

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	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
2	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
3	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
4	Microbial Contamination of Photographic and Cinematographic Materials in Archival Funds in the Czech Republic. <i>Microorganisms</i> , 2022, 10, 155.	3.6	4
5	<i>Boswellia serrata</i> Extract as an Antibiofilm Agent against <i>Candida</i> spp.. <i>Microorganisms</i> , 2022, 10, 171.	3.6	3
6	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
7	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
8	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
9	Bacterial Biofilms on Polyamide Nanofibers: Factors Influencing Biofilm Formation and Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2277-2288.	8.0	28
10	Benefits of Polyamide Nanofibrous Materials: Antibacterial Activity and Retention Ability for <i>Staphylococcus Aureus</i> . <i>Nanomaterials</i> , 2021, 11, 480.	4.1	6
11	Application of Nanopore Sequencing (MinION) for the Analysis of Bacteriome and Resistome of Bean Sprouts. <i>Microorganisms</i> , 2021, 9, 937.	3.6	2
12	Contribution to determination of extracellular DNA origin in the biofilm matrix. <i>Journal of Basic Microbiology</i> , 2021, 61, 652-661.	3.3	5
13	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
14	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
15	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
16	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
17	Factors Influencing the Fungal Diversity on Visual Materials. <i>Microorganisms</i> , 2021, 9, 2497.	3.6	8
18	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

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19	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
20	Authentication of Meat and Meat Products Using Triacylglycerols Profiling and by DNA Analysis. <i>Foods</i> , 2020, 9, 1269.	4.3	10
21	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
22	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
23	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
24	Response of Soil Microbes and Soil Enzymatic Activity to 20 Years of Fertilization. <i>Agronomy</i> , 2020, 10, 1542.	3.0	7
25	History and microbial biodeterioration of audiovisual materials. <i>Journal of Cultural Heritage</i> , 2020, 44, 218-228.	3.3	8
26	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
27	Quantitative evaluation of biofilm extracellular DNA by fluorescence-based techniques. <i>Folia Microbiologica</i> , 2019, 64, 567-577.	2.3	6
28	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
29	Distribution of extracellular DNA in <i>Listeria monocytogenes</i> biofilm. <i>Czech Journal of Food Sciences</i> , 2019, 37, 409-416.	1.2	3
30	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
31	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
32	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
33	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
34	Resveratrol, pterostilbene, and baicalein: plant-derived anti-biofilm agents. <i>Folia Microbiologica</i> , 2018, 63, 261-272.	2.3	42
35	Impact of various killing methods on EMA/PMA-qPCR efficacy. <i>Food Control</i> , 2018, 85, 23-28.	5.5	20
36	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

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37	Rapid detection of microbial contamination in UHT milk: practical application in dairy industry. Czech Journal of Food Sciences, 2018, 36, 357-364.	1.2	3
38	Characterizing Biochar as Alternative Sorbent for Oil Spill Remediation. Scientific Reports, 2017, 7, 43912.	3.3	46
39	Disinfection of archival documents using thyme essential oil, silver nanoparticles misting and low temperature plasma. Journal of Cultural Heritage, 2017, 24, 69-77.	3.3	33
40	Linking toxicity profiles to pollutants in sludge and sediments. Journal of Hazardous Materials, 2017, 321, 672-680.	12.4	34
41	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. Food Analytical Methods, 2017, 10, 3723-3737.	2.6	11
42	Genome Editing with Engineered Nucleases in Economically Important Animals and Plants: State of the Art in the Research Pipeline. Current Issues in Molecular Biology, 2017, 21, 41-62.	2.4	18
43	Bacterial Biotransformation of Pentachlorophenol and Micropollutants Formed during Its Production Process. International Journal of Environmental Research and Public Health, 2016, 13, 1146.	2.6	25
44	Adhesion, Biofilm Formation, and Genomic Features of <i>Campylobacter jejuni</i> Bf, an Atypical Strain Able to Grow under Aerobic Conditions. Frontiers in Microbiology, 2016, 7, 1002.	3.5	52
45	Transformation of raw feather waste into digestible peptides and amino acids. Journal of Chemical Technology and Biotechnology, 2016, 91, 1629-1637.	3.2	50
46	Remediation of contaminated soils by thermal desorption; effect of benzoyl peroxide addition. Journal of Cleaner Production, 2016, 125, 309-313.	9.3	23
47	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. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1237-1247.	3.0	11
48	Study of Cytotoxic Effects of Benzonitrile Pesticides. BioMed Research International, 2015, 2015, 1-9.	1.9	19
49	Dynamics of brominated flame retardants removal in contaminated wastewater sewage sludge under anaerobic conditions. Science of the Total Environment, 2015, 533, 439-445.	8.0	44
50	Bacterial community structure in treated sewage sludge with mesophilic and thermophilic anaerobic digestion. Folia Microbiologica, 2015, 60, 531-539.	2.3	18
51	Differences in transcription and expression of staphylococcal enterotoxin C in processed meat products. LWT - Food Science and Technology, 2015, 64, 578-585.	5.2	12
52	Whole-cell optical biosensor for mercury " operational conditions in saline water. Chemical Papers, 2015, 69, .	2.2	7
53	Aerobic biodegradation of selected polybrominated diphenyl ethers (PBDEs) in wastewater sewage sludge. Chemosphere, 2015, 118, 315-321.	8.2	81
54	Emerging pollutants in the environment: present and future challenges in biomonitoring, ecological risks and bioremediation. New Biotechnology, 2015, 32, 147-156.	4.4	850

