

Årjan Samuelson

List of Publications by Year in descending order

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95
papers

5,364
citations

109321

35
h-index

88630

70
g-index

111
all docs

111
docs citations

111
times ranked

6540
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid evolution and spread of carbapenemases among Enterobacteriaceae in Europe. <i>Clinical Microbiology and Infection</i> , 2012, 18, 413-431.	6.0	727
2	Occurrence of carbapenemase-producing <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> in the European survey of carbapenemase-producing Enterobacteriaceae (EuSCAPE): a prospective, multinational study. <i>Lancet Infectious Diseases</i> , The, 2017, 17, 153-163.	9.1	522
3	The role of whole genome sequencing in antimicrobial susceptibility testing of bacteria: report from the EUCAST Subcommittee. <i>Clinical Microbiology and Infection</i> , 2017, 23, 2-22.	6.0	428
4	Insights into the global molecular epidemiology of carbapenem non-susceptible clones of <i>Acinetobacter baumannii</i> . <i>Drug Resistance Updates</i> , 2012, 15, 237-247.	14.4	261
5	<i>Escherichia coli</i> Sequence Type 410 Is Causing New International High-Risk Clones. <i>MSphere</i> , 2018, 3, .	2.9	183
6	A sensitive and specific phenotypic assay for detection of metallo- β -lactamases and KPC in <i>Klebsiella pneumoniae</i> with the use of meropenem disks supplemented with aminophenylboronic acid, dipicolinic acid and cloxacillin. <i>Clinical Microbiology and Infection</i> , 2011, 17, 552-556.	6.0	178
7	Emergence of clonally related <i>Klebsiella pneumoniae</i> isolates of sequence type 258 producing plasmid-mediated KPC carbapenemase in Norway and Sweden. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 63, 654-658.	3.0	156
8	Molecular Epidemiology of Metallo- β -Lactamase-Producing <i>Pseudomonas aeruginosa</i> Isolates from Norway and Sweden Shows Import of International Clones and Local Clonal Expansion. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 346-352.	3.2	136
9	Species identification and molecular characterization of <i>Acinetobacter</i> spp. blood culture isolates from Norway. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 738-744.	3.0	110
10	Lactoferricin B inhibits bacterial macromolecular synthesis in and. <i>FEMS Microbiology Letters</i> , 2004, 237, 377-384.	1.8	108
11	A Long-Term Low-Frequency Hospital Outbreak of KPC-Producing <i>Klebsiella pneumoniae</i> Involving Intergenous Plasmid Diffusion and a Persisting Environmental Reservoir. <i>PLoS ONE</i> , 2013, 8, e59015.	2.5	102
12	Integrated chromosomal and plasmid sequence analyses reveal diverse modes of carbapenemase gene spread among <i>Klebsiella pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25043-25054.	7.1	97
13	Antimicrobial and cytotoxic activity of agelasine and agelasimine analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4016-4037.	3.0	80
14	Conserved collateral antibiotic susceptibility networks in diverse clinical strains of <i>Escherichia coli</i> . <i>Nature Communications</i> , 2018, 9, 3673.	12.8	76
15	Molecular epidemiology of KPC-2- producing <i>Klebsiella pneumoniae</i> isolates in Brazil: the predominance of sequence type 437. <i>Diagnostic Microbiology and Infectious Disease</i> , 2011, 70, 274-277.	1.8	73
16	Molecular characterization of VIM-producing <i>Klebsiella pneumoniae</i> from Scandinavia reveals genetic relatedness with international clonal complexes encoding transferable multidrug resistance. <i>Clinical Microbiology and Infection</i> , 2011, 17, 1811-1816.	6.0	70
17	Plasmid-mediated quinolone resistance determinants qnr and aac(6)-Ib-cr in <i>Escherichia coli</i> and <i>Klebsiella</i> spp. from Norway and Sweden. <i>Diagnostic Microbiology and Infectious Disease</i> , 2010, 66, 425-431.	1.8	66
18	Identification of NDM-1-producing Enterobacteriaceae in Norway. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 670-672.	3.0	65

