

Philip L Bond

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

9,173
citations

52
h-index

94
g-index

132
ext. papers

10,695
ext. citations

7.7
avg, IF

6.31
L-index

#	Paper	IF	Citations
128	Corrosion mitigation by nitrite spray on corroded concrete in a real sewer system. <i>Science of the Total Environment</i> , 2022 , 806, 151328	10.2	1
127	Reactive nitrogen species from free nitrous acid (FNA) cause cell lysis.. <i>Water Research</i> , 2022 , 217, 118401	12.5	0
126	Evaluation of continuous and intermittent trickling strategies for the removal of hydrogen sulfide in a biotrickling filter. <i>Chemosphere</i> , 2021 , 291, 132723	8.4	3
125	Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra- and intergenera conjugation. <i>ISME Journal</i> , 2021 , 15, 2493-2508	11.9	15
124	Chlorine disinfection facilitates natural transformation through ROS-mediated oxidative stress. <i>ISME Journal</i> , 2021 , 15, 2969-2985	11.9	23
123	Structural changes in model compounds of sludge extracellular polymeric substances caused by exposure to free nitrous acid. <i>Water Research</i> , 2021 , 188, 116553	12.5	4
122	Nonnutritive sweeteners can promote the dissemination of antibiotic resistance through conjugative gene transfer. <i>ISME Journal</i> , 2021 , 15, 2117-2130	11.9	41
121	Synergistic effect on concrete corrosion control in sewer environment achieved by applying surface washing on calcium nitrite admixed concrete. <i>Construction and Building Materials</i> , 2021 , 302, 124184	6.7	4
120	Characterizing the premise plumbing microbiome in both water and biofilms of a 50-year-old building. <i>Science of the Total Environment</i> , 2021 , 798, 149225	10.2	5
119	Efficient inactivation of antibiotic resistant bacteria and antibiotic resistance genes by photo-Fenton process under visible LED light and neutral pH. <i>Water Research</i> , 2020 , 179, 115878	12.5	55
118	Non-antibiotic pharmaceuticals enhance the transmission of exogenous antibiotic resistance genes through bacterial transformation. <i>ISME Journal</i> , 2020 , 14, 2179-2196	11.9	53
117	Triclosan at environmental concentrations can enhance the spread of extracellular antibiotic resistance genes through transformation. <i>Science of the Total Environment</i> , 2020 , 713, 136621	10.2	30
116	Molecular diversity of arbuscular mycorrhizal fungal communities across the gradient of alkaline Fe ore tailings, revegetated waste rock to natural soil sites. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 11968-11979	5.1	1
115	Increased Resistance of Nitrite-Admixed Concrete to Microbially Induced Corrosion in Real Sewers. <i>Environmental Science & Technology</i> , 2020 , 54, 2323-2333	10.3	15
114	Adaptive Evolution of <i>Geobacter sulfurreducens</i> in Coculture with <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2020 , 11,	7.8	3
113	Nitrite admixed concrete for wastewater structures: Mechanical properties, leaching behavior and biofilm development. <i>Construction and Building Materials</i> , 2020 , 233, 117341	6.7	16
112	Both silver ions and silver nanoparticles facilitate the horizontal transfer of plasmid-mediated antibiotic resistance genes. <i>Water Research</i> , 2020 , 169, 115229	12.5	75

