Mark E Shirtliff

List of Publications by Year
in descending order

137 papers	12,068 citations	31976 53 h-index	27406 106 g-index
139 all docs	139 docs citations	139 times ranked	13423 citing authors

#	Article	IF	Citations
1	Intraoperative Tobramycin Powder Prevents Enterobacter cloacae Surgical Site Infections in a Rabbit Model of Internal Fixation. Journal of Orthopaedic Trauma, 2021, 35, 35-40.	1.4	5
2	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. Biofilm, 2020, 2, 100010.	3.8	50
3	Nonâ€“culture-based Methods to Aide in the Diagnosis of Implant-associated Infection After Fracture Surgery. Techniques in Orthopaedics, 2020, 35, 91-99.	0.2	3
4	The Efficacy of Breast Implant Irrigant Solutions: A Comparative Analysis Using an In Vitro Model. Plastic and Reconstructive Surgery, 2020, 146, 301-308.	1.4	27
5	In Vitro Gastrointestinal Digestion of Palm Olein and Palm Stearin-in-Water Emulsions with Different Physical States and Fat Contents. Journal of Agricultural and Food Chemistry, 2020, 68, 7062-7071.	5.2	20
6	Development of a Novel and Rapid Antibody-Based Diagnostic for Chronic Staphylococcus aureus Infections Based on Biofilm Antigens. Journal of Clinical Microbiology, 2020, 58, .	3.9	7
7	Scnn1b -Transgenic BALB/c Mice as a Model of Pseudomonas aeruginosa Infections of the Cystic Fibrosis Lung. Infection and Immunity, 2020, 88, .	2.2	6
8	The Arginine Deiminase Pathway Impacts Antibiotic Tolerance during Biofilm-Mediated Streptococcus pyogenes Infections. MBio, 2020, 11, .	4.1	18
9	Complete Sequence of a Novel Multidrug-Resistant Pseudomonas putida Strain Carrying Two Copies of qnrVC6. Microbial Drug Resistance, 2019, 25, 1-7.	2.0	9
10	The Host Immune System Facilitates Disseminated Staphylococcus aureus Disease Due to Phagocytic Attraction to Candida albicans during Coinfection: a Case of Bait and Switch. Infection and Immunity, 2019, 87, .	2.2	22
11	Clearance of Staphylococcus aureus from In Vivo Models of Chronic Infection by Immunization Requires Both Planktonic and Biofilm Antigens. Infection and Immunity, 2019, 88, .	2.2	11
12	Inhibitory effects of two types of food additives on biofilm formation by foodborne pathogens. MicrobiologyOpen, 2019, 8, e00853.	3.0	25
13	Polymicrobial interaction and biofilms between Staphylococcus aureus and Pseudomonas aeruginosa: an underestimated concern in food safety. Current Opinion in Food Science, 2019, 26, 57-64.	8.0	60
14	Biofilm Formation of Staphylococcus aureus under Food Heat Processing Conditions: First Report on CML Production within Biofilm. Scientific Reports, 2019, 9, 1312.	3.3	57
15	Temporal proteomic profiling reveals changes that support Burkholderia biofilms. Pathogens and Disease, 2019, 77, .	2.0	9
16	Complete genomic analysis of multidrug-resistance Pseudomonas aeruginosa Guangzhou-Pae617, the host of megaplasmid pBM413. Microbial Pathogenesis, 2018, 117, 265-269.	2.9	9
17	Identification of the KPC plasmid pCT-KPC334: New insights on the evolutionary pathway of epidemic plasmids harboring fosA3-blaKPC-2 genes. International Journal of Antimicrobial Agents, 2018, 52, 510-511.	2.5	12
18	Microbial infection pattern, pathogenic features and resistance mechanism of carbapenem-resistant Gram negative bacilli during long-term hospitalization. Microbial Pathogenesis, 2018, 117, 356-360.	2.9	5

#	Article	IF	Citations
19	Intraoperative Vancomycin Powder Reduces Staphylococcus aureus Surgical Site Infections and Biofilm Formation on Fixation Implants in a Rabbit Model. Journal of Orthopaedic Trauma, 2018, 32, 263-268.	1.4	21
