

# Marta Cascante Serratos

## List of Publications by Year in descending order

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Version: 2024-02-01

313  
papers

13,180  
citations

23500

58  
h-index

35952

97  
g-index

322  
all docs

322  
docs citations

322  
times ranked

18947  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Escape-Room about Krebs cycle prepared for Chemical Students. International Journal on Engineering, Science and Technology, 2022, 3, 155-164.	0.2	1
2	The Glycolytic Gatekeeper PDK1 defines different metabolic states between genetically distinct subtypes of human acute myeloid leukemia. Nature Communications, 2022, 13, 1105.	5.8	14
3	TKTL1 Knockdown Impairs Hypoxia-Induced Glucose-6-phosphate Dehydrogenase and Glyceraldehyde-3-phosphate Dehydrogenase Overexpression. International Journal of Molecular Sciences, 2022, 23, 3574.	1.8	7
4	Inhibition of the succinyl dehydrogenase complex in acute myeloid leukemia leads to a lactate-fuelled respiratory metabolic vulnerability. Nature Communications, 2022, 13, 2013.	5.8	22
5	Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310.	1.1	46
6	Exploratory and confirmatory analysis to investigate the presence of vaginal metabolome expression of microbial invasion of the amniotic cavity in women with preterm labor using high-performance liquid chromatography. American Journal of Obstetrics and Gynecology, 2021, 224, 90.e1-90.e9.	0.7	5
7	Generation of a Novel In Vitro Model to Study Endothelial Dysfunction from Atherothrombotic Specimens. Cardiovascular Drugs and Therapy, 2021, 35, 1281-1290.	1.3	5
8	Quantitative Proteomic Approach Reveals Altered Metabolic Pathways in Response to the Inhibition of Lysine Deacetylases in A549 Cells under Normoxia and Hypoxia. International Journal of Molecular Sciences, 2021, 22, 3378.	1.8	3
9	Protein network analyses of pulmonary endothelial cells in chronic thromboembolic pulmonary hypertension. Scientific Reports, 2021, 11, 5583.	1.6	10
10	Targeting the Metabolic Adaptation of Metastatic Cancer. Cancers, 2021, 13, 1641.	1.7	10
11	Integrating systemic and molecular levels to infer key drivers sustaining metabolic adaptations. PLoS Computational Biology, 2021, 17, e1009234.	1.5	2
12	Glutamine Modulates Expression and Function of Glucose 6-Phosphate Dehydrogenase via NRF2 in Colon Cancer Cells. Antioxidants, 2021, 10, 1349.	2.2	13
13	Unveiling a key role of oxaloacetate-glutamate interaction in regulation of respiration and ROS generation in nonsynaptic brain mitochondria using a kinetic model. PLoS ONE, 2021, 16, e0255164.	1.1	8
14	Genome Scale Modeling to Study the Metabolic Competition between Cells in the Tumor Microenvironment. Cancers, 2021, 13, 4609.	1.7	15
15	Genome-scale integration of transcriptome and metabolome unveils squalene synthase and dihydrofolate reductase as targets against AML cells resistant to chemotherapy. Computational and Structural Biotechnology Journal, 2021, 19, 4059-4066.	1.9	4
16	Cysteine and Folate Metabolism Are Targetable Vulnerabilities of Metastatic Colorectal Cancer. Cancers, 2021, 13, 425.	1.7	14
17	Oxidative Pentose Phosphate Pathway Enzyme 6-Phosphogluconate Dehydrogenase Plays a Key Role in Breast Cancer Metabolism. Biology, 2021, 10, 85.	1.3	14
18	AI delivers Michaelis constants as fuel for genome-scale metabolic models. PLoS Biology, 2021, 19, e3001415.	2.6	3