111	Improving wastewater management using free nitrous acid (FNA). <i>Water Research</i> , 2020 , 171, 115382	12.5	52
110	Structural Changes in Cell-Wall and Cell-Membrane Organic Materials Following Exposure to Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2020 , 54, 10301-10312	10.3	8
109	New insights of the bacterial response to exposure of differently sized silver nanomaterials. <i>Water Research</i> , 2020 , 169, 115205	12.5	15
108	Physiological and transcriptomic analyses reveal CuO nanoparticle inhibition of anabolic and catabolic activities of sulfate-reducing bacterium. <i>Environment International</i> , 2019 , 125, 65-74	12.9	16
107	Periodic deprivation of gaseous hydrogen sulfide affects the activity of the concrete corrosion layer in sewers. <i>Water Research</i> , 2019 , 157, 463-471	12.5	4
106	A comparative proteomic analysis of <i>Desulfovibrio vulgaris</i> Hildenborough in response to the antimicrobial agent free nitrous acid. <i>Science of the Total Environment</i> , 2019 , 672, 625-633	10.2	7
105	Enhanced Growth of Pilin-Deficient <i>Geobacter sulfurreducens</i> Mutants in Carbon Poor and Electron Donor Limiting Conditions. <i>Microbial Ecology</i> , 2019 , 78, 618-630	4.4	1
104	Corrosion of reinforcing steel in concrete sewers. <i>Science of the Total Environment</i> , 2019 , 649, 739-748	10.2	21
103	Evaluation of data-driven models for predicting the service life of concrete sewer pipes subjected to corrosion. <i>Journal of Environmental Management</i> , 2019 , 234, 431-439	7.9	29
102	Distinct microbially induced concrete corrosion at the tidal region of reinforced concrete sewers. <i>Water Research</i> , 2019 , 150, 392-402	12.5	19
101	Antiepileptic drug carbamazepine promotes horizontal transfer of plasmid-borne multi-antibiotic resistance genes within and across bacterial genera. <i>ISME Journal</i> , 2019 , 13, 509-522	11.9	121
100	Mechanisms of Persistence of the Ammonia-Oxidizing Bacteria <i>Nitrosomonas</i> to the Biocide Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2018 , 52, 5386-5397	10.3	32
99	Effect of the anode potential on the physiology and proteome of <i>Shewanella oneidensis</i> MR-1. <i>Bioelectrochemistry</i> , 2018 , 119, 172-179	5.6	18
98	Deciphering the electric code of <i>Geobacter sulfurreducens</i> in cocultures with <i>Pseudomonas aeruginosa</i> via SWATH-MS proteomics. <i>Bioelectrochemistry</i> , 2018 , 119, 150-160	5.6	18
97	Evidence of differential adaptation to decreased temperature by anammox bacteria. <i>Environmental Microbiology</i> , 2018 , 20, 3514-3528	5.2	25
96	Engineering biological nitrogen removal in wastewater treatment via the control of nitrite oxidising bacteria using free nitrous acid. <i>Microbiology Australia</i> , 2018 , 39, 47	0.8	
95	Silver nanoparticles stimulate the proliferation of sulfate reducing bacterium <i>Desulfovibrio vulgaris</i> . <i>Water Research</i> , 2018 , 129, 163-171	12.5	16
94	Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera. <i>Environment International</i> , 2018 , 121, 1217-1226	12.9	104

