

Douglas Kell

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.

571
papers

40,960
citations

100
h-index

183
g-index

625
ext. papers

45,792
ext. citations

7.9
avg, IF

7.68
L-index

#	Paper	IF	Citations
571	The Role of Lipopolysaccharide-Induced Cell Signalling in Chronic Inflammation.. <i>Chronic Stress</i> , 2022 , 6, 24705470221076390	3	7
570	A central role for amyloid fibrin microclots in long COVID/PASC: origins and therapeutic implications.. <i>Biochemical Journal</i> , 2022 , 479, 537-559	3.8	8
569	Membrane transporter identification and modulation via adaptive laboratory evolution. <i>Metabolic Engineering</i> , 2022 , 72, 376-390	9.7	0
568	SpeedyGenesXL: an Automated, High-Throughput Platform for the Preparation of Bespoke Ultralarge Variant Libraries for Directed Evolution. <i>Methods in Molecular Biology</i> , 2022 , 67-83	1.4	
567	Untargeted metabolomics of COVID-19 patient serum reveals potential prognostic markers of both severity and outcome.. <i>Metabolomics</i> , 2021 , 18, 6	4.7	18
566	MassGenie: A Transformer-Based Deep Learning Method for Identifying Small Molecules from Their Mass Spectra.. <i>Biomolecules</i> , 2021 , 11,	5.9	3
565	TEG, Microclot and Platelet Mapping for Guiding Early Management of Severe COVID-19 Coagulopathy. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	3
564	Intelligent host engineering for metabolic flux optimisation in biotechnology. <i>Biochemical Journal</i> , 2021 , 478, 3685-3721	3.8	3
563	FragNet, a Contrastive Learning-Based Transformer Model for Clustering, Interpreting, Visualizing, and Navigating Chemical Space. <i>Molecules</i> , 2021 , 26,	4.8	5
562	Harnessing the yeast <i>Saccharomyces cerevisiae</i> for the production of fungal secondary metabolites. <i>Essays in Biochemistry</i> , 2021 , 65, 277-291	7.6	4
561	A protet-based, protonic charge transfer model of energy coupling in oxidative and photosynthetic phosphorylation. <i>Advances in Microbial Physiology</i> , 2021 , 78, 1-177	4.4	5
560	A palette of fluorophores that are differentially accumulated by wild-type and mutant strains of : surrogate ligands for profiling bacterial membrane transporters. <i>Microbiology (United Kingdom)</i> , 2021 , 167,	2.9	9
559	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	8.7	35
558	An Overview of Cell-Based Assay Platforms for the Solute Carrier Family of Transporters. <i>Frontiers in Pharmacology</i> , 2021 , 12, 722889	5.6	7
557	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,	4.1	18
556	Membrane Transporters Involved in the Antimicrobial Activities of Pyrithione in. <i>Molecules</i> , 2021 , 26,	4.8	1
555	The Transporter-Mediated Cellular Uptake and Efflux of Pharmaceutical Drugs and Biotechnology Products: How and Why Phospholipid Bilayer Transport Is Negligible in Real Biomembranes. <i>Molecules</i> , 2021 , 26,	4.8	2