20	Versatility of targeted antibiotic-loaded gold nanoconstructs for the treatment of biofilm-associated bacterial infections. International Journal of Hyperthermia, 2018, 34, 209-219.	2.5	40
21	Complete Sequence of pCY-CTX, a Plasmid Carrying a Phage-Like Region and an ISEcp1-Mediated Tn2Element fromEnterobacter cloacae. Microbial Drug Resistance, 2018, 24, 307-313.	2.0	16
22	Complete sequence of pBM413, a novel multidrug resistance megaplasmid carrying qnrVC6 and bla IMP-45 from pseudomonas aeruginosa. International Journal of Antimicrobial Agents, 2018, 51, 145-150.	2.5	55
23	Variations in the Organisms Causing Deep Surgical Site Infections in Fracture Patients at a Level I Trauma Center (2006â€“2015). Journal of Orthopaedic Trauma, 2018, 32, e475-e481.	1.4	22
24	Microbial virulence, molecular epidemiology and pathogenic factors of fluoroquinolone-resistant Haemophilus influenzae infections in Guangzhou, China. Annals of Clinical Microbiology and Antimicrobials, 2018, 17, 41.	3.8	16
25	Transcriptomics Study on Staphylococcus aureus Biofilm Under Low Concentration of Ampicillin. Frontiers in Microbiology, 2018, 9, 2413.	3.5	51
26	Induction and Recovery of the Viable but Nonculturable State of Hop-Resistance Lactobacillus brevis. Frontiers in Microbiology, 2018, 9, 2076.	3.5	37
27	Discovery and control of culturable and viable but non-culturable cells of a distinctive Lactobacillus harbinensis strain from spoiled beer. Scientific Reports, 2018, 8, 11446.	3.3	41
28	Whole-genome resequencing of Bacillus cereus and expression of genes functioning in sodium chloride stress. Microbial Pathogenesis, 2017, 104, 248-253.	2.9	29
29	Longitudinal surveillance on antibiogram of important Gram-positive pathogens in Southern China, 2001 to 2015. Microbial Pathogenesis, 2017, 103, 80-86.	2.9	73
30	Biofilm disruption with rotating microrods enhances antimicrobial efficacy. Journal of Magnetism and Magnetic Materials, 2017, 427, 81-84.	2.3	23
31	A 16-year retrospective surveillance report on the pathogenic features and antimicrobial susceptibility of Pseudomonas aeruginosa isolates from FAHJU in Guangzhou representative of Southern China. Microbial Pathogenesis, 2017, 110, 37-41.	2.9	40
32	Antimicrobial activity of Lactobacillus salivarius and Lactobacillus fermentum against Staphylococcus aureus. Pathogens and Disease, 2017, 75, .	2.0	76
33	Clinical features and antimicrobial resistance profiles of important Enterobacteriaceae pathogens in Guangzhou representative of Southern China, 2001â€“2015. Microbial Pathogenesis, 2017, 107, 206-211.	2.9	52
34	First study on the formation and resuscitation of viable but nonculturable state and beer spoilage capability of Lactobacillus lindneri. Microbial Pathogenesis, 2017, 107, 219-224.	2.9	54
35	Inhibition of fracture healing in the presence of contamination byStaphylococcus aureus: Effects of growth state and immune response. Journal of Orthopaedic Research, 2017, 35, 1845-1854.	2.3	18
36	Effect of polymyxin resistance (pmr) on biofilm formation of Cronobacter sakazakii. Microbial Pathogenesis, 2017, 106, 16-19.	2.9	55

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37	Study on spoilage capability and VBNC state formation and recovery of Lactobacillus plantarum. Microbial Pathogenesis, 2017, 110, 257-261.	2.9	48
38	The viable but nonculturable state induction and genomic analyses of Lactobacillus casei BMâ€ŁC14617, a beerâ€spoilage bacterium. MicrobiologyOpen, 2017, 6, e00506.	3.0	37
39	Viable but non-culturable state and toxin gene expression of enterohemorrhagic Escherichia coli O157 under cryopreservation. Research in Microbiology, 2017, 168, 188-193.	2.1	110