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19	Luminescent Pt II and Pt IV Platinacycles with Anticancer Activity Against Multiplatinum-Resistant Metastatic CRC and CRPC Cell Models. <i>Chemistry - A European Journal</i> , 2020, 26, 1947-1952.	1.7	8
20	Metabolic Plasticity Is an Essential Requirement of Acquired Tyrosine Kinase Inhibitor Resistance in Chronic Myeloid Leukemia. <i>Cancers</i> , 2020, 12, 3443.	1.7	4
21	Decreased Glycolysis as Metabolic Fingerprint of Endothelial Cells in Chronic Thromboembolic Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 710-713.	1.4	5
22	Metformin lowers glucose 6-phosphate in hepatocytes by activation of glycolysis downstream of glucose phosphorylation. <i>Journal of Biological Chemistry</i> , 2020, 295, 3330-3346.	1.6	22
23	Software Supporting a Workflow of Quantitative Dynamic Flux Maps Estimation in Central Metabolism from SIRM Experimental Data. <i>Methods in Molecular Biology</i> , 2020, 2088, 271-298.	0.4	3
24	Synthesis and Antiproliferative Activity of Novel A-Ring Cleaved Glycyrrhetic Acid Derivatives. <i>Molecules</i> , 2019, 24, 2938.	1.7	9
25	Stoichiometric gene-to-reaction associations enhance model-driven analysis performance: Metabolic response to chronic exposure to Aldrin in prostate cancer. <i>BMC Genomics</i> , 2019, 20, 652.	1.2	12
26	Metabolic Plasticity and Epithelial-Mesenchymal Transition. <i>Journal of Clinical Medicine</i> , 2019, 8, 967.	1.0	25
27	p13CMFA: Parsimonious 13C metabolic flux analysis. <i>PLoS Computational Biology</i> , 2019, 15, e1007310.	1.5	9
28	Differentially Expressed Proteins in Primary Endothelial Cells Derived From Patients With Acute Myocardial Infarction. <i>Hypertension</i> , 2019, 74, 947-956.	1.3	10
29	Metabolomics in systems medicine: an overview of methods and applications. <i>Current Opinion in Systems Biology</i> , 2019, 15, 91-99.	1.3	9
30	Interoperable and scalable data analysis with microservices: applications in metabolomics. <i>Bioinformatics</i> , 2019, 35, 3752-3760.	1.8	22
31	Synthesis and Antiproliferative Activity of Novel Heterocyclic Glycyrrhetic Acid Derivatives. <i>Molecules</i> , 2019, 24, 766.	1.7	14
32	The landscape of tiered regulation of breast cancer cell metabolism. <i>Scientific Reports</i> , 2019, 9, 17760.	1.6	15
33	PhenoMeNal: processing and analysis of metabolomics data in the cloud. <i>GigaScience</i> , 2019, 8, .	3.3	60
34	Tracing metabolic fluxes using mass spectrometry: Stable isotope-resolved metabolomics in health and disease. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115371.	5.8	12
35	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. <i>JCI Insight</i> , 2019, 4, .	2.3	14
36	Decreased glycolysis as metabolic footprint of endothelial cells in chronic thromboembolic pulmonary hypertension. , 2019, , .		0

