

Katerina Demnerova

List of Publications by Year in descending order

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116
papers

3,758
citations

172457

29
h-index

144013

57
g-index

119
all docs

119
docs citations

119
times ranked

4992
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging pollutants in the environment: present and future challenges in biomonitoring, ecological risks and bioremediation. <i>New Biotechnology</i> , 2015, 32, 147-156.	4.4	850
2	Novel roles for genetically modified plants in environmental protection. <i>Trends in Biotechnology</i> , 2008, 26, 146-152.	9.3	172
3	Cadmium induces DNA damage in tobacco roots, but no DNA damage, somatic mutations or homologous recombination in tobacco leaves. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 559, 49-57.	1.7	150
4	Biphenyl-Metabolizing Bacteria in the Rhizosphere of Horseradish and Bulk Soil Contaminated by Polychlorinated Biphenyls as Revealed by Stable Isotope Probing. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6471-6477.	3.1	102
5	Toxicity and DNA damage in tobacco and potato plants growing on soil polluted with heavy metals. <i>Ecotoxicology and Environmental Safety</i> , 2006, 65, 420-426.	6.0	97
6	Aerobic biodegradation of selected polybrominated diphenyl ethers (PBDEs) in wastewater sewage sludge. <i>Chemosphere</i> , 2015, 118, 315-321.	8.2	81
7	Phyto/rhizoremediation studies using long-term PCB-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2009, 16, 817-829.	5.3	76
8	Absorption and translocation of polybrominated diphenyl ethers (PBDEs) by plants from contaminated sewage sludge. <i>Chemosphere</i> , 2010, 81, 381-386.	8.2	76
9	Biodegradation of polychlorinated biphenyls by plant cells. <i>International Biodeterioration and Biodegradation</i> , 1997, 39, 317-325.	3.9	75
10	<i>Staphylococcus aureus</i> mobile genetic elements. <i>Molecular Biology Reports</i> , 2014, 41, 5005-5018.	2.3	71
11	Biotransformation of PCBs by plants and bacteria – consequences of plant-microbe interactions. <i>European Journal of Soil Biology</i> , 2007, 43, 233-241.	3.2	67
12	Importance of microbial defence systems to bile salts and mechanisms of serum cholesterol reduction. <i>Biotechnology Advances</i> , 2018, 36, 682-690.	11.7	67
13	Impact of normalization method on experimental outcome using RT-qPCR in <i>Staphylococcus aureus</i> . <i>Journal of Microbiological Methods</i> , 2012, 90, 214-216.	1.6	64
14	Title is missing!. <i>Plant and Soil</i> , 2000, 225, 109-115.	3.7	62
15	Isolation and characterization of different plant associated bacteria and their potential to degrade polychlorinated biphenyls. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 667-672.	3.9	57
16	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
17	Two approaches to biological decontamination of groundwater and soil polluted by aromatics-characterization of microbial populations. <i>International Microbiology</i> , 2005, 8, 205-11.	2.4	57
18	Encapsulation of Microbial Cells into Silica Gel. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 283-287.	2.4	55

