

Jacky L Snoep

List of Publications by Year in descending order

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137
papers

8,280
citations

87843

38
h-index

49868

87
g-index

154
all docs

154
docs citations

154
times ranked

8116
citing authors

#	ARTICLE	IF	CITATIONS
1	Workflows for optimization of enzyme cascades and whole cell catalysis based on enzyme kinetic characterization and pathway modelling. <i>Current Opinion in Biotechnology</i> , 2022, 74, 55-60.	3.3	8
2	BioSimulators: a central registry of simulation engines and services for recommending specific tools. <i>Nucleic Acids Research</i> , 2022, 50, W108-W114.	6.5	11
3	Enhanced underground metabolism challenges life at high temperature—metabolic thermoadaptation in hyperthermophilic Archaea. <i>Current Opinion in Systems Biology</i> , 2022, 30, 100423.	1.3	2
4	Intercellular communication induces glycolytic synchronization waves between individually oscillating cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2010075118.	3.3	12
5	Computational modelling of the β^4 and β^5 adrenal steroidogenic pathways provides insight into hypocortisolism. <i>Molecular and Cellular Endocrinology</i> , 2021, 526, 111194.	1.6	1
6	Transcriptional and Metabolic Response of Wine-Related <i>Lactiplantibacillus plantarum</i> to Different Conditions of Aeration and Nitrogen Availability. <i>Fermentation</i> , 2021, 7, 68.	1.4	3
7	Estimating merozoite release number and reinvasion efficiency in <i>Plasmodium falciparum</i> cell culture. <i>Transactions of the Royal Society of South Africa</i> , 2021, 76, 147-155.	0.8	0
8	Uncovering the effects of heterogeneity and parameter sensitivity on within-host dynamics of disease: malaria as a case study. <i>BMC Bioinformatics</i> , 2021, 22, 384.	1.2	2
9	The A-ring reduction of 11-ketotestosterone is efficiently catalysed by AKR1D1 and SRD5A2 but not SRD5A1. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 202, 105724.	1.2	13
10	A combined experimental and modelling approach for the Weimberg pathway optimisation. <i>Nature Communications</i> , 2020, 11, 1098.	5.8	41
11	Modelling the variable incorporation of aromatic amino acids in the tyrocidines and analogous cyclodecapeptides. <i>Journal of Applied Microbiology</i> , 2019, 127, 1665-1676.	1.4	2
12	Harmonizing semantic annotations for computational models in biology. <i>Briefings in Bioinformatics</i> , 2019, 20, 540-550.	3.2	52
13	Phosphofructokinase controls the acetaldehyde-induced phase shift in isolated yeast glycolytic oscillators. <i>Biochemical Journal</i> , 2019, 476, 353-363.	1.7	5
14	Studying Glycolytic Oscillations in Individual Yeast Cells by Combining Fluorescence Microscopy with Microfluidics and Optical Tweezers. <i>Current Protocols in Cell Biology</i> , 2019, 82, e70.	2.3	2
15	Data Management in Computational Systems Biology: Exploring Standards, Tools, Databases, and Packaging Best Practices. <i>Methods in Molecular Biology</i> , 2019, 2049, 285-314.	0.4	3
16	11-Oxygenated androgen precursors are the preferred substrates for aldo-keto reductase 1C3 (AKR1C3): Implications for castration resistant prostate cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 183, 192-201.	1.2	51
17	Targeting pathogen metabolism without collateral damage to the host. <i>Scientific Reports</i> , 2017, 7, 40406.	1.6	42
18	The JWS online simulation database. <i>Bioinformatics</i> , 2017, 33, 1589-1590.	1.8	28

