

Ian F Hermans

List of Publications by Year in descending order

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94
papers

4,221
citations

117571

34
h-index

118793

62
g-index

100
all docs

100
docs citations

100
times ranked

5448
citing authors

#	ARTICLE	IF	CITATIONS
1	NKT Cells Enhance CD4+ and CD8+ T Cell Responses to Soluble Antigen In Vivo through Direct Interaction with Dendritic Cells. <i>Journal of Immunology</i> , 2003, 171, 5140-5147.	0.4	445
2	CD8+ T Cell-Dependent Elimination of Dendritic Cells In Vivo Limits the Induction of Antitumor Immunity. <i>Journal of Immunology</i> , 2000, 164, 3095-3101.	0.4	208
3	Dendritic cells: a journey from laboratory to clinic. <i>Nature Immunology</i> , 2004, 5, 7-10.	7.0	194
4	CpG-matured Murine Plasmacytoid Dendritic Cells Are Capable of In Vivo Priming of Functional CD8 T Cell Responses to Endogenous but Not Exogenous Antigens. <i>Journal of Experimental Medicine</i> , 2004, 199, 567-579.	4.2	171
5	The VITAL assay: a versatile fluorometric technique for assessing CTL- and NKT-mediated cytotoxicity against multiple targets in vitro and in vivo. <i>Journal of Immunological Methods</i> , 2004, 285, 25-40.	0.6	156
6	Utilizing the adjuvant properties of CD1d-dependent NK T cells in T cell-mediated immunotherapy. <i>Journal of Clinical Investigation</i> , 2004, 114, 1800-1811.	3.9	150
7	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4206-4209.	7.2	148
8	Competition Between CTL Narrows the Immune Response Induced by Prime-Boost Vaccination Protocols. <i>Journal of Immunology</i> , 2002, 168, 4391-4398.	0.4	145
9	Perforin-dependent elimination of dendritic cells regulates the expansion of antigen-specific CD8+ T cells in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 147-152.	3.3	121
10	Synergistic effect of metronomic dosing of cyclophosphamide combined with specific antitumor immunotherapy in a murine melanoma model. <i>Cancer Research</i> , 2003, 63, 8408-13.	0.4	107
11	Side Population is Not Necessary or Sufficient for a Cancer Stem Cell Phenotype in Glioblastoma Multiforme. <i>Stem Cells</i> , 2011, 29, 452-461.	1.4	97
12	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.	0.4	96
13	Tumor Immunotherapy by Epicutaneous Immunization Requires Langerhans Cells. <i>Journal of Immunology</i> , 2008, 180, 1991-1998.	0.4	88
14	High Avidity Antigen-Specific CTL Identified by CD8-Independent Tetramer Staining. <i>Journal of Immunology</i> , 2003, 171, 5116-5123.	0.4	85
15	Langerin+CD8 ⁺ Dendritic Cells Are Critical for Cross-Priming and IL-12 Production in Response to Systemic Antigens. <i>Journal of Immunology</i> , 2009, 183, 7732-7742.	0.4	84
16	Dendritic Cell Function Can Be Modulated through Cooperative Actions of TLR Ligands and Invariant NKT Cells. <i>Journal of Immunology</i> , 2007, 178, 2721-2729.	0.4	82
17	Utilizing the adjuvant properties of CD1d-dependent NK T cells in T cell-mediated immunotherapy. <i>Journal of Clinical Investigation</i> , 2004, 114, 1800-1811.	3.9	77
18	A self-adjuvanting vaccine induces cytotoxic T lymphocytes that suppress allergy. <i>Nature Chemical Biology</i> , 2014, 10, 943-949.	3.9	70

