

Gavin F Painter

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3022944/publications.pdf>

Version: 2024-02-01

66
papers

4,942
citations

159585

30
h-index

114465

63
g-index

67
all docs

67
docs citations

67
times ranked

5637
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Role of Phosphatidylinositol-3,4,5-trisphosphate in the Activation of Protein Kinase B. <i>Science</i> , 1997, 277, 567-570.	12.6	1,131
2	Protein Kinase B Kinases That Mediate Phosphatidylinositol 3,4,5-Trisphosphate-Dependent Activation of Protein Kinase B. <i>Science</i> , 1998, 279, 710-714.	12.6	992
3	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. <i>Nature Immunology</i> , 2006, 7, 978-986.	14.5	567
4	The stress-activated phosphatidylinositol 3-phosphate 5-kinase Fab1p is essential for vacuole function in <i>S. cerevisiae</i> . <i>Current Biology</i> , 1998, 8, 1219-S2.	3.9	201
5	Femtomolar Transition State Analogue Inhibitors of 5â€²-Methylthioadenosine/S-Adenosylhomocysteine Nucleosidase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 18265-18273.	3.4	122
6	Complementation Analysis in PtdInsPKinase-deficient Yeast Mutants Demonstrates That <i>Schizosaccharomyces pombe</i> and Murine Fab1p Homologues Are Phosphatidylinositol 3-Phosphate 5-Kinases. <i>Journal of Biological Chemistry</i> , 1999, 274, 33905-33912.	3.4	100
7	Activation of Human Mucosal-Associated Invariant T Cells Induces CD40L-Dependent Maturation of Monocyte-Derived and Primary Dendritic Cells. <i>Journal of Immunology</i> , 2017, 199, 2631-2638.	0.8	96
8	Lipid binding orientation within CD1d affects recognition of <i>Borrelia burgdorferi</i> antigens by NKT cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1535-1540.	7.1	91
9	Soluble CD36 Ectodomain Binds Negatively Charged Diacylglycerol Ligands and Acts as a Co-Receptor for TLR2. <i>PLoS ONE</i> , 2009, 4, e7411.	2.5	85
10	Role of Phosphatidylinositol Mannosides in the Interaction between Mycobacteria and DC-SIGN. <i>Infection and Immunity</i> , 2009, 77, 4538-4547.	2.2	81
11	The VÎ±14 invariant natural killer T cell TCR forces microbial glycolipids and CD1d into a conserved binding mode. <i>Journal of Experimental Medicine</i> , 2010, 207, 2383-2393.	8.5	78
12	Structural Characterization of Mycobacterial Phosphatidylinositol Mannoside Binding to Mouse CD1d. <i>Journal of Immunology</i> , 2006, 177, 4577-4583.	0.8	72
13	Primary deficiency of microsomal triglyceride transfer protein in human abetalipoproteinemia is associated with loss of CD1 function. <i>Journal of Clinical Investigation</i> , 2010, 120, 2889-2899.	8.2	71
14	A self-adjuvanting vaccine induces cytotoxic T lymphocytes that suppress allergy. <i>Nature Chemical Biology</i> , 2014, 10, 943-949.	8.0	70
15	NKT cell-dependent glycolipidâ€“peptide vaccines with potent anti-tumour activity. <i>Chemical Science</i> , 2015, 6, 5120-5127.	7.4	64
16	Picomolar Inhibitors as Transition-State Probes of 5â€²-Methylthioadenosine Nucleosidases. <i>ACS Chemical Biology</i> , 2007, 2, 725-734.	3.4	62
17	Second Generation Transition State Analogue Inhibitors of Human 5â€²-Methylthioadenosine Phosphorylase. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 4679-4689.	6.4	58
18	Synthesis and biological evaluation of phosphatidylinositol phosphate affinity probes. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 66-76.	2.8	56

