WiesÅ‚aw Kaca

List of Publications by Year
in descending order

104 papers	2,016 citations	257429 24 h-index	302107 39 g-index
106 all docs	106 docs citations	106 times ranked	2125 citing authors

#	Article	IF	Citations
1	Recent advances on smart glycoconjugate vaccines in infections and cancer. FEBS Journal, 2022, 289, 4251-4303.	4.7	39
2	Phosphocholine decoration of Proteus mirabilis O18 LPS induces hydrophobicity of the cell surface and electrokinetic potential, but does not alter the adhesion to solid surfaces. Cell Surface, 2022, 8, 100079.	3.0	0
3	Emerging glycoâ€based strategies to steer immune responses. FEBS Journal, 2021, 288, 4746-4772.	4.7	22
4	Correlations between autoantibodies and the ATR-FTIR spectra of sera from rheumatoid arthritis patients. Scientific Reports, 2021, 11, 17886.	3.3	6
5	Comparison of Biological Activity of Field Isolates of Steinernema feltiae with a Commercial S. feltiae Biopesticide Product. Insects, 2021, 12, 816.	2.2	2
6	Use of Fourier-Transform Infrared Spectroscopy (FT-IR) for Monitoring Experimental Helicobacter pylori Infection and Related Inflammatory Response in Guinea Pig Model. International Journal of Molecular Sciences, 2021, 22, 281.	4.1	7
7	Culturable endophytic bacteria from <i>Phelipanche ramosa</i> (Orobanchaceae) seeds. Seed Science Research, 2021, 31, 69-75.	1.7	9
8	Synthesis of Bacterial Urease Flap Region Peptide Equivalents and Detection of Rheumatoid Arthritis Antibodies Using Two Methods. International Journal of Peptide Research and Therapeutics, 2020, 26, 53-65.	1.9	1
9	Antibodies Isolated from Rheumatoid Arthritis Patients against Lysine-Containing Proteus mirabilis O3 (S1959) Lipopolysaccharide May React with Collagen Type I. International Journal of Molecular Sciences, 2020, 21, 9635.	4.1	7
10	Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (FTIR) and Artificial Neural Networks Applied to Investigate Quantitative Changes of Selected Soluble Biomarkers, Correlated with H. pylori Infection in Children and Presumable Consequent Delayed Growth. Journal of Clinical Medicine, 2020, 9, 3852.	2.4	16
11	A benzimidazole-based ruthenium(IV) complex inhibits <i>Pseudomonas aeruginosa</i> biofilm formation by interacting with siderophores and the cell envelope, and inducing oxidative stress. Biofouling, 2019, 35, 59-74.	2.2	12
12	Draft Genome Sequences of Proteus mirabilis K1609 and K670: A Model Strains for Territoriality Examination. Current Microbiology, 2019, 76, 144-152.	2.2	3
13	Assessment of Proteus mirabilis Antigen Immunological Complexes by Atomic Force Microscopy. Methods in Molecular Biology, 2019, 2021, 273-283.	0.9	3
14	Synthetic peptides mimicking antigenic epitope of Helicobacter pylori urease.. Acta Biochimica Polonica, 2019, 53, 83-86.	0.5	5
15	TYPE VB AND VI SECRETION SYSTEMS AS COMPETITION AGENTS OF GRAM-NEGATIVE BACTERIA. Postepy Mikrobiologii, 2019, 57, 360-373.	0.1	2
16	Characterization of Proteus mirabilis Lipopolysaccharide Samples by Infrared Spectroscopy and Serological Methods. Methods in Molecular Biology, 2019, 2021, 217-230.	0.9	0
17	Crossâ€Reactivity of Polyclonal Antibodies against <i>Canavalia ensiformis</i> (Jack Bean) Urease and <i>Helicobacter pylori</i> Urease Subunit A Fragments. Chemistry and Biodiversity, 2018, 15, e1700444.	2.1	4
18	Detection of human antibodies binding with smooth and rough LPSs from Proteus mirabilis O3 strains S1959, R110, R45. Antonie Van Leeuwenhoek, 2017, 110, 1435-1443.	1.7	4

#	Article	IF	Citations
19	Fourier Transform Infrared Spectroscopy as a Tool in Analysis of Proteus mirabilis Endotoxins. Methods in Molecular Biology, 2017, 1600, 113-124.	0.9	6
20	Characterization of Microbial Communities in Acidified, Sulfur Containing Soils. Polish Journal of Microbiology, 2017, 66, 509-517.	1.7	3