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19	Killing of Dendritic Cells. <i>Journal of Experimental Medicine</i> , 2001, 194, F23-F26.	4.2	67
20	Cytotoxic T Lymphocyte-associated Antigen 4 (CTLA-4) Can Regulate Dendritic Cell-induced Activation and Cytotoxicity of CD8+ T Cells Independently of CD4+T Cell Help. <i>Journal of Experimental Medicine</i> , 1999, 189, 1157-1162.	4.2	64
21	NKT cell-dependent glycolipid-peptide vaccines with potent anti-tumour activity. <i>Chemical Science</i> , 2015, 6, 5120-5127.	3.7	64
22	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. <i>Chemical Communications</i> , 2011, 47, 9221.	2.2	58
23	Dendritic cell vaccination combined with temozolomide retreatment: results of a phase I trial in patients with recurrent glioblastoma multiforme. <i>Journal of Neuro-Oncology</i> , 2015, 121, 319-329.	1.4	52
24	Tumor Antigen Presentation by Dendritic Cells. <i>Critical Reviews in Immunology</i> , 2010, 30, 345-386.	1.0	51
25	Dendritic cell elimination as an assay of cytotoxic T lymphocyte activity in vivo. <i>Journal of Immunological Methods</i> , 2000, 246, 109-117.	0.6	50
26	A phase I vaccination study with dendritic cells loaded with NY-ESO-1 and α -galactosylceramide: induction of polyfunctional T cells in high-risk melanoma patients. <i>Cancer Immunology, Immunotherapy</i> , 2018, 67, 285-298.	2.0	49
27	Novel synthesis of α -galactosyl-ceramides and confirmation of their powerful NKT cell agonist activity. <i>Carbohydrate Research</i> , 2006, 341, 2785-2798.	1.1	48
28	Vaccination with Irradiated Tumor Cells Pulsed with an Adjuvant That Stimulates NKT Cells Is an Effective Treatment for Glioma. <i>Clinical Cancer Research</i> , 2012, 18, 6446-6459.	3.2	47
29	Tumour Hypoxia-Mediated Immunosuppression: Mechanisms and Therapeutic Approaches to Improve Cancer Immunotherapy. <i>Cells</i> , 2021, 10, 1006.	1.8	45
30	Tumor-peptide-pulsed dendritic cells isolated from spleen or cultured in vitro from bone marrow precursors can provide protection against tumor challenge. <i>Cancer Immunology, Immunotherapy</i> , 1997, 44, 341-347.	2.0	44
31	Glycolipid-peptide vaccination induces liver-resident memory CD8 ⁺ T cells that protect against rodent malaria. <i>Science Immunology</i> , 2020, 5, .	5.6	43
32	MIS416, a non-toxic microparticle adjuvant derived from <i>Propionibacterium acnes</i> comprising immunostimulatory muramyl dipeptide and bacterial DNA promotes cross-priming and Th1 immunity. <i>Vaccine</i> , 2011, 29, 545-557.	1.7	41
33	Enhanced immunosuppression by therapy-exposed glioblastoma multiforme tumor cells. <i>International Journal of Cancer</i> , 2015, 136, 2566-2578.	2.3	38
34	Targeting Antigen to MHC Class II Molecules Promotes Efficient Cross-Presentation and Enhances Immunotherapy. <i>Journal of Immunology</i> , 2009, 182, 1260-1269.	0.4	37
35	Synthesis and Stability of Highly Crystalline and Stable Iron/Iron Oxide Core/Shell Nanoparticles for Biomedical Applications. <i>ChemPlusChem</i> , 2012, 77, 135-140.	1.3	37
36	Virus-like particles and α -galactosylceramide form a self-adjuvanting composite particle that elicits anti-tumor responses. <i>Journal of Controlled Release</i> , 2012, 159, 338-345.	4.8	34

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37	Potent anti-tumor responses to immunization with dendritic cells loaded with tumor tissue and an NKT cell ligand. <i>Immunology and Cell Biology</i> , 2010, 88, 596-604.	1.0	33
38	Functional invariant natural killer T-cell and CD1d axis in chronic lymphocytic leukemia: implications for immunotherapy. <i>Haematologica</i> , 2013, 98, 376-384.	1.7	32
39	Synthesis and Activity of 6-Deoxy-6-thio- β -GalCer and Peptide Conjugates. <i>Organic Letters</i> , 2015, 17, 5954-5957.	2.4	32
40	Exploiting the Role of Endogenous Lymphoid-Resident Dendritic Cells in the Priming of NKT Cells and CD8+ T Cells to Dendritic Cell-Based Vaccines. <i>PLoS ONE</i> , 2011, 6, e17657.	1.1	30
41	An improved synthesis of dansylated β -galactosylceramide and its use as a fluorescent probe for the monitoring of glycolipid uptake by cells. <i>Carbohydrate Research</i> , 2011, 346, 914-926.	1.1	29
42	Engaging Natural Killer T Cells as "Universal Helpers"™ for Vaccination. <i>Drugs</i> , 2017, 77, 1-15.	4.9	29
43	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.	1.6	27
44	High-Dimensional Data Analysis Algorithms Yield Comparable Results for Mass Cytometry and Spectral Flow Cytometry Data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 824-831.	1.1	27
45	Third-generation anti-CD19 chimeric antigen receptor T-cells incorporating a TLR2 domain for relapsed or refractory B-cell lymphoma: a phase I clinical trial protocol (ENABLE). <i>BMJ Open</i> , 2020, 10, e034629.	0.8	26
46	Species-Specific Activity of Glycolipid Ligands for Invariant NKT Cells. <i>ChemBioChem</i> , 2012, 13, 1349-1356.	1.3	25
47	High-dimensional analysis of intestinal immune cells during helminth infection. <i>ELife</i> , 2020, 9, .	2.8	25
48	An autologous leukemia cell vaccine prevents murine acute leukemia relapse after cytarabine treatment. <i>Blood</i> , 2014, 124, 2953-2963.	0.6	24
49	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.	1.6	24
50	Blocking CTLA-4 while priming with a whole cell vaccine reshapes the oligoclonal T cell infiltrate and eradicates tumors in an orthotopic glioma model. <i>Oncolmmunology</i> , 2018, 7, e1376154.	2.1	22
51	Dendritic Cells Treated with Lipopolysaccharide Up-Regulate Serine Protease Inhibitor 6 and Remain Sensitive to Killing by Cytotoxic T Lymphocytes In Vivo. <i>Journal of Immunology</i> , 2008, 181, 8356-8362.	0.4	19
52	Exploiting invariant NKT cells to promote T-cell responses to cancer vaccines. <i>Oncolmmunology</i> , 2013, 2, e23789.	2.1	18
53	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.	0.4	18
54	Stability of polyelectrolyte-coated iron nanoparticles for T ₂ -weighted magnetic resonance imaging. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 251-258.	1.0	18

