

# Douglas Kell

## List of Publications by Year in descending order

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562  
papers

50,261  
citations

1612

108  
h-index

2750

198  
g-index

633  
all docs

633  
docs citations

633  
times ranked

45670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Procedures for large-scale metabolic profiling of serum and plasma using gas chromatography and liquid chromatography coupled to mass spectrometry. <i>Nature Protocols</i> , 2011, 6, 1060-1083.	5.5	2,236
2	Metabolomics by numbers: acquiring and understanding global metabolite data. <i>Trends in Biotechnology</i> , 2004, 22, 245-252.	4.9	1,156
3	Oscillations in NF- $\kappa$ B Signaling Control the Dynamics of Gene Expression. <i>Science</i> , 2004, 306, 704-708.	6.0	1,109
4	Systematic functional analysis of the yeast genome. <i>Trends in Biotechnology</i> , 1998, 16, 373-378.	4.9	1,059
5	A functional genomics strategy that uses metabolome data to reveal the phenotype of silent mutations. <i>Nature Biotechnology</i> , 2001, 19, 45-50.	9.4	948
6	A community-driven global reconstruction of human metabolism. <i>Nature Biotechnology</i> , 2013, 31, 419-425.	9.4	920
7	The Systems Biology Graphical Notation. <i>Nature Biotechnology</i> , 2009, 27, 735-741.	9.4	828
8	Computational cluster validation in post-genomic data analysis. <i>Bioinformatics</i> , 2005, 21, 3201-3212.	1.8	763
9	The passive electrical properties of biological systems: their significance in physiology, biophysics and biotechnology. <i>Physics in Medicine and Biology</i> , 1987, 32, 933-970.	1.6	704
10	Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses. <i>Microbiological Reviews</i> , 1996, 60, 641-696.	10.1	700
11	Statistical strategies for avoiding false discoveries in metabolomics and related experiments. <i>Metabolomics</i> , 2007, 2, 171-196.	1.4	658
12	Non-linear optimization of biochemical pathways: applications to metabolic engineering and parameter estimation. <i>Bioinformatics</i> , 1998, 14, 869-883.	1.8	619
13	A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology. <i>Nature Biotechnology</i> , 2008, 26, 1155-1160.	9.4	530
14	Pulsatile Stimulation Determines Timing and Specificity of NF- $\kappa$ B-Dependent Transcription. <i>Science</i> , 2009, 324, 242-246.	6.0	510
15	Viability and activity in readily culturable bacteria: a review and discussion of the practical issues. <i>Antonie Van Leeuwenhoek</i> , 1998, 73, 169-187.	0.7	500
16	High-throughput classification of yeast mutants for functional genomics using metabolic footprinting. <i>Nature Biotechnology</i> , 2003, 21, 692-696.	9.4	500
17	Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses.. <i>Microbiological Reviews</i> , 1996, 60, 641-696.	10.1	490
18	Functional genomic hypothesis generation and experimentation by a robot scientist. <i>Nature</i> , 2004, 427, 247-252.	13.7	481