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19	Degradation of polychlorinated biphenyls by hairy root culture of <i>Solanum nigrum</i> . <i>Biotechnology Letters</i> , 1997, 19, 787-790.	2.2	52
20	Adhesion, Biofilm Formation, and Genomic Features of <i>Campylobacter jejuni</i> Bf, an Atypical Strain Able to Grow under Aerobic Conditions. <i>Frontiers in Microbiology</i> , 2016, 7, 1002.	3.5	52
21	Transformation of raw feather waste into digestible peptides and amino acids. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1629-1637.	3.2	50
22	Influence of food processing environments on structure initiation of static biofilm of <i>Listeria monocytogenes</i> . <i>Food Control</i> , 2014, 35, 366-372.	5.5	47
23	Characterizing Biochar as Alternative Sorbent for Oil Spill Remediation. <i>Scientific Reports</i> , 2017, 7, 43912.	3.3	46
24	Dynamics of brominated flame retardants removal in contaminated wastewater sewage sludge under anaerobic conditions. <i>Science of the Total Environment</i> , 2015, 533, 439-445.	8.0	44
25	Resveratrol, pterostilbene, and baicalein: plant-derived anti-biofilm agents. <i>Folia Microbiologica</i> , 2018, 63, 261-272.	2.3	42
26	Linking toxicity profiles to pollutants in sludge and sediments. <i>Journal of Hazardous Materials</i> , 2017, 321, 672-680.	12.4	34
27	Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. <i>Journal of Cultural Heritage</i> , 2022, 55, 245-260.	3.3	34
28	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
29	Detection, identification and quantification of <i>Campylobacter jejuni</i> , coli and lari in food matrices all at once using multiplex qPCR. <i>Gut Pathogens</i> , 2014, 6, 12.	3.4	32
30	Organochlorinated pesticide degrading microorganisms isolated from contaminated soil. <i>New Biotechnology</i> , 2015, 32, 26-31.	4.4	32
31	PCB metabolism by <i>Pseudomonas</i> sp. P2. <i>International Biodeterioration and Biodegradation</i> , 2002, 50, 47-54.	3.9	29
32	Monitoring toxicity, DNA damage, and somatic mutations in tobacco plants growing in soil heavily polluted with polychlorinated biphenyls. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 629, 1-6.	1.7	29
33	Expression and production of staphylococcal enterotoxin C is substantially reduced in milk. <i>Food Microbiology</i> , 2014, 44, 54-59.	4.2	29
34	Substrate specificity, regioselectivity and hydrolytic activity of lipases activated from <i>Geotrichum</i> sp.. <i>Biochemical Engineering Journal</i> , 2007, 34, 209-216.	3.6	28
35	Bacterial Biofilms on Polyamide Nanofibers: Factors Influencing Biofilm Formation and Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2277-2288.	8.0	28
36	Correlation of PCB Transformation by Plant Tissue Cultures with Their Morphology and Peroxidase Activity Changes. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1497-1509.	1.0	27

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37	<i>Pseudomonas</i> C12B, an SDS degrading strain, harbours a plasmid coding for degradation of medium chain length n-alkanes. <i>International Biodeterioration and Biodegradation</i> , 1998, 42, 221-228.	3.9	26
38	Enantioselective properties of induced lipases from <i>Geotrichum</i> . <i>Enzyme and Microbial Technology</i> , 2005, 37, 481-486.	3.2	26
39	Bacterial Biotransformation of Pentachlorophenol and Micropollutants Formed during Its Production Process. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1146.	2.6	25
40	Bioremediation of chlorophenol-contaminated sawmill soil using pilot-scale bioreactors under consecutive anaerobic-aerobic conditions. <i>Chemosphere</i> , 2019, 227, 670-680.	8.2	25
41	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1565-1570.	2.2	24
42	Molecular analysis of <i>Staphylococcus aureus</i> pathogenicity islands (SaPI) and their superantigens combination of food samples. <i>Journal of Microbiological Methods</i> , 2014, 107, 197-204.	1.6	24
43	In Vivo Activities of Recombinant Divercin V41 and Its Structural Variants against <i>Listeria monocytogenes</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 563-564.	3.2	23
44	Surface adhesins and exopolymers of selected foodborne pathogens. <i>Microbiology (United Kingdom)</i> , 2014, 160, 2561-2582.	1.8	23
45	Remediation of contaminated soils by thermal desorption; effect of benzoyl peroxide addition. <i>Journal of Cleaner Production</i> , 2016, 125, 309-313.	9.3	23
46	Detection of some phenotypic and genotypic characteristics of <i>Staphylococcus aureus</i> isolated from food items in the Czech Republic. <i>Annals of Microbiology</i> , 2014, 64, 1587-1596.	2.6	21
47	Diversity and phylogenetic composition of bacterial communities and their association with anthropogenic pollutants in sewage sludge. <i>Chemosphere</i> , 2020, 238, 124629.	8.2	21
48	Impact of various killing methods on EMA/PMA-qPCR efficacy. <i>Food Control</i> , 2018, 85, 23-28.	5.5	20
49	Decolorization of RBBR by plant cells and correlation with the transformation of PCBs. <i>Chemosphere</i> , 2002, 49, 739-748.	8.2	19
50	Study of Cytotoxic Effects of Benzonitrile Pesticides. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	19
51	Antimicrobial Properties of Palladium and Platinum Nanoparticles: A New Tool for Combating Food-Borne Pathogens. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7892.	4.1	19
52	Bacterial community structure in treated sewage sludge with mesophilic and thermophilic anaerobic digestion. <i>Folia Microbiologica</i> , 2015, 60, 531-539.	2.3	18
53	Phytoremediation of Polychlorinated Biphenyls. , 2006, , 143-167.		18
54	Genome Editing with Engineered Nucleases in Economically Important Animals and Plants: State of the Art in the Research Pipeline. <i>Current Issues in Molecular Biology</i> , 2017, 21, 41-62.	2.4	18