554	Spectral artefacts induced by moving targets in live hyperspectral stimulated Raman spectroscopy: The case of lipid droplets in yeast cells. <i>Clinical Spectroscopy</i> , 2021 , 3, 100014	16	0
553	Erythrocyte, Platelet, Serum Ferritin, and P-Selectin Pathophysiology Implicated in Severe Hypercoagulation and Vascular Complications in COVID-19. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	29
552	The Biology of Lactoferrin, an Iron-Binding Protein That Can Help Defend Against Viruses and Bacteria. <i>Frontiers in Immunology</i> , 2020 , 11, 1221	8.4	105
551	Hitchhiking into the cell. <i>Nature Chemical Biology</i> , 2020 , 16, 367-368	11.7	7
550	Is Porphyromonas gingivalis involved in Parkinson's disease?. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020 , 39, 2013-2018	5.3	10
549	SBML Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020 , 16, e9110	12.2	65
548	Iron Dysregulation and Inflammagens Related to Oral and Gut Health Are Central to the Development of Parkinson's Disease. <i>Biomolecules</i> , 2020 , 11,	5.9	7
547	The biology of ergothioneine, an antioxidant nutraceutical. <i>Nutrition Research Reviews</i> , 2020 , 33, 190-217		54
546	The RESOLUTE consortium: unlocking SLC transporters for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2020 , 19, 429-430	64.1	28
545	Deep learning and generative methods in cheminformatics and chemical biology: navigating small molecule space intelligently. <i>Biochemical Journal</i> , 2020 , 477, 4559-4580	3.8	16
544	L-(+)-Ergothioneine Significantly Improves the Clinical Characteristics of Preeclampsia in the Reduced Uterine Perfusion Pressure Rat Model. <i>Hypertension</i> , 2020 , 75, 561-568	8.5	30
543	An untargeted metabolomics strategy to measure differences in metabolite uptake and excretion by mammalian cell lines. <i>Metabolomics</i> , 2020 , 16, 107	4.7	12
542	Automating Cloning by Natural Transformation. <i>ACS Synthetic Biology</i> , 2020 , 9, 3228-3235	5.7	7
541	Prevalence of readily detected amyloid blood clots in 'unclotted' Type 2 Diabetes Mellitus and COVID-19 plasma: a preliminary report. <i>Cardiovascular Diabetology</i> , 2020 , 19, 193	8.7	12
540	Structural Similarities between Some Common Fluorophores Used in Biology, Marketed Drugs, Endogenous Metabolites, and Natural Products. <i>Marine Drugs</i> , 2020 , 18,	6	7
539	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,	6.3	70
538	Gingipain R1 and Lipopolysaccharide From Have Major Effects on Blood Clot Morphology and Mechanics. <i>Frontiers in Immunology</i> , 2020 , 11, 1551	8.4	4
537	A Quantitative Survey of Bacterial Persistence in the Presence of Antibiotics: Towards Antipersister Antimicrobial Discovery. <i>Antibiotics</i> , 2020 , 9,	4.9	10

536	VAE-Sim: A Novel Molecular Similarity Measure Based on a Variational Autoencoder. <i>Molecules</i> , 2020 , 25,	4.8	15
535	DeepGraphMolGen, a multi-objective, computational strategy for generating molecules with desirable properties: a graph convolution and reinforcement learning approach. <i>Journal of Cheminformatics</i> , 2020 , 12, 53	8.6	18
534	Detection of Citrullinated Fibrin in Plasma Clots of Rheumatoid Arthritis Patients and Its Relation to Altered Structural Clot Properties, Disease-Related Inflammation and Prothrombotic Tendency. <i>Frontiers in Immunology</i> , 2020 , 11, 577523	8.4	5
533	Effect of L-Ergothioneine on the metabolic plasma profile of the RUPP rat model of pre-eclampsia. <i>PLoS ONE</i> , 2020 , 15, e0230977	3.7	7
532	Involvement of multiple influx and efflux transporters in the accumulation of cationic fluorescent dyes by <i>Escherichia coli</i> . <i>BMC Microbiology</i> , 2019 , 19, 195	4.5	22
531	A top priority in pre-eclampsia research: development of a reliable and inexpensive urinary screening test. <i>The Lancet Global Health</i> , 2019 , 7, e1312-e1313	13.6	6
530	Engineering the Yeast for the Production of L-(+)-Ergothioneine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 262	5.8	14
529	GeneORator: An Effective Strategy for Navigating Protein Sequence Space More Efficiently through Boolean OR-Type DNA Libraries. <i>ACS Synthetic Biology</i> , 2019 , 8, 1371-1378	5.7	15
528	Serum amyloid A binds to fibrin(ogen), promoting fibrin amyloid formation. <i>Scientific Reports</i> , 2019 , 9, 3102	4.9	37
527	Bacterial Dysbiosis and Translocation in Psoriasis Vulgaris. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019 , 9, 7	5.9	47
526	Parkinson's Disease: A Systemic Inflammatory Disease Accompanied by Bacterial Inflammagens. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 210	5.3	41
525	A brain-permeable inhibitor of the neurodegenerative disease target kynurenine 3-monooxygenase prevents accumulation of neurotoxic metabolites. <i>Communications Biology</i> , 2019 , 2, 271	6.7	27
524	Generation of a Small Library of Natural Products Designed to Cover Chemical Space Inexpensively 2019 , 1, e190005		3
523	Very rapid flow cytometric assessment of antimicrobial susceptibility during the apparent lag phase of microbial (re)growth. <i>Microbiology (United Kingdom)</i> , 2019 , 165, 439-454	2.9	9
522	A Possible Role of Amyloidogenic Blood Clotting in the Evolving Haemodynamics of Female Migraine-With-Aura: Results From a Pilot Study. <i>Frontiers in Neurology</i> , 2019 , 10, 1262	4.1	7
521	The role and robustness of the Gini coefficient as an unbiased tool for the selection of Gini genes for normalising expression profiling data. <i>Scientific Reports</i> , 2019 , 9, 17960	4.9	15
520	PartsGenie: an integrated tool for optimizing and sharing synthetic biology parts. <i>Bioinformatics</i> , 2018 , 34, 2327-2329	7.2	16
519	No effects without causes: the Iron Dysregulation and Dormant Microbes hypothesis for chronic, inflammatory diseases. <i>Biological Reviews</i> , 2018 , 93, 1518-1557	13.5	52