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55	Effects of treatment changes on asthma phenotype prevalence and airway neutrophil function. <i>BMC Pulmonary Medicine</i> , 2017, 17, 169.	0.8	18
56	Invariant natural killer T cells and asthma: Immunologic reality or methodologic artifact?. <i>Journal of Allergy and Clinical Immunology</i> , 2010, 126, 882-885.	1.5	17
57	Immature murine NKT cells pass through a stage of developmentally programmed innate IL-4 secretion. <i>Journal of Leukocyte Biology</i> , 2012, 92, 999-1009.	1.5	17
58	Using Magnetic Resonance Imaging to Evaluate Dendritic Cell-Based Vaccination. <i>PLoS ONE</i> , 2013, 8, e65318.	1.1	17
59	Glycolipids Injected into the Skin Are Presented to NKT Cells in the Draining Lymph Node Independently of Migratory Skin Dendritic Cells. <i>Journal of Immunology</i> , 2009, 182, 7644-7654.	0.4	16
60	Identifying leukocyte populations in fresh and cryopreserved sputum using flow cytometry. <i>Cytometry Part B - Clinical Cytometry</i> , 2013, 84B, 104-113.	0.7	16
61	Batf3-independent langerin ⁺ CX3CR1 ⁺ CD8 ⁺ splenic DCs represent a precursor for classical cross-presenting CD8 ⁺ DCs. <i>Journal of Leukocyte Biology</i> , 2014, 96, 1001-1010.	1.5	15
62	Modulating the Tumour Microenvironment by Intratumoural Injection of Pattern Recognition Receptor Agonists. <i>Cancers</i> , 2020, 12, 3824.	1.7	14
63	Determining mean fractional anisotropy using DDCOSY: preliminary results in biological tissues. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 498-507.	1.1	13
64	5,6-Dimethylxanthenone-4-acetic acid treatment of a non-immunogenic tumour does not synergize with active or passive CD8 + T cell immunotherapy. <i>Immunology and Cell Biology</i> , 2006, 84, 383-389.	1.0	12
65	Increasing the Survival of Dendritic Cells In Vivo Does Not Replace the Requirement for CD4+ T Cell Help during Primary CD8+ T Cell Responses. <i>Journal of Immunology</i> , 2007, 179, 5738-5747.	0.4	12
66	Strongly Magnetic Iron Nanoparticles Improve the Diagnosis of Small Tumours in the Reticuloendothelial System by Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e56572.	1.1	12
67	Mānuka honey-derived methylglyoxal enhances microbial sensing by mucosal-associated invariant T cells. <i>Food and Function</i> , 2020, 11, 5782-5787.	2.1	12
68	Using agonists for iNKT cells in cancer therapy. <i>Molecular Immunology</i> , 2021, 130, 1-6.	1.0	12
69	Glycolipid-peptide conjugate vaccines elicit CD8 ⁺ T cell responses and prevent breast cancer metastasis. <i>Clinical and Translational Immunology</i> , 2022, 11, .	1.7	12
70	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.	1.5	10
71	Vaccines adjuvanted with an NKT cell agonist induce effective T-cell responses in models of CNS lymphoma. <i>Immunotherapy</i> , 2020, 12, 395-406.	1.0	10
72	MRI-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.	2.7	10

