

# Anne Marie Krachler

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,213  
citations

257450

24  
h-index

243625

44  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defective phagocyte association during infection of <i>Galleria mellonella</i> with <i>Yersinia pseudotuberculosis</i> is detrimental to both insect host and microbe. <i>Virulence</i> , 2021, 12, 638-653.	4.4	13
2	The zebrafish as a model for gastrointestinal tract-microbe interactions. <i>Cellular Microbiology</i> , 2020, 22, e13152.	2.1	69
3	Bacterial adhesion inhibitor prevents infection in a rodent surgical incision model. <i>Virulence</i> , 2020, 11, 695-706.	4.4	2
4	The <i>E. coli</i> transcription factor GrIA is regulated by subcellular compartmentalization and activated in response to mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9519-9528.	7.1	15
5	Mathematical model predicts anti-adhesion-antibiotic-debridement combination therapies can clear an antibiotic resistant infection. <i>PLoS Computational Biology</i> , 2019, 15, e1007211.	3.2	8
6	Outer Membrane Vesicle-Host Cell Interactions. <i>Microbiology Spectrum</i> , 2019, 7, .	3.0	120
7	Optimal translational fidelity is critical for Salmonella virulence and host interactions. <i>Nucleic Acids Research</i> , 2019, 47, 5356-5367.	14.5	21
8	Using the Protozoan <i>Paramecium caudatum</i> as a Vehicle for Food-borne Infections in Zebrafish Larvae. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	20
9	Structural Determinants of the Stability of Enzyme-Responsive Polyion Complex Nanoparticles Targeting <i>Pseudomonas aeruginosa</i> 's Elastase. <i>ChemNanoMat</i> , 2018, 4, 807-814.	2.8	9
10	Adhesins During Infection. , 2018, , 28-28.		0
11	Aggregation of <i>Vibrio cholerae</i> by Cationic Polymers Enhances Quorum Sensing but Overrides Biofilm Dissipation in Response to Autoinduction. <i>ACS Chemical Biology</i> , 2018, 13, 3021-3029.	3.4	12
12	Predictive modelling of a novel anti-adhesion therapy to combat bacterial colonisation of burn wounds. <i>PLoS Computational Biology</i> , 2018, 14, e1006071.	3.2	10
13	cAMP Receptor Protein Controls <i>Vibrio cholerae</i> Gene Expression in Response to Host Colonization. <i>MBio</i> , 2018, 9, .	4.1	46
14	Mathematical modelling of the antibiotic-induced morphological transition of <i>Pseudomonas aeruginosa</i> . <i>PLoS Computational Biology</i> , 2018, 14, e1006012.	3.2	19
15	Engineering microbial physiology with synthetic polymers: cationic polymers induce biofilm formation in <i>Vibrio cholerae</i> and downregulate the expression of virulence genes. <i>Chemical Science</i> , 2017, 8, 5291-5298.	7.4	9
16	Zebrafish ( <i>Danio rerio</i> ) as a Vertebrate Model Host To Study Colonization, Pathogenesis, and Transmission of Foodborne <i>Escherichia coli</i> O157. <i>MSphere</i> , 2017, 2, .	2.9	30
17	Polymyxin B containing polyion complex (PIC) nanoparticles: Improving the antimicrobial activity by tailoring the degree of polymerisation of the inert component. <i>Scientific Reports</i> , 2017, 7, 9396.	3.3	24
18	Preparation and antimicrobial evaluation of polyion complex (PIC) nanoparticles loaded with polymyxin B. <i>European Polymer Journal</i> , 2017, 87, 478-486.	5.4	33