40	Complete genome sequence and bioinformatics analyses of Bacillus thuringiensis strain BM-BT15426. Microbial Pathogenesis, 2017, 108, 55-60.	2.9	23
41	Genome-wide discovery of novel M1T1 group A streptococcal determinants important for fitness and virulence during soft-tissue infection. PLoS Pathogens, 2017, 13, e1006584.	4.7	42
42	Staphylococcal Food Poisoning and Novel Perspectives in Food Safety. , 2016, , .		3
43	Predictive Computer Models for Biofilm Detachment Properties in Pseudomonas aeruginosa. MBio, 2016, 7, .	4.1	13
44	Type IV pili promote early biofilm formation byClostridium difficile. Pathogens and Disease, 2016, 74, ftw061.	2.0	86
45	Candidaâ€“Bacteria Interactions: Their Impact on Human Disease. Microbiology Spectrum, 2016, 4, .	3.0	68
46	Global Analysis and Comparison of the Transcriptomes and Proteomes of Group A Streptococcus Biofilms. MSystems, 2016, 1, .	3.8	26
47	Poor biofilm-forming ability and long-term survival of invasiveSalmonellaTyphimurium ST313. Pathogens and Disease, 2016, 74, ftw049.	2.0	33
48	Draft genome sequence and annotation ofLactobacillus acetotoleransBM-LA14527, a beer-spoilage bacteria. FEMS Microbiology Letters, 2016, 363, fnw201.	1.8	45
49	Chromogenic media for MRSA diagnostics. Molecular Biology Reports, 2016, 43, 1205-1212.	2.3	53
50	Interleukin-17A (IL-17A) and IL-17F Are Critical for Antimicrobial Peptide Production and Clearance of Staphylococcus aureus Nasal Colonization. Infection and Immunity, 2016, 84, 3575-3583.	2.2	52
51	Transcriptomic analysis on the formation of the viable putative non-culturable state of beer-spoilage Lactobacillus acetotolerans. Scientific Reports, 2016, 6, 36753.	3.3	74
52	Preliminary evaluation of local drug delivery of amphotericin B and in vivo degradation of chitosan and polyethylene glycol blended sponges. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 78-87.	3.4	15
53	First report of novel genetic array aacA4 - bla IMP-25 - oxa30 - catB3 and identification of novel metallo-Î²-lactamase gene bla IMP25 : A Retrospective Study of antibiotic resistance surveillance on Psuedomonas aeruginosa in Guangzhou of South China, 2003â€“2007. Microbial Pathogenesis, 2016, 95, 62-67.	2.9	46
54	Essential Genes in the Core Genome of the Human Pathogen Streptococcus pyogenes. Scientific Reports, 2015, 5, 9838.	3.3	114

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55	Immunoproteomic Identification ofIn Vivo-Produced Propionibacterium acnes Proteins in a Rabbit Biofilm Infection Model. Vaccine Journal, 2015, 22, 467-476.	3.1	23
56	Characterization of local delivery with amphotericin B and vancomycin from modified chitosan sponges and functional biofilm prevention evaluation. Journal of Orthopaedic Research, 2015, 33, 439-447.	2.3	26
57	Novel Developments in the Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infections. Journal of the American Academy of Orthopaedic Surgeons, The, 2015, 23, S32-S43.	2.5	40
58	Clinical Implications of Oral Candidiasis: Host Tissue Damage and Disseminated Bacterial Disease. Infection and Immunity, 2015, 83, 604-613.	2.2	73
59	Antimicrobial Resistance Investigation on Staphylococcus Strains in a Local Hospital in Guangzhou, China, 2001â€“2010. Microbial Drug Resistance, 2015, 21, 102-104.	2.0	65
60	Systemic Staphylococcus aureus infection mediated by Candida albicans hyphal invasion of mucosal tissue. Microbiology (United Kingdom), 2015, 161, 168-181.	1.8	209
61	Urinary Tract Infections Caused by Proteus mirabilis. , 2015, , 1389-1400.		2
62	Specific Antibodies to Staphylococcus aureus Biofilm Are Present in Serum from Pigs with Osteomyelitis. In Vivo, 2015, 29, 555-60.	1.3	12
