

Zuzanna Drulis-Kawa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

2,009
citations

25
h-index

43
g-index

80
ext. papers

2,678
ext. citations

5.6
avg, IF

5.26
L-index

#	Paper	IF	Citations
72	The Antibacterial Effect of PEGylated Carbosilane Dendrimers on Alone and in Combination with Phage-Derived Endolysin.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
71	The Specific Capsule Depolymerase of Phage PMK34 Sensitizes Acinetobacter baumannii to Serum Killing. <i>Antibiotics</i> , 2022 , 11, 677	4.9	0
70	The Mutation in Gene Cluster Selected by Phage-Borne Depolymerase Abolishes Capsule Production and Diminishes the Virulence of. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
69	The evolutionary trade-offs in phage-resistant Klebsiella pneumoniae entail cross-phage sensitization and loss of multidrug resistance. <i>Environmental Microbiology</i> , 2021 ,	5.2	13
68	Targeting biofilms using phages and their enzymes. <i>Current Opinion in Biotechnology</i> , 2021 , 68, 251-261	11.4	8
67	Engineering the Modular Receptor-Binding Proteins of Phages Switches Their Capsule Serotype Specificity. <i>MBio</i> , 2021 , 12,	7.8	8
66	Emerging Phage Resistance in PAO1 Is Accompanied by an Enhanced Heterogeneity and Reduced Virulence. <i>Viruses</i> , 2021 , 13,	6.2	4
65	Genome-driven elucidation of phage-host interplay and impact of phage resistance evolution on bacterial fitness. <i>ISME Journal</i> , 2021 ,	11.9	6
64	Multifunctionality of Nanosized Calcium Apatite Dual-Doped with Li/Eu Ions Related to Cell Culture Studies and Cytotoxicity Evaluation In Vitro. <i>Biomolecules</i> , 2021 , 11,	5.9	1
63	Integrative omics analysis of Pseudomonas aeruginosa virus PA5oct highlights the molecular complexity of jumbo phages. <i>Environmental Microbiology</i> , 2020 , 22, 2165-2181	5.2	20
62	Structural modification of nanohydroxyapatite Ca(PO)(OH) related to Eu and Sr ions doping and its spectroscopic and antimicrobial properties. <i>Journal of Inorganic Biochemistry</i> , 2020 , 203, 110884	4.2	14
61	PEGylation of dendronized silver nanoparticles increases the binding affinity of antimicrobial proteins. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114339	6	3
60	Advantages and limitations of microtiter biofilm assays in the model of antibiofilm activity of Klebsiella phage KP34 and its depolymerase. <i>Scientific Reports</i> , 2020 , 10, 20338	4.9	20
59	Antitumor Activity of Pt(II), Ru(III) and Cu(II) Complexes. <i>Molecules</i> , 2020 , 25,	4.8	9
58	Structural and Functional Studies of a Klebsiella Phage Capsule Depolymerase Tailspike: Mechanistic Insights into Capsular Degradation. <i>Structure</i> , 2020 , 28, 613-624.e4	5.2	13
57	The Application of Impedance Spectroscopy for Biofilm Monitoring during Phage Infection. <i>Viruses</i> , 2020 , 12,	6.2	5
56	Complex Signaling Networks Controlling Dynamic Molecular Changes in Pseudomonas aeruginosa Biofilm. <i>Current Medicinal Chemistry</i> , 2019 , 26, 1979-1993	4.3	14