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19	FAIRDOMHub: a repository and collaboration environment for sharing systems biology research. <i>Nucleic Acids Research</i> , 2017, 45, D404-D407.	6.5	98
20	The Peculiar Glycolytic Pathway in Hyperthermophilic Archaea: Understanding Its Whims by Experimentation In Silico. <i>International Journal of Molecular Sciences</i> , 2017, 18, 876.	1.8	7
21	Phosphoglycerate kinase acts as a futile cycle at high temperature. <i>Microbiology (United Kingdom)</i> , 2017, 163, 1604-1612.	0.7	4
22	Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data. <i>PLoS Biology</i> , 2017, 15, e2001414.	2.6	97
23	The Development of Computational Biology in South Africa: Successes Achieved and Lessons Learnt. <i>PLoS Computational Biology</i> , 2016, 12, e1004395.	1.5	12
24	Fourth-Generation Progestins Inhibit 3 β -Hydroxysteroid Dehydrogenase Type 2 and Modulate the Biosynthesis of Endogenous Steroids. <i>PLoS ONE</i> , 2016, 11, e0164170.	1.1	8
25	Targeting glycolysis in the malaria parasite <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2016, 283, 634-646.	2.2	35
26	Quantitative analysis of drug effects at the whole-body level: a case study for glucose metabolism in malaria patients. <i>Biochemical Society Transactions</i> , 2015, 43, 1157-1163.	1.6	2
27	The evolution of standards and data management practices in systems biology. <i>Molecular Systems Biology</i> , 2015, 11, 851.	3.2	35
28	Construction and validation of a detailed kinetic model of glycolysis in <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2015, 282, 1481-1511.	2.2	33
29	SupraBiology 2014: Promoting UK-China collaboration on Systems Biology and High Performance Computing. <i>Quantitative Biology</i> , 2015, 3, 46-53.	0.3	0
30	SEEK: a systems biology data and model management platform. <i>BMC Systems Biology</i> , 2015, 9, 33.	3.0	75
31	Allosteric regulation of phosphofructokinase controls the emergence of glycolytic oscillations in isolated yeast cells. <i>FEBS Journal</i> , 2014, 281, 2784-2793.	2.2	33
32	Variation in pantothenate kinase type determines the pantothenamide mode of action and impacts on coenzyme A salvage biosynthesis. <i>FEBS Journal</i> , 2014, 281, 4731-4753.	2.2	28
33	Heterogeneity of glycolytic oscillatory behaviour in individual yeast cells. <i>FEBS Letters</i> , 2014, 588, 3-7.	1.3	11
34	Glutathione metabolism modeling: A mechanism for liver drug-robustness and a new biomarker strategy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4943-4959.	1.1	28
35	Trade-off of dynamic fragility but not of robustness in metabolic pathways <i>in silico</i> . <i>FEBS Journal</i> , 2013, 280, 160-173.	2.2	18
36	Intermediate instability at high temperature leads to low pathway efficiency for an <i>in vitro</i> reconstituted system of gluconeogenesis in <i>Sulfolobus solfataricus</i> . <i>FEBS Journal</i> , 2013, 280, 4666-4680.	2.2	22

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37	Stealthy annotation of experimental biology by spreadsheets. <i>Concurrency Computation Practice and Experience</i> , 2013, 25, 467-480.	1.4	3
38	Semantic Data and Models Sharing in Systems Biology: The Just Enough Results Model and the SEEK Platform. <i>Lecture Notes in Computer Science</i> , 2013, , 212-227.	1.0	6
39	Databases for Kinetic Models. , 2013, , 537-544.		0
40	Systems biology tools for toxicology. <i>Archives of Toxicology</i> , 2012, 86, 1251-1271.	1.9	41
41	Determining Enzyme Kinetics for Systems Biology with Nuclear Magnetic Resonance Spectroscopy. <i>Metabolites</i> , 2012, 2, 818-843.	1.3	20
42	Emergence of the silicon human and network targeting drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 190-197.	1.9	32
43	A mathematical modelling approach to assessing the reliability of biomarkers of glutathione metabolism. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 233-243.	1.9	23
44	Sustained glycolytic oscillations in individual isolated yeast cells. <i>FEBS Journal</i> , 2012, 279, 2837-2847.	2.2	64
45	From steady-state to synchronized yeast glycolytic oscillations II: model validation. <i>FEBS Journal</i> , 2012, 279, 2823-2836.	2.2	21
46	From steady-state to synchronized yeast glycolytic oscillations I: model construction. <i>FEBS Journal</i> , 2012, 279, 2810-2822.	2.2	30
47	The SEEK. <i>Methods in Enzymology</i> , 2011, 500, 629-655.	0.4	44
48	From Silicon Cell to Silicon Human. , 2011, , 437-458.		4
49	What it takes to understand and cure a living system: computational systems biology and a systems biology-driven pharmacokinetics-pharmacodynamics platform. <i>Interface Focus</i> , 2011, 1, 16-23.	1.5	8
50	OneStop:JWS Online's access point to SBML,SBGN and MIRIAM compliant annotation. <i>Nature Precedings</i> , 2011, , .	0.1	0
51	Flux balance analysis for ethylene formation in genetically engineered <i>Saccharomyces cerevisiae</i> . <i>IET Systems Biology</i> , 2011, 5, 245-251.	0.8	13
52	Reproducible computational biology experiments with SED-ML - The Simulation Experiment Description Markup Language. <i>BMC Systems Biology</i> , 2011, 5, 198.	3.0	211
53	Minimum Information About a Simulation Experiment (MIASE). <i>PLoS Computational Biology</i> , 2011, 7, e1001122.	1.5	133
54	RightField: embedding ontology annotation in spreadsheets. <i>Bioinformatics</i> , 2011, 27, 2021-2022.	1.8	69