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19	Metabolomics and systems biology: making sense of the soup. <i>Current Opinion in Microbiology</i> , 2004, 7, 296-307.	2.3	472
20	Here is the evidence, now what is the hypothesis? The complementary roles of inductive and hypothesis-driven science in the post-genomic era. <i>BioEssays</i> , 2004, 26, 99-105.	1.2	451
21	Development of a Robust and Repeatable UPLC-MS Method for the Long-Term Metabolomic Study of Human Serum. <i>Analytical Chemistry</i> , 2009, 81, 1357-1364.	3.2	447
22	Serum ferritin is an important inflammatory disease marker, as it is mainly a leakage product from damaged cells. <i>Metallomics</i> , 2014, 6, 748-773.	1.0	442
23	The inhibition by CO <sub>2</sub> of the growth and metabolism of microorganisms. <i>Journal of Applied Bacteriology</i> , 1989, 67, 109-136.	1.1	429
24	Microbes and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 979-984.	1.2	426
25	Iron behaving badly: inappropriate iron chelation as a major contributor to the aetiology of vascular and other progressive inflammatory and degenerative diseases. <i>BMC Medical Genomics</i> , 2009, 2, 2.	0.7	421
26	Carrier-mediated cellular uptake of pharmaceutical drugs: an exception or the rule?. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 205-220.	21.5	413
27	A bacterial cytokine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8916-8921.	3.3	405
28	Metabolic footprinting and systems biology: the medium is the message. <i>Nature Reviews Microbiology</i> , 2005, 3, 557-565.	13.6	373
29	Hierarchical metabolomics demonstrates substantial compositional similarity between genetically modified and conventional potato crops. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14458-14462.	3.3	367
30	The dormant blood microbiome in chronic, inflammatory diseases. <i>FEMS Microbiology Reviews</i> , 2015, 39, 567-591.	3.9	362
31	Rapid identification of urinary tract infection bacteria using hyperspectral whole-organism fingerprinting and artificial neural networks. <i>Microbiology (United Kingdom)</i> , 1998, 144, 1157-1170.	0.7	361
32	Proposed minimum reporting standards for data analysis in metabolomics. <i>Metabolomics</i> , 2007, 3, 231-241.	1.4	361
33	Towards a unifying, systems biology understanding of large-scale cellular death and destruction caused by poorly liganded iron: Parkinson's, Huntington's, Alzheimer's, prions, bactericides, chemical toxicology and others as examples. <i>Archives of Toxicology</i> , 2010, 84, 825-889.	1.9	330
34	On the functional proton current pathway of electron transport phosphorylation. <i>Biochimica Et Biophysica Acta - Reviews on Bioenergetics</i> , 1979, 549, 55-99.	0.8	328
35	Synthetic biology for the directed evolution of protein biocatalysts: navigating sequence space intelligently. <i>Chemical Society Reviews</i> , 2015, 44, 1172-1239.	18.7	316
36	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. <i>Annals of Botany</i> , 2011, 108, 407-418.	1.4	313

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37	Detection of the Dipicolinic Acid Biomarker in Bacillus Spores Using Curie-Point Pyrolysis Mass Spectrometry and Fourier Transform Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2000, 72, 119-127.	3.2	292
38	Dormancy in non-sporulating bacteria. <i>FEMS Microbiology Letters</i> , 1993, 104, 271-286.	0.7	286
39	A proposed framework for the description of plant metabolomics experiments and their results. <i>Nature Biotechnology</i> , 2004, 22, 1601-1606.	9.4	283
40	Rapid and Quantitative Detection of the Microbial Spoilage of Meat by Fourier Transform Infrared Spectroscopy and Machine Learning. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2822-2828.	1.4	281
41	Text mining and its potential applications in systems biology. <i>Trends in Biotechnology</i> , 2006, 24, 571-579.	4.9	281
42	Persistent clotting protein pathology in Long COVID/Post-Acute Sequelae of COVID-19 (PASC) is accompanied by increased levels of antiplasmin. <i>Cardiovascular Diabetology</i> , 2021, 20, 172.	2.7	271
43	Systems biology, metabolic modelling and metabolomics in drug discovery and development. <i>Drug Discovery Today</i> , 2006, 11, 1085-1092.	3.2	262
44	Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry. <i>Analytica Chimica Acta</i> , 1997, 348, 71-86.	2.6	259
45	Rapid assessment of bacterial viability and vitality by rhodamine 123 and flow cytometry. <i>Journal of Applied Bacteriology</i> , 1992, 72, 410-422.	1.1	256
46	A family of autocrine growth factors in Mycobacterium tuberculosis. <i>Molecular Microbiology</i> , 2002, 46, 623-635.	1.2	254
47	The Biology of Lactoferrin, an Iron-Binding Protein That Can Help Defend Against Viruses and Bacteria. <i>Frontiers in Immunology</i> , 2020, 11, 1221.	2.2	251
48	A systematic approach to modeling, capturing, and disseminating proteomics experimental data. <i>Nature Biotechnology</i> , 2003, 21, 247-254.	9.4	246
49	Controlled vocabularies and semantics in systems biology. <i>Molecular Systems Biology</i> , 2011, 7, 543.	3.2	246
50	Multiobjective Optimization in Bioinformatics and Computational Biology. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007, 4, 279-292.	1.9	243
51	Recon 2.2: from reconstruction to model of human metabolism. <i>Metabolomics</i> , 2016, 12, 109.	1.4	243
52	Dielectric permittivity of microbial suspensions at radio frequencies: a novel method for the real-time estimation of microbial biomass. <i>Enzyme and Microbial Technology</i> , 1987, 9, 181-186.	1.6	242
53	Robust Early Pregnancy Prediction of Later Preeclampsia Using Metabolomic Biomarkers. <i>Hypertension</i> , 2010, 56, 741-749.	1.3	242
54	Mass spectrometry tools and metabolite-specific databases for molecular identification in metabolomics. <i>Analyst</i> , 2009, 134, 1322.	1.7	240

