

# Frank Rosenau

## List of Publications by Year in descending order

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61  
papers

3,020  
citations

186265

28  
h-index

168389

53  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Activities against Biofilms of the Pathogenic Yeast <i>Candida albicans</i> of Optimized Pom-1 Derivatives. <i>Pharmaceutics</i> , 2022, 14, 318.	4.5	5
2	Polyclonal aptamer libraries as binding entities on a graphene FET based biosensor for the discrimination of apo- and holo-retinol binding protein 4. <i>Nanoscale Horizons</i> , 2022, 7, 770-778.	8.0	10
3	Combination of Six Individual Derivatives of the Pom-1 Antibiofilm Peptide Doubles Their Efficacy against Invasive and Multi-Resistant Clinical Isolates of the Pathogenic Yeast <i>Candida Albicans</i> . <i>Pharmaceutics</i> , 2022, 14, 1332.	4.5	2
4	A Polyclonal Aptamer Library for the Specific Binding of the Gut Bacterium <i>Roseburia intestinalis</i> in Mixtures with Other Gut Microbiome Bacteria and Human Stool Samples. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7744.	4.1	7
5	Bioconversion of lignocellulosic "waste"™ to high-value food proteins: Recombinant production of bovine and human I± S1 "casein based on wheat straw lignocellulose. <i>GCB Bioenergy</i> , 2021, 13, 640-655.	5.6	3
6	Antimicrobial Peptides Pom-1 and Pom-2 from <i>Pomacea poeyana</i> Are Active against <i>Candida auris</i> , <i>C. parapsilosis</i> and <i>C. albicans</i> Biofilms. <i>Pathogens</i> , 2021, 10, 496.	2.8	13
7	Antimicrobial Activity of Cyclic-Monomeric and Dimeric Derivatives of the Snail-Derived Peptide Cm-p5 against Viral and Multidrug-Resistant Bacterial Strains. <i>Biomolecules</i> , 2021, 11, 745.	4.0	6
8	FluCell-SELEX Aptamers as Specific Binding Molecules for Diagnostics of the Health Relevant Gut Bacterium <i>Akkermansia muciniphila</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 10425.	4.1	11
9	Diffusion-controlled release of the theranostic protein-photosensitizer Azulitox from composite of Fmoc-Phenylalanine Fibrils encapsulated with BSA hydrogels. <i>Journal of Biotechnology</i> , 2021, 341, 51-62.	3.8	3
10	Albumin Microspheres as "Trans-Ferry-Beads" for Easy Cell Passaging in Cell Culture Technology. <i>Gels</i> , 2021, 7, 176.	4.5	3
11	BSA Hydrogel Beads Functionalized with a Specific Aptamer Library for Capturing <i>Pseudomonas aeruginosa</i> in Serum and Blood. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11118.	4.1	8
12	Polyclonal Aptamers for Specific Fluorescence Labeling and Quantification of the Health Relevant Human Gut Bacterium <i>Parabacteroides distasonis</i> . <i>Microorganisms</i> , 2021, 9, 2284.	3.6	6
13	Heterologous Rhamnolipid Biosynthesis: Advantages, Challenges, and the Opportunity to Produce Tailor-Made Rhamnolipids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 594010.	4.1	14
14	Azulitox" A <i>Pseudomonas aeruginosa</i> P28-Derived Cancer-Cell-Specific Protein Photosensitizer. <i>Biomacromolecules</i> , 2020, 21, 5067-5076.	5.4	5
15	New Antibacterial Peptides from the Freshwater Mollusk <i>Pomacea poeyana</i> (Pilsbry, 1927). <i>Biomolecules</i> , 2020, 10, 1473.	4.0	15
16	The Diversity of a Polyclonal FluCell"SELEX Library Outperforms Individual Aptamers as Emerging Diagnostic Tools for the Identification of Carbapenem Resistant <i>Pseudomonas aeruginosa</i> . <i>Chemistry - A European Journal</i> , 2020, 26, 14536-14545.	3.3	18
17	Ultrathin Polydopamine Films with Phospholipid Nanodiscs Containing a Glycophorin A Domain. <i>Advanced Functional Materials</i> , 2020, 30, 2000378.	14.9	36
18	Derivates of the Antifungal Peptide Cm-p5 Inhibit Development of <i>Candida auris</i> Biofilms In Vitro. <i>Antibiotics</i> , 2020, 9, 363.	3.7	22

