

Hermann-Georg Holzhausen

List of Publications by Year in descending order

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127
papers

6,200
citations

81900

39
h-index

76900

74
g-index

132
all docs

132
docs citations

132
times ranked

8712
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. Archives of Toxicology, 2013, 87, 1315-1530.	4.2	1,089
2	Identifying MHC Class I Epitopes by Predicting the TAP Transport Efficiency of Epitope Precursors. Journal of Immunology, 2003, 171, 1741-1749.	0.8	290
3	The principle of flux minimization and its application to estimate stationary fluxes in metabolic networks. FEBS Journal, 2004, 271, 2905-2922.	0.2	265
4	Finding one's way in proteomics: a protein species nomenclature. Chemistry Central Journal, 2009, 3, 11.	2.6	229
5	Quantifying the Contribution of the Liver to Glucose Homeostasis: A Detailed Kinetic Model of Human Hepatic Glucose Metabolism. PLoS Computational Biology, 2012, 8, e1002577.	3.2	166
6	How an Inhibitor of the HIV-1 Protease Modulates Proteasome Activity. Journal of Biological Chemistry, 1999, 274, 35734-35740.	3.4	138
7	Molecular dioxygen enters the active site of 12/15-lipoxygenase via dynamic oxygen access channels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13319-13324.	7.1	134
8	Mathematical analysis of enzymic reaction systems using optimization principles. FEBS Journal, 1991, 201, 1-21.	0.2	128
9	A theoretical approach towards the identification of cleavage-determining amino acid motifs of the 20s proteasome 1 Edited by R. Huber. Journal of Molecular Biology, 1999, 286, 1251-1265.	4.2	128
10	Identification of HLA-B27-Restricted Peptides from the <i>Chlamydia trachomatis</i> Proteome with Possible Relevance to HLA-B27-Associated Diseases. Journal of Immunology, 2001, 167, 4738-4746.	0.8	125
11	Including metabolite concentrations into flux balance analysis: thermodynamic realizability as a constraint on flux distributions in metabolic networks. BMC Systems Biology, 2007, 1, 23.	3.0	124
12	Structural biology of mammalian lipoxygenases: Enzymatic consequences of targeted alterations of the protein structure. Biochemical and Biophysical Research Communications, 2005, 338, 93-101.	2.1	113
13	A kinetic model for lipoxygenases based on experimental data with the lipoxygenase of reticulocytes. FEBS Journal, 1987, 168, 325-337.	0.2	103
14	Antimalarial drug targets in Plasmodium falciparum predicted by stage-specific metabolic network analysis. BMC Systems Biology, 2010, 4, 120.	3.0	101
15	Prediction of temporal gene expression. FEBS Journal, 2002, 269, 5406-5413.	0.2	98
16	The stability and robustness of metabolic states: identifying stabilizing sites in metabolic networks. Molecular Systems Biology, 2007, 3, 146.	7.2	97
17	The virtual liver: a multidisciplinary, multilevel challenge for systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 221-235.	6.6	93
18	Use of Mathematical Models for Predicting the Metabolic Effect of Large-Scale Enzyme Activity Alterations. Application to Enzyme Deficiencies of Red Blood Cells. FEBS Journal, 1995, 229, 403-418.	0.2	86