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19	Spread of Plasmid-Encoded NDM-1 and GES-5 Carbapenemases among Extensively Drug-Resistant and Pandrug-Resistant Clinical Enterobacteriaceae in Durban, South Africa. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	65
20	OXA-48-Mediated Ceftazidime-Avibactam Resistance Is Associated with Evolutionary Trade-Offs. <i>MSphere</i> , 2019, 4, .	2.9	63
21	(+)-Agelasine D: Improved Synthesis and Evaluation of Antibacterial and Cytotoxic Activities#. <i>Journal of Natural Products</i> , 2006, 69, 381-386.	3.0	61
22	Evaluation of a new real-time PCR assay (Check-Direct CPE) for rapid detection of KPC, OXA-48, VIM, and NDM carbapenemases using spiked rectal swabs. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013, 77, 316-320.	1.8	58
23	Crystal Structure of the Mobile Metallo-β ² -Lactamase AIM-1 from <i>Pseudomonas aeruginosa</i> : Insights into Antibiotic Binding and the Role of Gln157. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4341-4353.	3.2	57
24	CRISPR-cas Subtype I-Fb in <i>Acinetobacter baumannii</i> : Evolution and Utilization for Strain Subtyping. <i>PLoS ONE</i> , 2015, 10, e0118205.	2.5	57
25	Emergence of OXA-carbapenemase- and 16S rRNA methylase-producing international clones of <i>Acinetobacter baumannii</i> in Norway. <i>Journal of Medical Microbiology</i> , 2011, 60, 515-521.	1.8	56
26	Proteases in <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> confer reduced susceptibility to lactoferrin B. <i>Journal of Antimicrobial Chemotherapy</i> , 2002, 50, 461-467.	3.0	55
27	Comparison of disk diffusion, Etest and VITEK2 for detection of carbapenemase-producing <i>Klebsiella pneumoniae</i> with the EUCAST and CLSI breakpoint systems. <i>Clinical Microbiology and Infection</i> , 2011, 17, 668-674.	6.0	54
28	Genetic and Biochemical Characterization of a Novel Metallo-β ² -Lactamase, TMB-1, from an <i>Achromobacter xylosoxidans</i> Strain Isolated in Tripoli, Libya. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2241-2245.	3.2	53
29	Molecular and epidemiological characterization of carbapenemase-producing Enterobacteriaceae in Norway, 2007 to 2014. <i>PLoS ONE</i> , 2017, 12, e0187832.	2.5	53
30	Metallo-β ² -lactamase inhibitors by bioisosteric replacement: Preparation, activity and binding. <i>European Journal of Medicinal Chemistry</i> , 2017, 135, 159-173.	5.5	48
31	Increased prevalence of aminoglycoside resistance in clinical isolates of <i>Escherichia coli</i> and <i>Klebsiella</i> spp. in Norway is associated with the acquisition of AAC(3)-II and AAC(6â€²)-Ib. <i>Diagnostic Microbiology and Infectious Disease</i> , 2014, 78, 66-69.	1.8	46
32	<i>Staphylococcus aureus</i> small colony variants are resistant to the antimicrobial peptide lactoferrin B. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 56, 1126-1129.	3.0	44
33	A Trade-off between the Fitness Cost of Functional Integrases and Long-term Stability of Integrons. <i>PLoS Pathogens</i> , 2012, 8, e1003043.	4.7	43
34	Emergence and dissemination of antimicrobial resistance in <i>Escherichia coli</i> causing bloodstream infections in Norway in 2002â€“17: a nationwide, longitudinal, microbial population genomic study. <i>Lancet Microbe</i> , The, 2021, 2, e331-e341.	7.3	43
35	Low biological cost of carbapenemase-encoding plasmids following transfer from <i>Klebsiella pneumoniae</i> to <i>Escherichia coli</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 85-89.	3.0	42
36	Anti-complement effects of lactoferrin-derived peptides. <i>FEMS Immunology and Medical Microbiology</i> , 2004, 41, 141-148.	2.7	39