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55	BioModels Database: An enhanced, curated and annotated resource for published quantitative kinetic models. <i>BMC Systems Biology</i> , 2010, 4, 92.	3.0	467
56	Restriction point control of the mammalian cell cycle via the cyclin E/Cdk2:p27 complex. <i>FEBS Journal</i> , 2010, 277, 357-367.	2.2	44
57	Design principles of nuclear receptor signaling: how complex networking improves signal transduction. <i>Molecular Systems Biology</i> , 2010, 6, 446.	3.2	32
58	Systems biology towards life in silico: mathematics of the control of living cells. <i>Journal of Mathematical Biology</i> , 2009, 58, 7-34.	0.8	77
59	The Systems Biology Graphical Notation. <i>Nature Biotechnology</i> , 2009, 27, 735-741.	9.4	828
60	Enzymes or redox couples? The kinetics of thioredoxin and glutaredoxin reactions in a systems biology context. <i>Biochemical Journal</i> , 2009, 417, 269-277.	1.7	25
61	A comparative analysis of kinetic models of erythrocyte glycolysis. <i>Journal of Theoretical Biology</i> , 2008, 252, 488-496.	0.8	18
62	BDI-modelling of complex intracellular dynamics. <i>Journal of Theoretical Biology</i> , 2008, 251, 1-23.	0.8	24
63	Pyruvate relieves the necessity of high induction levels of catalase and enables <i>Campylobacter jejuni</i> to grow under fully aerobic conditions. <i>Letters in Applied Microbiology</i> , 2008, 46, 377-382.	1.0	23
64	Control, responses and modularity of cellular regulatory networks: a control analysis perspective. <i>IET Systems Biology</i> , 2008, 2, 397-410.	0.8	27
65	Systems biology model databases and resources. <i>Essays in Biochemistry</i> , 2008, 45, 223-236.	2.1	10
66	Data and model integration using JWS Online. <i>In Silico Biology</i> , 2007, 7, S27-35.	0.4	6
67	Towards building the silicon cell: A modular approach. <i>BioSystems</i> , 2006, 83, 207-216.	0.9	107
68	Is there an optimal ribosome concentration for maximal protein production?. <i>IET Systems Biology</i> , 2006, 153, 398.	2.0	2
69	Editorial: 12th BTK Meeting: "Systems Biology: redefining BioThermoKinetics™". <i>IET Systems Biology</i> , 2006, 153, 312.	2.0	1
70	Conditions for effective allosteric feedforward and feedback in metabolic pathways. <i>IET Systems Biology</i> , 2006, 153, 327.	2.0	4
71	Comparing the regulatory behaviour of two cooperative, reversible enzyme mechanisms. <i>IET Systems Biology</i> , 2006, 153, 335.	2.0	3
72	Summation theorems for flux and concentration control coefficients of dynamic systems. <i>IET Systems Biology</i> , 2006, 153, 314.	2.0	10