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19	Rapid Flip-Flop of Phospholipids in Endoplasmic Reticulum Membranes Studied by a Stopped-Flow Approach. <i>Biophysical Journal</i> , 2000, 78, 2628-2640.	0.5	85
20	Evidence for the Existence of a Non-catalytic Modifier Site of Peptide Hydrolysis by the 20 S Proteasome. <i>Journal of Biological Chemistry</i> , 2000, 275, 22056-22063.	3.4	84
21	A Kinetic Model of Vertebrate 20S Proteasome Accounting for the Generation of Major Proteolytic Fragments from Oligomeric Peptide Substrates. <i>Biophysical Journal</i> , 2000, 79, 1196-1205.	0.5	75
22	Kinetic evidences for facilitation of peptide channelling by the proteasome activator PA28. <i>FEBS Journal</i> , 2000, 267, 6221-6230.	0.2	67
23	Mathematical modelling of metabolic pathways affected by an enzyme deficiency. A mathematical model of glycolysis in normal and pyruvate-kinase-deficient red blood cells. <i>FEBS Journal</i> , 1985, 149, 101-111.	0.2	65
24	Polyubiquitin substrates allosterically activate their own degradation by the 26S proteasome. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 219-225.	8.2	64
25	Oxygen Consumption Rates during Three Different Neuronal Activity States in the Hippocampal CA3 Network. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 263-271.	4.3	63
26	Characterization of Lipid and Lipid Droplet Metabolism in Human HCC. <i>Cells</i> , 2019, 8, 512.	4.1	60
27	CardioNet: A human metabolic network suited for the study of cardiomyocyte metabolism. <i>BMC Systems Biology</i> , 2012, 6, 114.	3.0	58
28	Enzymatic features of the glucose metabolism in tumor cells. <i>FEBS Journal</i> , 2011, 278, 2436-2459.	4.7	56
29	FASIMU: flexible software for flux-balance computation series in large metabolic networks. <i>BMC Bioinformatics</i> , 2011, 12, 28.	2.6	55
30	Genetic determinants of steatosis and fibrosis progression in paediatric non-alcoholic fatty liver disease. <i>Liver International</i> , 2019, 39, 540-556.	3.9	54
31	Pathobiochemical signatures of cholestatic liver disease in bile duct ligated mice. <i>BMC Systems Biology</i> , 2015, 9, 83.	3.0	51
32	Interrelations between glycolysis and the hexose monophosphate shunt in erythrocytes as studied on the basis of a mathematical model. <i>BioSystems</i> , 1988, 22, 19-36.	2.0	50
33	CySBML: a Cytoscape plugin for SBML. <i>Bioinformatics</i> , 2012, 28, 2402-2403.	4.1	49
34	Regulation of Liver Metabolism by the Endosomal GTPase Rab5. <i>Cell Reports</i> , 2015, 11, 884-892.	6.4	47
35	Recommendations for the Application of Biostatistical Methods during the Development and Validation of Alternative Toxicological Methods. <i>ATLA Alternatives To Laboratory Animals</i> , 1996, 24, 511-530.	1.0	46
36	In Vitro Phototoxicity Testing: Development and Validation of a New Concentration Response Analysis Software and Biostatistical Analyses Related to the Use of Various Prediction Models. <i>ATLA Alternatives To Laboratory Animals</i> , 2002, 30, 415-432.	1.0	45