93	Free sulfurous acid (FSA) inhibition of biological thiosulfate reduction (BTR) in the sulfur cycle-driven wastewater treatment process. <i>Chemosphere</i> , 2017 , 176, 212-220	8.4	6
92	Copper Oxide Nanoparticles Induce Lysogenic Bacteriophage and Metal-Resistance Genes in <i>Pseudomonas aeruginosa</i> PAO1. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22298-22307	9.5	52
91	Improved degradation of anaerobically digested sludge during post aerobic digestion using ultrasonic pretreatment. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 857-864	4.2	6
90	Unraveling microbial structure and diversity of activated sludge in a full-scale simultaneous nitrogen and phosphorus removal plant using metagenomic sequencing. <i>Enzyme and Microbial Technology</i> , 2017 , 102, 16-25	3.8	66
89	Data on metagenomic profiles of activated sludge from a full-scale wastewater treatment plant. <i>Data in Brief</i> , 2017 , 15, 833-839	1.2	11
88	Comparison of microbial communities across sections of a corroding sewer pipe and the effects of wastewater flooding. <i>Biofouling</i> , 2017 , 33, 780-792	3.3	18
87	Diversity of As Metabolism Functional Genes in Pb-Zn Mine Tailings. <i>Pedosphere</i> , 2017 , 27, 630-637	5	9
86	Metagenomic analysis reveals wastewater treatment plants as hotspots of antibiotic resistance genes and mobile genetic elements. <i>Water Research</i> , 2017 , 123, 468-478	12.5	381
85	Prediction of concrete corrosion in sewers with hybrid Gaussian processes regression model. <i>RSC Advances</i> , 2017 , 7, 30894-30903	3.7	17
84	The Ecology of Acidophilic Microorganisms in the Corroding Concrete Sewer Environment. <i>Frontiers in Microbiology</i> , 2017 , 8, 683	5.7	52
83	Achieving Stable Nitritation for Mainstream Deammonification by Combining Free Nitrous Acid-Based Sludge Treatment and Oxygen Limitation. <i>Scientific Reports</i> , 2016 , 6, 25547	4.9	87
82	Bioelectrochemical reduction of an azo dye by a <i>Shewanella oneidensis</i> MR-1 formed biocathode. <i>International Biodeterioration and Biodegradation</i> , 2016 , 115, 250-256	4.8	16
81	Wastewater-Enhanced Microbial Corrosion of Concrete Sewers. <i>Environmental Science & Technology</i> , 2016 , 50, 8084-92	10.3	56
80	Predicting concrete corrosion of sewers using artificial neural network. <i>Water Research</i> , 2016 , 92, 52-60	12.5	76
79	Effects of surface washing on the mitigation of concrete corrosion under sewer conditions. <i>Cement and Concrete Composites</i> , 2016 , 68, 88-95	8.6	21
78	Antimicrobial Effects of Free Nitrous Acid on <i>Desulfovibrio vulgaris</i> : Implications for Sulfide-Induced Corrosion of Concrete. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 5563-75	4.8	23
77	Metagenomic and metaproteomic analyses of <i>Accumulibacter</i> phosphatis-enriched floccular and granular biofilm. <i>Environmental Microbiology</i> , 2016 , 18, 273-87	5.2	29
76	Determining Multiple Responses of <i>Pseudomonas aeruginosa</i> PAO1 to an Antimicrobial Agent, Free Nitrous Acid. <i>Environmental Science & Technology</i> , 2016 , 50, 5305-12	10.3	35