63	In Vivo Expression of Streptococcus pyogenes Immunogenic Proteins during Tibial Foreign Body Infection. Infection and Immunity, 2014, 82, 3891-3899.	2.2	9
64	Mycobacterium tuberculosispellicles express unique proteins recognized by the host humoral response. Pathogens and Disease, 2014, 70, 347-358.	2.0	39
65	Biofilms in periprosthetic orthopedic infections. Future Microbiology, 2014, 9, 987-1007.	2.0	267
66	Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. Pathogens and Disease, 2014, 70, 250-256.	2.0	43
67	Propionibacterium acnes: from Commensal to Opportunistic Biofilm-Associated Implant Pathogen. Clinical Microbiology Reviews, 2014, 27, 419-440.	13.6	471
68	Methods for Dynamic Investigations of Surface-Attached In Vitro Bacterial and Fungal Biofilms. Methods in Molecular Biology, 2014, 1147, 3-22.	0.9	15
69	Draft Genome Sequence of the Methicillin-Resistant Staphylococcus aureus Isolate MRSA-M2. Genome Announcements, 2013, 1, .	0.8	18
70	Clearance of Staphylococcus aureus Nasal Carriage Is T Cell Dependent and Mediated through Interleukin-17A Expression and Neutrophil Influx. Infection and Immunity, 2013, 81, 2070-2075.	2.2	88
71	Novel Synthetic (Poly)Glycerolphosphate-Based Antistaphylococcal Conjugate Vaccine. Infection and Immunity, 2013, 81, 2554-2561.	2.2	16
72	Biofilms, Biomaterials, and Device-Related Infections. , 2013, , 77-101.		13

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73	Biofilms, Biomaterials, and Device-Related Infections. , 2013, , 565-583.		7
74	Microbial biofilms and gastrointestinal diseases. Pathogens and Disease, 2013, 67, 25-38.	2.0	74
75	Evaluation of Genetically Inactivated Alpha Toxin for Protection in Multiple Mouse Models of Staphylococcus aureus Infection. PLoS ONE, 2013, 8, e63040.	2.5	28
76	Bacterial biofilms and periprosthetic infections. Journal of Bone and Joint Surgery - Series A, 2013, 95, 2223-9.	3.0	12
77	In Vivo Magnetic Enrichment, Photoacoustic Diagnosis, and Photothermal Purging of Infected Blood Using Multifunctional Gold and Magnetic Nanoparticles. PLoS ONE, 2012, 7, e45557.	2.5	78
78	Polymicrobial Interactions: Impact on Pathogenesis and Human Disease. Clinical Microbiology Reviews, 2012, 25, 193-213.	13.6	582
79	Development and application of loop-mediated isothermal amplification assays on rapid detection of various types of staphylococci strains. Food Research International, 2012, 47, 166-173.	6.2	129
80	Bill Costerton: leader as servant. FEMS Immunology and Medical Microbiology, 2012, 66, 269-272.	2.7	3
81	Staphylococcus aureus adherence to Candida albicans hyphae is mediated by the hyphal adhesin Als3p. Microbiology (United Kingdom), 2012, 158, 2975-2986.	1.8	188
82	Identifying Low pH Active and Lactate-Utilizing Taxa within Oral Microbiome Communities from Healthy Children Using Stable Isotope Probing Techniques. PLoS ONE, 2012, 7, e32219.	2.5	49
83	Immunological Methods for Staphylococcus aureus Infection Diagnosis and Prevention. Springer Series on Biofilms, 2012, , 61-75.	0.1	0
84	Murine Immune Response to a Chronic Staphylococcus aureus Biofilm Infection. Infection and Immunity, 2011, 79, 1789-1796.	2.2	113
85	Staphylococcus aureusbiofilms. Virulence, 2011, 2, 445-459.	4.4	734
86	Farnesol-Induced Apoptosis in Candida albicans Is Mediated by Cdr1-p Extrusion and Depletion of Intracellular Glutathione. PLoS ONE, 2011, 6, e28830.	2.5	63
87	The importance of a multifaceted approach to characterizing the microbial flora of chronic wounds. Wound Repair and Regeneration, 2011, 19, 532-541.	3.0	129
