

Karol FijaÅ,kowski

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,232
citations

346980

22
h-index

511568

30
g-index

75
all docs

75
docs citations

75
times ranked

1503
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.	1.3	6
2	The effects of rotating magnetic field and antiseptic on in vitro pathogenic biofilm and its milieu. <i>Scientific Reports</i> , 2022, 12, .	1.6	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.	1.8	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.	2.5	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.	1.8	15
6	Superabsorbent crosslinked bacterial cellulose biomaterials for chronic wound dressings. <i>Carbohydrate Polymers</i> , 2021, 253, 117247.	5.1	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.	1.8	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.	1.8	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.	1.8	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.	1.4	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.	1.8	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.	1.8	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.	1.2	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.	2.0	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.	1.8	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.	1.6	27
17	The Novel Quantitative Assay for Measuring the Antibiofilm Activity of Volatile Compounds (AntiBioVol). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7343.	1.3	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.	1.8	14

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19	Innate Immune Response against Staphylococcus aureus Preincubated with Subinhibitory Concentration of trans-Anethole. International Journal of Molecular Sciences, 2020, 21, 4178.	1.8	16
20	Significant enhancement of citric acid production by Yarrowia lipolytica immobilized in bacterial cellulose-based carrier. Journal of Biotechnology, 2020, 321, 13-22.	1.9	13
21	Functionalized Magnetic Bacterial Cellulose Beads as Carrier for Lecitase® Ultra Immobilization. Applied Biochemistry and Biotechnology, 2019, 187, 176-193.	1.4	12
22	An efficient method of Yarrowia lipolytica immobilization using oil- and emulsion-modified bacterial cellulose carriers. Electronic Journal of Biotechnology, 2019, 41, 30-36.	1.2	6
23	The Activity of Isoquinoline Alkaloids and Extracts from Chelidonium majus against Pathogenic Bacteria and Candida sp.. Toxins, 2019, 11, 406.	1.5	42
24	Hydrodynamic studies in magnetically assisted external-loop airlift reactor. Chemical Engineering Journal, 2019, 362, 298-309.	6.6	13
25	Potential of Biocellulose Carrier Impregnated with Essential Oils to Fight Against Biofilms Formed on Hydroxyapatite. Scientific Reports, 2019, 9, 1256.	1.6	24
26	Potential of Novel Bacterial Cellulose Dressings Chemisorbed with Antiseptics for the Treatment of Oral Biofilm Infections. Applied Sciences (Switzerland), 2019, 9, 5321.	1.3	9
27	Immobilization pattern of morphologically different microorganisms on bacterial cellulose membranes. World Journal of Microbiology and Biotechnology, 2019, 35, 11.	1.7	28
28	Bacterial cellulose as a support for yeast immobilization – Correlation between carrier properties and process efficiency. Journal of Biotechnology, 2019, 291, 1-6.	1.9	15
29	Skuteczność opatrunku UrgoClean® Ag Pad w eradykacji i sekwestracji in vitro drobnoustrojów w białym...czynnikiem etiologicznym zakażeń, ran przewlekłych. Forum Zakażeń, 2019, 10, 159-168.	0.0	0
30	Application of Rotating Magnetic Fields Increase the Activity of Antimicrobials Against Wound Biofilm Pathogens. Scientific Reports, 2018, 8, 167.	1.6	24
31	Modification of Bacterial Cellulose with Quaternary Ammonium Compounds Based on Fatty Acids and Amino Acids and the Effect on Antimicrobial Activity. Biomacromolecules, 2018, 19, 1528-1538.	2.6	52
32	The application of magnetically modified bacterial cellulose for immobilization of laccase. International Journal of Biological Macromolecules, 2018, 108, 462-470.	3.6	52
33	Development and biological evaluation of Ti6Al7Nb scaffold implants coated with gentamycin-saturated bacterial cellulose biomaterial. PLoS ONE, 2018, 13, e0205205.	1.1	28
34	Gas to liquid mass transfer in mixing system with application of rotating magnetic field. Chemical Engineering and Processing: Process Intensification, 2018, 130, 11-18.	1.8	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. Carbohydrate Polymers, 2018, 199, 294-303.	5.1	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, .	0.1	1
38	Evaluation of usefulness of 2DCorr technique in assessing physicochemical properties of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2017, 161, 208-218.	5.1	14
39	Antibiotic loaded microspheres as antimicrobial delivery systems for medical applications. <i>Materials Science and Engineering C</i> , 2017, 77, 69-75.	3.8	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.	1.8	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.	0.3	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.	0.8	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.	0.7	26
44	Effects of a rotating magnetic field on gas-liquid mass transfer coefficient. <i>Chemical Engineering Journal</i> , 2017, 327, 608-617.	6.6	27
45	Increased water content in bacterial cellulose synthesized under rotating magnetic fields. <i>Electromagnetic Biology and Medicine</i> , 2017, 36, 192-201.	0.7	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.	5.1	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.	1.2	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.	0.3	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.	1.4	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.	2.1	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.	2.0	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.	1.8	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.	2.5	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.	0.2	2
57	Modification of bacterial cellulose through exposure to the rotating magnetic field. <i>Carbohydrate Polymers</i> , 2015, 133, 52-60.	5.1	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.	1.1	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.	0.7	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.	0.2	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.	1.3	17
63	Effects of 50â€‰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.	0.7	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.	0.7	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.	0.2	26
66	Secretory virulence factors produced by <i>Staphylococcus aureus</i> isolates obtained from mastitic bovine milk â€“ effect on bovine polymorphonuclear neutrophils. <i>Research in Veterinary Science</i> , 2012, 93, 82-87.	0.9	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.	0.9	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.	1.6	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.	1.3	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.	0.8	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