicity of moulds. <i>Acta Biochimica Polonica</i> , 2015, 62, 851-857.	0.5	42
13	The ability of filamentous fungi to produce acids on indoor building materials. <i>Annals of Microbiology</i> , 2009, 59, 807-813.	2.6	40
14	Effects of gamma radiation on the mechanical properties of and susceptibility to biodegradation of natural fibers. <i>Textile Reseach Journal</i> , 2013, 83, 44-55.	2.2	36
15	Electrospun polyacrylonitrile nanofibers modified by quaternary ammonium salts. <i>Journal of Applied Polymer Science</i> , 2013, 128, 767-775.	2.6	35
16	Removal of odorous compounds from poultry manure by microorganisms on perlite â€” bentonite carrier. <i>Journal of Environmental Management</i> , 2014, 141, 70-76.	7.8	35
17	Evaluation of the Survivability of Microorganisms Deposited on Filtering Respiratory Protective Devices under Varying Conditions of Humidity. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 98.	2.6	35
18	The use of <i>Yucca schidigera</i> and microbial preparation for poultry manure deodorization and hygienization. <i>Journal of Environmental Management</i> , 2016, 170, 50-59.	7.8	34

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19	Assessment of microbial contamination within working environments of different types of composting plants. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 466-478.	1.9	33
20	Disinfection of archival documents using thyme essential oil, silver nanoparticles misting and low temperature plasma. <i>Journal of Cultural Heritage</i> , 2017, 24, 69-77.	3.3	33
21	Colonising organisms as a biodegradation factor affecting historical wood materials at the former concentration camp of Auschwitz II " Birkenau. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 171-178.	3.9	31
22	Mathematical models of mycelium growth and ergosterol synthesis in stationary mould culture. <i>Letters in Applied Microbiology</i> , 2009, 48, 605-610.	2.2	28
23	Assessment of biological colonization of historic buildings in the former Auschwitz II-Birkenau concentration camp. <i>Annals of Microbiology</i> , 2014, 64, 799-808.	2.6	26
24	Diversity of an aerial phototrophic coating of historic buildings in the former Auschwitz II-Birkenau concentration camp. <i>Science of the Total Environment</i> , 2014, 493, 116-123.	8.0	26
25	An airborne actinobacteria <i>Nocardiopsis alba</i> isolated from bioaerosol of a mushroom compost facility. <i>Aerobiologia</i> , 2014, 30, 413-422.	1.7	25
26	Odour reducing microbial-mineral additive for poultry manure treatment. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	25
27	Analysis of paper foxing by newly available omics techniques. <i>International Biodeterioration and Biodegradation</i> , 2018, 132, 157-165.	3.9	25
28	Abiotic Determinants of the Historical Buildings Biodeterioration in the Former Auschwitz II " Birkenau Concentration and Extermination Camp. <i>PLoS ONE</i> , 2014, 9, e109402.	2.5	24
29	Optimization and application of the misting method with silver nanoparticles for disinfection of the historical objects. <i>International Biodeterioration and Biodegradation</i> , 2012, 75, 167-175.	3.9	23
30	Untargeted Metabolomics Approach in Halophiles: Understanding the Biodeterioration Process of Building Materials. <i>Frontiers in Microbiology</i> , 2017, 8, 2448.	3.5	23
31	Antimicrobial properties of silver nanoparticles misting on cotton fabrics. <i>Textile Reseach Journal</i> , 2016, 86, 812-822.	2.2	22
32	High-Density Polyethylene Composites Filled with Nanosilica Containing Immobilized Nanosilver or Nanocopper: Thermal, Mechanical, and Bactericidal Properties and Morphology and Interphase Characterization. <i>International Journal of Polymer Science</i> , 2014, 2014, 1-13.	2.7	21
33	Quaternary ammonium biocides as antimicrobial agents protecting historical wood and brick.. <i>Acta Biochimica Polonica</i> , 2016, 63, 153-159.	0.5	21
34	Application of <i>Cinnamomum zeylanicum</i> essential oil in vapour phase for heritage textiles disinfection. <i>International Biodeterioration and Biodegradation</i> , 2018, 131, 88-96.	3.9	21
35	Application of Silver Nanoparticles for Disinfection of Materials to Protect Historical Objects. <i>Current Nanoscience</i> , 2014, 10, 277-286.	1.2	21
36	A novel microbial-mineral preparation for the removal of offensive odors from poultry manure. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 299-308.	3.9	20