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55	Dormancy in Stationary-Phase Cultures of <i>Micrococcus luteus</i> : Flow Cytometric Analysis of Starvation and Resuscitation. Applied and Environmental Microbiology, 1993, 59, 3187-3196.	1.4	239
56	Growth control of the eukaryote cell: a systems biology study in yeast. Journal of Biology, 2007, 6, 4.	2.7	234
57	An introduction to wavelet transforms for chemometricians: A time-frequency approach. Chemometrics and Intelligent Laboratory Systems, 1997, 37, 215-239.	1.8	219
58	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1589-1597.	1.8	217
59	Molecular phenotyping of a UK population: defining the human serum metabolome. Metabolomics, 2015, 11, 9-26.	1.4	202
60	A minimal hypothesis for membrane-linked free-energy transduction. Biochimica Et Biophysica Acta - Reviews on Bioenergetics, 1984, 768, 257-292.	0.8	199
61	Muralytic activity of <i>Micrococcus luteus</i> Rpf and its relationship to physiological activity in promoting bacterial growth and resuscitation. Molecular Microbiology, 2006, 59, 84-98.	1.2	193
62	Rapid identification of <i>Streptococcus</i> and <i>Enterococcus</i> species using diffuse reflectance-absorbance Fourier transform infrared spectroscopy and artificial neural networks. FEMS Microbiology Letters, 1996, 140, 233-239.	0.7	187
63	<sc>SBML</sc> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	3.2	178
64	The estimation of microbial biomass. Biosensors, 1985, 1, 17-84.	2.0	175
65	Huntington disease patients and transgenic mice have similar pro-catabolic serum metabolite profiles. Brain, 2006, 129, 877-886.	3.7	175
66	Automated workflows for accurate mass-based putative metabolite identification in LC/MS-derived metabolomic datasets. Bioinformatics, 2011, 27, 1108-1112.	1.8	173
67	Formation and resuscitation of "non-culturable" cells of <i>Rhodococcus rhodochrous</i> and <i>Mycobacterium tuberculosis</i> in prolonged stationary phase. Microbiology (United Kingdom), 2002, 148, 1581-1591.	0.7	173
68	Development and Performance of a Gas Chromatography~Time-of-Flight Mass Spectrometry Analysis for Large-Scale Nontargeted Metabolomic Studies of Human Serum. Analytical Chemistry, 2009, 81, 7038-7046.	3.2	168
69	Membrane transporter engineering in industrial biotechnology and whole cell biocatalysis. Trends in Biotechnology, 2015, 33, 237-246.	4.9	167
70	Metabolic control theory: its role in microbiology and biotechnology. FEMS Microbiology Letters, 1986, 39, 305-320.	0.7	162
71	Metabolic profiling of serum using Ultra Performance Liquid Chromatography and the LTQ-Orbitrap mass spectrometry system. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 288-298.	1.2	161
72	Event extraction for systems biology by text mining the literature. Trends in Biotechnology, 2010, 28, 381-390.	4.9	160