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55	Organochlorinated pesticide degrading microorganisms isolated from contaminated soil. <i>New Biotechnology</i> , 2015, 32, 26-31.	4.4	32
56	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
57	<i>Staphylococcus aureus</i> mobile genetic elements. <i>Molecular Biology Reports</i> , 2014, 41, 5005-5018.	2.3	71
58	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
59	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
60	Detection, identification and quantification of <i>Campylobacter jejuni</i> , <i>coli</i> and <i>lari</i> in food matrices all at once using multiplex qPCR. <i>Gut Pathogens</i> , 2014, 6, 12.	3.4	32
61	Surface adhesins and exopolymers of selected foodborne pathogens. <i>Microbiology (United Kingdom)</i> , 2014, 160, 2561-2582.	1.8	23
62	Expression and production of staphylococcal enterotoxin C is substantially reduced in milk. <i>Food Microbiology</i> , 2014, 44, 54-59.	4.2	29
63	Production of staphylococcal enterotoxin C in milk. <i>International Dairy Journal</i> , 2013, 30, 103-107.	3.0	16
64	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
65	Bioremediation of Chlorobenzoic Acids. , 2013, , .		1
66	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
67	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
68	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
69	Absorption and translocation of polybrominated diphenyl ethers (PBDEs) by plants from contaminated sewage sludge. <i>Chemosphere</i> , 2010, 81, 381-386.	8.2	76
70	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
71	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
72	Bacterial Degradation of Polychlorinated Biphenyls. , 2010, , 347-366.		16

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73	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
74	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
75	Phyto/rhizoremediation studies using long-term PCB-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2009, 16, 817-829.	5.3	76
76	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
77	Advances in Phytoremediation and Rhizoremediation. <i>Soil Biology</i> , 2009, , 257-277.	0.8	12
78	GMO Detection. , 2009, , 515-532.		0
79	Novel roles for genetically modified plants in environmental protection. <i>Trends in Biotechnology</i> , 2008, 26, 146-152.	9.3	172
80	The Detection of Genetically Modified Organisms: An Overview. , 2008, , 319-334.		0
81	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
82	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
83	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
84	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
85	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
86	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
87	Effect of methyltert-butyl ether in standard tests for mutagenicity and environmental toxicity. <i>Environmental Toxicology</i> , 2006, 21, 599-605.	4.0	8
88	Phytoremediation of Polychlorinated Biphenyls. , 2006, , 143-167.		18
89	Treatment and Containment of Contaminated Sediments. , 2006, , 137-178.		3
90	Enantioselective properties of induced lipases from <i>Geotrichum</i> . <i>Enzyme and Microbial Technology</i> , 2005, 37, 481-486.	3.2	26

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91	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
92	Synthesis of chiral cycloalkanols using yeast whole cell bioreactors. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1325-1330.	1.8	13
93	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
94	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
95	Decolorization of RBBR by plant cells and correlation with the transformation of PCBs. <i>Chemosphere</i> , 2002, 49, 739-748.	8.2	19
96	PCB metabolism by <i>Pseudomonas</i> sp. P2. <i>International Biodeterioration and Biodegradation</i> , 2002, 50, 47-54.	3.9	29
97	Enzymic alcoholysis of blackcurrant oil. <i>Biotechnology Letters</i> , 2001, 23, 27-32.	2.2	6
98	Some Aspects of PCB Metabolism by Horseradish Cells. <i>International Journal of Phytoremediation</i> , 2001, 3, 401-414.	3.1	17
99	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
100	Lipase-mediated hydrolysis of blackcurrant oil. <i>Enzyme and Microbial Technology</i> , 2000, 27, 531-536.	3.2	16
101	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
102	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1565-1570.	2.2	24
103	Title is missing!. <i>Plant and Soil</i> , 2000, 225, 109-115.	3.7	62
104	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
105	Encapsulation of Microbial Cells into Silica Gel. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 283-287.	2.4	55
106	A chemoenzymatic synthesis of the O-glycosides. <i>Chirality</i> , 1998, 10, 676-681.	2.6	2
107	<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
108	Introduction of Green Plants for the Control of Metals and Organics in Environmental Remediation. , 1998, , 71-84.		13

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109	Degradation of polychlorinated biphenyls by hairy root culture of <i>Solanum nigrum</i> . <i>Biotechnology Letters</i> , 1997, 19, 787-790.	2.2	52
110	Biodegradation of polychlorinated biphenyls by plant cells. <i>International Biodeterioration and Biodegradation</i> , 1997, 39, 317-325.	3.9	75
111	Reversed-Phase Chromatographic Study of the Binding of Polychlorinated Biphenyls to Cyclodextrins and Sodium Dodecylsulphate. , 1996, 10, 92-94.		0
112	Alkane assimilation ability of <i>Pseudomonas</i> C12B originally isolated for degradation of alkyl sulfate surfactants. <i>Biotechnology Letters</i> , 1995, 17, 765-770.	2.2	7
113	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
114	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
115	Isolation and characterization of β -glucosidase from <i>Aspergillus niger</i> . <i>Journal of Chromatography A</i> , 1992, 593, 125-131.	3.7	3
116	Fermentation of <i>Candida utilis</i> for uricase production. <i>Journal of Industrial Microbiology</i> , 1990, 6, 85-89.	0.9	13