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19	A Cerberus-Inspired Anti-Infective Multicomponent Gatekeeper Hydrogel against Infections with the Emerging "Superbug" Yeast <i>Candida auris</i> . <i>Macromolecular Bioscience</i> , 2020, 20, e2000005.	4.1	17
20	Design of a Helical-Stabilized, Cyclic, and Nontoxic Analogue of the Peptide Cm-p5 with Improved Antifungal Activity. <i>ACS Omega</i> , 2019, 4, 19081-19095.	3.5	26
21	Potential of biotechnological conversion of lignocellulose hydrolyzates by <i>Pseudomonas putida</i> KT2440 as a model organism for a bio-based economy. <i>GCB Bioenergy</i> , 2019, 11, 1421-1434.	5.6	17
22	Heterologous rhamnolipid biosynthesis by <i>P. putida</i> KT2440 on bio-oil derived small organic acids and fractions. <i>AMB Express</i> , 2019, 9, 80.	3.0	33
23	Growth of engineered <i>Pseudomonas putida</i> KT2440 on glucose, xylose, and arabinose: Hemicellulose hydrolysates and their major sugars as sustainable carbon sources. <i>GCB Bioenergy</i> , 2019, 11, 249-259.	5.6	35
24	One-step bioconversion of hemicellulose polymers to rhamnolipids with <i>Cellvibrio japonicus</i> : A proof-of-concept for a potential host strain in future bioeconomy. <i>GCB Bioenergy</i> , 2019, 11, 260-268.	5.6	17
25	Lectin-Functionalized Composite Hydrogels for "Capture-and-Killing" of Carbapenem-Resistant <i>Pseudomonas aeruginosa</i> . <i>Biomacromolecules</i> , 2018, 19, 2472-2482.	5.4	17
26	Heterologous production of long-chain rhamnolipids from <i>Burkholderia glumae</i> in <i>Pseudomonas putida</i> —a step forward to tailor-made rhamnolipids. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1229-1239.	3.6	51
27	On the road towards tailor-made rhamnolipids: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8175-8185.	3.6	31
28	Novel insights into biosynthesis and uptake of rhamnolipids and their precursors. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2865-2878.	3.6	89
29	Easy Manipulation of Architectures in Protein-based Hydrogels for Cell Culture Applications. <i>Journal of Visualized Experiments</i> , 2017, . .	0.3	5
30	Lectin-mediated reversible immobilization of human cells into a glycosylated macroporous protein hydrogel as a cell culture matrix. <i>Scientific Reports</i> , 2017, 7, 6151.	3.3	16
31	Beyond bread and beer: whole cell protein extracts from baker's yeast as a bulk source for 3D cell culture matrices. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1907-1917.	3.6	7
32	Evaluation of methods for pore generation and their influence on physio-chemical properties of a protein based hydrogel. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016, 12, 6-12.	4.4	46
33	Creating metabolic demand as an engineering strategy in <i>Pseudomonas putida</i> " Rhamnolipid synthesis as an example. <i>Metabolic Engineering Communications</i> , 2016, 3, 234-244.	3.6	73
34	A Novel Cheap and Easy to Handle Protein Hydrogel for 3D Cell Culture Applications: A High Stability Matrix with Tunable Elasticity and Cell Adhesion Properties. <i>ChemistrySelect</i> , 2016, 1, 1353-1360.	1.5	9
35	Subtilase SprP exerts pleiotropic effects in <i>Pseudomonas aeruginosa</i> . <i>MicrobiologyOpen</i> , 2014, 3, 89-103.	3.0	12
36	Heterologous production of the lipopeptide biosurfactant serrawettin W1 in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2014, 181, 27-30.	3.8	45