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19	3-Sulfogalactosylâ€“dependent adhesion of <i>Escherichia coli</i> HS multivalent adhesion molecule is attenuated by sulfatase activity. <i>Journal of Biological Chemistry</i> , 2017, 292, 19792-19803.	3.4	16
20	Lipopolysaccharide structure impacts the entry kinetics of bacterial outer membrane vesicles into host cells. <i>PLoS Pathogens</i> , 2017, 13, e1006760.	4.7	63
21	Sexual Healthâ€”Get Involved: A Kinesthetic Learning Experience of STI Transmission and Prevention. <i>Journal of Microbiology and Biology Education</i> , 2016, 17, 302-304.	1.0	1
22	The Multivalent Adhesion Molecule SSO1327 plays a key role in <i>Shigella sonnei</i> pathogenesis. <i>Molecular Microbiology</i> , 2016, 99, 658-673.	2.5	25
23	Against the tide: the role of bacterial adhesion in host colonization. <i>Biochemical Society Transactions</i> , 2016, 44, 1571-1580.	3.4	90
24	Targeting bacterial adherence inhibits multidrug-resistant <i>Pseudomonas aeruginosa</i> infection following burn injury. <i>Scientific Reports</i> , 2016, 6, 39341.	3.3	32
25	Enzyme-responsive polyion complex (PIC) nanoparticles for the targeted delivery of antimicrobial polymers. <i>Polymer Chemistry</i> , 2016, 7, 2684-2690.	3.9	31
26	BamB and outer membrane biogenesis â€“ The Achilles' heel for targeting <i>Klebsiella</i> infections?. <i>Virulence</i> , 2016, 7, 508-511.	4.4	4
27	Mechanisms of outer membrane vesicle entry into host cells. <i>Cellular Microbiology</i> , 2016, 18, 1508-1517.	2.1	229
28	Displacement of Pathogens by an Engineered Bacterium Is a Multifactorial Process That Depends on Attachment Competition and Interspecific Antagonism. <i>Infection and Immunity</i> , 2016, 84, 1704-1711.	2.2	9
29	Mechanosensing regulates virulence in <i>Escherichia coli</i> O157:H7. <i>Gut Microbes</i> , 2016, 7, 63-67.	9.8	9
30	Thereâ€™s More to Science than Research: A Team-Based Role Game to Develop School Studentsâ€™ Understanding of Science Careers in Pharmaceutical Quality Control. <i>Journal of Microbiology and Biology Education</i> , 2015, 16, 263-265.	1.0	0
31	Fatal Attraction: How Bacterial Adhesins Affect Host Signaling and What We Can Learn from Them. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2626-2640.	4.1	45
32	<i>Vibrio parahaemolyticus</i> virulence determinants. , 2015, , 230-260.		10
33	Dual function of a bacterial protein as an adhesin and extracellular effector of host GTPase signaling. <i>Small GTPases</i> , 2015, 6, 153-156.	1.6	7
34	Bacterial fitness shapes the population dynamics of antibiotic-resistant and -susceptible bacteria in a model of combined antibiotic and anti-virulence treatment. <i>Journal of Theoretical Biology</i> , 2015, 372, 1-11.	1.7	51
35	Host attachment and fluid shear are integrated into a mechanical signal regulating virulence in <i>Escherichia coli</i> O157:H7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5503-5508.	7.1	117
36	Multivalent Adhesion Molecule 7 Clusters Act as Signaling Platform for Host Cellular GTPase Activation and Facilitate Epithelial Barrier Dysfunction. <i>PLoS Pathogens</i> , 2014, 10, e1004421.	4.7	18

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37	Structural and regulatory mutations in <i>Vibrio parahaemolyticus</i> type III secretion systems display variable effects on virulence. FEMS Microbiology Letters, 2014, 361, 107-114.	1.8	21
38	Pathogen-induced lipid coalescence in the host membrane causes downstream activation of Rho GTPase (LB229). FASEB Journal, 2014, 28, LB229.	0.5	0
39	The first engagement of partners in the <i>Uprymna scolopes</i> – <i>Vibrio fischeri</i> symbiosis is a two-step process initiated by a few environmental symbiont cells. Environmental Microbiology, 2013, 15, 2937-2950.	3.8	51
40	Targeting the bacteria–host interface. Virulence, 2013, 4, 284-294.	4.4	191
41	Made to Stick: Anti-Adhesion Therapy for Bacterial Infections. Microbe Magazine, 2013, 8, 286-290.	0.4	10
42	A MAM7 Peptide-Based Inhibitor of Staphylococcus aureus Adhesion Does Not Interfere with In Vitro Host Cell Function. PLoS ONE, 2013, 8, e81216.	2.5	21
43	Turnabout is fair play. Virulence, 2012, 3, 68-71.	4.4	26
44	In vitro characterization of multivalent adhesion molecule 7-based inhibition of multidrug-resistant bacteria isolated from wounded military personnel. Virulence, 2012, 3, 389-399.	4.4	25
45	Type III Effector VopC Mediates Invasion for Vibrio Species. Cell Reports, 2012, 1, 453-460.	6.4	110
46	Manipulation of kinase signaling by bacterial pathogens. Journal of Cell Biology, 2011, 195, 1083-1092.	5.2	117
47	Functional Characterization of the Interaction between Bacterial Adhesin Multivalent Adhesion Molecule 7 (MAM7) Protein and Its Host Cell Ligands. Journal of Biological Chemistry, 2011, 286, 38939-38947.	3.4	73
48	Outer membrane adhesion factor multivalent adhesion molecule 7 initiates host cell binding during infection by Gram-negative pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11614-11619.	7.1	128
49	Self-association of TPR domains: Lessons learned from a designed, consensus-based TPR oligomer. Proteins: Structure, Function and Bioinformatics, 2010, 78, NA-NA.	2.6	41
50	TolA Modulates the Oligomeric Status of YbgF in the Bacterial Periplasm. Journal of Molecular Biology, 2010, 403, 270-285.	4.2	34
51	Allosteric $\hat{2}$ -propeller signalling in TolB and its manipulation by translocating colicins. EMBO Journal, 2009, 28, 2846-2857.	7.8	81
52	Allosteric $\hat{2}$ -propeller signalling in TolB and its manipulation by translocating colicins. EMBO Journal, 2009, 28, 2858-2858.	7.8	0
53	Ex vivo reversal of in vivo transdifferentiation in mesothelial cells grown from peritoneal dialysate effluents. Nephrology Dialysis Transplantation, 2006, 21, 2943-2947.	0.7	54
54	Outer Membrane Vesicle-Host Cell Interactions. , 0, , 201-214.		7

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55	Mathematical Modelling of Pseudomonas aeruginosa L-forms Reveals Complex Interplay Between Host Defence Mechanisms and Putative Treatments. <i>Frontiers in Systems Biology</i> , 0, 2, .	0.7	0