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37	From correlation to causation: analysis of metabolomics data using systems biology approaches. <i>Metabolomics</i> , 2018, 14, 37.	1.4	151
38	Instrumental drift removal in GC-MS data for breath analysis: the short-term and long-term temporal validation of putative biomarkers for COPD. <i>Journal of Breath Research</i> , 2018, 12, 036007.	1.5	8
39	Network modules uncover mechanisms of skeletal muscle dysfunction in COPD patients. <i>Journal of Translational Medicine</i> , 2018, 16, 34.	1.8	22
40	Platinacycles Containing a Primary Amine Platinum(II) Compounds for Treating Cisplatin-Resistant Cancers by Oxidant Therapy. <i>Organometallics</i> , 2018, 37, 3502-3514.	1.1	16
41	Tumor-associated metabolic and inflammatory responses in early stage non-small cell lung cancer: Local patterns and prognostic significance. <i>Lung Cancer</i> , 2018, 122, 124-130.	0.9	28
42	Combining Metabolome, Transcriptome and Proteome Approaches to Identify Vulnerabilities in AML: Role of Pdks. <i>Experimental Hematology</i> , 2018, 64, S64.	0.2	0
43	Synthesis, characterization and biological activity of new cyclometallated platinum( <i>iv</i> ) complexes containing a <i>para</i> -tolyl ligand. <i>Dalton Transactions</i> , 2018, 47, 8956-8971.	1.6	7
44	Untargeted metabolomics reveals distinct metabolic reprogramming in endothelial cells co-cultured with CSC and non-CSC prostate cancer cell subpopulations. <i>PLoS ONE</i> , 2018, 13, e0192175.	1.1	13
45	Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for Precision Medicine and Pharmacometabolomics) <i>Trends in Analytical Chemistry</i> , 2018, 11, 1-14.	1.1	1
46	Metabolic Alterations in Cardiopulmonary Vascular Dysfunction. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 120.	1.6	20
47	Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. <i>PLoS Computational Biology</i> , 2018, 14, e1005914.	1.5	22
48	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4140-4144.	7.2	23
49	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie</i> , 2017, 129, 4204-4208.	1.6	3
50	MIDcor, an R-program for deciphering mass interferences in mass spectra of metabolites enriched in stable isotopes. <i>BMC Bioinformatics</i> , 2017, 18, 88.	1.2	12
51	Novel celastrol derivatives with improved selectivity and enhanced antitumour activity: Design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 422-437.	2.6	22
52	The importance of post-translational modifications in systems biology approaches to identify therapeutic targets in cancer metabolism. <i>Current Opinion in Systems Biology</i> , 2017, 3, 161-169.	1.3	9
53	Synthesis, characterization and biological activity of new cyclometallated platinum( <i>iv</i> ) iodo complexes. <i>Dalton Transactions</i> , 2017, 46, 14973-14987.	1.6	21
54	In-silico gene essentiality analysis of polyamine biosynthesis reveals APRT as a potential target in cancer. <i>Scientific Reports</i> , 2017, 7, 14358.	1.6	10

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55	<i>De novo</i> MYC addiction as an adaptive response of cancer cells to CDK4/6 inhibition. <i>Molecular Systems Biology</i> , 2017, 13, 940.	3.2	43
56	Design, synthesis and biological evaluation of novel C-29 carbamate celastrol derivatives as potent and selective cytotoxic compounds. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 836-848.	2.6	25
57	Combining transcriptome, quantitative proteome and metabolome approaches to identify targetable vulnerabilities in AML. <i>Experimental Hematology</i> , 2017, 53, S108.	0.2	0
58	Induction of oxidative metabolism by the p38 $\beta$ /MK2 pathway. <i>Scientific Reports</i> , 2017, 7, 11367.	1.6	23
59	Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. <i>Progress in Preventive Medicine (New York, N Y)</i> , 2017, 2, e006.	0.7	6
60	Glyceraldehyde-3-phosphate dehydrogenase is overexpressed in colorectal cancer onset. <i>Translational Medicine Communications</i> , 2017, 2, .	0.5	15
61	Molecular mechanisms underlying COPD-muscle dysfunction unveiled through a systems medicine approach. <i>Bioinformatics</i> , 2017, 33, 95-103.	1.8	15
62	Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 8.	1.6	7
63	MicroRNA-200, associated with metastatic breast cancer, promotes traits of mammary luminal progenitor cells. <i>Oncotarget</i> , 2017, 8, 83384-83406.	0.8	23
64	Glucose-6-phosphate dehydrogenase and transketolase modulate breast cancer cell metabolic reprogramming and correlate with poor patient outcome. <i>Oncotarget</i> , 2017, 8, 106693-106706.	0.8	62
65	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	19
66	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	11
67	Dysfunctional endothelial cells in patients with chronic thromboembolic pulmonary hypertension. , 2017, , .		0
68	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. <i>Npj Systems Biology and Applications</i> , 2016, 2, 16011.	1.4	21
69	HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. <i>PLoS Computational Biology</i> , 2016, 12, e1004899.	1.5	14
70	Oncogenic regulation of tumor metabolic reprogramming. <i>Oncotarget</i> , 2016, 7, 62726-62753.	0.8	116
71	Restrictions in ATP diffusion within sarcomeres can provoke ATP-depleted zones impairing exercise capacity in chronic obstructive pulmonary disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2269-2278.	1.1	6
72	Design, synthesis, and biological evaluation of novel asiatic acid derivatives as potential anticancer agents. <i>RSC Advances</i> , 2016, 6, 39296-39309.	1.7	4