21	Detection of ureolytic activity of bacterial strains isolated from entomopathogenic nematodes using infrared spectroscopy. Journal of Basic Microbiology, 2016, 56, 922-928.	3.3	1
22	The role of Proteus mirabilis cell wall features in biofilm formation. Archives of Microbiology, 2016, 198, 877-884.	2.2	41
23	Modification biological activity of S and R forms of Proteus mirabilis and Burkholderia cepacia lipopolysaccharides by carrageenans. Carbohydrate Polymers, 2016, 149, 408-414.	10.2	2
24	Chemometric analysis of attenuated total reflectance infrared spectra of Proteus mirabilis strains with defined structures of LPS. Innate Immunity, 2016, 22, 325-335.	2.4	7
25	Synthesis and complexing properties of diglycol resorcinarene podands. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2015, 81, 357-365.	1.6	1
26	Biological Activity of Wild Isolates of Entomopathogenic Nematodes to Horse- Chestnut Leaf Miner (Cameraria ohridella). Polish Journal of Environmental Studies, 2015, 24, 1181-1184.	1.2	6
27	In vitro and in vivo antibacterial activity of environmental bacteriophages against Pseudomonas aeruginosa strains from cystic fibrosis patients. Applied Microbiology and Biotechnology, 2015, 99, 6021-6033.	3.6	54
28	The use of lysozyme modified with fluorescein for the detection of Gram-positive bacteria. Microbiological Research, 2015, 170, 242-247.	5.3	20
29	Phenotypic characterization of an international Pseudomonas aeruginosa reference panel: strains of cystic fibrosis (CF) origin show less in vivo virulence than non-CF strains. Microbiology (United) Tj ETQq1 1 0.784314 rg BT /Overlock 10	1.8	71
30	Fourier Transform Infrared Spectroscopy (FTIR) as a Tool for the Identification and Differentiation of Pathogenic Bacteria. Current Medicinal Chemistry, 2015, 22, 1710-1718.	2.4	70
31	Morphological changes in Proteus mirabilis O18 biofilm under the influence of a urease inhibitor and a homoserine lactone derivative. Archives of Microbiology, 2014, 196, 169-177.	2.2	13
32	Eight- and six-coordinated Mn(II) complexes of heteroaromatic alcohol and aldehyde: Crystal structure, spectral, magnetic, thermal and antibacterial activity studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 129, 632-642.	3.9	21
33	Comparison of antibiotic resistance patterns in collections of Escherichia coli and Proteus mirabilis uropathogenic strains. Molecular Biology Reports, 2013, 40, 3429-3435.	2.3	42
34	Developing an international <i>Pseudomonas aeruginosa</i> reference panel. MicrobiologyOpen, 2013, 2, 1010-1023.	3.0	94
35	The properties of chitosan complexes with smooth and rough forms of lipopolysaccharides on CHO-K1 cells. Carbohydrate Polymers, 2013, 97, 284-292.	10.2	7
36	Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy and Artificial Neural Networks Applied to DifferentiateEscherichia colipapG+/papG-Strains. Journal of Spectroscopy, 2013, 2013, 1-3.	1.3	4

#	Article	IF	Citations
37	Analysis of ciprofloxacin and gentamicin diffusion in Proteus mirabilis O18 biofilm by laser interferometry method. Acta Biochimica Polonica, 2013, 60, 707-11.	0.5	4
38	The use of infrared spectroscopy and artificial neural networks for detection of uropathogenic Escherichia coli strains' susceptibility to cephalothin. Acta Biochimica Polonica, 2013, 60, 713-8.	0.5	17
39	Effects of Saponins against Clinical<i>E. coli</i>Strains and Eukaryotic Cell Line. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-6.	3.0	68
40	Detection of Antibodies Against Synthetic Peptides Mimicking Ureases Fragments in Sera of Rheumatoid Arthritis Patients. Protein and Peptide Letters, 2012, 19, 1149-1154.	0.9	9
