

Michael P Gamcsik

List of Publications by Year in descending order

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43
papers

1,640
citations

430874

18
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutathione levels in human tumors. <i>Biomarkers</i> , 2012, 17, 671-691.	1.9	438
2	Disruption of a Nonribosomal Peptide Synthetase in <i>Aspergillus fumigatus</i> Eliminates Gliotoxin Production. <i>Eukaryotic Cell</i> , 2006, 5, 972-980.	3.4	208
3	In vivo Hypoxia and a Fungal Alcohol Dehydrogenase Influence the Pathogenesis of Invasive Pulmonary Aspergillosis. <i>PLoS Pathogens</i> , 2011, 7, e1002145.	4.7	208
4	Role of glutathione in cellular resistance to alkylating agents. <i>Advances in Enzyme Regulation</i> , 1993, 33, 19-26.	2.6	74
5	A versatile oxygenator and perfusion system for magnetic resonance studies. <i>Biotechnology and Bioengineering</i> , 1996, 49, 348-354.	3.3	67
6	Structure and stereochemistry of tetrahedral inhibitor complexes of papain by direct NMR observation. <i>Journal of the American Chemical Society</i> , 1983, 105, 6324-6325.	13.7	55
7	A microfluidic device to study cancer metastasis under chronic and intermittent hypoxia. <i>Biomicrofluidics</i> , 2014, 8, 054117.	2.4	52
8	Camptothecin analogues with enhanced antitumor activity at acidic pH. <i>Cancer Chemotherapy and Pharmacology</i> , 2000, 46, 263-271.	2.3	50
9	NMR studies of the conjugation of mechlorethamine with glutathione. <i>Journal of Medicinal Chemistry</i> , 1990, 33, 1009-1014.	6.4	40
10	The Partitioning of Phosphoramidate Mustard and Its Aziridinium Ions among Alkylation and P ^α -N Bond Hydrolysis Reactions. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 515-529.	6.4	39
11	Improvements in Solubility and Stability of Thalidomide upon Complexation with Hydroxypropyl-β-Cyclodextrin. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 685-689.	3.3	37
12	Evidence for a role of chloroethylaziridine in the cytotoxicity of cyclophosphamide. <i>Cancer Chemotherapy and Pharmacology</i> , 2000, 45, 335-344.	2.3	35
13	Cryoenzymology of proteases: NMR detection of a productive thioacyl derivative of papain at subzero temperatures. <i>Journal of the American Chemical Society</i> , 1982, 104, 6811-6813.	13.7	33
14	Increased rate of glutathione synthesis from cystine in drug-resistant MCF-7 cells. <i>Biochemical Pharmacology</i> , 2002, 63, 843-851.	4.4	28
15	Noninvasive In vivo Detection of Glutathione Metabolism in Tumors. <i>Cancer Research</i> , 2005, 65, 10149-10153.	0.9	28
16	Computational analysis of structural and energetic consequences of DNA methylation. <i>Carcinogenesis</i> , 1989, 10, 1131-1137.	2.8	22
17	Noninvasive <i>in vivo</i> magnetic resonance measures of glutathione synthesis in human and rat liver as an oxidative stress biomarker. <i>Hepatology</i> , 2014, 59, 2321-2330.	7.3	21
18	Protonation of phosphoramidate mustard and other phosphoramidates. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 3636-3645.	6.4	20

