

Karol FijaÅ,kowski

List of Publications by Year in descending order

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71
papers

1,232
citations

304743

22
h-index

454955

30
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75
all docs

75
docs citations

75
times ranked

1383
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial Nanocellulose Fortified with Antimicrobial and Anti-Inflammatory Natural Products from <i>Chelidonium majus</i> Plant Cell Cultures. <i>Materials</i> , 2022, 15, 16.	2.9	6
2	The effects of rotating magnetic field and antiseptic on in vitro pathogenic biofilm and its milieu. <i>Scientific Reports</i> , 2022, 12, .	3.3	9
3	Regulatory and Enterotoxin Gene Expression and Enterotoxins Production in <i>Staphylococcus aureus</i> FRI913 Cultures Exposed to a Rotating Magnetic Field and trans-Anethole. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6327.	4.1	4
4	The cross-linked bacterial cellulose impregnated with octenidine dihydrochloride-based antiseptic as an antibacterial dressing material for highly-exuding, infected wounds. <i>Microbiological Research</i> , 2022, 263, 127125.	5.3	5
5	Exposure to non-continuous rotating magnetic field induces metabolic strain-specific response of <i>Komagataeibacter xylinus</i> . <i>Biochemical Engineering Journal</i> , 2021, 166, 107855.	3.6	15
6	Superabsorbent crosslinked bacterial cellulose biomaterials for chronic wound dressings. <i>Carbohydrate Polymers</i> , 2021, 253, 117247.	10.2	64
7	In Vitro Efficacy of Bacterial Cellulose Dressings Chemisorbed with Antiseptics against Biofilm Formed by Pathogens Isolated from Chronic Wounds. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3996.	4.1	28
8	The Co-Culture of Staphylococcal Biofilm and Fibroblast Cell Line: The Correlation of Biological Phenomena with Metabolic NMR1 Footprint. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5826.	4.1	7
9	Evaluation of Chemical Changes in Laboratory-Induced Colistin-Resistant <i>Klebsiella pneumoniae</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 7104.	4.1	5
10	In Vitro Evaluation of Polihexanide, Octenidine and NaClO/HClO-Based Antiseptics against Biofilm Formed by Wound Pathogens. <i>Membranes</i> , 2021, 11, 62.	3.0	28
11	Potato Juice, a Starch Industry Waste, as a Cost-Effective Medium for the Biosynthesis of Bacterial Cellulose. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10807.	4.1	15
12	The Effect of Rotating Magnetic Field on Susceptibility Profile of Methicillin-Resistant <i>Staphylococcus aureus</i> Strains Exposed to Activity of Different Groups of Antibiotics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11551.	4.1	5
13	The Impact of Intraspecies Variability on Growth Rate and Cellular Metabolic Activity of Bacteria Exposed to Rotating Magnetic Field. <i>Pathogens</i> , 2021, 10, 1427.	2.8	8
14	Preparation of <i>Komagataeibacter xylinus</i> Inoculum for Bacterial Cellulose Biosynthesis Using Magnetically Assisted External-Loop Airlift Bioreactor. <i>Polymers</i> , 2021, 13, 3950.	4.5	11
15	Rotating Magnetic Field Increases β -Lactam Antibiotic Susceptibility of Methicillin-Resistant <i>Staphylococcus aureus</i> Strains. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12397.	4.1	5
16	Application of bacterial cellulose experimental dressings saturated with gentamycin for management of bone biofilm <i>in vitro</i> and <i>ex vivo</i> . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 30-37.	3.4	27
17	The Novel Quantitative Assay for Measuring the Antibiofilm Activity of Volatile Compounds (AntiBioVol). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7343.	2.5	6
18	Potential of Bacterial Cellulose Chemisorbed with Anti-Metabolites, 3-Bromopyruvate or Sertraline, to Fight against <i>Helicobacter pylori</i> Lawn Biofilm. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9507.	4.1	14