41	Bacterial Urease and its Role in Long-Lasting Human Diseases. Current Protein and Peptide Science, 2012, 13, 789-806.	1.4	205
42	The presence of anti-LPS antibodies and human serum activity against Proteus mirabilis S/R forms in correlation with TLR4 (Thr399Ile) gene polymorphism in rheumatoid arthritis. Clinical Biochemistry, 2012, 45, 1374-1382.	1.9	14
43	Influence of quorum sensing signal molecules on biofilm formation in Proteus mirabilis O18. Folia Microbiologica, 2012, 57, 53-60.	2.3	31
44	Structure and serology of O-antigens as the basis for classification of <i>Proteus</i> strains. Innate Immunity, 2011, 17, 70-96.	2.4	63
45	Serotyping of Proteus mirabilis clinical strains based on lipopolysaccharide O-polysaccharide and core oligosaccharide structures. Biochemistry (Moscow), 2011, 76, 851-861.	1.5	12
46	Analysis of cultivable aerobic bacteria isolated from bottom sediments in the Wijdefjorden region, Spitsbergen. Polish Polar Research, 2011, 32, 181-195.	0.9	6
47	Are anti-Helicobacter pylori urease antibodies involved in atherosclerotic diseases?. Clinical Biochemistry, 2010, 43, 115-123.	1.9	10
48	Human complement activation by smooth and rough Proteus mirabilis lipopolysaccharides. Archivum Immunologiae Et Therapiae Experimentalis, 2009, 57, 383-391.	2.3	8
49	Binding and biological properties of lipopolysaccharide Proteus vulgaris O25 (48/57)â€“chitosan complexes. Carbohydrate Polymers, 2009, 78, 481-487.	10.2	10
50	Laser interferometric and cultivation methods for measurement of colistin/ampicilin and saponin interactions with smooth and rough of Proteus mirabilis lipopolysaccharides and cells. Journal of Microbiological Methods, 2009, 77, 178-183.	1.6	35
51	Serotyping of clinical isolates belonging toProteus mirabilisserogroup O36 and structural elucidation of the O36-antigen polysaccharide. FEMS Immunology and Medical Microbiology, 2008, 53, 395-403.	2.7	3
52	Effects of Proteus mirabilis Lipopolysaccharides with Different O-Polysaccharide Structures on the Plasma Membrane of Human Erythrocytes. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 460-468.	1.4	4
53	Quantification of Proteus mirabilis virulence factors and modulation by acylated homoserine lactones. Journal of Microbiology, Immunology and Infection, 2008, 41, 243-53.	3.1	41
54	Laser interferometric determination of ampicillin and colistin transfer through cellulose biomembrane in the presence of Proteus vulgaris O25 lipopolysaccharide. Journal of Membrane Science, 2007, 299, 268-275.	8.2	30

#	Article	IF	Citations
55	Structures and serology of the O-antigens of Proteus strains classified into serogroup O17 and former serogroup O35. Archivum Immunologiae Et Therapiae Experimentalis, 2006, 54, 277-282.	2.3	3
56	Survival of Proteus mirabilis O3 (S1959), O9 and O18 strains in normal human serum (NHS) correlates with the diversity of their outer membrane proteins (OMPs). Polish Journal of Microbiology, 2006, 55, 153-6.	1.7	3
57	Structure of a lactic acid ether-containing and glycerol phosphate-containing O-polysaccharide from Proteus mirabilis O40. Carbohydrate Research, 2005, 340, 1612-1617.	2.3	8
58	INTERLEUKIN-8 RESPONSE IN CELLS FROM THE HUMAN URINARY TRACT INDUCED BY LIPOPOLYSACCHARIDES OF PROTEUS MIRABILIS O3 AND O18. Journal of Urology, 2005, 173, 1381-1384.	0.4	10
59	Structure of a highly phosphorylated O-polysaccharide of Proteus mirabilis O41. Carbohydrate Research, 2004, 339, 1347-1352.	2.3	10
60	Structure of the neutral O-polysaccharide and biological activities of the lipopolysaccharide of Proteus mirabilis O20. Carbohydrate Research, 2004, 339, 623-628.	2.3	7
61	Alterations in human red blood cell membrane properties induced by the lipopolysaccharide from Proteus mirabilis S1959. Chemico-Biological Interactions, 2003, 146, 73-80.	4.0	5