75	Establishing microbial diversity and functions in weathered and neutral CuPbZn tailings with native soil addition. <i>Geoderma</i> , 2015 , 247-248, 108-116	6.7	31
74	The concentration-determined and population-specific antimicrobial effects of free nitrous acid on <i>Pseudomonas aeruginosa</i> PAO1. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 2305-12	5.7	24
73	Impact of fluctuations in gaseous H ₂ S concentrations on sulfide uptake by sewer concrete: The effect of high H ₂ S loads. <i>Water Research</i> , 2015 , 81, 84-91	12.5	19
72	Expanding our view of genomic diversity in Candidatus Accumulibacter clades. <i>Environmental Microbiology</i> , 2015 , 17, 1574-85	5.2	74
71	How Does Poly(hydroxyalkanoate) Affect Methane Production from the Anaerobic Digestion of Waste-Activated Sludge?. <i>Environmental Science & Technology</i> , 2015 , 49, 12253-62	10.3	103
70	A novel and simple treatment for control of sulfide induced sewer concrete corrosion using free nitrous acid. <i>Water Research</i> , 2015 , 70, 279-87	12.5	37
69	Use of SWATH mass spectrometry for quantitative proteomic investigation of <i>Shewanella oneidensis</i> MR-1 biofilms grown on graphite cloth electrodes. <i>Systematic and Applied Microbiology</i> , 2015 , 38, 135-9	4.2	30
68	A decade of metaproteomics: where we stand and what the future holds. <i>Proteomics</i> , 2015 , 15, 3409-17	4.8	119
67	Assessing the genetic diversity of Cu resistance in mine tailings through high-throughput recovery of full-length copA genes. <i>Scientific Reports</i> , 2015 , 5, 13258	4.9	21
66	From lithotroph- to organotroph-dominant: directional shift of microbial community in sulphidic tailings during phytostabilization. <i>Scientific Reports</i> , 2015 , 5, 12978	4.9	42
65	Identification of controlling factors for the initiation of corrosion of fresh concrete sewers. <i>Water Research</i> , 2015 , 80, 30-40	12.5	51
64	The role of iron in sulfide induced corrosion of sewer concrete. <i>Water Research</i> , 2014 , 49, 166-74	12.5	69
63	Determining the long-term effects of H ₂ S concentration, relative humidity and air temperature on concrete sewer corrosion. <i>Water Research</i> , 2014 , 65, 157-69	12.5	86
62	A rapid, non-destructive methodology to monitor activity of sulfide-induced corrosion of concrete based on H ₂ S uptake rate. <i>Water Research</i> , 2014 , 59, 229-38	12.5	25
61	Bacterial diversity in response to direct revegetation in the PbZnCu tailings under subtropical and semi-arid conditions. <i>Ecological Engineering</i> , 2014 , 68, 233-240	3.9	40
60	Previously unclassified bacteria dominate during thermophilic and mesophilic anaerobic pre-treatment of primary sludge. <i>Systematic and Applied Microbiology</i> , 2013 , 36, 281-90	4.2	20
59	Electron competition among nitrogen oxides reduction during methanol-utilizing denitrification in wastewater treatment. <i>Water Research</i> , 2013 , 47, 3273-81	12.5	147
58	Drivers of microbial community composition in mesophilic and thermophilic temperature-phased anaerobic digestion pre-treatment reactors. <i>Water Research</i> , 2013 , 47, 7098-108	12.5	92

57	Sequence-specific and DNA structure-dependent interactions of Escherichia coli MutS and human p53 with DNA. <i>Analytical Biochemistry</i> , 2013 , 442, 51-61	3.1	7
56	Breakage and growth towards a stable aerobic granule size during the treatment of wastewater. <i>Water Research</i> , 2013 , 47, 5338-49	12.5	69
55	Enhancing aerobic granulation for biological nutrient removal from domestic wastewater. <i>Bioresource Technology</i> , 2012 , 103, 101-8	11	106
54	Determining the mechanisms for aerobic granulation from mixed seed of floccular and crushed granules in activated sludge wastewater treatment. <i>Water Research</i> , 2012 , 46, 761-71	12.5	92
53	Surface neutralization and H ₂ S oxidation at early stages of sewer corrosion: influence of temperature, relative humidity and H ₂ S concentration. <i>Water Research</i> , 2012 , 46, 4235-45	12.5	102
52	Soil bacterial consortia and previous exposure enhance the biodegradation of sulfonamides from pig manure. <i>Microbial Ecology</i> , 2012 , 64, 140-51	4.4	61
51	Microbial community analysis during continuous fermentation of thermally hydrolysed waste activated sludge. <i>Water Science and Technology</i> , 2012 , 65, 7-14	2.2	8
50	High-throughput amplicon sequencing reveals distinct communities within a corroding concrete sewer system. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7160-2	4.8	48
49	Functional Screening a Wide Host-Range Metagenomic Library from a Wastewater Treatment Plant Yields a Novel Alcohol/Aldehyde Dehydrogenase 2011 , 451-459		
48	Evidence of compositional differences between the extracellular and intracellular DNA of a granular sludge biofilm. <i>Letters in Applied Microbiology</i> , 2011 , 53, 1-7	2.9	8
47	Pandemic pharmaceutical dosing effects on wastewater treatment: no adaptation of activated sludge bacteria to degrade the antiviral drug oseltamivir (Tamiflu®) and loss of nutrient removal performance. <i>FEMS Microbiology Letters</i> , 2011 , 315, 17-22	2.9	32
46	Evidence for bacteriophage activity causing community and performance changes in a phosphorus-removal activated sludge. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 631-42	4.3	41
45	Further limitations of phylogenetic group-specific probes used for detection of bacteria in environmental samples. <i>ISME Journal</i> , 2010 , 4, 959-61	11.9	9
44	Monitoring associations between clade-level variation, overall community structure and ecosystem function in enhanced biological phosphorus removal (EBPR) systems using terminal-restriction fragment length polymorphism (T-RFLP). <i>Water Research</i> , 2010 , 44, 4908-23	12.5	46
43	Granule formation mechanisms within an aerobic wastewater system for phosphorus removal. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 7588-97	4.8	59
42	Biofilm development in the extremely acidophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Extremophiles</i> , 2010 , 14, 485-91	3	46
41	Initial development and structure of biofilms on microbial fuel cell anodes. <i>BMC Microbiology</i> , 2010 , 10, 98	4.5	155
40	Radiolabelled proteomics to determine differential functioning of <i>Accumulibacter</i> during the anaerobic and aerobic phases of a bioreactor operating for enhanced biological phosphorus removal. <i>Environmental Microbiology</i> , 2009 , 11, 3029-44	5.2	53