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37	Crystal structure and functional characterization of selenocysteine-containing glutathione peroxidase 4 suggests an alternative mechanism of peroxide reduction. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1095-1107.	2.4	45
38	HEPATOKIN1 is a biochemistry-based model of liver metabolism for applications in medicine and pharmacology. <i>Nature Communications</i> , 2018, 9, 2386.	12.8	44
39	Assessment of Proteasomal Cleavage Probabilities from Kinetic Analysis of Time-dependent Product Formation. <i>Journal of Molecular Biology</i> , 2002, 318, 847-862.	4.2	43
40	Targeting pathogen metabolism without collateral damage to the host. <i>Scientific Reports</i> , 2017, 7, 40406.	3.3	42
41	The virtual liver: state of the art and future perspectives. <i>Archives of Toxicology</i> , 2014, 88, 2071-2075.	4.2	41
42	A Kinetic Model for the Interaction of Nitric Oxide with a Mammalian Lipoxygenase. <i>FEBS Journal</i> , 1997, 245, 608-616.	0.2	40
43	Characterizing the N-Terminal Processing Motif of MHC Class I Ligands. <i>Journal of Immunology</i> , 2008, 180, 3210-3217.	0.8	39
44	Quantitative time-resolved analysis reveals intricate, differential regulation of standard- and immuno-proteasomes. <i>ELife</i> , 2015, 4, e07545.	6.0	39
45	Physiology-Based Kinetic Modeling of Neuronal Energy Metabolism Unravels the Molecular Basis of NAD(P)H Fluorescence Transients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1494-1506.	4.3	38
46	US Time-Harmonic Elastography: Detection of Liver Fibrosis in Adolescents with Extreme Obesity with Nonalcoholic Fatty Liver Disease. <i>Radiology</i> , 2018, 288, 99-106.	7.3	38
47	Nitric oxide oxidises a ferrous mammalian lipoxygenase to a pre-activated ferric species. <i>FEBS Letters</i> , 1996, 389, 229-232.	2.8	36
48	A General Measure of <i>In Vitro</i> Phototoxicity Derived from Pairs of Dose-Response Curves and its Use for Predicting the <i>In Vivo</i> Phototoxicity of Chemicals. <i>ATLA Alternatives To Laboratory Animals</i> , 1997, 25, 445-462.	1.0	36
49	Functional Consequences of Metabolic Zonation in Murine Livers: Insights for an Old Story. <i>Hepatology</i> , 2021, 73, 795-810.	7.3	35
50	The relative importance of kinetic mechanisms and variable enzyme abundances for the regulation of hepatic glucose metabolism – insights from mathematical modeling. <i>BMC Biology</i> , 2016, 14, 15.	3.8	34
51	Possible neurotoxicity of the anesthetic propofol: evidence for the inhibition of complex II of the respiratory chain in area CA3 of rat hippocampal slices. <i>Archives of Toxicology</i> , 2018, 92, 3191-3205.	4.2	33
52	Renal oncocyoma characterized by the defective complex I of the respiratory chain boosts the synthesis of the ROS scavenger glutathione. <i>Oncotarget</i> , 2017, 8, 105882-105904.	1.8	32
53	Dual role of oxygen during lipoxygenase reactions. <i>FEBS Journal</i> , 2005, 272, 2523-2535.	4.7	31
54	A multiscale modelling approach to assess the impact of metabolic zonation and microperfusion on the hepatic carbohydrate metabolism. <i>PLoS Computational Biology</i> , 2018, 14, e1006005.	3.2	31

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55	Stimulation of plasminogen activation by recombinant cellular prion protein is conserved in the NH2-terminal fragment PrP23-110. <i>Thrombosis and Haemostasis</i> , 2003, 89, 812-819.	3.4	30
56	Hepatitis B Virus HBx Peptide 116-138 and Proteasome Activator PA28 Compete for Binding to the Proteasome 14/MC6 Subunit. <i>Biological Chemistry</i> , 2003, 384, 39-49.	2.5	29
57	Modeling the in Vitro 20S Proteasome Activity: The Effect of PA28 and of the Sequence and Length of Polypeptides on the Degradation Kinetics. <i>Journal of Molecular Biology</i> , 2008, 377, 1607-1617.	4.2	28
58	Kinetic Modeling of the Mitochondrial Energy Metabolism of Neuronal Cells: The Impact of Reduced Ketoglutarate Dehydrogenase Activities on ATP Production and Generation of Reactive Oxygen Species. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-11.	2.5	28
59	Network-based assessment of the selectivity of metabolic drug targets in <i>Plasmodium falciparum</i> with respect to human liver metabolism. <i>BMC Systems Biology</i> , 2012, 6, 118.	3.0	28
60	Tomoelastography for the Evaluation of Pediatric Nonalcoholic Fatty Liver Disease. <i>Investigative Radiology</i> , 2019, 54, 198-203.	6.2	28
61	The generalized flux-minimization method and its application to metabolic networks affected by enzyme deficiencies. <i>BioSystems</i> , 2006, 83, 98-107.	2.0	27
62	A computational analysis of protein interactions in metabolic networks reveals novel enzyme pairs potentially involved in metabolic channeling. <i>Journal of Theoretical Biology</i> , 2008, 252, 456-464.	1.7	27
63	Computational Lipidology: Predicting Lipoprotein Density Profiles in Human Blood Plasma. <i>PLoS Computational Biology</i> , 2008, 4, e1000079.	3.2	27
64	The crystal structure of <i>Pseudomonas aeruginosa</i> lipoxygenase Ala420Gly mutant explains the improved oxygen affinity and the altered reaction specificity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 463-473.	2.4	26
65	Local oxygen homeostasis during various neuronal network activity states in the mouse hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 859-873.	4.3	26
66	Mathematical modelling of metabolic pathways affected by an enzyme deficiency. Energy and redox metabolism of glucose-6-phosphate-dehydrogenase-deficient erythrocytes. <i>FEBS Journal</i> , 1989, 182, 605-612.	0.2	25
67	A Conceptual Mathematical Model of the Dynamic Self-Organisation of Distinct Cellular Organelles. <i>PLoS ONE</i> , 2009, 4, e8295.	2.5	25
68	The Axonal Membrane Protein PRC2 Inhibits PTEN and Directs Growth to Branches. <i>Cell Reports</i> , 2019, 29, 2028-2040.e8.	6.4	25
69	Low neuronal metabolism during isoflurane-induced burst suppression is related to synaptic inhibition while neurovascular coupling and mitochondrial function remain intact. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2640-2655.	4.3	23
70	Both lysine-clusters of the NH2-terminal prion-protein fragment PrP23-110 are essential for t-PA mediated plasminogen activation. <i>Thrombosis and Haemostasis</i> , 2004, 91, 465-472.	3.4	21
71	A unifying mathematical model of lipid droplet metabolism reveals key molecular players in the development of hepatic steatosis. <i>FEBS Journal</i> , 2017, 284, 3245-3261.	4.7	21
72	Dynamic Metabolic Zonation of the Hepatic Glucose Metabolism Is Accomplished by Sinusoidal Plasma Gradients of Nutrients and Hormones. <i>Frontiers in Physiology</i> , 2018, 9, 1786.	2.8	21

