

Kalet Leon

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

960
citations

430874

18
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

1110
citing authors

#	ARTICLE	IF	CITATIONS
1	Human IL-2 Mutein with Higher Antitumor Efficacy Than Wild Type IL-2. <i>Journal of Immunology</i> , 2013, 190, 6230-6238.	0.8	104
2	Modelling T-cell-Mediated Suppression Dependent on Interactions in Multicellular Conjugates. <i>Journal of Theoretical Biology</i> , 2000, 207, 231-254.	1.7	66
3	When three is not a crowd: a Crossregulation Model of the dynamics and repertoire selection of regulatory CD4 ⁺ T cells. <i>Immunological Reviews</i> , 2007, 216, 48-68.	6.0	63
4	Tolerance and immunity in a mathematical model of T-cell mediated suppression. <i>Journal of Theoretical Biology</i> , 2003, 225, 107-126.	1.7	57
5	SARS-CoV-2 RBD-Tetanus Toxoid Conjugate Vaccine Induces a Strong Neutralizing Immunity in Preclinical Studies. <i>ACS Chemical Biology</i> , 2021, 16, 1223-1233.	3.4	57
6	Immunological self-tolerance: Lessons from mathematical modeling. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 77-100.	2.0	55
7	A general mathematical framework to model generation structure in a population of asynchronously dividing cells. <i>Journal of Theoretical Biology</i> , 2004, 229, 455-476.	1.7	54
8	Molecular Aspects Concerning the Use of the SARS-CoV-2 Receptor Binding Domain as a Target for Preventive Vaccines. <i>ACS Central Science</i> , 2021, 7, 757-767.	11.3	46
9	Blocking IL-2 Signal In Vivo with an IL-2 Antagonist Reduces Tumor Growth through the Control of Regulatory T Cells. <i>Journal of Immunology</i> , 2018, 200, 3475-3484.	0.8	35
10	Inverse correlation between the incidences of autoimmune disease and infection predicted by a model of T cell mediated tolerance. <i>Journal of Autoimmunity</i> , 2004, 22, 31-42.	6.5	34
11	How regulatory CD25 ⁺ CD4 ⁺ T cells impinge on tumor immunobiology? On the existence of two alternative dynamical classes of tumors. <i>Journal of Theoretical Biology</i> , 2007, 247, 122-137.	1.7	32
12	How Regulatory CD25 ⁺ CD4 ⁺ T Cells Impinge on Tumor Immunobiology: The Differential Response of Tumors to Therapies. <i>Journal of Immunology</i> , 2007, 179, 5659-5668.	0.8	29
13	Three-Cell Interactions in T Cell-Mediated Suppression? A Mathematical Analysis of Its Quantitative Implications. <i>Journal of Immunology</i> , 2001, 166, 5356-5365.	0.8	27
14	Autoimmunization to Epidermal Growth Factor, a component of the immunological homunculus. <i>Autoimmunity Reviews</i> , 2002, 1, 89-95.	5.8	27
15	Therapeutic Approaches to Target Cancer Stem Cells. <i>Cancers</i> , 2011, 3, 3331-3352.	3.7	24
16	Deciphering the molecular bases of the biological effects of antibodies against Interleukin-2: A versatile platform for fine epitope mapping. <i>Immunobiology</i> , 2013, 218, 105-113.	1.9	23
17	Characterizing steady states of genome-scale metabolic networks in continuous cell cultures. <i>PLoS Computational Biology</i> , 2017, 13, e1005835.	3.2	22
18	Use of a Humanized Anti-CD6 Monoclonal Antibody (Itoлизumab) in Elderly Patients with Moderate COVID-19. <i>Gerontology</i> , 2020, 66, 553-561.	2.8	20