39	Microbial community proteomics: elucidating the catalysts and metabolic mechanisms that drive the Earth's biogeochemical cycles. <i>Current Opinion in Microbiology</i> , 2009 , 12, 310-7	7.9	64
38	Cathodic oxygen reduction catalyzed by bacteria in microbial fuel cells. <i>ISME Journal</i> , 2008 , 2, 519-27	11.9	233
37	Community proteogenomics highlights microbial strain-variant protein expression within activated sludge performing enhanced biological phosphorus removal. <i>ISME Journal</i> , 2008 , 2, 853-64	11.9	137
36	Metaproteomics provides functional insight into activated sludge wastewater treatment. <i>PLoS ONE</i> , 2008 , 3, e1778	3.7	121
35	Bioenergetic models for acetate and phosphate transport in bacteria important in enhanced biological phosphorus removal. <i>Environmental Microbiology</i> , 2008 , 10, 87-98	5.2	30
34	Towards determining details of anaerobic growth coupled to ferric iron reduction by the acidophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Extremophiles</i> , 2007 , 11, 159-68	3	17
33	Characterization of an ATP-dependent DNA ligase from the acidophilic archaeon "Ferroplasma acidarmanus" Fer1. <i>Extremophiles</i> , 2007 , 11, 315-27	3	12
32	Extreme arsenic resistance by the acidophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Extremophiles</i> , 2007 , 11, 425-34	3	70
31	Structural and regulatory genes required to make the gas dimethyl sulfide in bacteria. <i>Science</i> , 2007 , 315, 666-9	33.3	199
30	Towards exposure of elusive metabolic mixed-culture processes: the application of metaproteomic analyses to activated sludge. <i>Water Science and Technology</i> , 2006 , 54, 217-26	2.2	41
29	Metaproteomics: studying functional gene expression in microbial ecosystems. <i>Trends in Microbiology</i> , 2006 , 14, 92-7	12.4	252
28	Screening a wide host-range, waste-water metagenomic library in tryptophan auxotrophs of <i>Rhizobium leguminosarum</i> and of <i>Escherichia coli</i> reveals different classes of cloned <i>trp</i> genes. <i>Environmental Microbiology</i> , 2005 , 7, 1927-36	5.2	58
27	A wide host-range metagenomic library from a waste water treatment plant yields a novel alcohol/aldehyde dehydrogenase. <i>Environmental Microbiology</i> , 2005 , 7, 1917-26	5.2	96
26	Molecular insight into extreme copper resistance in the extremophilic archaeon <i>Ferroplasma acidarmanus</i> Fer1. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 2637-2646	2.9	70
25	Analysis of differential protein expression during growth states of <i>Ferroplasma</i> strains and insights into electron transport for iron oxidation. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 4127-4137	2.9	63
24	Metabolically active eukaryotic communities in extremely acidic mine drainage. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6264-71	4.8	144
23	Characterization of <i>Ferroplasma</i> isolates and <i>Ferroplasma acidarmanus</i> sp. nov., extreme acidophiles from acid mine drainage and industrial bioleaching environments. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2079-88	4.8	170
22	The application of two-dimensional polyacrylamide gel electrophoresis and downstream analyses to a mixed community of prokaryotic microorganisms. <i>Environmental Microbiology</i> , 2004 , 6, 911-20	5.2	279