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37	The antimicrobial activity of mecillinam, nitrofurantoin, temocillin and fosfomycin and comparative analysis of resistance patterns in a nationwide collection of ESBL-producing <i>Escherichia coli</i> in Norway 2010–2011. <i>Infectious Diseases</i> , 2016, 48, 99-107.	2.8	39
38	Induced resistance to the antimicrobial peptide lactoferricin B in <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2005, 579, 3421-3426.	2.8	35
39	Structural and Computational Investigations of VIM-7: Insights into the Substrate Specificity of VIM Metallo- β -Lactamases. <i>Journal of Molecular Biology</i> , 2011, 411, 174-189.	4.2	35
40	Synthesis and Preclinical Evaluation of TPA-Based Zinc Chelators as Metallo- β -lactamase Inhibitors. <i>ACS Infectious Diseases</i> , 2018, 4, 1407-1422.	3.8	35
41	Gastrointestinal carriage of <i>Klebsiella pneumoniae</i> in a general adult population: a cross-sectional study of risk factors and bacterial genomic diversity. <i>Gut Microbes</i> , 2021, 13, 1939599.	9.8	34
42	Evaluation of phenotypic tests for the detection of metallo- β -lactamase-producing <i>Pseudomonas aeruginosa</i> in a low prevalence country. <i>Journal of Antimicrobial Chemotherapy</i> , 2008, 61, 827-830.	3.0	31
43	A Diversity of OXA-Carbapenemases and Class 1 Integrons Among Carbapenem-Resistant <i>Acinetobacter baumannii</i> Clinical Isolates from Sweden Belonging to Different International Clonal Lineages. <i>Microbial Drug Resistance</i> , 2011, 17, 545-549.	2.0	31
44	Pharmacokinetics and Pharmacodynamics of Fosfomycin and Its Activity against Extended-Spectrum- β -Lactamase-, Plasmid-Mediated AmpC-, and Carbapenemase-Producing <i>Escherichia coli</i> in a Murine Urinary Tract Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	31
45	Kinetic Characterization of VIM-7, a Divergent Member of the VIM Metallo- β -Lactamase Family. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 2905-2908.	3.2	29
46	Approaches to the simultaneous inactivation of metallo- and serine- β -lactamases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 1618-1622.	2.2	29
47	Identification of Enterobacteriaceae isolates with OXA-48 and coproduction of OXA-181 and NDM-1 in Norway. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 1682-1685.	3.0	28
48	Evolution of β -lactamase-mediated cefiderocol resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 2429-2436.	3.0	27
49	The First Metallo- β -Lactamase Identified in Norway Is Associated with a TnIC-Like Transposon in a <i>Pseudomonas aeruginosa</i> Isolate of Sequence Type 233 Imported from Ghana. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 331-332.	3.2	26
50	Dissemination of a Carbapenem-Resistant <i>Acinetobacter baumannii</i> Strain Belonging to International Clone II/Sequence Type 2 and Harboring a Novel AbaR4-Like Resistance Island in Latvia. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1069-1072.	3.2	26
51	Identification of VIM-2-Producing <i>Pseudomonas aeruginosa</i> from Tanzania Is Associated with Sequence Types 244 and 640 and the Location of <i>bla</i> _{VIM-2} in a TnIC Integron. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 682-685.	3.2	26
52	Cross-border spread of blaNDM-1- and blaOXA-48-positive <i>Klebsiella pneumoniae</i> : a European collaborative analysis of whole genome sequencing and epidemiological data, 2014 to 2019. <i>Eurosurveillance</i> , 2020, 25, .	7.0	26
53	Dissemination and Characteristics of a Novel Plasmid-Encoded Carbapenem-Hydrolyzing Class D β -Lactamase, OXA-436, Found in Isolates from Four Patients at Six Different Hospitals in Denmark. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	24
54	Evaluation of Rosco Neo-Sensitabs for phenotypic detection and subgrouping of ESBL-, AmpC- and carbapenemase-producing Enterobacteriaceae. <i>Apms</i> , 2012, 120, 724-732.	2.0	23