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55	Some Aspects of PCB Metabolism by Horseradish Cells. <i>International Journal of Phytoremediation</i> , 2001, 3, 401-414.	3.1	17
56	Microbial Communities in Soils and Endosphere of <i>Solanum tuberosum</i> L. and their Response to Long-Term Fertilization. <i>Microorganisms</i> , 2020, 8, 1377.	3.6	17
57	Lipase-mediated hydrolysis of blackcurrant oil. <i>Enzyme and Microbial Technology</i> , 2000, 27, 531-536.	3.2	16
58	Cloning the bacterial <i>bphC</i> gene into <i>Nicotiana tabacum</i> to improve the efficiency of phytoremediation of polychlorinated biphenyls. <i>Bioengineered Bugs</i> , 2010, 1, 419-423.	1.7	16
59	Production of staphylococcal enterotoxin C in milk. <i>International Dairy Journal</i> , 2013, 30, 103-107.	3.0	16
60	Bacterial Degradation of Polychlorinated Biphenyls. , 2010, , 347-366.		16
61	Insights into Structure-Activity Relationships in the C-Terminal Region of Divercin V41, a Class IIa Bacteriocin with High-Level Antilisterial Activity. <i>Applied and Environmental Microbiology</i> , 2009, 75, 1811-1819.	3.1	14
62	Fermentation of <i>Candida utilis</i> for uricase production. <i>Journal of Industrial Microbiology</i> , 1990, 6, 85-89.	0.9	13
63	Use of sodium dodecyl sulphate for stimulation of biodegradation of n-alkanes without residual contamination by the surfactant. <i>International Biodeterioration and Biodegradation</i> , 2000, 45, 27-33.	3.9	13
64	Synthesis of chiral cycloalkanols using yeast whole cell bioreactors. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1325-1330.	1.8	13
65	Waste products from the poultry industry: a source of high-value dietary supplements. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 985-992.	3.2	13
66	Introduction of Green Plants for the Control of Metals and Organics in Environmental Remediation. , 1998, , 71-84.		13
67	Advances in Phytoremediation and Rhizoremediation. <i>Soil Biology</i> , 2009, , 257-277.	0.8	12
68	Differences in transcription and expression of staphylococcal enterotoxin C in processed meat products. <i>LWT - Food Science and Technology</i> , 2015, 64, 578-585.	5.2	12
69	The effect of gold and silver nanoparticles, chitosan and their combinations on bacterial biofilms of food-borne pathogens. <i>Biofouling</i> , 2020, 36, 222-233.	2.2	12
70	Bacteria Degrading PCBs and CBs Isolated from Long-Term PCB Contaminated Soil. <i>Water, Air and Soil Pollution</i> , 2003, 3, 47-55.	0.8	11
71	Sediment-free anaerobic microbial enrichments with novel dechlorinating activity against highly chlorinated commercial PCBs. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1254-1262.	3.2	11
72	Transcriptomic and metabolic responses of <i>Staphylococcus aureus</i> in mixed culture with <i>Lactobacillus plantarum</i> , <i>Streptococcus thermophilus</i> and <i>Enterococcus durans</i> in milk. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1237-1247.	3.0	11