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73	Evaluation of a simplified generic bi-substrate rate equation for computational systems biology. IET Systems Biology, 2006, 153, 338.	2.0	23
74	Experimental evidence for allosteric modifier saturation as predicted by the bi-substrate Hill equation. IET Systems Biology, 2006, 153, 342.	2.0	5
75	Software tools that facilitate kinetic modelling with large data sets: an example using growth modelling in sugarcane. IET Systems Biology, 2006, 153, 385.	2.0	1
76	BioModels Database: a free, centralized database of curated, published, quantitative kinetic models of biochemical and cellular systems. Nucleic Acids Research, 2006, 34, D689-D691.	6.5	661
77	Glycolysis and Flux Control. EcoSal Plus, 2005, 1, .	2.1	11
78	Yeast glycolytic oscillations that are not controlled by a single oscillophore: a new definition of oscillophore strength. Journal of Theoretical Biology, 2005, 232, 385-398.	0.8	31
79	The Silicon Cell initiative: working towards a detailed kinetic description at the cellular level. Current Opinion in Biotechnology, 2005, 16, 336-343.	3.3	60
80	Minimum information requested in the annotation of biochemical models (MIRIAM). Nature Biotechnology, 2005, 23, 1509-1515.	9.4	553
81	Detailed Kinetic Models Using Metabolomics Data Sets. , 2005, , 215-242.		0
82	Role of Hexose Transport in Control of Glycolytic Flux in <i>Saccharomyces cerevisiae</i> . Applied and Environmental Microbiology, 2004, 70, 5323-5330.	1.4	107
83	Physiological implications of class IIa bacteriocin resistance in <i>Listeria monocytogenes</i> strains. Microbiology (United Kingdom), 2004, 150, 335-340.	0.7	36
84	Web-based kinetic modelling using JWS Online. Bioinformatics, 2004, 20, 2143-2144.	1.8	295
85	An <i>ffh</i> mutant of <i>Streptococcus mutans</i> is viable and able to physiologically adapt to low pH in continuous culture. FEMS Microbiology Letters, 2004, 234, 315-324.	0.7	23
86	The Silicon Cell Initiative. Current Genomics, 2004, 5, 687-697.	0.7	13
87	Control analysis of trophic chains. Ecological Modelling, 2003, 168, 153-171.	1.2	11
88	Attractive Models: How to Make the Silicon Cell Relevant and Dynamic. Comparative and Functional Genomics, 2003, 4, 155-158.	2.0	3
89	JWS Online Cellular Systems Modelling and Microbiology. Microbiology (United Kingdom), 2003, 149, 3045-3047.	0.7	26
90	The Glycolytic Flux in <i>Escherichia coli</i> Is Controlled by the Demand for ATP. Journal of Bacteriology, 2002, 184, 3909-3916.	1.0	315