62	Structure of the O-polysaccharide of Proteus mirabilis O38 containing 2-acetamidoethyl phosphate and N-linked d-aspartic acid. Carbohydrate Research, 2003, 338, 2387-2392.	2.3	22
63	Synthesis and induction of apoptosis in B cell chronic leukemia by diosgenyl 2-amino-2-deoxy-Î²-d-glucopyranoside hydrochloride and its derivatives. Carbohydrate Research, 2003, 338, 133-141.	2.3	72
64	Structural and serological studies of the O-antigen of Proteus mirabilis O-9. Carbohydrate Research, 2003, 338, 1191-1196.	2.3	13
65	Structure and serological characterization of the O-antigen of Proteus mirabilis O18 with a phosphocholine-containing oligosaccharide phosphate repeating unit. Carbohydrate Research, 2003, 338, 1835-1842.	2.3	22
66	Lipopolysaccharide from Proteus mirabilis O29 induces changes in red blood cell membrane lipids and proteins. International Journal of Biochemistry and Cell Biology, 2003, 35, 333-338.	2.8	5
67	Tandem Tetramer-Based Microsatellite Fingerprinting for Typing of Proteus mirabilis Strains. Journal of Clinical Microbiology, 2003, 41, 1673-1680.	3.9	5
68	Serum Antibodies of Periodontitis Patients Compared to the Lipopolysaccharides of <i>Porphyromonas gingivalis</i> and <i>Fusobacterium nucleatum</i>. Microbiology and Immunology, 2003, 47, 51-55.	1.4	9
69	Immunochemical studies on the O-antigens of Proteus mirabilis O23 and Proteus vulgaris O23. Archivum Immunologiae Et Therapiae Experimentalis, 2003, 51, 69-74.	2.3	1
70	Polysaccharide part of Proteus mirabilis lipopolysaccharide may be responsible for the stimulation of platelet adhesion to collagen. Platelets, 2002, 13, 419-424.	2.3	17
71	1H and13C NMR and X-ray diffraction data for a diosgenylN,O-protected glucopyranoside. Magnetic Resonance in Chemistry, 2002, 40, 231-236.	1.9	7
72	The Generation of Superoxide Anion in Blood Platelets in Response to Different Forms of Proteus mirabilis Lipopolysaccharide: Effects of Staurosporin, Wortmannin, and Indomethacin. Thrombosis Research, 2001, 103, 149-155.	1.7	22

#	Article	IF	Citations
73	Adhesion of thrombin-stimulated and unstimulated blood platelets to collagen in the presence of Proteus mirabilis lipopolysaccharides. Platelets, 2001, 12, 470-476.	2.3	10
74	Isolation using triflic acid solvolysis and identification of NÎµ-[(R)-1-carboxyethyl]-NÎ±-(d-galacturonoyl)-l-lysine as a component of the O-specific polysaccharide of Proteusmirabilis O13. Carbohydrate Research, 2000, 328, 441-444.	2.3	10
75	The synthesis of diosgenyl 2-amino-2-deoxy-Î²-d-glucopyranoside hydrochloride. Carbohydrate Research, 2000, 328, 249-252.	2.3	15
76	Full structure of the O-specific polysaccharide of Proteus mirabilis O24 containing 3,4-O-[(S)-1-carboxyethylidene]-d-galactose. Carbohydrate Research, 2000, 329, 453-457.	2.3	19
77	The structure of the carbohydrate backbone of core-lipidâ€ƒA region ofthe lipopolysaccharides from Proteus mirabilis wild-type strain S1959 (serotype O3) and its Ra mutant R110/1959. FEBS Journal, 2000, 267, 262-269.	0.2	31
78	Structure of an acidic O-specific polysaccharide of Proteus mirabilis O5. Carbohydrate Research, 1999, 319, 199-203.	2.3	7
79	Structure of the O-specific polysaccharide of Proteus mirabilis O11, another Proteus O-antigen containing an amide of d-galacturonic acid with l-threonine. Carbohydrate Research, 1999, 323, 81-86.	2.3	16
80	Structural and serological studies on the O-antigen of Proteus mirabilis O14, a new polysaccharide containing 2-[(R)-1-carboxyethylamino]ethyl phosphate. FEBS Journal, 1999, 261, 347-353.	0.2	16
81	Structures of the O-specific polysaccharides and a serological cross-reactivity of the lipopolysaccharides ofProteus mirabilisO24 and O29. FEBS Letters, 1999, 456, 227-231.	2.8	6