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73	Metabolomics enables precision medicine: <i>White Paper, Community Perspective</i> , Metabolomics, 2016, 12, 149.	1.4	434
74	On the stability and biological behavior of cyclometallated Pt(IV) complexes with halido and aryl ligands in the axial positions. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5804-5815.	1.4	17
75	ChainRank, a chain prioritisation method for contextualisation of biological networks. <i>BMC Bioinformatics</i> , 2016, 17, 17.	1.2	38
76	Metabolic Reprogramming and Dependencies Associated with Epithelial Cancer Stem Cells Independent of the Epithelial-Mesenchymal Transition Program. <i>Stem Cells</i> , 2016, 34, 1163-1176.	1.4	77
77	Synthesis and biological evaluation of novel asiatic acid derivatives with anticancer activity. <i>RSC Advances</i> , 2016, 6, 3967-3985.	1.7	14
78	Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 101-117.	2.6	40
79	Maslinic Acid, a Natural Triterpene, Induces a Death Receptor-Mediated Apoptotic Mechanism in Caco-2 p53-Deficient Colon Adenocarcinoma Cells. <i>PLoS ONE</i> , 2016, 11, e0146178.	1.1	43
80	A key role for transketolase-like 1 in tumor metabolic reprogramming. <i>Oncotarget</i> , 2016, 7, 51875-51897.	0.8	43
81	COordination of Standards in MetabOlogicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015, 11, 1587-1597.	1.4	140
82	Methylseleninic acid promotes antitumour effects via nuclear FOXO3a translocation through Akt inhibition. <i>Pharmacological Research</i> , 2015, 102, 218-234.	3.1	42
83	Neutral and ionic platinum compounds containing a cyclometallated chiral primary amine: synthesis, antitumor activity, DNA interaction and topoisomerase $\alpha$ -cathepsin B inhibition. <i>Dalton Transactions</i> , 2015, 44, 13602-13614.	1.6	26
84	Sampling with poling-based flux balance analysis: optimal versus sub-optimal flux space analysis of <i>Actinobacillus succinogenes</i> . <i>BMC Bioinformatics</i> , 2015, 16, 49.	1.2	11
85	Optimization of xanthatin extraction from <i>Xanthium spinosum</i> L. and its cytotoxic, anti-angiogenesis and antiviral properties. <i>European Journal of Medicinal Chemistry</i> , 2015, 90, 491-496.	2.6	34
86	Role of the Pentose Phosphate Pathway in Tumour Metabolism. , 2015, , 143-163.		3
87	Effects of Cadmium and Mercury on the Upper Part of Skeletal Muscle Glycolysis in Mice. <i>PLoS ONE</i> , 2014, 9, e80018.	1.1	28
88	Cardiovascular Disease-Related Parameters and Oxidative Stress in SHROB Rats, a Model for Metabolic Syndrome. <i>PLoS ONE</i> , 2014, 9, e104637.	1.1	16
89	$^{13}\text{C}$ metabolic flux analysis shows that resistin impairs the metabolic response to insulin in L6E9 myotubes. <i>BMC Systems Biology</i> , 2014, 8, 109.	3.0	6
90	Cancer cell metabolism as new targets for novel designed therapies. <i>Future Medicinal Chemistry</i> , 2014, 6, 1791-1810.	1.1	22