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91	Metabolic engineering of lactic acid bacteria, the combined approach: kinetic modelling, metabolic control and experimental analysis The GenBank accession number for the sequence reported in this paper is AY046926.. Microbiology (United Kingdom), 2002, 148, 1003-1013.	0.7	196
92	A turbo engine with automatic transmission? How to marry chemicomotion to the subtleties and robustness of life. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1555, 75-82.	0.5	8
93	Control Analysis for Autonomously Oscillating Biochemical Networks. Biophysical Journal, 2002, 82, 99-108.	0.2	69
94	Putting Intentions into Cell Biochemistry: An Artificial Intelligence Perspective. Journal of Theoretical Biology, 2002, 214, 105-134.	0.8	36
95	Selectivity in Overlapping MAP Kinase Cascades. Journal of Theoretical Biology, 2002, 218, 343-354.	0.8	21
96	Metabolic control in integrated biochemical systems. FEBS Journal, 2002, 269, 4399-4408.	0.2	19
97	DNA supercoiling in Escherichia coli under tight and subtle homeostatic control, involving gene-expression and metabolic regulation of both topoisomerase ϵ and DNA gyrase. FEBS Journal, 2002, 269, 1662-1669.	0.2	96
98	Time dependent responses of glycolytic intermediates in a detailed glycolytic model of Lactococcus lactis during glucose run-out experiments. Molecular Biology Reports, 2002, 29, 157-161.	1.0	37
99	DNA supercoiling by gyrase is linked to nucleoid compaction. Molecular Biology Reports, 2002, 29, 79-82.	1.0	45
100	How to distinguish between the vacuum cleaner and flippase mechanisms of the lmrA multi-drug transporter in Lactococcus lactis. Molecular Biology Reports, 2002, 29, 107-112.	1.0	4
101	Java Web Simulation (JWS); a web based database of kinetic models. Molecular Biology Reports, 2002, 29, 259-263.	1.0	22
102	Experimental supply-demand analysis of anaerobic yeast energy metabolism. Molecular Biology Reports, 2002, 29, 203-209.	1.0	8
103	ECA: control in ecosystems. Molecular Biology Reports, 2002, 29, 113-117.	1.0	3
104	The extent to which ATP demand controls the glycolytic flux depends strongly on the organism and conditions for growth. Molecular Biology Reports, 2002, 29, 41-45.	1.0	40
105	Control of Glycolytic Dynamics by Hexose Transport in Saccharomyces cerevisiae. Biophysical Journal, 2001, 80, 626-634.	0.2	75
106	Glucose and the ATP paradox in yeast. Biochemical Journal, 2000, 352, 593.	1.7	7
107	Glucose and the ATP paradox in yeast. Biochemical Journal, 2000, 352, 593-599.	1.7	39
108	Can yeast glycolysis be understood in terms of in vitro kinetics of the constituent enzymes? Testing biochemistry. FEBS Journal, 2000, 267, 5313-5329.	0.2	587

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109	Branched-Chain $\hat{\pm}$ -Keto Acid Catabolism via the Gene Products of the <i>bkd</i> Operon in <i>Enterococcus faecalis</i> : a New, Secreted Metabolite Serving as a Temporary Redox Sink. <i>Journal of Bacteriology</i> , 2000, 182, 3239-3246.	1.0	42
110	Construction and Characterization of an Effector Strain of <i>Streptococcus mutans</i> for Replacement Therapy of Dental Caries. <i>Infection and Immunity</i> , 2000, 68, 543-549.	1.0	104
111	Transduction of Intracellular and Intercellular Dynamics in Yeast Glycolytic Oscillations. <i>Biophysical Journal</i> , 2000, 78, 1145-1153.	0.2	116
112	Metabolic Control From The Back Benches: Biochemistry Towards Biocomplexity. , 2000, , 235-242.		1
113	Quantifying the Importance of Regulatory Loops in homeostatic Control Mechanisms: Hierarchical Control of DNA Supercoiling. , 2000, , 67-72.		0
114	Extensive regulation compromises the extent to which DNA gyrase controls DNA supercoiling and growth rate of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1999, 266, 865-877.	0.2	31
115	Live control of the living cell. <i>Biochemical Society Transactions</i> , 1999, 27, 261-264.	1.6	6
116	Catabolism of Branched-Chain $\hat{\pm}$ -Keto Acids in <i>Enterococcus faecalis</i> : the <i>bkd</i> Gene Cluster, Enzymes, and Metabolic Route. <i>Journal of Bacteriology</i> , 1999, 181, 5433-5442.	1.0	47
117	The Steady-State Internal Redox State (NADH/NAD) Reflects the External Redox State and Is Correlated with Catabolic Adaptation in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1999, 181, 2351-2357.	1.0	300
118	Thermodynamics of complexity. The live cell. <i>Thermochimica Acta</i> , 1998, 309, 111-120.	1.2	15
119	Competition for phosphorus between the nitrogen-fixing cyanobacteria <i>Anabaena</i> and <i>Aphanizomenon</i> . <i>FEMS Microbiology Ecology</i> , 1997, 24, 259-267.	1.3	40
120	Regulation of energy source metabolism in streptococci. <i>Journal of Applied Microbiology</i> , 1997, 83, 12S-19S.	1.4	29
121	Control of glycolytic flux in <i>Zymomonas mobilis</i> by glucose 6-phosphate dehydrogenase activity. , 1996, 51, 190-197.		26
122	DNA supercoiling depends on the phosphorylation potential in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1996, 20, 351-360.	1.2	111
123	Genetic and physiological analysis of the lethal effect of L-(+)-lactate dehydrogenase deficiency in <i>Streptococcus mutans</i> : complementation by alcohol dehydrogenase from <i>Zymomonas mobilis</i> . <i>Infection and Immunity</i> , 1996, 64, 4319-4323.	1.0	32
124	Molecular biology for flux control. <i>Biochemical Society Transactions</i> , 1995, 23, 367-370.	1.6	7
125	Characterization of the <i>Zymomonas mobilis</i> glucose facilitator gene product (<i>glf</i>) in recombinant <i>Escherichia coli</i> : examination of transport mechanism, kinetics and the role of glucokinase in glucose transport. <i>Molecular Microbiology</i> , 1995, 15, 795-802.	1.2	93
126	Energy, control and DNA structure in the living cell. <i>Biophysical Chemistry</i> , 1995, 55, 153-165.	1.5	12