518	GeneGini: Assessment via the Gini Coefficient of Reference "Housekeeping" Genes and Diverse Human Transporter Expression Profiles. <i>Cell Systems</i> , 2018 , 6, 230-244.e1	10.6	40
517	Selenzyme: enzyme selection tool for pathway design. <i>Bioinformatics</i> , 2018 , 34, 2153-2154	7.2	41
516	Engineering the "Missing Link" in Biosynthetic (-)-Menthol Production: Bacterial Isopulegone Isomerase. <i>ACS Catalysis</i> , 2018 , 8, 2012-2020	13.1	14
515	The potential therapeutic effects of ergothioneine in pre-eclampsia. <i>Free Radical Biology and Medicine</i> , 2018 , 117, 145-157	7.8	31
514	Energetic evolution of cellular Transportomes. <i>BMC Genomics</i> , 2018 , 19, 418	4.5	14
513	Fast and Flexible Synthesis of Combinatorial Libraries for Directed Evolution. <i>Methods in Enzymology</i> , 2018 , 608, 59-79	1.7	8
512	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018 , 1, 66	6.7	97
511	Lipopolysaccharide-binding protein (LBP) can reverse the amyloid state of fibrin seen or induced in Parkinson's disease. <i>PLoS ONE</i> , 2018 , 13, e0192121	3.7	22
510	Analysing and Navigating Natural Products Space for Generating Small, Diverse, But Representative Chemical Libraries. <i>Biotechnology Journal</i> , 2018 , 13, 1700503	5.6	18
509	To What Extent Are the Terminal Stages of Sepsis, Septic Shock, Systemic Inflammatory Response Syndrome, and Multiple Organ Dysfunction Syndrome Actually Driven by a Prion/Amyloid Form of Fibrin?. <i>Seminars in Thrombosis and Hemostasis</i> , 2018 , 44, 224-238	5.3	37
508	Both lipopolysaccharide and lipoteichoic acids potently induce anomalous fibrin amyloid formation: assessment with novel Amytracker [®] stains. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	28
507	Correlative Light-Electron Microscopy detects lipopolysaccharide and its association with fibrin fibres in Parkinson's Disease, Alzheimer's Disease and Type 2 Diabetes Mellitus. <i>Scientific Reports</i> , 2018 , 8, 16798	4.9	24
506	Iron Dysregulation and Dormant Microbes as Causative Agents for Impaired Blood Rheology and Pathological Clotting in Alzheimer's Type Dementia. <i>Frontiers in Neuroscience</i> , 2018 , 12, 851	5.1	15
505	The Potential of LPS-Binding Protein to Reverse Amyloid Formation in Plasma Fibrin of Individuals With Alzheimer-Type Dementia. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 257	5.3	21
504	Ultra-high throughput functional enrichment of large monoamine oxidase (MAO-N) libraries by fluorescence activated cell sorting. <i>Analyst, The</i> , 2018 , 143, 4747-4755	5	14
503	Computing exponentially faster: implementing a non-deterministic universal Turing machine using DNA. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	23
502	Mass spectrometry imaging shows major derangements in neurogranin and in purine metabolism in the triple-knockout 3Tg Alzheimer mouse model. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 747-754	4	20
501	Analysis of drug-endogenous human metabolite similarities in terms of their maximum common substructures. <i>Journal of Cheminformatics</i> , 2017 , 9, 18	8.6	19