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73	Decorative Magnolia Plants: A Comparison of the Content of Their Biologically Active Components Showing Antimicrobial Effects. <i>Plants</i> , 2020, 9, 879.	3.5	11
74	Metabolomic Strategies Based on High-Resolution Mass Spectrometry as a Tool for Recognition of GMO (MON 89788 Variety) and Non-GMO Soybean: a Critical Assessment of Two Complementary Methods. <i>Food Analytical Methods</i> , 2017, 10, 3723-3737.	2.6	11
75	Molecules Autoinducer 2 and cjA and Their Impact on Gene Expression in <i>Campylobacter jejuni</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2018, 28, 207-215.	1.0	10
76	Authentication of Meat and Meat Products Using Triacylglycerols Profiling and by DNA Analysis. <i>Foods</i> , 2020, 9, 1269.	4.3	10
77	Application of Mouse Antibodies to Somatic Antigen for Detection of <i>Salmonella enteritidis</i> by Competitive ELISA. <i>Food and Agricultural Immunology</i> , 2001, 13, 115-126.	1.4	8
78	Effect of methyltert-butyl ether in standard tests for mutagenicity and environmental toxicity. <i>Environmental Toxicology</i> , 2006, 21, 599-605.	4.0	8
79	History and microbial biodeterioration of audiovisual materials. <i>Journal of Cultural Heritage</i> , 2020, 44, 218-228.	3.3	8
80	Short communication: Antibacterial and antibiofilm effect of natural substances and their mixtures over <i>Listeria monocytogenes</i> , <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>LWT - Food Science and Technology</i> , 2022, 154, 112777.	5.2	8
81	Factors Influencing the Fungal Diversity on Audio-Visual Materials. <i>Microorganisms</i> , 2021, 9, 2497.	3.6	8
82	Alkane assimilation ability of <i>Pseudomonas C12B</i> originally isolated for degradation of alkyl sulfate surfactants. <i>Biotechnology Letters</i> , 1995, 17, 765-770.	2.2	7
83	Whole-cell optical biosensor for mercury – operational conditions in saline water. <i>Chemical Papers</i> , 2015, 69, .	2.2	7
84	Adhesion, Biofilm Formation, and luxS Sequencing of <i>Campylobacter jejuni</i> Isolated From Water in the Czech Republic. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 596613.	3.9	7
85	Response of Soil Microbes and Soil Enzymatic Activity to 20 Years of Fertilization. <i>Agronomy</i> , 2020, 10, 1542.	3.0	7
86	Soil microbial communities following 20 years of fertilization and crop rotation practices in the Czech Republic. <i>Environmental Microbiomes</i> , 2022, 17, 13.	5.0	7
87	Enzymic alcoholysis of blackcurrant oil. <i>Biotechnology Letters</i> , 2001, 23, 27-32.	2.2	6
88	Quantitative evaluation of biofilm extracellular DNA by fluorescence-based techniques. <i>Folia Microbiologica</i> , 2019, 64, 567-577.	2.3	6
89	Benefits of Polyamide Nanofibrous Materials: Antibacterial Activity and Retention Ability for <i>Staphylococcus Aureus</i> . <i>Nanomaterials</i> , 2021, 11, 480.	4.1	6
90	Impact of Long-Term Manure and Sewage Sludge Application to Soil as Organic Fertilizer on the Incidence of Pathogenic Microorganisms and Antibiotic Resistance Genes. <i>Agronomy</i> , 2021, 11, 1423.	3.0	6