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37	Microbial diversity of pre-Columbian archaeological textiles and the effect of silver nanoparticles misting disinfection. <i>Journal of Cultural Heritage</i> , 2017, 23, 138-147.	3.3	20
38	Silver nanoparticles: a mechanism of action on moulds. <i>Metallomics</i> , 2016, 8, 1294-1302.	2.4	19
39	Beeswax-Modified Textiles: Method of Preparation and Assessment of Antimicrobial Properties. <i>Polymers</i> , 2020, 12, 344.	4.5	19
40	Towards understanding the link between the deterioration of building materials and the nature of aerophytic green algae. <i>Science of the Total Environment</i> , 2022, 802, 149856.	8.0	19
41	Microbial Degradation of Woven Fabrics and Protection Against Biodegradation. , 0, , .		18
42	Estimation of fungal contamination and mycotoxin production at workplaces in composting plants, tanneries, archives and libraries. <i>World Mycotoxin Journal</i> , 2014, 7, 345-355.	1.4	18
43	Low temperature plasma for textiles disinfection. <i>International Biodeterioration and Biodegradation</i> , 2018, 131, 97-106.	3.9	18
44	Dust at Various Workplacesâ€™ Microbiological and Toxicological Threats. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 877.	2.6	18
45	New Sulfur Organic Polymer-Concrete Composites Containing Waste Materials: Mechanical Characteristics and Resistance to Biocorrosion. <i>Materials</i> , 2019, 12, 2602.	2.9	18
46	Antimicrobial activity of textiles with selected dyes and finishing agents used in the textile industry. <i>Fibers and Polymers</i> , 2013, 14, 415-422.	2.1	17
47	Production of the Allergenic Protein Alt a 1 by <i>Alternaria</i> Isolates from Working Environments. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 2164-2183.	2.6	17
48	Protection of Historical Wood against Microbial Degradationâ€™ Selection and Application of Microbiocides. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1364.	4.1	17
49	New Filtering Antimicrobial Nonwovens With Various Carriers for Biocides as Respiratory Protective Materials Against Bioaerosol. <i>International Journal of Occupational Safety and Ergonomics</i> , 2012, 18, 375-385.	1.9	16
50	Interactions between fungi of standard paint test method BS3900. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 411-418.	3.9	16
51	Cytotoxicity of Odorous Compounds from Poultry Manure. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1046.	2.6	16
52	THE EVALUATION OF MICROBIAL CONTAMINATION IN THE WORKING ENVIRONMENT OF TANNERIES. <i>Medycyna Pracy</i> , 2014, 65, 15-32.	0.8	16
53	Time-Dependent Antimicrobial Activity of Filtering Nonwovens with Gemini Surfactant-Based Biocides. <i>Molecules</i> , 2017, 22, 1620.	3.8	15
54	Analyses of microorganisms and metabolites diversity on historic photographs using innovative methods. <i>Journal of Cultural Heritage</i> , 2020, 45, 101-113.	3.3	15

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55	Clone-based comparative sequence analysis of 16S rRNA genes retrieved from biodeteriorating brick buildings of the former Auschwitz II "Birkenau" concentration and extermination camp. <i>Systematic and Applied Microbiology</i> , 2015, 38, 48-55.	2.8	14
56	Metabolic activity of moulds as a factor of building materials biodegradation. <i>Polish Journal of Microbiology</i> , 2010, 59, 119-24.	1.7	14
57	Estimation of fungal contamination of various plant materials with UV-determination of fungal ergosterol. <i>Annals of Microbiology</i> , 2010, 60, 415-422.	2.6	13
58	Halophilic microbial communities in deteriorated buildings. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1489-1499.	3.6	13
59	Optimization of a Culture Medium Using the Taguchi Approach for the Production of Microorganisms Active in Odorous Compound Removal. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 756.	2.5	13
60	Odorous Compounds from Poultry Manure Induce DNA Damage, Nuclear Changes, and Decrease Cell Membrane Integrity in Chicken Liver Hepatocellular Carcinoma Cells. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 933.	2.6	13
61	Survival of Microorganisms on Nonwovens Used for the Construction of Filtering Facepiece Respirators. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1154.	2.6	13
62	Antimicrobial Activities of Plant Extracts against <i>Solanum tuberosum</i> L. Phytopathogens. <i>Molecules</i> , 2022, 27, 1579.	3.8	13