55	The influence of cationic dendrimers on antibacterial activity of phage endolysin against <i>P. aeruginosa</i> cells. <i>Bioorganic Chemistry</i> , 2019 , 91, 103121	5.1	15
54	Phage KP34 RNA Polymerase and Its Use in RNA Synthesis. <i>Frontiers in Microbiology</i> , 2019 , 10, 2487	5.7	5
53	Interspecies Outer Membrane Vesicles (OMVs) Modulate the Sensitivity of Pathogenic Bacteria and Pathogenic Yeasts to Cationic Peptides and Serum Complement. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	13
52	Outer Membrane Proteins of Salmonella as Potential Markers of Resistance to Serum, Antibiotics and Biocides. <i>Current Medicinal Chemistry</i> , 2019 , 26, 1960-1978	4.3	5
51	Engineering of receptor-binding proteins in bacteriophages and phage tail-like bacteriocins. <i>Biochemical Society Transactions</i> , 2019 , 47, 449-460	5.1	25
50	PA5oct Jumbo Phage Impacts Planktonic and Biofilm Population and Reduces Its Host Virulence. <i>Viruses</i> , 2019 , 11,	6.2	17
49	Dendronized Silver Nanoparticles as Bacterial Membrane Permeabilizers and Their Interactions With Lipopolysaccharides, Lysozymes, and Phage-Derived Endolysins. <i>Frontiers in Microbiology</i> , 2019 , 10, 2771	5.7	14
48	Modeling the Architecture of Depolymerase-Containing Receptor Binding Proteins in Phages. <i>Frontiers in Microbiology</i> , 2019 , 10, 2649	5.7	29
47	Applications of bacteriophages versus phage enzymes to combat and cure bacterial infections: an ambitious and also a realistic application?. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 2563-2581	5.7	102
46	Preparation and antimicrobial activity of the porous hydroxyapatite nanoceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 179-187	5.7	16
45	Prophages-Prevalence, Chromosome Location and Major Genes Involved. <i>Viruses</i> , 2018 , 10,	6.2	9
44	Human body symmetry and immune efficacy in healthy adults. <i>American Journal of Physical Anthropology</i> , 2018 , 167, 207-216	2.5	2
43	Phage-Borne Depolymerases Decrease Resistance to Innate Defense Mechanisms. <i>Frontiers in Microbiology</i> , 2018 , 9, 2517	5.7	51
42	Bacteriophage-encoded virion-associated enzymes to overcome the carbohydrate barriers during the infection process. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 3103-3119	5.7	133
41	The O-specific polysaccharide lyase from the phage LKA1 tailspike reduces <i>Pseudomonas</i> virulence. <i>Scientific Reports</i> , 2017 , 7, 16302	4.9	53
40	Modular endolysin of Burkholderia AP3 phage has the largest lysozyme-like catalytic subunit discovered to date and no catalytic aspartate residue. <i>Scientific Reports</i> , 2017 , 7, 14501	4.9	18
39	The temperate Burkholderia phage AP3 of the Peduovirinae shows efficient antimicrobial activity against <i>B. cenocepacia</i> of the IIIA lineage. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 1203-1216	5.7	9
38	Klebsiella phages representing a novel clade of viruses with an unknown DNA modification and biotechnologically interesting enzymes. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 673-684	5.7	31

37	Hydrolytic activity determination of Tail Tubular Protein A of Klebsiella pneumoniae bacteriophages towards saccharide substrates. <i>Scientific Reports</i> , 2017 , 7, 18048	4.9	9
36	Phage Life Cycles Behind Bacterial Biodiversity. <i>Current Medicinal Chemistry</i> , 2017 , 24, 3987-4001	4.3	27
35	Modification biological activity of S and R forms of Proteus mirabilis and Burkholderia cepacia lipopolysaccharides by carrageenans. <i>Carbohydrate Polymers</i> , 2016 , 149, 408-14	10.3	1
34	Capsule-Targeting Depolymerase, Derived from Klebsiella KP36 Phage, as a Tool for the Development of Anti-Virulent Strategy. <i>Viruses</i> , 2016 , 8,	6.2	67
33	Autonomous system for in Situ Assay of Antibiotic Activity on Bacterial Biofilms Using Viscosity and Density Sensing Quartz Tuning Forks. <i>Procedia Engineering</i> , 2016 , 168, 745-748		1
32	Quartz tuning fork as in situ sensor of bacterial biofilm. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 825-829	8.5	3
31	A suggested new bacteriophage genus, "Kp34likevirus", within the Autographivirinae subfamily of Podoviridae. <i>Viruses</i> , 2015 , 7, 1804-22	6.2	31
30	In vitro and in vivo antibacterial activity of environmental bacteriophages against Pseudomonas aeruginosa strains from cystic fibrosis patients. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 6021-33	5.7	39
29	New flax producing bioplastic fibers for medical purposes. <i>Industrial Crops and Products</i> , 2015 , 68, 80-89	5.9	27
28	Bacteriophages and phage-derived proteins--application approaches. <i>Current Medicinal Chemistry</i> , 2015 , 22, 1757-73	4.3	110
27	Characterization of the Newly Isolated Lytic Bacteriophages KTN6 and KT28 and Their Efficacy against Pseudomonas aeruginosa Biofilm. <i>PLoS ONE</i> , 2015 , 10, e0127603	3.7	53
26	Modern Therapeutic Approaches Against Pseudomonas aeruginosa Infections. <i>Current Medicinal Chemistry</i> , 2015 , 22, 1642-64	4.3	18
25	A giant Pseudomonas phage from Poland. <i>Archives of Virology</i> , 2014 , 159, 567-72	2.6	25
24	Quartz Tuning Fork as in-situ Sensor of Bacterial Biofilm. <i>Procedia Engineering</i> , 2014 , 87, 369-372		1
23	Human body morphology, prevalence of nasopharyngeal potential bacterial pathogens, and immunocompetence handicap principal. <i>American Journal of Human Biology</i> , 2014 , 26, 305-10	2.7	6
22	Laser interferometry analysis of ciprofloxacin and ampicillin diffusion from liposomal solutions to water phase. <i>European Biophysics Journal</i> , 2013 , 42, 549-58	1.9	10
21	Developing an international Pseudomonas aeruginosa reference panel. <i>MicrobiologyOpen</i> , 2013 , 2, 1010-23	3.2	59
20	Characterization of five novel endolysins from Gram-negative infecting bacteriophages. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 4369-75	5.7	62