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19	Computational proteomics pitfalls and challenges: HavanaBioinfo 2012 Workshop report. <i>Journal of Proteomics</i> , 2013, 87, 134-138.	2.4	19
20	Geometric and chemical patterns of interaction in protein-ligand complexes and their application in docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 47, 1-13.	2.6	17
21	Modeling the role of IL2 in the interplay between CD4+ helper and regulatory T cells: studying the impact of IL2 modulation therapies. <i>International Immunology</i> , 2012, 24, 427-446.	4.0	17
22	Modeling the role of IL-2 in the interplay between CD4+ helper and regulatory T cells: Assessing general dynamical properties. <i>Journal of Theoretical Biology</i> , 2010, 262, 720-732.	1.7	14
23	Directed evolution of super-secreted variants from phage-displayed human Interleukin-2. <i>Scientific Reports</i> , 2019, 9, 800.	3.3	14
24	Mathematical Models of the Impact of IL2 Modulation Therapies on T Cell Dynamics. <i>Frontiers in Immunology</i> , 2013, 4, 439.	4.8	13
25	In silico media optimization for continuous cultures using genome scale metabolic networks: The case of CHO-K1. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1884-1897.	3.3	12
26	Natural and Induced Tolerance in an Immune Network Model. <i>Journal of Theoretical Biology</i> , 1998, 193, 519-534.	1.7	10
27	Concomitant combination of active immunotherapy and carboplatin- or paclitaxel-based chemotherapy improves anti-tumor response. <i>Cancer Immunology, Immunotherapy</i> , 2013, 62, 455-469.	4.2	10
28	Modulation of CD4 T cell function via CD6-targeting. <i>EBioMedicine</i> , 2019, 47, 427-435.	6.1	9
29	An anti-CD6 antibody for the treatment of COVID-19 patients with cytokine-release syndrome: report of three cases. <i>Immunotherapy</i> , 2021, 13, 289-295.	2.0	9
30	Molecular dissection of the interactions of an antitumor interleukin-2 derived mutein on a phage display-based platform. <i>Journal of Molecular Recognition</i> , 2015, 28, 261-268.	2.1	7
31	An enzyme immunoassay for determining epidermal growth factor (EGF) in human serum samples using an ultramicroanalytical system. <i>Journal of Immunoassay and Immunochemistry</i> , 2017, 38, 190-201.	1.1	7
32	Exploring the conformational dynamics of PD1 in complex with different ligands: What we can learn for designing novel PD1 signaling blockers?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 141-148.	2.6	5
33	Combining computational and experimental biology to develop therapeutically valuable IL2 muteins. <i>Seminars in Oncology</i> , 2018, 45, 95-104.	2.2	4
34	Quantitative Contribution of IL2R β to the Dynamic Formation of IL2-IL2R Complexes. <i>PLoS ONE</i> , 2016, 11, e0155684.	2.5	4
35	Geometric and chemical patterns of interaction in protein-ligand complexes and their application in docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 47, 1-13.	2.6	4
36	Stochastic approximation to the T cell mediated specific response of the immune system. <i>Journal of Theoretical Biology</i> , 2012, 295, 37-46.	1.7	3

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37	Differential Effects of IL2R $\hat{\pm}$ and IL15R $\hat{\pm}$ over the Stability of the Common Beta-Gamma Signaling Subunits of the IL2 and IL15 Receptors. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1913-1920.	5.4	3
38	A rationally-engineered IL-2 improves the antitumor effect of anti-CD20 therapy. <i>Oncolmmunology</i> , 2020, 9, 1770565.	4.6	2
39	Quantitative assessment of extracellular IL-1 regulation. <i>Journal of Theoretical Biology</i> , 2020, 487, 110113.	1.7	1
40	Unraveling a Conserved Conformation of the FG Loop upon the Binding of Natural Ligands to the Human and Murine PD1. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1441-1446.	2.6	1
41	Mathematical Models of the Role of IL-2 in the Interactions Between Helper and Regulatory CD4+ T Cells. , 2011, , 305-337.		0