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19	Innate Immune Response against <i>Staphylococcus aureus</i> Preincubated with Subinhibitory Concentration of trans-Anethole. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4178.	4.1	16
20	Significant enhancement of citric acid production by <i>Yarrowia lipolytica</i> immobilized in bacterial cellulose-based carrier. <i>Journal of Biotechnology</i> , 2020, 321, 13-22.	3.8	13
21	Functionalized Magnetic Bacterial Cellulose Beads as Carrier for Lecitase [®] Ultra Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 176-193.	2.9	12
22	An efficient method of <i>Yarrowia lipolytica</i> immobilization using oil- and emulsion-modified bacterial cellulose carriers. <i>Electronic Journal of Biotechnology</i> , 2019, 41, 30-36.	2.2	6
23	The Activity of Isoquinoline Alkaloids and Extracts from <i>Chelidonium majus</i> against Pathogenic Bacteria and <i>Candida</i> sp.. <i>Toxins</i> , 2019, 11, 406.	3.4	42
24	Hydrodynamic studies in magnetically assisted external-loop airlift reactor. <i>Chemical Engineering Journal</i> , 2019, 362, 298-309.	12.7	13
25	Potential of Biocellulose Carrier Impregnated with Essential Oils to Fight Against Biofilms Formed on Hydroxyapatite. <i>Scientific Reports</i> , 2019, 9, 1256.	3.3	24
26	Potential of Novel Bacterial Cellulose Dressings Chemisorbed with Antiseptics for the Treatment of Oral Biofilm Infections. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5321.	2.5	9
27	Immobilization pattern of morphologically different microorganisms on bacterial cellulose membranes. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 11.	3.6	28
28	Bacterial cellulose as a support for yeast immobilization – Correlation between carrier properties and process efficiency. <i>Journal of Biotechnology</i> , 2019, 291, 1-6.	3.8	15
29	Skuteczność opatrunku UrgoClean [®] Ag Pad w eradykacji i sekwestracji <i>in vitro</i> drobnoustrojów w białym...czynnikiem etiologicznym zakażeń, ran przewlekłych. <i>Forum Zakażeń</i> , 2019, 10, 159-168.	0.0	0
30	Application of Rotating Magnetic Fields Increase the Activity of Antimicrobials Against Wound Biofilm Pathogens. <i>Scientific Reports</i> , 2018, 8, 167.	3.3	24
31	Modification of Bacterial Cellulose with Quaternary Ammonium Compounds Based on Fatty Acids and Amino Acids and the Effect on Antimicrobial Activity. <i>Biomacromolecules</i> , 2018, 19, 1528-1538.	5.4	52
32	The application of magnetically modified bacterial cellulose for immobilization of laccase. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 462-470.	7.5	52
33	Development and biological evaluation of Ti6Al7Nb scaffold implants coated with gentamycin-saturated bacterial cellulose biomaterial. <i>PLoS ONE</i> , 2018, 13, e0205205.	2.5	28
34	Gas to liquid mass transfer in mixing system with application of rotating magnetic field. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 130, 11-18.	3.6	7
35	Autovaccines in Individual Therapy of Staphylococcal Infections. , 2018, , 253-264.		2
36	Bacterial cellulose yield increased over 500% by supplementation of medium with vegetable oil. <i>Carbohydrate Polymers</i> , 2018, 199, 294-303.	10.2	39

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37	Impact of Housing System on Health and Rearing of Calves Based on Examination of Nasal Cavity Swabs. <i>Pakistan Journal of Zoology</i> , 2018, 50, .	0.2	1
38	Evaluation of usefulness of 2DCorr technique in assessing physicochemical properties of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2017, 161, 208-218.	10.2	14
39	Antibiotic loaded microspheres as antimicrobial delivery systems for medical applications. <i>Materials Science and Engineering C</i> , 2017, 77, 69-75.	7.3	11
40	The study of influence of a rotating magnetic field on mixing efficiency. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 112, 1-8.	3.6	21
41	Biochemical and cellular properties of <i>Gluconacetobacter xylinus</i> cultures exposed to different modes of rotating magnetic field. <i>Polish Journal of Chemical Technology</i> , 2017, 19, 107-114.	0.5	8
42	Influence of milk, milk fractions and milk proteins on the growth and viability of mastitis-causing <i>Staphylococcus aureus</i> strain. <i>Italian Journal of Animal Science</i> , 2017, 16, 321-328.	1.9	4
43	A.D.A.M. test (Antibiofilm Dressing's Activity Measurement) – Simple method for evaluating anti-biofilm activity of drug-saturated dressings against wound pathogens. <i>Journal of Microbiological Methods</i> , 2017, 143, 6-12.	1.6	26
44	Effects of a rotating magnetic field on gas-liquid mass transfer coefficient. <i>Chemical Engineering Journal</i> , 2017, 327, 608-617.	12.7	27
45	Increased water content in bacterial cellulose synthesized under rotating magnetic fields. <i>Electromagnetic Biology and Medicine</i> , 2017, 36, 192-201.	1.4	21
46	Correlation between type of alkali rinsing, cytotoxicity of bio-nanocellulose and presence of metabolites within cellulose membranes. <i>Carbohydrate Polymers</i> , 2017, 157, 371-379.	10.2	16
47	Influence of rotating magnetic field on gas-liquid volumetric mass transfer coefficient. <i>Chemical and Process Engineering - Inżynieria Chemiczna I Procesowa</i> , 2017, 38, 423-432.	0.7	2
48	Investigation of mixing time in liquid under influence of rotating magnetic field. <i>Chemical and Process Engineering - Inżynieria Chemiczna I Procesowa</i> , 2017, 38, 555-565.	0.7	1
49	Time Dependent Influence of Rotating Magnetic Field on Bacterial Cellulose. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-13.	2.7	9
50	Effect of <i>Gluconacetobacter xylinus</i> cultivation conditions on the selected properties of bacterial cellulose. <i>Polish Journal of Chemical Technology</i> , 2016, 18, 117-123.	0.5	9
51	Wet and Dry Forms of Bacterial Cellulose Synthesized by Different Strains of <i>Gluconacetobacter xylinus</i> as Carriers for Yeast Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 805-816.	2.9	23
52	Staphylococci isolated from ready-to-eat meat – Identification, antibiotic resistance and toxin gene profile. <i>International Journal of Food Microbiology</i> , 2016, 238, 113-120.	4.7	56
53	Increased yield and selected properties of bacterial cellulose exposed to different modes of a rotating magnetic field. <i>Engineering in Life Sciences</i> , 2016, 16, 483-493.	3.6	12
54	The influence of a ferrofluid in the presence of an external rotating magnetic field on the growth rate and cell metabolic activity of a wine yeast strain. <i>Biochemical Engineering Journal</i> , 2016, 109, 43-50.	3.6	28