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73	Pharmaceutical drug transport: the issues and the implications that it is essentially carrier-mediated only. <i>Drug Discovery Today</i> , 2011, 16, 704-714.	3.2	160
74	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018, 1, 66.	2.0	159
75	The rpf gene of <i>Micrococcus luteus</i> encodes an essential secreted growth factor. <i>Molecular Microbiology</i> , 2002, 46, 611-621.	1.2	157
76	Wavelet Denoising of Infrared Spectra. <i>Analyst</i> , The, 1997, 122, 645-652.	1.7	154
77	A metabolome pipeline: from concept to data to knowledge. <i>Metabolomics</i> , 2005, 1, 39-51.	1.4	152
78	Serum metabolomics reveals many novel metabolic markers of heart failure, including pseudouridine and 2-oxoglutarate. <i>Metabolomics</i> , 2007, 3, 413-426.	1.4	150
79	Matrix method for determining steps most rate-limiting to metabolic fluxes in biotechnological processes. <i>Biotechnology and Bioengineering</i> , 1987, 30, 101-107.	1.7	147
80	Path2Models: large-scale generation of computational models from biochemical pathway maps. <i>BMC Systems Biology</i> , 2013, 7, 116.	3.0	145
81	Metabolomics, modelling and machine learning in systems biology - towards an understanding of the languages of cells. Delivered on 3 July 2005 at the 30th FEBS Congress and 9th IUBMB conference in Budapest. <i>FEBS Journal</i> , 2006, 273, 873-894.	2.2	142
82	Metabolomics and systems pharmacology: why and how to model the human metabolic network for drug discovery. <i>Drug Discovery Today</i> , 2014, 19, 171-182.	3.2	140
83	On the translocation of bacteria and their lipopolysaccharides between blood and peripheral locations in chronic, inflammatory diseases: the central roles of LPS and LPS-induced cell death. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1339-1377.	0.6	140
84	Closed-Loop, Multiobjective Optimization of Analytical Instrumentation: Gas Chromatography/Time-of-Flight Mass Spectrometry of the Metabolomes of Human Serum and of Yeast Fermentations. <i>Analytical Chemistry</i> , 2005, 77, 290-303.	3.2	136
85	How drugs get into cells: tested and testable predictions to help discriminate between transporter-mediated uptake and lipoidal bilayer diffusion. <i>Frontiers in Pharmacology</i> , 2014, 5, 231.	1.6	136
86	Covid-19: The Rollercoaster of Fibrin(Ogen), D-Dimer, Von Willebrand Factor, P-Selectin and Their Interactions with Endothelial Cells, Platelets and Erythrocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5168.	1.8	135
87	Quantifying heterogeneity: flow cytometry of bacterial cultures. <i>Antonie Van Leeuwenhoek</i> , 1991, 60, 145-158.	0.7	134
88	The promiscuous binding of pharmaceutical drugs and their transporter-mediated uptake into cells: what we (need to) know and how we can do so. <i>Drug Discovery Today</i> , 2013, 18, 218-239.	3.2	130
89	Comparative evaluation of software for deconvolution of metabolomics data based on GC-TOF-MS. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 215-227.	5.8	129
90	Influence of Viable Cells on the Resuscitation of Dormant Cells in <i>Micrococcus luteus</i> Cultures Held in an Extended Stationary Phase: the Population Effect. <i>Applied and Environmental Microbiology</i> , 1994, 60, 3284-3291.	1.4	129