#	ARTICLE	IF	CITATIONS
19	Syntheses of tetrahydroxyazepanes from chiro-inositols and their evaluation as glycosidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 225-232.	3.0	54
20	Enhanced Protection against Bovine Tuberculosis after Coadministration of <i>Mycobacterium bovis</i> BCG with a Mycobacterial Protein Vaccine-Adjuvant Combination but Not after Coadministration of Adjuvant Alone. <i>Vaccine Journal</i> , 2008, 15, 765-772.	3.1	53
21	Energetic Mapping of Transition State Analogue Interactions with Human and Plasmodium falciparum Purine Nucleoside Phosphorylases. <i>Journal of Biological Chemistry</i> , 2005, 280, 30320-30328.	3.4	51
22	A phase I vaccination study with dendritic cells loaded with NY-ESO-1 and β -galactosylceramide: induction of polyfunctional T cells in high-risk melanoma patients. <i>Cancer Immunology, Immunotherapy</i> , 2018, 67, 285-298.	4.2	49
23	Novel synthesis of β -galactosyl-ceramides and confirmation of their powerful NKT cell agonist activity. <i>Carbohydrate Research</i> , 2006, 341, 2785-2798.	2.3	48
24	Phosphatidylinositol mannosides: Synthesis and adjuvant properties of phosphatidylinositol di- and tetramannosides. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7615-7624.	3.0	44
25	Synthesis and Structure of Phosphatidylinositol Dimannoside. <i>Journal of Organic Chemistry</i> , 2007, 72, 3282-3288.	3.2	43
26	Glycolipid-peptide vaccination induces liver-resident memory CD8 ⁺ T cells that protect against rodent malaria. <i>Science Immunology</i> , 2020, 5, .	11.9	43
27	Eosinophils Determine Dermal Thickening and Water Loss in an MC903 Model of Atopic Dermatitis. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2606-2616.	0.7	39
28	Phosphatidylinositol mannosides: Synthesis and suppression of allergic airway disease. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5632-5642.	3.0	35
29	Synthesis and Activity of 6-Deoxy-6-thio- β -GalCer and Peptide Conjugates. <i>Organic Letters</i> , 2015, 17, 5954-5957.	4.6	32
30	Analysis of the CD1 Antigen Presenting System in Humanized SCID Mice. <i>PLoS ONE</i> , 2011, 6, e21701.	2.5	31
31	Augmenting Influenza-Specific T Cell Memory Generation with a Natural Killer T Cell-Dependent Glycolipid-Peptide Vaccine. <i>ACS Chemical Biology</i> , 2017, 12, 2898-2905.	3.4	27
32	Soluble human TLR2 ectodomain binds diacylglycerol from microbial lipopeptides and glycolipids. <i>Innate Immunity</i> , 2015, 21, 175-193.	2.4	25
33	A novel blood-feeding detoxification pathway in <i>Nippostrongylus brasiliensis</i> L3 reveals a potential checkpoint for arresting hookworm development. <i>PLoS Pathogens</i> , 2018, 14, e1006931.	4.7	24
34	The Chemical Synthesis, Stability, and Activity of MAIT Cell Prodrug Agonists That Access MR1 in Recycling Endosomes. <i>ACS Chemical Biology</i> , 2020, 15, 437-445.	3.4	24
35	Phosphatidylinositol Mannoside Ether Analogues: Syntheses and Interleukin-12-Inducing Properties. <i>Journal of Organic Chemistry</i> , 2007, 72, 5291-5296.	3.2	22
36	Regioselective Approach to Phosphatidylinositol 3,5-Bisphosphates: Syntheses of the Native Phospholipid and Biotinylated Short-Chain Derivative. <i>Journal of Organic Chemistry</i> , 2010, 75, 3541-3551.	3.2	21