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91	Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. <i>Cell Metabolism</i> , 2014, 19, 37-48.	7.2	429
92	Design of an interface peptide as new inhibitor of human glucose-6-phosphate dehydrogenase. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 49, 110-117.	1.3	4
93	Effect of crowding by Dextran in enzymatic reactions. <i>Biophysical Chemistry</i> , 2014, 185, 8-13.	1.5	61
94	Quantitative Proteomic Approach to Understand Metabolic Adaptation in Non-Small Cell Lung Cancer. <i>Journal of Proteome Research</i> , 2014, 13, 4695-4704.	1.8	28
95	A novel cyclometallated Pt(II)-ferrocene complex induces nuclear FOXO3a localization and apoptosis and synergizes with cisplatin to inhibit lung cancer cell proliferation. <i>Metallomics</i> , 2014, 6, 622.	1.0	35
96	Exploring the Scope of $[Pt_2(4-FC_6H_4)_4(\frac{1}{4}-SEt_2)]$ as a Precursor for New Organometallic Platinum(II) and Platinum(IV) Antitumor Agents. <i>Organometallics</i> , 2014, 33, 1740-1750.	1.1	25
97	Macromolecular Crowding Effect upon <i>in Vitro</i> Enzyme Kinetics: Mixed Activation-Diffusion Control of the Oxidation of NADH by Pyruvate Catalyzed by Lactate Dehydrogenase. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4062-4068.	1.2	54
98	Cyclopalladated primary amines: A preliminary study of antiproliferative activity through apoptosis induction. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 530-536.	2.6	20
99	Validation of NCM460 cell model as control in antitumor strategies targeting colon adenocarcinoma metabolic reprogramming: Trichostatin A as a case study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1634-1639.	1.1	12
100	Systems Medicine: from molecular features and models to the clinic in COPD. <i>Journal of Translational Medicine</i> , 2014, 12, S4.	1.8	23
101	Chronic Obstructive Pulmonary Disease heterogeneity: challenges for health risk assessment, stratification and management. <i>Journal of Translational Medicine</i> , 2014, 12, S3.	1.8	34
102	Biomedical research in a Digital Health Framework. <i>Journal of Translational Medicine</i> , 2014, 12, S10.	1.8	21
103	Workforce preparation: the Biohealth computing model for Master and PhD students. <i>Journal of Translational Medicine</i> , 2014, 12, S11.	1.8	11
104	Predictive medicine: outcomes, challenges and opportunities in the Synergy-COPD project. <i>Journal of Translational Medicine</i> , 2014, 12, S12.	1.8	6
105	Synergy-COPD: a systems approach for understanding and managing chronic diseases. <i>Journal of Translational Medicine</i> , 2014, 12, S2.	1.8	19
106	The COPD Knowledge Base: enabling data analysis and computational simulation in translational COPD research. <i>Journal of Translational Medicine</i> , 2014, 12, S6.	1.8	26
107	Fluxomics. , 2014, , 237-250.		3
108	Oxygen Pathway Modeling Estimates High Reactive Oxygen Species Production above the Highest Permanent Human Habitation. <i>PLoS ONE</i> , 2014, 9, e111068.	1.1	14