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55	Survival of probiotic lactic acid bacteria immobilized in different forms of bacterial cellulose in simulated gastric juices and bile salt solution. <i>LWT - Food Science and Technology</i> , 2016, 68, 322-328.	5.2	60
56	The Effect of Rotating Magnetic Field on Enterotoxin Genes Expression in <i>Staphylococcus Aureus</i> Strains. <i>Journal of Magnetism</i> , 2016, 21, 141-147.	0.4	2
57	Modification of bacterial cellulose through exposure to the rotating magnetic field. <i>Carbohydrate Polymers</i> , 2015, 133, 52-60.	10.2	39
58	Synthesis and antibacterial activity of Schiff bases and amines derived from alkyl 2-(2-formyl-4-nitrophenoxy)alkanoates. <i>Medicinal Chemistry Research</i> , 2015, 24, 3561-3577.	2.4	24
59	Computational Fluid Dynamics and Experimental Studies of a New Mixing Element in a Static Mixer as a Heat Exchanger. <i>Chemical and Process Engineering - Inżynieria Chemiczna I Procesowa</i> , 2015, 36, 59-72.	0.7	14
60	Effects of rotating magnetic field exposure on the functional parameters of different species of bacteria. <i>Electromagnetic Biology and Medicine</i> , 2015, 34, 48-55.	1.4	22
61	Herd-specific autovaccine and antibiotic treatment in elimination of <i>Staphylococcus aureus</i> mastitis in dairy cattle. <i>Turkish Journal of Veterinary and Animal Sciences</i> , 2014, 38, 496-500.	0.5	4
62	Comparative analysis of superantigen genes in <i>Staphylococcus xylosum</i> and <i>Staphylococcus aureus</i> isolates collected from a single mammary quarter of cows with mastitis. <i>Journal of Microbiology</i> , 2014, 52, 366-372.	2.8	17
63	Effects of 50 Hz rotating magnetic field on the viability of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Electromagnetic Biology and Medicine</i> , 2014, 33, 29-34.	1.4	28
64	Superantigen gene profiles, genetic relatedness and biological activity of exosecretions of <i>Staphylococcus aureus</i> isolates obtained from milk of cows with clinical mastitis. <i>Microbiology and Immunology</i> , 2013, 57, 674-683.	1.4	5
65	The Effects of Rotating Magnetic Field on Growth Rate, Cell Metabolic Activity and Biofilm Formation by <i>Staphylococcus Aureus</i> and <i>Escherichia Coli</i> . <i>Journal of Magnetism</i> , 2013, 18, 289-296.	0.4	26
66	Secretory virulence factors produced by <i>Staphylococcus aureus</i> isolates obtained from mastitic bovine milk – effect on bovine polymorphonuclear neutrophils. <i>Research in Veterinary Science</i> , 2012, 93, 82-87.	1.9	6
67	Influence of <i>S. aureus</i> exosecretions on cytokine profile in bovine leukocyte cultures in vitro. <i>Research in Veterinary Science</i> , 2012, 93, 1179-1184.	1.9	1
68	Inhibition of <i>Streptococcus mutans</i> binding to hydroxylapatite using partially digested whey protein concentrate and individual whey proteins. <i>Journal of Functional Foods</i> , 2012, 4, 559-567.	3.4	3
69	Identification and methicillin resistance of coagulase-negative staphylococci isolated from nasal cavity of healthy horses. <i>Journal of Microbiology</i> , 2012, 50, 444-451.	2.8	34
70	The effect of auto-vaccination therapy on the phenotypic variation of one clonal type of <i>Staphylococcus aureus</i> isolated from cows with mastitis. <i>Veterinary Microbiology</i> , 2012, 155, 434-437.	1.9	9
71	The Usefulness of Saliva as a Biological Material for the Determination of Pharmacokinetics of Model Drugs (Antipyrine, Caffeine, Paracetamol) in Calves: Comparative Study. <i>Journal of Animal and Veterinary Advances</i> , 2011, 10, 1494-1500.	0.1	0