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73	Kinetic Modeling of Human Hepatic Glucose Metabolism in Type 2 Diabetes Mellitus Predicts Higher Risk of Hypoglycemic Events in Rigorous Insulin Therapy. <i>Journal of Biological Chemistry</i> , 2012, 287, 36978-36989.	3.4	20
74	Implications of enzyme deficiencies on mitochondrial energy metabolism and reactive oxygen species formation of neurons involved in rotenone-induced Parkinson's disease: a model-based analysis. <i>FEBS Journal</i> , 2013, 280, 5080-5093.	4.7	19
75	Evaluation of 41 Candidate Gene Variants for Obesity in the EPIC-Potsdam Cohort by Multi-Locus Stepwise Regression. <i>PLoS ONE</i> , 2013, 8, e68941.	2.5	18
76	Infrared spectroscopic ellipsometry (IRSE) and X-ray photoelectron spectroscopy (XPS) monitoring the preparation of maleimide-functionalized surfaces: from Au towards Si (111). <i>Surface and Interface Analysis</i> , 2011, 43, 1203-1210.	1.8	16
77	Kinetic modelling of quantitative proteome data predicts metabolic reprogramming of liver cancer. <i>British Journal of Cancer</i> , 2020, 122, 233-244.	6.4	16
78	Fluxviz - Cytoscape plug-in for visualization of flux distributions in networks. <i>Genome Informatics</i> , 2010, 24, 96-103.	0.4	16
79	Computational Design of Reduced Metabolic Networks. <i>ChemBioChem</i> , 2004, 5, 1401-1422.	2.6	15
80	Quantifying the Contribution of Defective Ribosomal Products to Antigen Production: A Model-Based Computational Analysis. <i>Journal of Immunology</i> , 2005, 175, 7957-7964.	0.8	15
81	The High Energy Demand of Neuronal Cells Caused by Passive Leak Currents is Not a Waste of Energy. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 527-535.	1.8	15
82	Macrophage cholesteryl ester hydrolases and hormone-sensitive lipase prefer specifically oxidized cholesteryl esters as substrates over their non-oxidized counterparts. <i>Biochemical Journal</i> , 2000, 352, 125-133.	3.7	15
83	MATHEMATICAL MODELLING OF CELLULAR RESPONSES TO EXTERNAL SIGNALS. <i>Journal of Biological Systems</i> , 1995, 03, 127-138.	1.4	14
84	Mathematical modelling of the purine metabolism of the rat liver. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1990, 1035, 331-339.	2.4	13
85	METANNOGEN: compiling features of biochemical reactions needed for the reconstruction of metabolic networks. <i>BMC Systems Biology</i> , 2007, 1, 5.	3.0	13
86	Metabolic gradients as key regulators in zonation of tumor energy metabolism: A tissue-scale model-based study. <i>Biotechnology Journal</i> , 2013, 8, 1058-1069.	3.5	13
87	How histopathologic changes in pediatric nonalcoholic fatty liver disease influence in vivo liver stiffness. <i>Acta Biomaterialia</i> , 2021, 123, 178-186.	8.3	13
88	Dermal and inhalation acute toxic class methods: test procedures and biometric evaluations for the Globally Harmonized Classification System. <i>Archives of Toxicology</i> , 2003, 77, 243-254.	4.2	12
89	A novel variant of the 13C-methacetin liver function breath test that eliminates the confounding effect of individual differences in systemic CO2 kinetics. <i>Archives of Toxicology</i> , 2020, 94, 401-415.	4.2	12
90	Metabolic heterogeneity of human hepatocellular carcinoma: implications for personalized pharmacological treatment. <i>FEBS Journal</i> , 2021, 288, 2332-2346.	4.7	12