19	Evaluation of <i>Pseudomonas aeruginosa</i> biofilm formation using Quartz Tuning Forks as impedance sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 189, 60-65	8.5	13
18	The properties of chitosan complexes with smooth and rough forms of lipopolysaccharides on CHO-K1 cells. <i>Carbohydrate Polymers</i> , 2013 , 97, 284-92	10.3	4
17	Piezoelectric tuning fork based mass measurement method as a novel tool for determination of antibiotic activity on bacterial biofilm. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 34-39	8.5	9
16	Evaluation of <i>Pseudomonas aeruginosa</i> Biofilm Formation using Quartz Tuning Forks as Impedance Sensors. <i>Procedia Engineering</i> , 2012 , 47, 631-634		1
15	Evaluation of <i>Pseudomonas aeruginosa</i> biofilm formation using piezoelectric tuning fork mass sensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 170, 7-12	8.5	33
14	Learning from bacteriophages - advantages and limitations of phage and phage-encoded protein applications. <i>Current Protein and Peptide Science</i> , 2012 , 13, 699-722	2.8	151
13	Piezoelectric Tuning Fork Mass Sensors as a Novel Tool for Determination of Antibiotic Activity on <i>Pseudomonas Aeruginosa</i> Biofilm. <i>Procedia Engineering</i> , 2011 , 25, 980-983		2
12	Isolation and characterisation of KP34--a novel Φ MV-like bacteriophage for <i>Klebsiella pneumoniae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1333-45	5.7	47
11	Evaluation of <i>Pseudomonas aeruginosa</i> biofilm formation using piezoelectric tuning forks mass sensors. <i>Procedia Engineering</i> , 2010 , 5, 820-823		9
10	Liposomes as delivery systems for antibiotics. <i>International Journal of Pharmaceutics</i> , 2010 , 387, 187-98	6.5	226
9	The interaction between <i>Pseudomonas aeruginosa</i> cells and cationic PC:Chol:DOTAP liposomal vesicles versus outer-membrane structure and envelope properties of bacterial cell. <i>International Journal of Pharmaceutics</i> , 2009 , 367, 211-9	6.5	47
8	In vitro Antimicrobial Activity of Liposomes Containing Ciprofloxacin, Meropenem and Gentamicin Against Gram-Negative Clinical Bacterial Strains. <i>Letters in Drug Design and Discovery</i> , 2007 , 4, 297-304	0.8	30
7	Molecular epidemiology of acquired-metallo-beta-lactamase-producing bacteria in Poland. <i>Antimicrobial Agents and Chemotherapy</i> , 2006 , 50, 880-6	5.9	65
6	In vitro antimicrobial activity of liposomal meropenem against <i>Pseudomonas aeruginosa</i> strains. <i>International Journal of Pharmaceutics</i> , 2006 , 315, 59-66	6.5	45
5	A simply and sensitive fluorometric method for determination of gentamicin in liposomal suspensions. <i>International Journal of Pharmaceutics</i> , 2006 , 327, 104-9	6.5	36
4	A comparison of the in vitro antimicrobial activity of liposomes containing meropenem and gentamicin. <i>Cellular and Molecular Biology Letters</i> , 2006 , 11, 360-75	8.1	33
3	<i>Pseudomonas aeruginosa</i> PA5oct jumbo phage impacts planktonic and biofilm population and reduces its host virulence		2
2	Genomic, transcriptomic, and structural analysis of <i>Pseudomonas</i> virus PA5oct highlights the molecular complexity among Jumbo phages		2

1 Integrative omics analysis of Pseudomonas aeruginosa virus PA5oct highlights the molecular complexity of jumbo phages

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