88	Class 1 integron in staphylococci. Molecular Biology Reports, 2011, 38, 5261-5279.	2.3	111
89	Resolution of Staphylococcus aureus Biofilm Infection Using Vaccination and Antibiotic Treatment. Infection and Immunity, 2011, 79, 1797-1803.	2.2	130
90	Proteus mirabilisbiofilms and catheter-associated urinary tract infections. Virulence, 2011, 2, 460-465.	4.4	168

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91	Suppression of the Inflammatory Immune Response Prevents the Development of Chronic Biofilm Infection Due to Methicillin-Resistant Staphylococcus aureus. Infection and Immunity, 2011, 79, 5010-5018.	2.2	102
92	Regulation of Virulence Gene Expression Resulting from Streptococcus pneumoniae and Nontypeable Haemophilus influenzae Interactions in Chronic Disease. PLoS ONE, 2011, 6, e28523.	2.5	40
93	The Importance of Biofilms in Chronic Rhinosinusitis. , 2011, , 139-160.		0
94	Infection. Journal of Orthopaedic Trauma, 2010, 24, 583-586.	1.4	25
95	Rapid detection of Vibrio parahaemolyticus strains and virulent factors by loop-mediated isothermal amplification assays. Food Science and Biotechnology, 2010, 19, 1191-1197.	2.6	66
96	Development and application of a rapid and simple loop-mediated isothermal amplification method for food-borne Salmonella detection. Food Science and Biotechnology, 2010, 19, 1655-1659.	2.6	75
97	Vaccine development inStaphylococcus aureus: taking the biofilm phenotype into consideration. FEMS Immunology and Medical Microbiology, 2010, 59, 306-323.	2.7	97
98	Microbial interactions and differential protein expression inStaphylococcus aureusâ€“Candida albicansdual-species biofilms. FEMS Immunology and Medical Microbiology, 2010, 59, 493-503.	2.7	246
99	Antimicrobial Peptides: Primeval Molecules or Future Drugs?. PLoS Pathogens, 2010, 6, e1001067.	4.7	344
100	First report of class 2 integron in clinical Enterococcus faecalis and class 1 integron in Enterococcus faecium in South China. Diagnostic Microbiology and Infectious Disease, 2010, 68, 315-317.	1.8	95
101	A Novel Immune Evasion Strategy of Candida albicans: Proteolytic Cleavage of a Salivary Antimicrobial Peptide. PLoS ONE, 2009, 4, e5039.	2.5	115
102	Flagellum-Mediated Biofilm Defense Mechanisms of Pseudomonas aeruginosa against Host-Derived Lactoferrin. Infection and Immunity, 2009, 77, 4559-4566.	2.2	27
103	Osteomyelitis of the Long Bones. Seminars in Plastic Surgery, 2009, 23, 059-072.	2.1	197
104	The Effects of Farnesol on Staphylococcus aureus Biofilms and Osteoblasts. Journal of Bone and Joint Surgery - Series A, 2009, 91, 2683-2692.	3.0	40
105	Occurrence and Characteristics of Class 1 and 2 Integrons in Pseudomonas aeruginosa Isolates from Patients in Southern China. Journal of Clinical Microbiology, 2009, 47, 230-234.	3.9	132
106	Farnesol-Induced Apoptosis in Candida albicans. Antimicrobial Agents and Chemotherapy, 2009, 53, 2392-2401.	3.2	210
107	Cross-kingdom interactions:Candida albicansand bacteria. FEMS Microbiology Letters, 2009, 299, 1-8.	1.8	362
108	The Functional Resistance of Bacterial Biofilms. , 2009, , 121-131.		5

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109	Osteomyelitis and the role of biofilms in chronic infection. FEMS Immunology and Medical Microbiology, 2008, 52, 13-22.	2.7	322
110	The high-affinity phosphate transporter Pst is a virulence factor forProteus mirabilisduring complicated urinary tract infection. FEMS Immunology and Medical Microbiology, 2008, 52, 180-193.	2.7	33
111	Farnesol, a Fungal Quorum-Sensing Molecule Triggers Apoptosis in Human Oral Squamous Carcinoma Cells. Neoplasia, 2008, 10, 954-963.	5.3	70