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91	Human T cell responses to endogenously presented HLA-A*0201 restricted peptides of simian virus 40 large T antigen. <i>Journal of Cellular Biochemistry</i> , 2001, 82, 155-162.	2.6	11
92	Multi-locus stepwise regression: a haplotype-based algorithm for finding genetic associations applied to atopic dermatitis. <i>BMC Medical Genetics</i> , 2012, 13, 8.	2.1	11
93	CARDIOKIN1: Computational Assessment of Myocardial Metabolic Capability in Healthy Controls and Patients With Valve Diseases. <i>Circulation</i> , 2021, 144, 1926-1939.	1.6	11
94	The influence of the chloride currents on action potential firing and volume regulation of excitable cells studied by a kinetic model. <i>Journal of Theoretical Biology</i> , 2011, 276, 42-49.	1.7	10
95	Modelling Proteasome and Proteasome Regulator Activities. <i>Biomolecules</i> , 2014, 4, 585-599.	4.0	10
96	In vitro proteasome processing of neo-splicetopes does not predict their presentation in vivo. <i>ELife</i> , 2021, 10, .	6.0	10
97	Composition of metabolic flux distributions by functionally interpretable minimal flux modes (MinModes). <i>Genome Informatics</i> , 2006, 17, 195-207.	0.4	10
98	Uncovering Metabolic Objectives Pursued by Changes of Enzyme Levels. <i>Annals of the New York Academy of Sciences</i> , 2009, 1158, 57-70.	3.8	9
99	A Hypothetical Model of Cargo-Selective Rab Recruitment During Organelle Maturation. <i>Cell Biochemistry and Biophysics</i> , 2012, 63, 59-71.	1.8	9
100	Assessment of Hepatic Detoxification Activity: Proposal of an Improved Variant of the 13C-Methacetin Breath Test. <i>PLoS ONE</i> , 2013, 8, e70780.	2.5	8
101	Stochastic Simulation of Hemagglutinin-Mediated Fusion Pore Formation. <i>Biophysical Journal</i> , 2001, 81, 1360-1372.	0.5	7
102	A Compartment Model to Calculate Time-dependent Concentration Profiles of Topically Applied Chemical Compounds in the Anterior Compartments of the Rabbit Eye. <i>ATLA Alternatives To Laboratory Animals</i> , 2001, 29, 347-365.	1.0	7
103	FLUXVIZ – CYTOSCAPE PLUG-IN FOR VISUALIZATION OF FLUX DISTRIBUTIONS IN NETWORKS. , 2010, , .		7
104	Computer Simulations Suggest a Key Role of Membranous Nanodomains in Biliary Lipid Secretion. <i>PLoS Computational Biology</i> , 2015, 11, e1004033.	3.2	6
105	Changes in Liver Mechanical Properties and Water Diffusivity During Normal Pregnancy Are Driven by Cellular Hypertrophy. <i>Frontiers in Physiology</i> , 2020, 11, 605205.	2.8	6
106	Regulation of the cytochrome P450 epoxygenase pathway is associated with distinct histologic features in pediatric non-alcoholic fatty liver disease. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 164, 102229.	2.2	6
107	SEE: structured representation of scientific evidence in the biomedical domain using Semantic Web techniques. <i>Journal of Biomedical Semantics</i> , 2014, 5, S1.	1.6	5
108	Joint Effect of Unlinked Genotypes: Application to Type 2 Diabetes in the EPIC-Potsdam Case-Cohort Study. <i>Annals of Human Genetics</i> , 2015, 79, 253-263.	0.8	5