500	biochem4j: Integrated and extensible biochemical knowledge through graph databases. <i>PLoS ONE</i> , 2017 , 12, e0179130	3.7	18
499	Substantial fibrin amyloidogenesis in type 2 diabetes assessed using amyloid-selective fluorescent stains. <i>Cardiovascular Diabetology</i> , 2017 , 16, 141	8.7	29
498	Consensus rank orderings of molecular fingerprints illustrate the most genuine similarities between marketed drugs and small endogenous human metabolites, but highlight exogenous natural products as the most important natural drug transporter substrates. <i>ADMET and DMPK</i> , 2017 , 5, 85	1.3	28
497	Immunological Tolerance, Pregnancy, and Preeclampsia: The Roles of Semen Microbes and the Father. <i>Frontiers in Medicine</i> , 2017 , 4, 239	4.9	31
496	Lipopolysaccharide-binding protein (LBP) reverses the amyloid state of fibrin seen in plasma of type 2 diabetics with cardiovascular co-morbidities. <i>Scientific Reports</i> , 2017 , 7, 9680	4.9	24
495	Stability in metabolic phenotypes and inferred metagenome profiles before the onset of colitis-induced inflammation. <i>Scientific Reports</i> , 2017 , 7, 8836	4.9	9
494	Proteins behaving badly. Substoichiometric molecular control and amplification of the initiation and nature of amyloid fibril formation: lessons from and for blood clotting. <i>Progress in Biophysics and Molecular Biology</i> , 2017 , 123, 16-41	4.7	45
493	SpeedyGenes: Exploiting an Improved Gene Synthesis Method for the Efficient Production of Synthetic Protein Libraries for Directed Evolution. <i>Methods in Molecular Biology</i> , 2017 , 1472, 63-78	1.4	12
492	Major involvement of bacterial components in rheumatoid arthritis and its accompanying oxidative stress, systemic inflammation and hypercoagulability. <i>Experimental Biology and Medicine</i> , 2017 , 242, 355-373	3.7	52
491	Enhancing Drug Efficacy and Therapeutic Index through Cheminformatics-Based Selection of Small Molecule Binary Weapons That Improve Transporter-Mediated Targeting: A Cytotoxicity System Based on Gemcitabine. <i>Frontiers in Pharmacology</i> , 2017 , 8, 155	5.6	14
490	Recon 2.2: from reconstruction to model of human metabolism. <i>Metabolomics</i> , 2016 , 12, 109	4.7	184
489	Microbes and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 979-84	4.3	320
488	Implications of endogenous roles of transporters for drug discovery: hitchhiking and metabolite-likeness. <i>Nature Reviews Drug Discovery</i> , 2016 , 15, 143	64.1	23
487	How drugs pass through biological cell membranes – a paradigm shift in our understanding? 2016 ,		9
486	A Dormant Microbial Component in the Development of Preeclampsia. <i>Frontiers in Medicine</i> , 2016 , 3, 60	4.9	48
485	MetMaxStruct: A Tversky-Similarity-Based Strategy for Analysing the (Sub)Structural Similarities of Drugs and Endogenous Metabolites. <i>Frontiers in Pharmacology</i> , 2016 , 7, 266	5.6	24
484	A Bacterial Component to Alzheimer's-Type Dementia Seen via a Systems Biology Approach that Links Iron Dysregulation and Inflammagen Shedding to Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 53, 1237-56	4.3	47
483	Response to 'The Need for Speed', by Matsson et al. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 245-246	3.2	2