112	Infections of Orthopaedic Implants and Devices. Springer Series on Biofilms, 2008, , 15-55.	0.1	12
113	Infections of Orthopaedic Implants and Devices. Springer Series on Biofilms, 2008, , 15.	0.1	2
114	Immunoglobulins to Surface-Associated Biofilm Immunogens Provide a Novel Means of Visualization of Methicillin-Resistant Staphylococcus aureus Biofilms. Applied and Environmental Microbiology, 2007, 73, 6612-6619.	3.1	43
115	The application of biofilm science to the study and control of chronic bacterial infections. Journal of Clinical Investigation, 2007, 117, 278-278.	8.2	4
116	Effect of farnesol onCandida dubliniensisbiofilm formation and fluconazole resistance. FEMS Yeast Research, 2006, 6, 1063-1073.	2.3	105
117	Identification of Staphylococcus aureus Proteins Recognized by the Antibody-Mediated Immune Response to a Biofilm Infection. Infection and Immunity, 2006, 74, 3415-3426.	2.2	203
118	Assessment of the Ability of the Bioelectric Effect To Eliminate Mixed-Species Biofilms. Applied and Environmental Microbiology, 2005, 71, 6379-6382.	3.1	29
119	The Exopolysaccharide Alginate Protects Pseudomonas aeruginosa Biofilm Bacteria from IFN-Î³-Mediated Macrophage Killing. Journal of Immunology, 2005, 175, 7512-7518.	0.8	441
120	Detection ofStaphylococcus aureusBiofilm on Tampons and Menses Components. Journal of Infectious Diseases, 2003, 188, 519-530.	4.0	75
121	The application of biofilm science to the study and control of chronic bacterial infections. Journal of Clinical Investigation, 2003, 112, 1466-1477.	8.2	540
122	The application of biofilm science to the study and control of chronic bacterial infections. Journal of Clinical Investigation, 2003, 112, 1466-1477.	8.2	326
123	The Basic Science of Musculoskeletal Infections. , 2003, , 1-61.		5
124	Immunology ofStaphylococcalBiofilm Infections in the Eye: New Tools to Study Biofilm Endophthalmitis. DNA and Cell Biology, 2002, 21, 405-413.	1.9	34
125	Gatifloxacin Efficacy in Treatment of Experimental Methicillin-Sensitive Staphylococcus aureus -Induced Osteomyelitis in Rabbits. Antimicrobial Agents and Chemotherapy, 2002, 46, 231-233.	3.2	19
126	Human Leukocytes Adhere to, Penetrate, and Respond to Staphylococcus aureus Biofilms. Infection and Immunity, 2002, 70, 6339-6345.	2.2	364

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127	Experimental Osteomyelitis Treatment With Antibiotic-Impregnated Hydroxyapatite. Clinical Orthopaedics and Related Research, 2002, 401, 239-247.	1.5	115
128	Acute Septic Arthritis. Clinical Microbiology Reviews, 2002, 15, 527-544.	13.6	501
129	Molecular Interactions in Biofilms. Chemistry and Biology, 2002, 9, 859-871.	6.0	180
130	Prevention of diseases caused by Staphylococcus aureus using the peptide RIP. Peptides, 2000, 21, 1301-1311.	2.4	81
131	Bone and Joint Infections in the Elderly. Drugs and Aging, 2000, 16, 67-80.	2.7	22
132	The host and the skeletal infection: classification and pathogenesis of acute bacterial bone and joint sepsis. Best Practice and Research in Clinical Rheumatology, 1999, 13, 1-20.	3.3	43
133	Antimicrobial Treatment of Chronic Osteomyelitis. Clinical Orthopaedics and Related Research, 1999, 360, 47-65.	1.5	146
134	Oral Rifampin Plus Azithromycin or Clarithromycin to Treat Osteomyelitis in Rabbits. Clinical Orthopaedics and Related Research, 1999, 359, 229-236.	1.5	27
135	Staging and Staging Application in Osteomyelitis. Clinical Infectious Diseases, 1997, 25, 1303-1309.	5.8	143
136	Host Reactions to Biomaterials and Their Evaluation. , 1996, , 293-X.		2
137	Candida-Bacteria Interactions: Their Impact on Human Disease. , 0, , 103-136.		3