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109	Mathematical Modeling of Cellular Metabolism. Recent Results in Cancer Research, 2016, 207, 221-232.	1.8	5
110	Pruning genome-scale metabolic models to consistent ad functionem networks. Genome Informatics, 2007, 18, 308-19.	0.4	5
111	The importance of membrane microdomains for bile salt-dependent biliary lipid secretion. Journal of Cell Science, 2018, 131, .	2.0	4
112	Computational Hypothesis: How Intra-Hepatic Functional Heterogeneity May Influence the Cascading Progression of Free Fatty Acid-Induced Non-Alcoholic Fatty Liver Disease (NAFLD). Cells, 2021, 10, 578.	4.1	4
113	Effect of Post-mortem Interval and Perfusion on the Biophysical Properties of ex vivo Liver Tissue Investigated Longitudinally by MRE and DWI. Frontiers in Physiology, 2021, 12, 696304.	2.8	4
114	Metannogen: annotation of biological reaction networks. Bioinformatics, 2011, 27, 2763-2764.	4.1	3
115	THE POSSIBLE CONSEQUENCES OF LARGE-SCALE ENZYME ALTERATIONS ON THE METABOLIC EFFICIENCY OF RED BLOOD CELLS AS STUDIED ON THE BASIS OF A MATHEMATICAL MODEL. Journal of Biological Systems, 1995, 03, 207-215.	1.4	2
116	Enzyme maintenance effort as criterion for the characterization of alternative pathways and length distribution of isofunctional enzymes. BioSystems, 2011, 105, 122-129.	2.0	2
117	Metabolic Consequences of TGFb Stimulation in Cultured Primary Mouse Hepatocytes Screened from Transcript Data with ModeScore. Metabolites, 2012, 2, 983-1003.	2.9	2
118	Metabolic modelling of kidney diseases: Lessons learned from the liver. Acta Physiologica, 2019, 227, e13350.	3.8	2
119	Functional consequences of metabolic zonation in murine livers: new insights for an old story. Journal of Hepatology, 2020, 73, S293-S294.	3.7	2
120	Sequential Metabolic Phases as a Means to Optimize Cellular Output in a Constant Environment. PLoS ONE, 2015, 10, e0118347.	2.5	2
121	PRUNING GENOME-SCALE METABOLIC MODELS TO CONSISTENT <i>AD FUNCTIONEM</i> NETWORKS. , 2007, , .		1
122	On the Influence of Growth in Perfusion Dependent Biological Systems “ at the Example of the Human Liver. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 119-120.	0.2	1
123	Estimation of metabolic flux rates in liver purine catabolism of tumour-bearing mice by computer simulation of radioactive tracer experiments. Cell Biochemistry and Function, 1994, 12, 1-9.	2.9	0
124	Stochastic Model of Influenza Virus Fusion. , 2004, , 411-420.		0
125	Rapid degradation of solidâ€phase bound peptides by the 20S proteasome. Journal of Peptide Science, 2013, 19, 588-597.	1.4	0
126	On growth effects in the human liver. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 105-106.	0.2	0

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127	COMPUTER AIDED OPTIMIZATION OF CARBON ATOM LABELING FOR TRACER EXPERIMENTS. , 2008, , .		0