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109	Polyamine production is downstream and upstream of oncogenic PI3K signalling and contributes to tumour cell growth. <i>Biochemical Journal</i> , 2013, 450, 619-628.	1.7	21
110	Diastereomerically pure platinum(II) complexes as antitumoral agents.. <i>Journal of Inorganic Biochemistry</i> , 2013, 118, 1-12.	1.5	30
111	Antitumour activity on extrinsic apoptotic targets of the triterpenoid maslinic acid in p53-deficient Caco-2 adenocarcinoma cells. <i>Biochimie</i> , 2013, 95, 2157-2167.	1.3	37
112	Targeting cell cycle regulation in cancer therapy. , 2013, 138, 255-271.		284
113	Pt(II) complexes with (N,Nâ€²) or (C,N,E)â€² (E=N,S) ligands: Cytotoxic studies, effect on DNA tertiary structure and structureâ€”activity relationships. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4210-4217.	1.4	22
114	A key role for mitochondrial gatekeeper pyruvate dehydrogenase in oncogene-induced senescence. <i>Nature</i> , 2013, 498, 109-112.	13.7	517
115	Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4310-4317.	2.4	42
116	Cellular Plasticity Confers Migratory and Invasive Advantages to a Population of Glioblastoma-Initiating Cells that Infiltrate Peritumoral Tissue. <i>Stem Cells</i> , 2013, 31, 1075-1085.	1.4	83
117	High electron transfer capacity of thio-derivatives of tea catechins measured using a water soluble stable free radical and their effects on colon cancer cells. <i>New Journal of Chemistry</i> , 2013, 37, 2043.	1.4	4
118	Grape antioxidant dietary fiber inhibits intestinal polyposis in Apc Min/+ mice: relation to cell cycle and immune response. <i>Carcinogenesis</i> , 2013, 34, 1881-1888.	1.3	38
119	Maslinic Acid-Enriched Diet Decreases Intestinal Tumorigenesis in ApcMin/+ Mice through Transcriptomic and Metabolomic Reprogramming. <i>PLoS ONE</i> , 2013, 8, e59392.	1.1	46
120	Multistationary and Oscillatory Modes of Free Radicals Generation by the Mitochondrial Respiratory Chain Revealed by a Bifurcation Analysis. <i>PLoS Computational Biology</i> , 2012, 8, e1002700.	1.5	19
121	Target metabolomics revealed complementary roles of hexose- and pentose-phosphates in the regulation of carbohydrate-dependent gene expression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E234-E242.	1.8	19
122	Relevance of the MEK/ERK Signaling Pathway in the Metabolism of Activated Macrophages: A Metabolomic Approach. <i>Journal of Immunology</i> , 2012, 188, 1402-1410.	0.4	66
123	Muscle and blood redox status after exercise training in severe COPD patients. <i>Free Radical Biology and Medicine</i> , 2012, 52, 88-94.	1.3	89
124	Integrating tracer-based metabolomics data and metabolic fluxes in a linear fashion via Elementary Carbon Modes. <i>Metabolic Engineering</i> , 2012, 14, 344-353.	3.6	10
125	Punicalagin and Catechins Contain Polyphenolic Substructures That Influence Cell Viability and Can Be Monitored by Radical Chemosensors Sensitive to Electron Transfer. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1659-1665.	2.4	10
126	Seven-membered cycloplatinated complexes as a new family of anticancer agents. X-ray characterization and preliminary biological studies. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 557-566.	2.6	37



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127	Introduction to Metabolic Control Analysis (MCA). <i>Methods in Pharmacology and Toxicology</i> , 2012, , 279-297.	0.1	2
128	Hamamelitannin from Witch Hazel ( <i>Hamamelis virginiana</i> ) Displays Specific Cytotoxic Activity against Colon Cancer Cells. <i>Journal of Natural Products</i> , 2012, 75, 26-33.	1.5	35
129	Diphenyl Urea Derivatives as Inhibitors of Transketolase: A Structure-Based Virtual Screening. <i>PLoS ONE</i> , 2012, 7, e32276.	1.1	9
130	Cyclin-dependent kinases 4 and 6 control tumor progression and direct glucose oxidation in the pentose cycle. <i>Metabolomics</i> , 2012, 8, 454-464.	1.4	25
131	Plasma metabolic profile in COPD patients: effects of exercise and endurance training. <i>Metabolomics</i> , 2012, 8, 508-516.	1.4	37
132	Application of Tracer-Based Metabolomics and Flux Analysis in Targeted Cancer Drug Design. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 299-320.	0.1	2
133	Thermodynamically constrained Flux and Control Analysis of <i>Escherichia coli</i> . <i>Computer Aided Chemical Engineering</i> , 2012, 30, 1377-1381.	0.3	3
134	Metabolites in Contact with the Rat Digestive Tract after Ingestion of a Phenolic-Rich Dietary Fiber Matrix. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 5955-5963.	2.4	45
135	Protective Effect of Structurally Diverse Grape Procyanidin Fractions against UV-Induced Cell Damage and Death. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4489-4495.	2.4	27
136	Effect of Crowding by Dextrans on the Hydrolysis of <i>N</i> -Succinyl-L-phenyl-Ala-p-nitroanilide Catalyzed by $\hat{I}\pm$ -Chymotrypsin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1115-1121.	1.2	60
137	New betulinic acid derivatives induce potent and selective antiproliferative activity through cell cycle arrest at the S phase and caspase dependent apoptosis in human cancer cells. <i>Biochimie</i> , 2011, 93, 1065-1075.	1.3	45
138	Enzymatic and metabolic characterization of the phosphoglycerate kinase deficiency associated with chronic hemolytic anemia caused by the PGK-Barcelona mutation. <i>Blood Cells, Molecules, and Diseases</i> , 2011, 46, 206-211.	0.6	11
139	Glycerol metabolic conversion to succinic acid using <i>Actinobacillus succinogenes</i> . <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1421-1425.	0.3	10
140	Transketolase-Like 1 Expression Is Modulated during Colorectal Cancer Progression and Metastasis Formation. <i>PLoS ONE</i> , 2011, 6, e25323.	1.1	50
141	Platinum(II) and palladium(II) complexes with (N,N $\hat{E}$ <sup>2</sup> ) and (C,N,N $\hat{E}$ <sup>2</sup> ) $\hat{a}$ ligands derived from pyrazole as anticancer and antimalarial agents: Synthesis, characterization and in vitro activities. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1720-1728.	1.5	75
142	Compartmentation of glycogen metabolism revealed from <sup>13</sup> C isotopologue distributions. <i>BMC Systems Biology</i> , 2011, 5, 175.	3.0	23
143	Carbon metabolism and the sign of control coefficients in metabolic adaptations underlying K-ras transformation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 746-754.	0.5	18
144	The natural triterpene maslinic acid induces apoptosis in HT29 colon cancer cells by a JNK-p53-dependent mechanism. <i>BMC Cancer</i> , 2011, 11, 154.	1.1	99