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37	Interaction between extracellular lipase LipA and the polysaccharide alginate of <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2013, 13, 159.	3.3	75
38	TREX: A Universal Tool for the Transfer and Expression of Biosynthetic Pathways in Bacteria. <i>ACS Synthetic Biology</i> , 2013, 2, 22-33.	3.8	76
39	Novel broad host range shuttle vectors for expression in <i>Escherichia coli</i> , <i>Bacillus subtilis</i> and <i>Pseudomonas putida</i> . <i>Journal of Biotechnology</i> , 2012, 161, 71-79.	3.8	44
40	Specific Association of Lectin LecB with the Surface of <i>Pseudomonas aeruginosa</i> : Role of Outer Membrane Protein OprF. <i>PLoS ONE</i> , 2012, 7, e46857.	2.5	36
41	The subcellular localization of a C-terminal processing protease in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2011, 316, 23-30.	1.8	31
42	The BapF protein from <i>Pseudomonas aeruginosa</i> is a $\hat{I}^2$ -peptidyl aminopeptidase. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 713-718.	3.6	13
43	Autotransporters with GDSL Passenger Domains: Molecular Physiology and Biotechnological Applications. <i>ChemBioChem</i> , 2011, 12, 1476-1485.	2.6	31
44	The Lipase LipA (PA2862) but Not LipC (PA4813) from <i>Pseudomonas aeruginosa</i> Influences Regulation of Pyoverdine Production and Expression of the Sigma Factor PvdS. <i>Journal of Bacteriology</i> , 2011, 193, 5858-5860.	2.2	13
45	Glycosylation Is Required for Outer Membrane Localization of the Lectin LecB in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1107-1113.	2.2	20
46	Lipase LipC affects motility, biofilm formation and rhamnolipid production in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2010, 309, no-no.	1.8	35
47	Extracellular enzymes affect biofilm formation of mucoid <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 2239-2252.	1.8	102
48	Single-Cell High-Throughput Screening To Identify Enantioselective Hydrolytic Enzymes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5085-5088.	13.8	81
49	Inhibition and Dispersion of <i>Pseudomonas aeruginosa</i> Biofilms by Glycopeptide Dendrimers Targeting the Fucose-Specific Lectin LecB. <i>Chemistry and Biology</i> , 2008, 15, 1249-1257.	6.0	211
50	Mutations towards enantioselectivity adversely affect secretion of <i>Pseudomonas aeruginosa</i> lipase. <i>FEMS Microbiology Letters</i> , 2008, 282, 65-72.	1.8	10
51	The Autotransporter Esterase EstA of <i>Pseudomonas aeruginosa</i> Is Required for Rhamnolipid Production, Cell Motility, and Biofilm Formation. <i>Journal of Bacteriology</i> , 2007, 189, 6695-6703.	2.2	151
52	Hexadecane and Tween 80 Stimulate Lipase Production in <i>Burkholderia glumae</i> by Different Mechanisms. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3838-3844.	3.1	75
53	Combinatorial variation of branching length and multivalency in a large (390 member) glycopeptide dendrimer library: ligands for fucose-specific lectins. <i>New Journal of Chemistry</i> , 2007, 31, 1291.	2.8	51
54	Functional Cell-Surface Display of a Lipase-Specific Chaperone. <i>ChemBioChem</i> , 2007, 8, 55-60.	2.6	30

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55	Complete genome sequence of the myxobacterium <i>Sorangium cellulosum</i> . <i>Nature Biotechnology</i> , 2007, 25, 1281-1289.	17.5	354
56	Lectin-based affinity tag for one-step protein purification. <i>BioTechniques</i> , 2006, 41, 327-332.	1.8	20
57	<i>Pseudomonas aeruginosa</i> lectin LecB is located in the outer membrane and is involved in biofilm formation. <i>Microbiology (United Kingdom)</i> , 2005, 151, 1313-1323.	1.8	303
58	Lipase-Specific Foldases. <i>ChemBioChem</i> , 2004, 5, 152-161.	2.6	68
59	Reduced virulence of a hfq mutant of <i>Pseudomonas aeruginosa</i> O1. <i>Microbial Pathogenesis</i> , 2003, 35, 217-228.	2.9	227
60	Bacterial lipases from <i>Pseudomonas</i> : Regulation of gene expression and mechanisms of secretion. <i>Biochimie</i> , 2000, 82, 1023-1032.	2.6	160
61	Bacterial lipases for biotechnological applications. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1997, 3, 3-12.	1.8	70