#	ARTICLE	IF	CITATIONS
37	The Rapid and Facile Synthesis of Oxyamine Linkers for the Preparation of Hydrolytically Stable Glycoconjugates. <i>Organic Letters</i> , 2015, 17, 624-627.	4.6	21
38	Chemical Synthesis and Immunosuppressive Activity of Dipalmitoyl Phosphatidylinositol Hexamannoside. <i>Journal of Organic Chemistry</i> , 2011, 76, 4941-4951.	3.2	19
39	Activated NKT Cells Can Condition Different Splenic Dendritic Cell Subsets To Respond More Effectively to TLR Engagement and Enhance Cross-Priming. <i>Journal of Immunology</i> , 2015, 195, 821-831.	0.8	18
40	The synthesis and immune stimulating action of mannose-capped lysine-based dendrimers. <i>Tetrahedron</i> , 2009, 65, 2939-2950.	1.9	17
41	Synthesis and Toll-like Receptor 4 (TLR4) Activity of Phosphatidylinositol Dimannoside Analogues. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 7268-7279.	6.4	17
42	Synthesis and Mass Spectral Characterization of Mycobacterial Phosphatidylinositol and Its Dimannosides. <i>Journal of Organic Chemistry</i> , 2012, 77, 6743-6759.	3.2	17
43	Conformation inversion of an inositol derivative by use of silyl ethers: a modified route to 3,6-di-O-substituted-l-ido-tetrahydroxyazepane derivatives. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1007.	2.8	13
44	Mānuka honey-derived methylglyoxal enhances microbial sensing by mucosal-associated invariant T cells. <i>Food and Function</i> , 2020, 11, 5782-5787.	4.6	12
45	Using agonists for iNKT cells in cancer therapy. <i>Molecular Immunology</i> , 2021, 130, 1-6.	2.2	12
46	Glycolipid-peptide conjugate vaccines elicit CD8 ⁺ T cell responses and prevent breast cancer metastasis. <i>Clinical and Translational Immunology</i> , 2022, 11, .	3.8	12
47	A PIM2 analogue suppresses allergic airway disease. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 917-925.	3.0	11
48	The Dimethoxyphenylbenzyl Protecting Group: An Alternative to the <i>p</i> -Methoxybenzyl Group for Protection of Carbohydrates. <i>Journal of Organic Chemistry</i> , 2013, 78, 5264-5272.	3.2	11
49	Enhancing T cell responses and tumour immunity by vaccination with peptides conjugated to a weak NKT cell agonist. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1225-1237.	2.8	10
50	Vaccines adjuvanted with an NKT cell agonist induce effective T-cell responses in models of CNS lymphoma. <i>Immunotherapy</i> , 2020, 12, 395-406.	2.0	10
51	MR1-dependent immune surveillance of the skin contributes to pathogenesis and is a photobiological target of UV light therapy in a mouse model of atopic dermatitis. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 3155-3170.	5.7	10
52	Distinct Dysfunctional States of Circulating Innate-Like T Cells in Metabolic Disease. <i>Frontiers in Immunology</i> , 2020, 11, 448.	4.8	9
53	6 ³ -Modified Î±-GalCer-peptide conjugate vaccine candidates protect against liver-stage malaria. <i>RSC Chemical Biology</i> , 2022, 3, 551-560.	4.1	7
54	Intratumoural administration of an NKT cell agonist with CpG promotes NKT cell infiltration associated with an enhanced antitumour response and abscopal effect. <i>Oncolmunology</i> , 2022, 11, .	4.6	7

#	ARTICLE	IF	CITATIONS
55	Using Full-Spectrum Flow Cytometry to Phenotype Memory T and NKT Cell Subsets with Optimized Tissue-Specific Preparation Protocols. <i>Current Protocols</i> , 2022, 2, .	2.9	7
56	Physicochemical and Biological Characterization of Synthetic Phosphatidylinositol Dimannosides and Analogues. <i>Molecular Pharmaceutics</i> , 2013, 10, 1928-1939.	4.6	6
57	Resolution of Orthogonally Protected <i>myo</i> -Inositols with Novozym 435 Providing an Enantioconvergent Pathway to Ac ₂ PIM ₁ . <i>Journal of Organic Chemistry</i> , 2014, 79, 10916-10931.	3.2	6
58	Total synthesis of LewisX using a late-stage crystalline intermediate. <i>Carbohydrate Research</i> , 2015, 414, 1-7.	2.3	6
59	Influence of Albumin in the Microfluidic Synthesis of PEG-PLGA Nanoparticles. <i>Pharmaceutical Nanotechnology</i> , 2019, 7, 460-468.	1.5	6
60	Structure-Function Implications of the Ability of Monoclonal Antibodies Against Î±-Galactosylceramide-CD1d Complex to Recognize Î²-Mannosylceramide Presentation by CD1d. <i>Frontiers in Immunology</i> , 2019, 10, 2355.	4.8	5
61	The modular synthesis of multivalent functionalised glycodendrons for the detection of lectins including DC-SIGN. <i>RSC Advances</i> , 2017, 7, 45260-45268.	3.6	4
62	Synthetic preparation and immunological evaluation of Î²-mannosylceramide and related N-acyl analogues. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2739-2746.	2.8	2
63	Increased Efficacy of NKT Cell-Adjuvanted Peptide Vaccines Through Chemical Conjugation. , 2018, , 309-335.		1
64	Isolation and Synthesis of Glycophospholipids from the extremophile <i>Chthonomonas calidirosea</i> . <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1802-1814.	2.7	1
65	Data on the uptake of CpG-loaded amino-dextran nanoparticles by antigen-presenting cells. <i>Data in Brief</i> , 2021, 35, 106883.	1.0	1
66	2-Benzyl- <i>myo</i> -inositol monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o2782-o2782.	0.2	0