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127	Effect of culture conditions on the NADH/NAD ratio and total amounts of NAD(H) in chemostat cultures of <i>Enterococcus faecalis</i> NCTC 775. <i>FEMS Microbiology Letters</i> , 1994, 116, 263-267.	0.7	29
128	Reconstruction of glucose uptake and phosphorylation in a glucose-negative mutant of <i>Escherichia coli</i> by using <i>Zymomonas mobilis</i> genes encoding the glucose facilitator protein and glucokinase. <i>Journal of Bacteriology</i> , 1994, 176, 2133-2135.	1.0	50
129	Differences in sensitivity to NADH of purified pyruvate dehydrogenase complexes of <i>Enterococcus faecalis</i> , <i>Lactococcus lactis</i> , <i>Azotobacter vinelandii</i> and <i>Escherichia coli</i> : Implications for their activity in vivo. <i>FEMS Microbiology Letters</i> , 1993, 114, 279-283.	0.7	73
130	Differences in sensitivity to NADH of purified pyruvate dehydrogenase complexes of <i>Enterococcus faecalis</i> , <i>Lactococcus lactis</i> , <i>Azotobacter vinelandii</i> and <i>Escherichia coli</i> : Implications for their activity in vivo. <i>FEMS Microbiology Letters</i> , 1993, 114, 279-283.	0.7	4
131	Isolation, characterization, and physiological role of the pyruvate dehydrogenase complex and alpha-acetolactate synthase of <i>Lactococcus lactis</i> subsp. <i>lactis</i> bv. <i>diacetylactis</i> . <i>Journal of Bacteriology</i> , 1992, 174, 4838-4841.	1.0	149
132	Isolation and characterisation of the pyruvate dehydrogenase complex of anaerobically grown <i>Enterococcus faecalis</i> NCTC 775. <i>FEBS Journal</i> , 1992, 203, 245-250.	0.2	33
133	Effect of the energy source on the NADH/NAD ratio and on pyruvate catabolism in anaerobic chemostat cultures of <i>Enterococcus faecalis</i> NCTC 775. <i>FEMS Microbiology Letters</i> , 1991, 81, 63-66.	0.7	41
134	Quantitative aspects of glucose metabolism by <i>Escherichia coli</i> B/r, grown in the presence of pyrroloquinoline quinone. <i>Antonie Van Leeuwenhoek</i> , 1991, 60, 373-382.	0.7	16
135	Effect of the energy source on the NADH/NAD ratio and on pyruvate catabolism in anaerobic chemostat cultures of <i>Enterococcus faecalis</i> NCTC 775. <i>FEMS Microbiology Letters</i> , 1991, 81, 63-66.	0.7	3
136	Involvement of pyruvate dehydrogenase in product formation in pyruvate-limited anaerobic chemostat cultures of <i>Enterococcus faecalis</i> NCTC 775. <i>Archives of Microbiology</i> , 1990, 154, 50-5.	1.0	84
137	From isolation to integration, a systems biology approach for building the Silicon Cell. , 0, , 13-30.		31