482	Acute induction of anomalous and amyloidogenic blood clotting by molecular amplification of highly substoichiometric levels of bacterial lipopolysaccharide. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	51
481	SYNBIOCHEM-a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016 , 44, 675-7	5.1	5
480	The metabolome 18 years on: a concept comes of age. <i>Metabolomics</i> , 2016 , 12, 148	4.7	65
479	Event-based text mining for biology and functional genomics. <i>Briefings in Functional Genomics</i> , 2015 , 14, 213-30	4.9	35
478	The dormant blood microbiome in chronic, inflammatory diseases. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 567-91	15.1	236
477	Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , 2015 , 11, 9-26	4.7	167
476	Poorly controlled type 2 diabetes is accompanied by significant morphological and ultrastructural changes in both erythrocytes and in thrombin-generated fibrin: implications for diagnostics. <i>Cardiovascular Diabetology</i> , 2015 , 14, 30	8.7	53
475	Membrane transporter engineering in industrial biotechnology and whole cell biocatalysis. <i>Trends in Biotechnology</i> , 2015 , 33, 237-46	15.1	136
474	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, 1339-77	3.7	98
473	The simultaneous occurrence of both hypercoagulability and hypofibrinolysis in blood and serum during systemic inflammation, and the roles of iron and fibrin(ogen). <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 24-52	3.7	57
472	Software review: the KNIME workflow environment and its applications in genetic programming and machine learning. <i>Genetic Programming and Evolvable Machines</i> , 2015 , 16, 387-391	2	28
471	The transporter-mediated cellular uptake of pharmaceutical drugs is based on their metabolite-likeness and not on their bulk biophysical properties: Towards a systems pharmacology. <i>Perspectives in Science</i> , 2015 , 6, 66-83	0.8	17
470	The apparent permeabilities of Caco-2 cells to marketed drugs: magnitude, and independence from both biophysical properties and endogenite similarities. <i>PeerJ</i> , 2015 , 3, e1405	3.1	31
469	Understanding the foundations of the structural similarities between marketed drugs and endogenous human metabolites. <i>Frontiers in Pharmacology</i> , 2015 , 6, 105	5.6	26
468	Fitting Transporter Activities to Cellular Drug Concentrations and Fluxes: Why the Bumblebee Can Fly. <i>Trends in Pharmacological Sciences</i> , 2015 , 36, 710-723	13.2	22
467	The virtue of innovation: innovation through the lenses of biological evolution. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	13
466	A 'rule of 0.5' for the metabolite-likeness of approved pharmaceutical drugs. <i>Metabolomics</i> , 2015 , 11, 323-339	4.7	60
465	What would be the observable consequences if phospholipid bilayer diffusion of drugs into cells is negligible?. <i>Trends in Pharmacological Sciences</i> , 2015 , 36, 15-21	13.2	42