63	Toxinogenicity and cytotoxicity of <i>Alternaria</i> , <i>Aspergillus</i> and <i>Penicillium</i> moulds isolated from working environments. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 595-608.	3.5	12
64	Microbiological Contamination at Workplaces in a Combined Heat and Power (CHP) Station Processing Plant Biomass. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 99.	2.6	12
65	Microbiological and Toxicological Hazards in Sewage Treatment Plant Bioaerosol and Dust. <i>Toxins</i> , 2021, 13, 691.	3.4	12
66	Environmental parameters conditioning microbially induced mineralization under the experimental model conditions.. <i>Acta Biochimica Polonica</i> , 2016, 63, 343-51.	0.5	12
67	Microbiological and toxicological hazard assessment in a waste sorting plant and proper respiratory protection. <i>Journal of Environmental Management</i> , 2022, 303, 114257.	7.8	12
68	Is the risk of allergic hypersensitivity to fungi increased by indoor exposure to moulds?. <i>International Journal of Occupational Medicine and Environmental Health</i> , 2009, 22, 343-54.	1.3	11
69	Aspects of Tests and Assessment of Filtering Materials Used for Respiratory Protection Against Bioaerosols. Part II: Sweat in the Environment, Microorganisms in the Form of a Bioaerosol. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 275-280.	1.9	11
70	Moulds in biodeterioration of technical materials. <i>Acta Universitatis Lodzianis Folia Biologica Et Oecologica</i> , 2014, 10, 27-39.	1.0	11
71	Metabolome profiles of moulds on carton-gypsum board and malt extract agar medium obtained using an AuNPET SALDI-ToF-MS method. <i>International Biodeterioration and Biodegradation</i> , 2017, 125, 13-23.	3.9	11
72	Metabolic profiling of moulds with laser desorption/ionization mass spectrometry on gold nanoparticle enhanced target. <i>Analytical Biochemistry</i> , 2018, 549, 45-52.	2.4	11

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73	Microbial Growth on Dust-Loaded Filtering Materials Used for the Protection of Respiratory Tract as a Factor Affecting Filtration Efficiency. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1902.	2.6	11
74	Metabolomics and metagenomics characteristic of historic beeswax seals. <i>International Biodeterioration and Biodegradation</i> , 2020, 152, 105012.	3.9	11
75	Aspects of Tests and Assessment of Filtering Materials Used for Respiratory Protection Against Bioaerosols. Part I: Type of Active Substance, Contact Time, Microorganism Species. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 263-273.	1.9	10
76	The impact of dust in filter materials of respiratory protective devices on the microorganisms viability. <i>International Journal of Industrial Ergonomics</i> , 2017, 58, 109-116.	2.6	10
77	An In Vitro Study of Antibacterial Properties of Electrospun Hypericum perforatum Oil-Loaded Poly(lactic Acid) Nonwovens for Potential Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8219.	2.5	10
78	New bioactive polymer filtering material composed of nonwoven polypropylene containing alkylammonium microbiocides on a perlite carrier. <i>Polimery</i> , 2010, 55, 568-574.	0.7	10
79	Application of molecular techniques for the assessment of microorganism diversity on cultural heritage objects. <i>Acta Biochimica Polonica</i> , 2014, 61, 217-25.	0.5	10
80	An Investigation of Allergenic Proteins Produced by Moulds on Building Materials. <i>Indoor and Built Environment</i> , 2012, 21, 253-263.	2.8	9
81	Evaluation of ergosterol content in the air of various environments. <i>Aerobiologia</i> , 2015, 31, 33-44.	1.7	9
82	Factors Influencing Microbiological Biodiversity of Human Foot Skin. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3503.	2.6	9
83	Antimicrobial properties of silver nanoparticles against biofilm formation by <i>Pseudomonas aeruginosa</i> on archaeological textiles. <i>Applied Environmental Biotechnology</i> , 2016, 1, 1.	2.4	9
84	Volatile Organic Compounds and Physiological Parameters as Markers of Potato (<i>Solanum tuberosum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.8	9
85	Influence of the silver nanoparticles on microbial community in different environments. <i>Acta Biochimica Polonica</i> , 2015, 62, 721-724.	0.5	8
86	Factors Determining the Biodiversity of Halophilic Microorganisms on Historic Masonry Buildings. <i>Microbes and Environments</i> , 2017, 32, 164-173.	1.6	8
87	Extreme Colonizers and Rapid Profiteers: The Challenging World of Microorganisms That Attack Paper and Parchment. , 2021, , 79-113.		8