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55	Piggybacking on Niche Adaptation Improves the Maintenance of Multidrug-Resistance Plasmids. <i>Molecular Biology and Evolution</i> , 2021, 38, 3188-3201.	8.9	23
56	Crystal Structures of <i>Pseudomonas aeruginosa</i> GIM-1: Active-Site Plasticity in Metallo- β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 848-854.	3.2	22
57	ZN148 Is a Modular Synthetic Metallo- β -Lactamase Inhibitor That Reverses Carbapenem Resistance in Gram-Negative Pathogens <i>In Vivo</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	22
58	Structural and biochemical characterization of VIM-26 shows that Leu224 has implications for the substrate specificity of VIM metallo- β -lactamases. <i>FEBS Journal</i> , 2015, 282, 1031-1042.	4.7	21
59	The fight to keep resistance at bay, epidemiology of carbapenemase producing organisms (CPOs), vancomycin resistant enterococci (VRE) and methicillin resistant <i>Staphylococcus aureus</i> (MRSA) in Norway, 2006 - 2017. <i>PLoS ONE</i> , 2019, 14, e0211741.	2.5	20
60	Large IncHI2-plasmids encode extended-spectrum β -lactamases (ESBLs) in <i>Enterobacter</i> spp. bloodstream isolates, and support ESBL-transfer to <i>Escherichia coli</i> . <i>Clinical Microbiology and Infection</i> , 2013, 19, E516-E518.	6.0	19
61	Cryptic β -Lactamase Evolution Is Driven by Low β -Lactam Concentrations. <i>MSphere</i> , 2021, 6, .	2.9	19
62	Detection of carbapenemases with a newly developed commercial assay using Matrix Assisted Laser Desorption Ionization-Time of Flight. <i>Journal of Microbiological Methods</i> , 2018, 146, 37-39.	1.6	18
63	His224 Alters the R2 Drug Binding Site and Phe218 Influences the Catalytic Efficiency of the Metallo- β -Lactamase VIM-7. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4826-4836.	3.2	17
64	Host dependent maintenance of a blaNDM-1-encoding plasmid in clinical <i>Escherichia coli</i> isolates. <i>Scientific Reports</i> , 2020, 10, 9332.	3.3	17
65	Bacterial genomic epidemiology with mixed samples. <i>Microbial Genomics</i> , 2021, 7, .	2.0	17
66	A nationwide genomic study of clinical <i>Klebsiella pneumoniae</i> in Norway 2001-2015: introduction and spread of ESBLs facilitated by clonal groups CG15 and CG307. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 665-674.	3.0	16
67	High prevalence of faecal carriage of ESBL-producing Enterobacteriaceae in Norwegian patients with gastroenteritis. <i>Scandinavian Journal of Infectious Diseases</i> , 2014, 46, 462-465.	1.5	15
68	Impact of extensive antibiotic treatment on faecal carriage of antibiotic-resistant enterobacteria in children in a low resistance prevalence setting. <i>PLoS ONE</i> , 2017, 12, e0187618.	2.5	14
69	Performance of the EUCAST disc diffusion method and two MIC methods in detection of Enterobacteriaceae with reduced susceptibility to meropenem: the NordicAST CPE study. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 2738-2747.	3.0	13
70	Synthesis and biological evaluation of zinc chelating compounds as metallo- β -lactamase inhibitors. <i>MedChemComm</i> , 2019, 10, 528-537.	3.4	13
71	A high-throughput multiplexing and selection strategy to complete bacterial genomes. <i>GigaScience</i> , 2021, 10, .	6.4	13
72	Interplay of Efflux, Impermeability, and AmpC Activity Contributes to Cefuroxime Resistance in Clinical, Non-ESBL-Producing Isolates of <i>Escherichia coli</i> . <i>Microbial Drug Resistance</i> , 2009, 15, 91-95.	2.0	12