21	First use of two-dimensional polyacrylamide gel electrophoresis to determine phylogenetic relationships. <i>Journal of Microbiological Methods</i> , 2004 , 58, 297-302	2.8	18
20	Characterization of a nitrate-respiring bacterial community using the nitrate reductase gene (narG) as a functional marker. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 229-37	2.9	54
19	Arsenic resistance in the archaeon "Ferroplasma acidarmanus": new insights into the structure and evolution of the ars genes. <i>Extremophiles</i> , 2003 , 7, 123-30	3	49
18	Growth in sulfidic mineral environments: metal resistance mechanisms in acidophilic micro-organisms. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 1959-1970	2.9	258
17	A review and update of the microbiology of enhanced biological phosphorus removal in wastewater treatment plants. <i>Antonie Van Leeuwenhoek</i> , 2002 , 81, 681-91	2.1	125
16	Glycogen-accumulating organisms in laboratory-scale and full-scale wastewater treatment processes. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 3353-3364	2.9	336
15	Characteristics of attachment and growth of <i>Thiobacillus caldus</i> on sulphide minerals: a chemotactic response to sulphur minerals?. <i>Environmental Microbiology</i> , 2000 , 2, 324-32	5.2	74
14	Phylogeny of microorganisms populating a thick, subaerial, predominantly lithotrophic biofilm at an extreme acid mine drainage site. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 3842-9	4.8	294
13	Comparison of acid mine drainage microbial communities in physically and geochemically distinct ecosystems. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 4962-71	4.8	233
12	Geochemical and biological aspects of sulfide mineral dissolution: lessons from Iron Mountain, California. <i>Chemical Geology</i> , 2000 , 169, 383-397	4.2	105
11	An archaeal iron-oxidizing extreme acidophile important in acid mine drainage. <i>Science</i> , 2000 , 287, 1796-9	3.3	442
10	Formation of sphalerite (ZnS) deposits in natural biofilms of sulfate-reducing bacteria. <i>Science</i> , 2000 , 290, 1744-7	3.3	460
9	Identification of polyphosphate-accumulating organisms and design of 16S rRNA-directed probes for their detection and quantitation. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1175-82	4.8	626
8	Bio-P and non-bio-P bacteria identification by a novel microbial approach. <i>Water Science and Technology</i> , 1999 , 39, 13	2.2	8
7	Anaerobic phosphate release from activated sludge with enhanced biological phosphorus removal. A possible mechanism of intracellular pH control. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 507-15	4.9	33
6	Identification of some of the major groups of bacteria in efficient and nonefficient biological phosphorus removal activated sludge systems. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4077-84	4.8	168
5	Bio-P and non-bio-P bacteria identification by a novel microbial approach. <i>Water Science and Technology</i> , 1999 , 39, 13-20	2.2	8
4	The use of 16S rDNA clone libraries to describe the microbial diversity of activated sludge communities. <i>Water Science and Technology</i> , 1998 , 37, 451	2.2	19

3	Characterisation of enhanced biological phosphorus removal activated sludges with dissimilar phosphorus removal performances. <i>Water Science and Technology</i> , 1998 , 37, 567	2.2	8
2	Characterisation of enhanced biological phosphorus removal activated sludges with dissimilar phosphorus removal performances. <i>Water Science and Technology</i> , 1998 , 37, 567-571	2.2	13
1	Non-antibiotic pharmaceuticals can enhance the spread of antibiotic resistance via conjugation		2