

# Adam F Junka

## List of Publications by Year in descending order

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83  
papers

1,424  
citations

331642

21  
h-index

395678

33  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1814  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of antibiotics and dietary components on gut microbiota. <i>Przegląd Gastroenterologiczny</i> , 2018, 13, 85-92.	0.7	79
2	Design, Synthesis, and Antimicrobial Evaluation of a Novel Bone-Targeting Bisphosphonate-Ciprofloxacin Conjugate for the Treatment of Osteomyelitis Biofilms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2326-2343.	6.4	77
3	Greater Celandine's Ups and Downs~21 Centuries of Medicinal Uses of <i>Chelidonium majus</i> From the Viewpoint of Today's Pharmacology. <i>Frontiers in Pharmacology</i> , 2018, 9, 299.	3.5	69
4	Superabsorbent crosslinked bacterial cellulose biomaterials for chronic wound dressings. <i>Carbohydrate Polymers</i> , 2021, 253, 117247.	10.2	64
5	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
6	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
7	Efficacy of antiseptics containing povidone-iodine, octenidine dihydrochloride and ethacridine lactate against biofilm formed by <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> measured with the novel biofilm-oriented antiseptics test. <i>International Wound Journal</i> , 2014, 11, 730-734.	2.9	50
8	Bad to the Bone: On In Vitro and Ex Vivo Microbial Biofilm Ability to Directly Destroy Colonized Bone Surfaces without Participation of Host Immunity or Osteoclastogenesis. <i>PLoS ONE</i> , 2017, 12, e0169565.	2.5	47
9	Pamidronate Enhances Bacterial Adhesion to Bone Hydroxyapatite. Another Puzzle in the Pathology of Bisphosphonate-Related Osteonecrosis of the Jaw?. <i>Journal of Oral and Maxillofacial Surgery</i> , 2013, 71, 1010-1016.	1.2	44
10	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
11	3D Printing of Thermoresponsive Hydrogel Laden with an Antimicrobial Agent towards Wound Healing Applications. <i>Bioengineering</i> , 2021, 8, 79.	3.5	42
12	Bacterial cellulose yield increased over 500% by supplementation of medium with vegetable oil. <i>Carbohydrate Polymers</i> , 2018, 199, 294-303.	10.2	39
13	Clinical Trials of Probiotic Strains in Selected Disease Entities. <i>International Journal of Microbiology</i> , 2020, 2020, 1-8.	2.3	29
14	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
15	Immobilization pattern of morphologically different microorganisms on bacterial cellulose membranes. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 11.	3.6	28
16	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
17	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
18	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