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91	Metabolic profiling using direct infusion electrospray ionisation mass spectrometry for the characterisation of olive oils. <i>Analyst, The</i> , 2002, 127, 1457-1462.	1.7	127
92	Diagnostic morphology: biophysical indicators for iron-driven inflammatory diseases. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 486-510.	0.6	127
93	On the permeability to weak acids and bases of the cytoplasmic membrane of <i>Clostridium pasteurianum</i> . <i>Biochemical and Biophysical Research Communications</i> , 1981, 99, 81-88.	1.0	126
94	Improving metabolic flux predictions using absolute gene expression data. <i>BMC Systems Biology</i> , 2012, 6, 73.	3.0	126
95	A central role for amyloid fibrin microclots in long COVID/PASC: origins and therapeutic implications. <i>Biochemical Journal</i> , 2022, 479, 537-559.	1.7	126
96	Real-time monitoring of cellular biomass: Methods and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 1990, 9, 190-194.	5.8	125
97	Primary and secondary metabolism, and post-translational protein modifications, as portrayed by proteomic analysis of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 2002, 46, 917-932.	1.2	125
98	Insights into the behaviour of systems biology models from dynamic sensitivity and identifiability analysis: a case study of an NF- $\kappa$ B signalling pathway. <i>Molecular BioSystems</i> , 2006, 2, 640-649.	2.9	124
99	The biology of ergothioneine, an antioxidant nutraceutical. <i>Nutrition Research Reviews</i> , 2020, 33, 190-217.	2.1	122
100	Sensitivity analysis of parameters controlling oscillatory signalling in the NF- $\kappa$ B pathway: the roles of IKK and I $\kappa$ B $\zeta$ . <i>IET Systems Biology</i> , 2004, 1, 93-103.	2.0	121
101	Rapid assessment of the adulteration of virgin olive oils by other seed oils using pyrolysis mass spectrometry and artificial neural networks. <i>Journal of the Science of Food and Agriculture</i> , 1993, 63, 297-307.	1.7	120
102	Do bacteria need to communicate with each other for growth?. <i>Trends in Microbiology</i> , 1996, 4, 237-242.	3.5	120
103	Optimal construction of a fast and accurate polarisable water potential based on multipole moments trained by machine learning. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6365.	1.3	119
104	Bacterial dormancy and culturability: the role of autocrine growth factors Commentary. <i>Current Opinion in Microbiology</i> , 2000, 3, 238-243.	2.3	118
105	A GC-TOF-MS study of the stability of serum and urine metabolomes during the UK Biobank sample collection and preparation protocols. <i>International Journal of Epidemiology</i> , 2008, 37, i23-i30.	0.9	118
106	The Cytochrome P450 Complement (CYPome) of <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , 2002, 277, 24000-24005.	1.6	117
107	â€˜Metabolite-likenessâ€™ <sup>TM</sup> as a criterion in the design and selection of pharmaceutical drug libraries. <i>Drug Discovery Today</i> , 2009, 14, 31-40.	3.2	117
108	Defrosting the Digital Library: Bibliographic Tools for the Next Generation Web. <i>PLoS Computational Biology</i> , 2008, 4, e1000204.	1.5	116