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73	Sustained in vivo depletion of splenic langerin+ CD8 ⁺ dendritic cells is well-tolerated by lang-DTREGFP mice. <i>Journal of Immunological Methods</i> , 2014, 406, 104-109.	0.6	9
74	Distinct Dysfunctional States of Circulating Innate-Like T Cells in Metabolic Disease. <i>Frontiers in Immunology</i> , 2020, 11, 448.	2.2	9
75	Autologous dendritic cells pulsed with eluted peptide as immunotherapy for advanced B-cell malignancies. <i>Leukemia and Lymphoma</i> , 2006, 47, 675-682.	0.6	8
76	Administration of β -galactosylceramide impairs the survival of dendritic cell subpopulations in vivo. <i>Journal of Leukocyte Biology</i> , 2011, 89, 753-762.	1.5	8
77	Langerin+ CD8 ⁺ Dendritic Cells Drive Early CD8+ T Cell Activation and IL-12 Production During Systemic Bacterial Infection. <i>Frontiers in Immunology</i> , 2018, 9, 953.	2.2	7
78	Mucosal-Associated Invariant T (MAIT) Cell Dysfunction and PD-1 Expression in Prostate Cancer: Implications for Immunotherapy. <i>Frontiers in Immunology</i> , 2021, 12, 748741.	2.2	7
79	ϵ^3 -Modified β -GalCer-peptide conjugate vaccine candidates protect against liver-stage malaria. <i>RSC Chemical Biology</i> , 2022, 3, 551-560.	2.0	7
80	Intratumoural administration of an NKT cell agonist with CpG promotes NKT cell infiltration associated with an enhanced antitumour response and abscopal effect. <i>Oncolimmunology</i> , 2022, 11, .	2.1	7
81	Splenic Dendritic Cells Involved in Cross-Tolerance of Tumor Antigens Can Play a Stimulatory Role in Adoptive T-Cell Therapy. <i>Journal of Immunotherapy</i> , 2015, 38, 321-329.	1.2	6
82	Poly Ethoxy Ethyl Glycinamide (PEE ⁺ G) Dendrimers: Dendrimers Specifically Designed for Pharmaceutical Applications. <i>ChemMedChem</i> , 2016, 11, 1583-1586.	1.6	6
83	The control of CD8+T cell responses is preserved in perforin-deficient mice and released by depletion of CD4+CD25+regulatory T cells. <i>Journal of Leukocyte Biology</i> , 2013, 94, 825-833.	1.5	4
84	The Synthesis and Anti-tumour Properties of Poly Ethoxy Ethyl Glycinamide (PEE ⁺ G) Scaffolds with Multiple PD-1 Peptides Attached. <i>ChemMedChem</i> , 2020, 15, 1128-1138.	1.6	4
85	Whole tumor cell vaccines for glioma immunotherapy. <i>Immunotherapy</i> , 2016, 8, 387-389.	1.0	3
86	Local and global anisotropy - recent re-implementation of 2D ILT diffusion methods. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 71-74.	2.2	3
87	Harnessing NKT cells for vaccination. <i>Oxford Open Immunology</i> , 2021, 2, .	1.2	3
88	Expression of CD1a and Type-1 Polarization Are Dissociated in Human Monocyte-Derived Dendritic Cells. <i>PLoS ONE</i> , 2015, 10, e0140432.	1.1	2
89	Tumour infiltrating lymphocyte density differs by meningioma type and is associated with prognosis in atypical meningioma. <i>Pathology</i> , 2022, , .	0.3	2
90	An adjuvanted whole cell vaccine as post-remission immunotherapy for acute leukemia. <i>Oncolimmunology</i> , 2015, 4, e995568.	2.1	1

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91	Increased Efficacy of NKT Cell-Adjuvanted Peptide Vaccines Through Chemical Conjugation. , 2018, , 309-335.		1
92	Back Cover: Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging (Angew. Chem. 18/2011). Angewandte Chemie, 2011, 123, 4110-4110.	1.6	0
93	Back Cover: Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging (Angew. Chem. Int. Ed. 18/2011). Angewandte Chemie - International Edition, 2011, 50, 4024-4024.	7.2	0
94	Efficient depletion of chronic lymphocytic leukemia B cells using serial rounds of immunomagnetic depletion. Journal of Immunological Methods, 2013, 396, 152-156.	0.6	0