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19	Comparison of the Protonation of Isophosphoramidate Mustard and Phosphoramidate Mustard. Journal of Medicinal Chemistry, 1995, 38, 2166-2175.	6.4	17
20	Role of glutathione and nucleotide excision repair in modulation of cisplatin activity with O6-benzylguanine. Cancer Chemotherapy and Pharmacology, 2005, 55, 333-342.	2.3	16
21	<i>In vivo</i> MR studies of glycine and glutathione metabolism in a rat mammary tumor. NMR in Biomedicine, 2012, 25, 271-278.	2.8	14
22	NMR Studies of the Interaction of Bleomycin with (dC-dG) ₃ . Journal of Biomolecular Structure and Dynamics, 1990, 7, 1117-1133.	3.5	12
23	Two-Dimensional NMR Study of Bleomycin and Its Zinc(II) Complex: Reassignment of ¹³ C Resonances. Journal of Biomolecular Structure and Dynamics, 1990, 8, 375-398.	3.5	12
24	Synthesis of ¹⁵ N and ¹⁷ O labelled phosphoramidate mustards. Journal of Labelled Compounds and Radiopharmaceuticals, 1993, 33, 313-326.	1.0	12
25	Mixing and delivery of multiple controlled oxygen environments to a single multiwell culture plate. American Journal of Physiology - Cell Physiology, 2018, 315, C766-C775.	4.6	12
26	Kinetics of the conjugation of aniline mustards with glutathione and thiosulfate. Chemico-Biological Interactions, 1997, 105, 35-52.	4.0	11
27	Modified Guanines Representing O ₆ -Alkylation by the Cyclophosphamide Metabolites Acrolein and Chloroacetaldehyde: A Synthesis, Stability, and <i>ab Initio</i> Studies. Chemical Research in Toxicology, 2002, 15, 380-387.	3.3	11
28	Highlighting Functional Mass Spectrometry Imaging Methods in Bioanalysis. Journal of Proteome Research, 2022, 21, 1800-1807.	3.7	9
29	¹³ C-Isotopic Enrichment of Glutathione in Cell Extracts Determined by Nuclear Magnetic Resonance Spectroscopy. Analytical Biochemistry, 1999, 266, 58-65.	2.4	8
30	Multiple Infusion Start Time Mass Spectrometry Imaging of Dynamic SIL-Glutathione Biosynthesis Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization. Journal of Proteome Research, 2021, , .	3.7	8
31	Synthesis of ¹⁵ N labelled isophosphoramidate mustard. Journal of Labelled Compounds and Radiopharmaceuticals, 1994, 34, 231-237.	1.0	6
32	Noninvasive monitoring of glutathione turnover in perfused MCF-7 cells. Free Radical Biology and Medicine, 2004, 37, 961-968.	2.9	6
33	Intrastrand base-stacking buttresses widening of major groove in interstrand cross-linked B-DNA. Bioorganic and Medicinal Chemistry, 2005, 13, 4580-4587.	3.0	6
34	Non-invasive Monitoring of L-2-Oxothiazolidine-4-Carboxylate Metabolism in the Rat Brain by <i>In vivo</i> ¹³ C Magnetic Resonance Spectroscopy. Neurochemical Research, 2011, 36, 443-451.	3.3	4
35	Biocompatibility of Tygon® tubing in microfluidic cell culture. Biomedical Microdevices, 2015, 17, 20.	2.8	4
36	Flow-Encoded Oxygen Control to Track the Time-Dependence of Molecular Changes Induced by Static or Cycling Hypoxia. Analytical Chemistry, 2019, 91, 15032-15039.	6.5	4

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37	A multiwell plate-based system for toxicity screening under multiple static or cycling oxygen environments. <i>Scientific Reports</i> , 2021, 11, 4020.	3.3	4
38	Synthesis of ¹⁷ O (and ¹⁸ O) labelled isophosphoramidate mustard. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1994, 34, 247-254.	1.0	3
39	Determination of low levels of 4-fluorophenylalanine incorporation into proteins. <i>Analytical Biochemistry</i> , 1986, 154, 311-315.	2.4	2
40	Synthesis of ¹³ C labeled derivatives of cysteine for magnetic resonance imaging studies of drug uptake and conversion to glutathione in rat brain. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2011, 54, 607-612.	1.0	2
41	¹³ C magnetic resonance spectroscopy detection of changes in serine isotopomers reflects changes in mitochondrial redox status. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 671-679.	3.0	2
42	Reduced blood flow increases the in vivo ammonium ion concentration in the RIF-1 tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 143-149.	0.8	0
43	Direct Detection of Glutathione Biosynthesis, Conjugation, Depletion and Recovery in Intact Hepatoma Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4733.	4.1	0