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109	Solvent Selection for Whole Cell Biotransformations in Organic Media. <i>Critical Reviews in Biotechnology</i> , 1995, 15, 139-177.	5.1	114
110	A model of yeast glycolysis based on a consistent kinetic characterisation of all its enzymes. <i>FEBS Letters</i> , 2013, 587, 2832-2841.	1.3	113
111	Pyrolysis mass spectrometry and its applications in biotechnology. <i>Current Opinion in Biotechnology</i> , 1996, 7, 20-28.	3.3	112
112	Functional Genomics via Metabolic Footprinting: Monitoring Metabolite Secretion by <i>Escherichia coli</i> Tryptophan Metabolism Mutants Using FT-IR and Direct Injection Electrospray Mass Spectrometry. <i>Comparative and Functional Genomics</i> , 2003, 4, 376-391.	2.0	110
113	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. <i>Metabolomics</i> , 2005, 1, 227-234.	1.4	110
114	Variable Selection in Discriminant Partial Least-Squares Analysis. <i>Analytical Chemistry</i> , 1998, 70, 4126-4133.	3.2	109
115	Estimation of dormant <i>Micrococcus luteus</i> cells by penicillin lysis and by resuscitation in cell-free spent culture medium at high dilution. <i>FEMS Microbiology Letters</i> , 1994, 115, 347-352.	0.7	107
116	SARS-CoV-2 spike protein S1 induces fibrin(ogen) resistant to fibrinolysis: implications for microclot formation in COVID-19. <i>Bioscience Reports</i> , 2021, 41, .	1.1	104
117	Metabolic footprinting as a tool for discriminating between brewing yeasts. <i>Yeast</i> , 2007, 24, 667-679.	0.8	103
118	Dielectric properties of human blood and erythrocytes at radio frequencies (0.2-10 MHz); dependence on cell volume fraction and medium composition. <i>European Biophysics Journal</i> , 1994, 23, 207-215.	1.2	102
119	Information-theoretic sensitivity analysis: a general method for credit assignment in complex networks. <i>Journal of the Royal Society Interface</i> , 2008, 5, 223-235.	1.5	101
120	Metabolic Profiling Uncovers a Phenotypic Signature of Small for Gestational Age in Early Pregnancy. <i>Journal of Proteome Research</i> , 2011, 10, 3660-3673.	1.8	99
121	The use of 5-cyano-2,3-ditoyl tetrazolium chloride and flow cytometry for the visualisation of respiratory activity in individual cells of <i>Micrococcus luteus</i> . <i>Journal of Microbiological Methods</i> , 1993, 17, 115-122.	0.7	98
122	Variable selection in wavelet regression models. <i>Analytica Chimica Acta</i> , 1998, 368, 29-44.	2.6	98
123	Flow-injection electrospray ionization mass spectrometry of crude cell extracts for high-throughput bacterial identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 118-128.	1.2	97
124	Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup> C NMR and multivariate calibration with variable reduction. <i>Analytica Chimica Acta</i> , 1997, 348, 357-374.	2.6	96
125	Array-based evolution of DNA aptamers allows modelling of an explicit sequence-fitness landscape. <i>Nucleic Acids Research</i> , 2009, 37, e6-e6.	6.5	96
126	Further developments towards a genome-scale metabolic model of yeast. <i>BMC Systems Biology</i> , 2010, 4, 145.	3.0	95