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73	Synthesis and biological evaluation of new dipicolylamine zinc chelators as metallo-β-lactamase inhibitors. <i>Tetrahedron</i> , 2019, 75, 1525-1540.	1.9	10
74	Efficacy of mecillinam against clinical multidrug-resistant <i>Escherichia coli</i> in a murine urinary tract infection model. <i>International Journal of Antimicrobial Agents</i> , 2020, 55, 105851.	2.5	10
75	Complete Genome Sequence of <i>Pseudomonas aeruginosa</i> K34-7, a Carbapenem-Resistant Isolate of the High-Risk Sequence Type 233. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	9
76	Horizontal Plasmid Transfer among <i>Klebsiella pneumoniae</i> Isolates Is the Key Factor for Dissemination of Extended-Spectrum β-Lactamases among Children in Tanzania. <i>MSphere</i> , 2020, 5, .	2.9	9
77	Structural insights into the enhanced carbapenemase efficiency of OXA-655 compared to OXA-10. <i>FEBS Open Bio</i> , 2020, 10, 1821-1832.	2.3	9
78	The chemotherapeutic drug methotrexate selects for antibiotic resistance. <i>EBioMedicine</i> , 2021, 74, 103742.	6.1	9
79	Evaluation of the total MBL confirm kit (ROSCO) for detection of metallo-β-lactamases in <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2014, 79, 486-488.	1.8	8
80	Role of Residues W228 and Y233 in the Structure and Activity of Metallo-β-Lactamase GIM-1. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 990-1002.	3.2	8
81	Structural and biochemical characterization of the environmental MBLs MYO-1, ECV-1 and SHD-1. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 2554-2563.	3.0	8
82	Fecal colonization of VIM-1-producing <i>Klebsiella pneumoniae</i> and in vivo transfer of multidrug-resistant IncN plasmid in a renal transplant patient. <i>Diagnostic Microbiology and Infectious Disease</i> , 2012, 72, 363-366.	1.8	6
83	Identification of a novel IMI carbapenemase variant (IMI-9) in <i>Enterobacter cloacae</i> complex. <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 764-765.	2.5	6
84	Structural Insights into TMB-1 and the Role of Residues 119 and 228 in Substrate and Inhibitor Binding. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	6
85	Carbapenem Resistance Determinants Acquired through Novel Chromosomal Integrations in Extensively Drug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0028921.	3.2	6
86	Complete Genome Sequence of a Multidrug-Resistant, <i>bla</i> _{NDM-1} -Expressing <i>Klebsiella pneumoniae</i> K66-45 Clinical Isolate from Norway. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
87	Intracellular Transposition and Capture of Mobile Genetic Elements following Intercellular Conjugation of Multidrug Resistance Conjugative Plasmids from Clinical <i>Enterobacteriaceae</i> Isolates. <i>Microbiology Spectrum</i> , 2022, 10, e0214021.	3.0	5
88	Use of a Commercially Available Microarray to Characterize Antibiotic-Resistant Clinical Isolates of <i>Klebsiella pneumoniae</i> . <i>Current Microbiology</i> , 2018, 75, 163-172.	2.2	4
89	First detection of a carbapenemase-producing <i>Enterobacteriaceae</i> in Iceland. <i>Journal of Global Antimicrobial Resistance</i> , 2016, 6, 73-74.	2.2	3
90	Evolutionary Instability of Collateral Susceptibility Networks in Ciprofloxacin-Resistant Clinical <i>Escherichia coli</i> Strains. <i>MBio</i> , 2022, 13, .	4.1	3

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91	Evaluation of the Amplex eazyplex [®] SuperBug Acineto test for detection of acquired OXA and NDM carbapenemases in Acinetobacter spp.. Journal of Global Antimicrobial Resistance, 2021, 24, 340-341.	2.2	2
92	En kvinne med sepsis etter brannskade i Pakistan. Tidsskrift for Den Norske Laegeforening, 2016, 136, 1228-1232.	0.2	2
93	Phenotypic and genotypic characterisation of thymine auxotrophy in Escherichia coli isolated from a patient with recurrent bloodstream infection. PLoS ONE, 2022, 17, e0270256.	2.5	2
94	Antimicrobial resistance genes and clonal success in Escherichia coli isolates causing bloodstream infection – Authors’ reply. Lancet Microbe, The, 2021, 2, e493.	7.3	1
95	Corrigendum to: ‘Induced resistance to the antimicrobial peptide lactoferricin B in Staphylococcus aureus’ [FEBS Lett. 579 (2005) 3421-3426]. FEBS Letters, 2005, 579, 5437-5437.	2.8	0