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91	The effect of environmental conditions on the occurrence of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> in wastewater and surface waters. <i>Journal of Applied Microbiology</i> , 2022, 132, 725-735.	3.1	6
92	Antimicrobial Activity of Divercin RV41 Produced and Secreted by <i>Lactococcus lactis</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2007, 13, 259-263.	1.0	5
93	Contribution to determination of extracellular DNA origin in the biofilm matrix. <i>Journal of Basic Microbiology</i> , 2021, 61, 652-661.	3.3	5
94	Mutagenic strategies against luxS gene affect the early stage of biofilm formation of <i>Campylobacter jejuni</i> . <i>Journal of Applied Genetics</i> , 2022, 63, 145-157.	1.9	5
95	Evaluation of the Antimicrobial Efficacy of N-Acetyl-L-Cysteine, Rhamnolipids, and Usnic Acid – Novel Approaches to Fight Food-Borne Pathogens. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11307.	4.1	5
96	Waterborne Isolates of <i>Campylobacter jejuni</i> Are Able to Develop Aerotolerance, Survive Exposure to Low Temperature, and Interact With <i>Acanthamoeba polyphaga</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 730858.	3.5	5
97	Monitoring of resistance genes in <i>Listeria monocytogenes</i> isolates and their presence in the extracellular DNA of biofilms: a case study from the Czech Republic. <i>Folia Microbiologica</i> , 2018, 63, 653-664.	2.3	4
98	Microbial Contamination of Photographic and Cinematographic Materials in Archival Funds in the Czech Republic. <i>Microorganisms</i> , 2022, 10, 155.	3.6	4
99	Isolation and characterization of α -glucosidase from <i>Aspergillus niger</i> . <i>Journal of Chromatography A</i> , 1992, 593, 125-131.	3.7	3
100	Introduction of biodegradative plasmids to indigenous bacteria from polluted sites in the Czech Republic. <i>International Biodeterioration and Biodegradation</i> , 1994, 33, 311-318.	3.9	3
101	Laboratory and pilot-scale sorption and biodegradation of polychlorinated biphenyls from ground water. <i>International Biodeterioration and Biodegradation</i> , 1995, 35, 287-300.	3.9	3
102	Rapid detection of microbial contamination in UHT milk: practical application in dairy industry. <i>Czech Journal of Food Sciences</i> , 2018, 36, 357-364.	1.2	3
103	Distribution of extracellular DNA in <i>Listeria monocytogenes</i> biofilm. <i>Czech Journal of Food Sciences</i> , 2019, 37, 409-416.	1.2	3
104	Treatment and Containment of Contaminated Sediments. , 2006, , 137-178.		3
105	<i>Boswellia serrata</i> Extract as an Antibiofilm Agent against <i>Candida</i> spp.. <i>Microorganisms</i> , 2022, 10, 171.	3.6	3
106	Potential of Polyamide Nanofibers With Natamycin, Rosemary Extract, and Green Tea Extract in Active Food Packaging Development: Interactions With Food Pathogens and Assessment of Microbial Risks Elimination. <i>Frontiers in Microbiology</i> , 2022, 13, 857423.	3.5	3
107	A chemoenzymatic synthesis of the O-glycosides. <i>Chirality</i> , 1998, 10, 676-681.	2.6	2
108	Prerequisites and susceptibility of humic acids to microbial utilization and transformation – a review. <i>Archives of Agronomy and Soil Science</i> , 2011, 57, 445-454.	2.6	2

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109	Development of Real-time PCR Assays for the Detection of the pin II Terminator (tpinII) Used in GM Constructs and Its Donor Organism, Potato (<i>Solanum tuberosum</i>). <i>Food Analytical Methods</i> , 2018, 11, 2172-2180.	2.6	2
110	Application of Nanopore Sequencing (MinION) for the Analysis of Bacteriome and Resistome of Bean Sprouts. <i>Microorganisms</i> , 2021, 9, 937.	3.6	2
111	Draft Genome Sequence of <i>Enterococcus faecium</i> Strain CRL 1879, Isolated from a Northwestern Argentinian Artisanal Cheese. <i>Genome Announcements</i> , 2013, 1, .	0.8	1
112	Bioremediation of Chlorobenzoic Acids. , 2013, , .		1
113	Reversed-Phase Chromatographic Study of the Binding of Polychlorinated Biphenyls to Cyclodextrins and Sodium Dodecylsulphate. , 1996, 10, 92-94.		0
114	The Detection of Genetically Modified Organisms: An Overview. , 2008, , 319-334.		0
115	GMO Detection. , 2009, , 515-532.		0
116	Ecology-related Microbiological and Biochemical Parameters in Assessing Soils Exposed to Anthropogenic Pollution. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2007, , 409-428.	0.2	0