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19	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
20	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
21	Bisphosphonates enhance bacterial adhesion and biofilm formation on bone hydroxyapatite. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 863-869.	1.7	22
22	Application of Ti6Al7Nb Alloy for the Manufacture of Biomechanical Functional Structures (BFS) for Custom-Made Bone Implants. <i>Materials</i> , 2018, 11, 971.	2.9	22
23	Bisphosphonates for delivering drugs to bone. <i>British Journal of Pharmacology</i> , 2021, 178, 2008-2025.	5.4	21
24	Improved quality and functional properties of Ti-6Al-4V ELI alloy for personalized orthopedic implants fabrication with EBM process. <i>Journal of Manufacturing Processes</i> , 2022, 76, 175-194.	5.9	21
25	In vitro efficacy of gentamicin released from collagen sponge in eradication of bacterial biofilm preformed on hydroxyapatite surface. <i>PLoS ONE</i> , 2019, 14, e0217769.	2.5	20
26	Microbial Biofilms Are Able to Destroy Hydroxyapatite in the Absence of Host Immunity In Vitro. <i>Journal of Oral and Maxillofacial Surgery</i> , 2015, 73, 451-464.	1.2	17
27	The Impact of EBM-Manufactured Ti6Al4V ELI Alloy Surface Modifications on Cytotoxicity toward Eukaryotic Cells and Microbial Biofilm Formation. <i>Materials</i> , 2020, 13, 2822.	2.9	17
28	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
29	Antibiofilm and Antimicrobial-Enhancing Activity of <i>Chelidonium majus</i> and <i>Corydalis cheilanthifolia</i> Extracts against Multidrug-Resistant <i>Helicobacter pylori</i> . <i>Pathogens</i> , 2021, 10, 1033.	2.8	16
30	The ability of <i>S.aureus</i> to form biofilm on the Ti-6Al-7Nb scaffolds produced by Selective Laser Melting and subjected to the different types of surface modifications. <i>Acta of Bioengineering and Biomechanics</i> , 2013, 15, 69-76.	0.4	16
31	Metabolic profiles of exudates from chronic leg ulcerations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 13-22.	2.8	15
32	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
33	The Antimicrobial and Antibiofilm In Vitro Activity of Liquid and Vapour Phases of Selected Essential Oils against <i>Staphylococcus aureus</i> . <i>Pathogens</i> , 2021, 10, 1207.	2.8	15
34	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
35	The High Impact of <i>Staphylococcus aureus</i> Biofilm Culture Medium on In Vitro Outcomes of Antimicrobial Activity of Wound Antiseptics and Antibiotic. <i>Pathogens</i> , 2021, 10, 1385.	2.8	15
36	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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37	A comparison of an antibacterial sandwich dressing vs dressing containing silver. <i>Wound Repair and Regeneration</i> , 2015, 23, 525-530.	3.0	13
38	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
39	Functionalized Magnetic Bacterial Cellulose Beads as Carrier for Lecitase <sup>®</sup> Ultra Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 176-193.	2.9	12
40	Metronidazole-Loaded Porous Matrices for Local Periodontitis Treatment: In Vitro Evaluation and In Vivo Pilot Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4545.	2.5	12
41	Development and Evaluation of a Polyvinylalcohol -Cellulose Derivative-Based Film with Povidone-Iodine Predicted for Wound Treatment. <i>Polymers</i> , 2020, 12, 1271.	4.5	12
42	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
43	Evaluation of 1,2-Benzothiazine 1,1-Dioxide Derivatives In Vitro Activity towards Clinical-Relevant Microorganisms and Fibroblasts. <i>Molecules</i> , 2020, 25, 3503.	3.8	10
44	Therapeutic Index for Local Infections score validity: a retrospective European analysis. <i>Journal of Wound Care</i> , 2020, 29, 726-734.	1.2	10
45	Bisphosphonates in dentistry: Historical perspectives, adverse effects, and novel applications. <i>Bone</i> , 2021, 147, 115933.	2.9	10
46	Antimicrobial and Antioxidative Activity of Newly Synthesized Peptides Absorbed into Bacterial Cellulose Carrier against <i>Acne vulgaris</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 7466.	4.1	10
47	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
48	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
49	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
50	Therapeutic index for local infections score (TILI): a new diagnostic tool. <i>Journal of Wound Care</i> , 2020, 29, 720-726.	1.2	8
51	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
52	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
53	Screening Papaveraceae as Novel Antibiofilm Natural-Based Agents. <i>Molecules</i> , 2021, 26, 4778.	3.8	7
54	The In Vitro Ability of <i>Klebsiella pneumoniae</i> to Form Biofilm and the Potential of Various Compounds to Eradicate It from Urinary Catheters. <i>Pathogens</i> , 2022, 11, 42.	2.8	7