82	Response of Blood Platelets to <i>Proteus mirabilis</i> Lipopolysaccharide. Microbiology and Immunology, 1998, 42, 47-49.	1.4	17
83	Serological Studies of an Acidâ€Labile <i>O</i>â€Polysaccharide of <i>Proteus vulgaris</i> OX19 Lipopolysaccharide Using Human and Rabbit Antibodies. Microbiology and Immunology, 1998, 42, 669-675.	1.4	6
84	Structural and Immunochemical Studies of Two Crossâ€Reactive <i>Proteus mirabilis</i> Oâ€Antigens, O6 and O23, Containing Î²1â†'3â€Linked 2â€Acetamidoâ€2â€Deoxyâ€<scp>d</scp>â€Glucopyranose Residues. Microbiology and Immunology, 1998, 42, 7-14.	1.4	13
85	Structures of the O-antigens ofProteusbacilli belonging to OX group (serogroups O1-O3) used in Weil-Felix test. FEBS Letters, 1997, 411, 221-224.	2.8	34
86	Structure of the O-Specific Polysaccharide of Proteus Vulgaris O25 Containing 3-O-[(R)-1-carboxyethyl]-d-glucose. FEBS Journal, 1997, 247, 951-954.	0.2	13
87	Structures of new acidic O-specific polysaccharides of the bacterium Proteus mirabilis serogroups O26 and O30. FEBS Letters, 1996, 386, 247-251.	2.8	24
88	Hemoglobin-Endotoxin Interactions. , 1996, , 185-202.		2
89	Structure and Epitope Characterisation of the O-specific Polysaccharide of Proteus mirabilis O28 Containing Amides of d-galacturonic Acid with l-serine and l-lysine. FEBS Journal, 1995, 230, 705-712.	0.2	8
90	Structure and Epitope Specificity of the O-specific Polysaccharide of Proteus penneri Strain 12 (ATCC) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	9

#	Article	IF	Citations
91	The Structure and Serological Specificity of Proteus mirabilis O43 O Antigen. FEBS Journal, 1995, 232, 558-562.	0.2	2
92	Effects of Bacterial Endotoxin on Human Cross-Linked and Native Hemoglobins. Biochemistry, 1995, 34, 11176-11185.	2.5	56
93	Activation of complement by human hemoglobin and by mixtures of hemoglobin and bacterial endotoxin. Biochimica Et Biophysica Acta - General Subjects, 1995, 1245, 49-56.	2.4	19
94	Structure and Epitope Characterisation of the O-specific Polysaccharide of Proteus mirabilis O28 Containing Amides of d-galacturonic Acid with l-serine and l-lysine. FEBS Journal, 1995, 230, 705-712.	0.2	31
95	Structure and Epitope Specificity of the O-specific Polysaccharide of Proteus penneri Strain 12 (ATCC) Tj ETQq1 1 0.784314 rgBT /Ov	0.2	40
96	The Structure and Serological Specificity of Proteus mirabilis O43 O Antigen. FEBS Journal, 1995, 232, 558-562.	0.2	8
97	Toxicity of Hemoglobin Solutions: Hemoglobin is a Lipopolysaccharide (Lps) Binding Protein which Enhances Lps Biological Activity. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 387-398.	0.9	7
98	Structural Study of O-Specific Polysaccharides of<i>Proteus</i>. Journal of Carbohydrate Chemistry, 1993, 12, 379-414.	1.1	51
99	Structural and immunochemical studies of O-specific polysaccharide of Proteus vulgaris 5/43 belonging to OX19 group (O-variants). FEBS Journal, 1991, 200, 195-201.	0.2	26
100	The structure of Proteus mirabilis O3 O-specific polysaccharide containing N-(2-hydroxyethyl)-D-alanine. FEBS Journal, 1990, 188, 645-651.	0.2	30
101	Structural studies on the fucosamine-containing O-specific polysaccharide of Proteus vulgaris O19. FEBS Journal, 1989, 180, 95-99.	0.2	24
102	Isolation and structural characterization of an 8-O-(4-amino-4-deoxy-) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (beta-l-arabinopyranc Proteus mirabilis deep rough mutant. FEBS Journal, 1987, 168, 269-273.	0.2	34
103	The effect of removal of d-fructose on the antigenicity of the lipopolysaccharide from a rough mutant of Vibrio cholerae Ogawa. Carbohydrate Research, 1986, 149, 293-298.	2.3	10
104	Towards a better understanding of the bacterial pan-genome. Acta Universitatis Lodziensis Folia Biologica Et Oecologica, 0, 17, 84-96.	1.0	1