88	The Influence of the Mineral-Microbial Preparation on Ammonia Concentration and Productivity in Laying Hens Houses. <i>Atmosphere</i> , 2019, 10, 751.	2.3	7
89	The effect of ethylene oxide and silver nanoparticles on photographic models in the context of disinfection of photo albums. <i>Journal of Cultural Heritage</i> , 2021, 51, 59-70.	3.3	7
90	Assessment of exposure to fungi in the heavily contaminated work environment (a solid waste) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 <i>Environmental Health</i> , 2015, 28, 813-821.	1.3	7

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91	Halophilic microorganisms in deteriorated historic buildings: insights into their characteristics.. Acta Biochimica Polonica, 2016, 63, 335-41.	0.5	7
92	PLA nonwovens modified with poly(dimethylaminoethyl methacrylate) as antimicrobial filter materials for workplaces. Textile Research Journal, 2015, 85, 1083-1094.	2.2	6
93	Long-Lasting Photocatalytic and Antimicrobial Activity of Cotton Towels Modified with TiO ₂ and ZnO Nanoparticles. Catalysts, 2021, 11, 952.	3.5	6
94	Impact of a microbial-mineral biopreparation on microbial community and deodorization of manures. Acta Biochimica Polonica, 2015, 62, 791-798.	0.5	5
95	Application of Biocides and Super-Absorbing Polymers to Enhance the Efficiency of Filtering Materials. Molecules, 2019, 24, 3339.	3.8	5
96	Multistep approach to control microbial fouling of historic building materials by aerial phototrophs. Biofouling, 2019, 35, 284-298.	2.2	5
97	Metabolomics and metagenomics analysis of 18th century archaeological silk. International Biodeterioration and Biodegradation, 2021, 156, 105120.	3.9	5
98	Interactions of fungi with titanium dioxide from paint coating. Indoor and Built Environment, 2018, 27, 263-269.	2.8	4
99	Cotton Terry Textiles with Photo- and Bio-Activity in a Model Study and Real Conditions. Materials, 2020, 13, 3334.	2.9	3
100	The Effectiveness of Photocatalytic Ionisation Disinfection of Filter Materials. Polish Journal of Microbiology, 2013, 62, 131-139.	1.7	3
101	Survival of Microorganisms on Filtering Respiratory Protective Devices Used at Agricultural Facilities. International Journal of Environmental Research and Public Health, 2019, 16, 2819.	2.6	2
102	The Influence of the Mineral "Microbial Deodorizing Preparation on Ammonia Emission and Growth Performance in Turkey Production. Atmosphere, 2020, 11, 743.	2.3	2
103	Effect of Silica Containing Immobilized Nanosilver on the Structure and Selected Properties of Wood-Filled High-Density Polyethylene Composites. Journal of Biobased Materials and Bioenergy, 2012, 6, 370-379.	0.3	2
104	Analysis of the usefulness of adenosine triphosphate (ATP) determination and fluorescence microscopy methods for the evaluation of the viability and adhesion of bacteria on the surface of bioactive polymers. Polimery, 2012, 57, 236-245.	0.7	1
105	Efficiency study of bioactive porous structures with time-dependent activity in filtering melt-blown nonwovens Badanie skuteczności porowatych struktur bioaktywnych z funkcją... czasowej aktywacji we włókninach filtracyjnych melt-blown. Przemysł Chemiczny, 2017, 1, 64-68.	0.0	1
106	Novel Microorganisms Resistant HDPE Composites with Wood Fiber and Nanosilica Containing Immobilized Nanosilver. Macromolecular Symposia, 2012, 321-322, 105-111.	0.7	0
107	Monitoring Bioadhesion and Biofilm Formation Within Biopits in Archaeological Potsherds by Microscopic Techniques. Microscopy and Microanalysis, 2020, 26, 109-110.	0.4	0
108	Application of Olfactometry to Assess the Anti-Odor Properties of Filtering Facepiece Respirators Containing Activated Carbon Nonwovens. International Journal of Environmental Research and Public Health, 2021, 18, 8157.	2.6	0

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109	Concept for Development of Expert Computer Program for Identification of Filamentous Fungi. Polish Journal of Microbiology, 2012, 61, 169-181.	1.7	0
110	Exposure to moulds in flats and the prevalence of allergic diseases--preliminary study. Polish Journal of Microbiology, 2005, 54 Suppl, 13-20.	1.7	0
111	Concept for Development of Expert Computer Program for Identification of Filamentous Fungi. Polish Journal of Microbiology, 2012, 61, 169-181.	1.7	0
112	Halophilic microorganisms in deteriorated historic buildings: insights into their characteristics. Acta Biochimica Polonica, 0, , .	0.5	0