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145	Knowledge management for Systems Biology a general and visually driven framework applied to translational medicine. BMC Systems Biology, 2011, 5, 38.	3.0	52
146	Do elementary flux modes combine linearly at the atomic level? Integrating tracer-based metabolomics data and elementary flux modes. BioSystems, 2011, 105, 140-146.	0.9	6
147	Ferrocene-indole hybrids for cancer and malaria therapy. Journal of Organometallic Chemistry, 2011, 696, 1011-1017.	0.8	65
148	Novel Phenazine 5,10-Dioxides Release $\text{H}_2\text{O}_2$ in Simulated Hypoxia and Induce Reduction of Tumour Volume <i>In Vivo</i> . ISRN Pharmacology, 2011, 2011, 1-11.	1.6	12
149	Reactive Oxygen Species Production by Forward and Reverse Electron Fluxes in the Mitochondrial Respiratory Chain. PLoS Computational Biology, 2011, 7, e1001115.	1.5	133
150	A Systems Biology Approach Identifies Molecular Networks Defining Skeletal Muscle Abnormalities in Chronic Obstructive Pulmonary Disease. PLoS Computational Biology, 2011, 7, e1002129.	1.5	66
151	A Lyophilized Red Grape Pomace Containing Proanthocyanidin-Rich Dietary Fiber Induces Genetic and Metabolic Alterations in Colon Mucosa of Female C57BL/6j Mice. Journal of Nutrition, 2011, 141, 1597-1604.	1.3	44
152	Metabolic network adaptations in cancer as targets for novel therapies. Biochemical Society Transactions, 2010, 38, 1302-1306.	1.6	27
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309	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. I. unbranched pathways. <i>Mathematical Biosciences</i> , 1989, 94, 271-288.	0.9	74
310	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. II. complex systems. <i>Mathematical Biosciences</i> , 1989, 94, 289-309.	0.9	79
311	Intramitochondrial location and some characteristics of chicken liver aspartate aminotransferase. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1987, 19, 355-363.	0.8	9
312	Purification and comparative studies of several mitochondrial aspartate aminotransferases from avian liver. <i>International Journal of Peptide and Protein Research</i> , 1987, 30, 668-675.	0.1	2
313	Biological Methods for Metabolic Research. , 0, , 54-76.		0