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55	In Vitro Cytotoxicity, Colonisation by Fibroblasts and Antimicrobial Properties of Surgical Meshes Coated with Bacterial Cellulose. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4835.	4.1	7
56	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
57	The Novel Quantitative Assay for Measuring the Antibiofilm Activity of Volatile Compounds (AntiBioVol). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7343.	2.5	6
58	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
59	Metabolomics analysis of fungal biofilm development and of arachidonic acid-based quorum sensing mechanism. <i>Journal of Basic Microbiology</i> , 2017, 57, 428-439.	3.3	5
60	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
61	Rotating Magnetic Field Increases $\beta$ -Lactam Antibiotic Susceptibility of Methicillin-Resistant <i>Staphylococcus aureus</i> Strains. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12397.	4.1	5
62	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
63	Phytochemical Composition and Antimicrobial Activity of <i>Corydalis solida</i> and <i>Pseudofumaria lutea</i> . <i>Molecules</i> , 2020, 25, 3591.	3.8	4
64	Modifications of bacterial cellulose in wound care. <i>Polimery W Medycynie</i> , 2021, 51, 77-84.	1.7	4
65	“Cookies on a tray”: Superselective hierarchical microstructured poly(L-lactide) surface as a decoy for cells. <i>Materials Science and Engineering C</i> , 2022, 133, 112648.	7.3	4
66	The influence of different composite mixtures (PLA/HA) manufactured with additive laser technology on the ability of <i>S. aureus</i> and <i>P. aeruginosa</i> to form biofilms. <i>Acta of Bioengineering and Biomechanics</i> , 2018, 20, 101-106.	0.4	4
67	Material Extrusion-Based Additive Manufacturing of Poly(Lactic Acid) Antibacterial Filaments—A Case Study of Antimicrobial Properties. <i>Polymers</i> , 2021, 13, 4337.	4.5	4
68	Chemical Composition and Antibacterial Activity of Liquid and Volatile Phase of Essential Oils against Planktonic and Biofilm-Forming Cells of <i>Pseudomonas aeruginosa</i> . <i>Molecules</i> , 2022, 27, 4096.	3.8	4
69	LC-QTOF-MS and 1H NMR Metabolomics Verifies Potential Use of Greater Omentum for <i>Klebsiella pneumoniae</i> Biofilm Eradication in Rats. <i>Pathogens</i> , 2020, 9, 399.	2.8	3
70	Human Saliva-Mediated Hydrolysis of Eugenyl- $\beta$ -D-Glucoside and Fluorescein-di- $\beta$ -D-Glucoside in In Vivo and In Vitro Models. <i>Biomolecules</i> , 2021, 11, 172.	4.0	3
71	The Phylogenetic Structure of Reptile, Avian and Uropathogenic <i>Escherichia coli</i> with Particular Reference to Extraintestinal Pathotypes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1192.	4.1	3
72	The chemical digestion of Ti6Al7Nb scaffolds produced by Selective Laser Melting reduces significantly ability of <i>Pseudomonas aeruginosa</i> to form biofilm. <i>Acta of Bioengineering and Biomechanics</i> , 2016, 18, 115-20.	0.4	3

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73	Biomedical Ti-Nb-Zr Foams Prepared by Means of Thermal Dealloying Process and Electrochemical Modification. <i>Materials</i> , 2022, 15, 2130.	2.9	3
74	Postępowanie przeciwbakteryjne (antyseptyka) u pacjentów oparzonych. <i>Chirurgia Plastyczna i Oparzenia / Plastic Surgery &amp; Burns</i> , 2019, 7, 91-100.	0.1	2
75	Preparation and Properties of Bulk and Porous Ti-Ta-Ag Biomedical Alloys. <i>Materials</i> , 2022, 15, 4332.	2.9	2
76	Consensus recommendation: Indications and methods for microbiological wound diagnostics. <i>Wound Medicine</i> , 2018, 23, 53-57.	2.7	1
77	Wskaźnik terapeutyczny miejscowego zakażenia rany (TILI) jako przydatne narzędzie w efektywnej pielęgnacji ran niegojących się dla lekarzy i pielęgniarek podstawowej opieki zdrowotnej, lekarzy rodzinnych i personelu zakładu opiekuńczo-leczniczych. <i>Forum Zakażeń</i> , 2020, 11, 285-295.	0.0	1
78	The detection and expression of enterotoxinencoding lth gene among <i>Klebsiella</i> spp. isolated from diarrhoea. <i>Open Life Sciences</i> , 2013, 8, 121-129.	1.4	0
79	Skuteczność opatrunku UrgoClean® Ag Pad w eradykacji i sekwestracji in vitro drobnoustrojów będących czynnikiem etiologicznym zakażeń, ran przewlekłych. <i>Forum Zakażeń</i> , 2019, 10, 159-168.	0.0	0
80	Ocena aktywności in vitro macy SutriHeal® Forte 5% względem <i>Staphylococcus aureus</i> i <i>Pseudomonas aeruginosa</i> oraz linii komórkowych odpowiedzialnych za proces gojenia się rany. <i>Forum Leczenia Ran</i> , 2020, 2, 71-80.	0.0	0
81	Gentamycyna w terapii zakażeń, i jej miejscowe stosowanie na nośniku kolagenowym a oporność drobnoustrojów. <i>Forum Zakażeń</i> , 2019, 10, 275-286.	0.0	0
82	Biological evaluation of selective laser melted magnesium alloy powder. <i>Acta of Bioengineering and Biomechanics</i> , 2021, 23, 121-133.	0.4	0
83	Influence of the different composites (PLA/PLLA/HA/β-TCP) contents manufactured with the use of additive laser technology on the biocompatibility. <i>Acta of Bioengineering and Biomechanics</i> , 2021, 23, 169-180.	0.4	0