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127	Finding novel pharmaceuticals in the systems biology era using multiple effective drug targets, phenotypic screening and knowledge of transporters: where drug discovery went wrong and how to fix it. <i>FEBS Journal</i> , 2013, 280, 5957-5980.	2.2	95
128	The metabolome 18 years on: a concept comes of age. <i>Metabolomics</i> , 2016, 12, 148.	1.4	95
129	Rapid and Quantitative Analysis of the Pyrolysis Mass Spectra of Complex Binary and Tertiary Mixtures Using Multivariate Calibration and Artificial Neural Networks. <i>Analytical Chemistry</i> , 1994, 66, 1070-1085.	3.2	94
130	Closed-Loop, Multiobjective Optimization of Two-Dimensional Gas Chromatography/Mass Spectrometry for Serum Metabolomics. <i>Analytical Chemistry</i> , 2007, 79, 464-476.	3.2	94
131	Discrimination of Aerobic Endospore-forming Bacteria via Electrospray-Ionization Mass Spectrometry of Whole Cell Suspensions. <i>Analytical Chemistry</i> , 2001, 73, 4134-4144.	3.2	93
132	Identification and characterization of high-flux-control genes of yeast through competition analyses in continuous cultures. <i>Nature Genetics</i> , 2008, 40, 113-117.	9.4	93
133	No effects without causes: the Iron Dysregulation and Dormant Microbes hypothesis for chronic, inflammatory diseases. <i>Biological Reviews</i> , 2018, 93, 1518-1557.	4.7	92
134	Rapid identification using pyrolysis mass spectrometry and artificial neural networks of <i>Propionibacterium acnes</i> isolated from dogs. <i>Journal of Applied Bacteriology</i> , 1994, 76, 124-134.	1.1	91
135	Schemes of flux control in a model of <i>Saccharomyces cerevisiae</i> glycolysis. <i>FEBS Journal</i> , 2002, 269, 3894-3904.	0.2	91
136	Genomic Computing. Explanatory Analysis of Plant Expression Profiling Data Using Machine Learning. <i>Plant Physiology</i> , 2001, 126, 943-951.	2.3	89
137	Adoption of the transiently non-culturable state – a bacterial survival strategy?. <i>Advances in Microbial Physiology</i> , 2003, 47, 65-129.	1.0	89
138	GMP – good modelling practice: an essential component of good manufacturing practice. <i>Trends in Biotechnology</i> , 1995, 13, 481-492.	4.9	88
139	Pheromones, social behaviour and the functions of secondary metabolism in bacteria. <i>Trends in Ecology and Evolution</i> , 1995, 10, 126-129.	4.2	87
140	On-Line, Real-Time Measurements of Cellular Biomass using Dielectric Spectroscopy. <i>Biotechnology and Genetic Engineering Reviews</i> , 2000, 17, 3-36.	2.4	87
141	Bacterial Dysbiosis and Translocation in Psoriasis Vulgaris. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 7.	1.8	86
142	Something from nothing – bridging the gap between constraint-based and kinetic modelling. <i>FEBS Journal</i> , 2007, 274, 5576-5585.	2.2	84
143	Detection and Identification of Novel Metabolomic Biomarkers in Preeclampsia. <i>Reproductive Sciences</i> , 2008, 15, 591-597.	1.1	84
144	Eryptosis as a marker of Parkinson's disease. <i>Aging</i> , 2014, 6, 788-819.	1.4	84

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145	A "rule of 0.5"™ for the metabolite-likeness of approved pharmaceutical drugs. <i>Metabolomics</i> , 2015, 11, 323-339.	1.4	84
146	Mosaic protonic coupling hypothesis for free energy transduction. <i>FEBS Letters</i> , 1984, 165, 1-5.	1.3	83
147	Neural networks and olive oil. <i>Nature</i> , 1992, 359, 594-594.	13.7	83
148	Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction. <i>Analytica Chimica Acta</i> , 1997, 348, 273-282.	2.6	82
149	On the nonlinear dielectric properties of biological systems. <i>Bioelectrochemistry</i> , 1990, 24, 83-100.	1.0	81
150	Noninvasive, On-Line Monitoring of the Biotransformation by Yeast of Glucose to Ethanol Using Dispersive Raman Spectroscopy and Chemometrics. <i>Applied Spectroscopy</i> , 1999, 53, 1419-1428.	1.2	81
151	Implications of the Dominant Role of Transporters in Drug Uptake by Cells (Supplementary Material). <i>Current Topics in Medicinal Chemistry</i> , 2009, 9, 163-181.	1.0	81
152	Monitoring of complex industrial bioprocesses for metabolite concentrations using modern spectroscopies and machine learning: Application to gibberellic acid production. <i>Biotechnology and Bioengineering</i> , 2002, 78, 527-538.	1.7	79
153	On the optimization of classes for the assignment of unidentified reading frames in functional genomics programmes: the need for machine learning. <i>Trends in Biotechnology</i> , 2000, 18, 93-98.	4.9	78
154	Changes in the Metabolic Footprint of Placental Explant-Conditioned Culture Medium Identifies Metabolic Disturbances Related to Hypoxia and Pre-Eclampsia. <i>Placenta</i> , 2009, 30, 974-980.	0.7	76
155	Parkinson's Disease: A Systemic Inflammatory Disease Accompanied by Bacterial Inflammagens. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 210.	1.7	76
156	Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods. <i>Analytica Chimica Acta</i> , 1997, 348, 389-407.	2.6	75
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