464	Synthetic biology for the directed evolution of protein biocatalysts: navigating sequence space intelligently. <i>Chemical Society Reviews</i> , 2015 , 44, 1172-239	58.5	267
463	Individuality, phenotypic differentiation, dormancy and 'persistence' in culturable bacterial systems: commonalities shared by environmental, laboratory, and clinical microbiology. <i>F1000Research</i> , 2015 , 4, 179	3.6	41
462	Individuality, phenotypic differentiation, dormancy and persistence in culturable bacterial systems: commonalities shared by environmental, laboratory, and clinical microbiology. <i>F1000Research</i> , 2015 , 4, 179	3.6	42
461	Viscoelastic and ultrastructural characteristics of whole blood and plasma in Alzheimer-type dementia, and the possible role of bacterial lipopolysaccharides (LPS). <i>Oncotarget</i> , 2015 , 6, 35284-303	3.3	57
460	Serum ferritin is an important inflammatory disease marker, as it is mainly a leakage product from damaged cells. <i>Metallomics</i> , 2014 , 6, 748-73	4.5	308
459	Diagnostic morphology: biophysical indicators for iron-driven inflammatory diseases. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 486-510	3.7	102
458	Yeast cells with impaired drug resistance accumulate glycerol and glucose. <i>Molecular BioSystems</i> , 2014 , 10, 93-102		11
457	Eryptosis as a marker of Parkinson's disease. <i>Aging</i> , 2014 , 6, 788-819	5.6	66
456	Profound morphological changes in the erythrocytes and fibrin networks of patients with hemochromatosis or with hyperferritinemia, and their normalization by iron chelators and other agents. <i>PLoS ONE</i> , 2014 , 9, e85271	3.7	54
455	SpeedyGenes: an improved gene synthesis method for the efficient production of error-corrected, synthetic protein libraries for directed evolution. <i>Protein Engineering, Design and Selection</i> , 2014 , 27, 273-80	1.9	35
454	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	5.6	114
453	Mental health: Drug search on risky path. <i>Nature</i> , 2014 , 508, 458	50.4	
452	GeneGenie: optimized oligomer design for directed evolution. <i>Nucleic Acids Research</i> , 2014 , 42, W395-400	10.1	27
451	Metabolomics and systems pharmacology: why and how to model the human metabolic network for drug discovery. <i>Drug Discovery Today</i> , 2014 , 19, 171-82	8.8	122
450	Evidence that multiple defects in lipid regulation occur before hyperglycemia during the prodrome of type-2 diabetes. <i>PLoS ONE</i> , 2014 , 9, e103217	3.7	28
449	A novel method for assessing the role of iron and its functional chelation in fibrin fibril formation: the use of scanning electron microscopy. <i>Toxicology Mechanisms and Methods</i> , 2013 , 23, 352-9	3.6	50
448	An analysis of a 'community-driven' reconstruction of the human metabolic network. <i>Metabolomics</i> , 2013 , 9, 757-764	4.7	30
447	Path2Models: large-scale generation of computational models from biochemical pathway maps. <i>BMC Systems Biology</i> , 2013 , 7, 116	3.5	122

446	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, 218-39	8.8	120
445	A model of yeast glycolysis based on a consistent kinetic characterisation of all its enzymes. <i>FEBS Letters</i> , 2013 , 587, 2832-41	3.8	91
444	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, 5957-80	5.7	84
443	A community-driven global reconstruction of human metabolism. <i>Nature Biotechnology</i> , 2013 , 31, 419-25	44.5	746
442	Genetics and iron in the systems biology of Parkinson's disease and some related disorders. <i>Neurochemistry International</i> , 2013 , 62, 637-52	4.4	53
441	A method for integrating and ranking the evidence for biochemical pathways by mining reactions from text. <i>Bioinformatics</i> , 2013 , 29, i44-52	7.2	27
440	High ferritin levels have major effects on the morphology of erythrocytes in Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 88	5.3	42
439	A systematic survey of the response of a model NF- κ B signalling pathway to TNF β stimulation. <i>Journal of Theoretical Biology</i> , 2012 , 297, 137-47	2.3	21
438	Genome-wide analysis of longevity in nutrient-deprived <i>Saccharomyces cerevisiae</i> reveals importance of recycling in maintaining cell viability. <i>Environmental Microbiology</i> , 2012 , 14, 1249-60	5.2	16
437	Scientific discovery as a combinatorial optimisation problem: how best to navigate the landscape of possible experiments?. <i>BioEssays</i> , 2012 , 34, 236-44	4.1	34
436	Extracting semantically enriched events from biomedical literature. <i>BMC Bioinformatics</i> , 2012 , 13, 108	3.6	39
435	The genetic control of growth rate: a systems biology study in yeast. <i>BMC Systems Biology</i> , 2012 , 6, 4	3.5	39
434	Improving metabolic flux predictions using absolute gene expression data. <i>BMC Systems Biology</i> , 2012 , 6, 73	3.5	107
433	Short- and long-term dynamic responses of the metabolic network and gene expression in yeast to a transient change in the nutrient environment. <i>Molecular BioSystems</i> , 2012 , 8, 1760-74		6
432	The metabolome of human placental tissue: investigation of first trimester tissue and changes related to preeclampsia in late pregnancy. <i>Metabolomics</i> , 2012 , 8, 579-597	4.7	46
431	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 1589-97	5.8	165
430	Publishing: Reviews turn facts into understanding. <i>Nature</i> , 2012 , 490, 37	50.4	3
429	Exploiting genomic knowledge in optimising molecular breeding programmes: algorithms from evolutionary computing. <i>PLoS ONE</i> , 2012 , 7, e48862	3.7	12

428	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, 1060-83	18.8	1527
427	The SuBLiMinaL Toolbox: automating steps in the reconstruction of metabolic networks. <i>Journal of Integrative Bioinformatics</i> , 2011 , 8, 187-203	3.8	55
426	Genome-wide assessment of the carriers involved in the cellular uptake of drugs: a model system in yeast. <i>BMC Biology</i> , 2011 , 9, 70	7.3	54
425	Pharmaceutical drug transport: the issues and the implications that it is essentially carrier-mediated only. <i>Drug Discovery Today</i> , 2011 , 16, 704-14	8.8	145
424	Metabolic profiling uncovers a phenotypic signature of small for gestational age in early pregnancy. <i>Journal of Proteome Research</i> , 2011 , 10, 3660-73	5.6	85
423	Mining metabolites: extracting the yeast metabolome from the literature. <i>Metabolomics</i> , 2011 , 7, 94-104	4.7	33
422	Interactions among oscillatory pathways in NF-kappa B signaling. <i>BMC Systems Biology</i> , 2011 , 5, 23	3.5	26
421	Predicting the points of interaction of small molecules in the NF- κ B pathway. <i>BMC Systems Biology</i> , 2011 , 5, 32	3.5	
420	Automated workflows for accurate mass-based putative metabolite identification in LC/MS-derived metabolomic datasets. <i>Bioinformatics</i> , 2011 , 27, 1108-12	7.2	156
419	Absolute quantification of the glycolytic pathway in yeast: deployment of a complete QconCAT approach. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M111.007633	7.6	61
418	Breeding crop plants with deep roots: their role in sustainable carbon, nutrient and water sequestration. <i>Annals of Botany</i> , 2011 , 108, 407-18	4.1	233
417	Controlled vocabularies and semantics in systems biology. <i>Molecular Systems Biology</i> , 2011 , 7, 543	12.2	195
416	Efficient discovery of anti-inflammatory small-molecule combinations using evolutionary computing. <i>Nature Chemical Biology</i> , 2011 , 7, 902-8	11.7	52
415	The SuBLiMinaL Toolbox: automating steps in the reconstruction of metabolic networks. <i>Journal of Integrative Bioinformatics</i> , 2011 , 8, 186	3.8	49
414	Defrosting the Digital Library 2011 , 13-51		2
413	Enzyme kinetics informatics: from instrument to browser. <i>FEBS Journal</i> , 2010 , 277, 3769-79	5.7	17
412	BAS/BSCR3 Partial reconstruction of myocardial metabolic pathways following analysis of peripheral serum using metabolomics in early cardiac ischaemia. <i>Heart</i> , 2010 , 96, e13-e13	5.1	1
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22	The role and robustness of the Gini coefficient as an unbiased tool for the selection of Gini genes for normalising expression profiling data		2
21	Structural similarities between some common fluorophores used in biology and marketed drugs, endogenous metabolites, and natural products		3
20	An untargeted metabolomics strategy to measure differences in metabolite uptake and excretion by mammalian cell lines		1
19	Characterisation of intact microorganisms using electrospray ionisation mass spectrometry		4
18	Acute induction of anomalous blood clotting by molecular amplification of highly substoichiometric levels of bacterial lipopolysaccharide (LPS)		8
17	Substoichiometric molecular control and amplification of the initiation and nature of amyloid fibril formation: lessons from and for blood clotting		5
16	A Dormant Microbial Component in the Development of Pre-Eclampsia1		4
15	To what extent are the terminal stages of sepsis, septic shock, SIRS, and multiple organ dysfunction syndrome actually driven by a prion/amyloid form of fibrin?		5

14	Consensus rank orderings of molecular fingerprints illustrate the most genuine similarities between marketed drugs and small endogenous human metabolites, but highlight exogenous natural products as the most important natural drug transporter substrates	1
13	Lipopolysaccharide-binding protein (LBP) can reverse the amyloid state of fibrin seen or induced in Parkinson disease: implications for its aetiology	1
12	Both lipopolysaccharide and lipoteichoic acids potentially induce anomalous fibrin amyloid formation: assessment with novel Amytracker stains	5
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