

Brian J Sutton

List of Publications by Year in descending order

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73
papers

5,758
citations

87888

38
h-index

82547

72
g-index

74
all docs

74
docs citations

74
times ranked

6487
citing authors

#	ARTICLE	IF	CITATIONS
1	IgE in allergy and asthma today. <i>Nature Reviews Immunology</i> , 2008, 8, 205-217.	22.7	947
2	Regulation of Cutaneous Malignancy by $\hat{I}\hat{3}\hat{I}$ T Cells. <i>Science</i> , 2001, 294, 605-609.	12.6	895
3	The Biology of IgE and the Basis of Allergic Disease. <i>Annual Review of Immunology</i> , 2003, 21, 579-628.	21.8	576
4	Structure of human IgM rheumatoid factor Fab bound to its autoantigen IgG Fc reveals a novel topology of antibody-antigen interaction. <i>Nature Structural and Molecular Biology</i> , 1997, 4, 374-381.	8.2	200
5	The crystal structure of IgE Fc reveals an asymmetrically bent conformation. <i>Nature Immunology</i> , 2002, 3, 681-686.	14.5	152
6	The structure of human CD23 and its interactions with IgE and CD21. <i>Journal of Experimental Medicine</i> , 2005, 202, 751-760.	8.5	127
7	Complex between <i>Peptostreptococcus magnus</i> Protein L and a Human Antibody Reveals Structural Convergence in the Interaction Modes of Fab Binding Proteins. <i>Structure</i> , 2001, 9, 679-687.	3.3	121
8	Human IgG4: a structural perspective. <i>Immunological Reviews</i> , 2015, 268, 139-159.	6.0	119
9	Conformational changes in IgE contribute to its uniquely slow dissociation rate from receptor Fc \hat{E} RI. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 571-576.	8.2	105
10	Structural Determinants of Unique Properties of Human IgG4-Fc. <i>Journal of Molecular Biology</i> , 2014, 426, 630-644.	4.2	96
11	The structure and origin of rheumatoid factors. <i>Trends in Immunology</i> , 2000, 21, 177-183.	7.5	90
12	$\langle \text{scp} \rangle \text{IgY} \langle / \text{scp} \rangle$: a key isotype in antibody evolution. <i>Biological Reviews</i> , 2017, 92, 2144-2156.	10.4	87
13	Cleavage of the low-affinity receptor for human IgE (CD23) by a mite cysteine protease: Nature of the cleaved fragment in relation to the structure and function of CD23. <i>European Journal of Immunology</i> , 1997, 27, 584-588.	2.9	86
14	Structure and dynamics of IgE-receptor interactions: Fc $\hat{\mu}$ RI and $\langle \text{scp} \rangle \text{CD} \langle / \text{scp} \rangle 23/\text{Fc} \hat{\mu} \langle \text{scp} \rangle \text{RI} \langle / \text{scp} \rangle$. <i>Immunological Reviews</i> , 2015, 268, 222-235.	6.0	85
15	Crystal structure of IgE bound to its B-cell receptor CD23 reveals a mechanism of reciprocal allosteric inhibition with high affinity receptor Fc $\hat{\mu}$ RI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12686-12691.	7.1	82
16	Bent Domain Structure of Recombinant Human IgE-Fc in Solution by X-ray and Neutron Scattering in Conjunction with an Automated Curve Fitting Procedure. <i>Biochemistry</i> , 1995, 34, 14449-14461.	2.5	77
17	Dynamics of Inter-heavy Chain Interactions in Human Immunoglobulin G (IgG) Subclasses Studied by Kinetic Fab Arm Exchange. <i>Journal of Biological Chemistry</i> , 2014, 289, 6098-6109.	3.4	76
18	IgG4 Characteristics and Functions in Cancer Immunity. <i>Current Allergy and Asthma Reports</i> , 2016, 16, 7.	5.3	76

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19	The structure of the IgE Cepsilon2 domain and its role in stabilizing the complex with its high-affinity receptor FcepsilonR1alpha. <i>Nature Structural Biology</i> , 2001, 8, 437-441.	9.7	73
20	Participation of the N-Terminal Region of C1mu3 in the Binding of Human IgE to Its High-Affinity Receptor Fc1muR1a. <i>Biochemistry</i> , 1997, 36, 15568-15578.	2.5	71
21	Soluble CD23 Controls IgE Synthesis and Homeostasis in Human B Cells. <i>Journal of Immunology</i> , 2012, 188, 3199-3207.	0.8	67
22	Soluble CD23 Monomers Inhibit and Oligomers Stimulate IGE Synthesis in Human B Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 24083-24091.	3.4	66
23	Role of IgE receptors in IgE antibody-dependent cytotoxicity and phagocytosis of ovarian tumor cells by human monocytic cells. <i>Cancer Immunology, Immunotherapy</i> , 2007, 57, 247-263.	4.2	65
24	Interaction of the Low-Affinity Receptor CD23/Fc1muRIII Lectin Domain with the Fc1mu3a~4 Fragment of Human Immunoglobulin E. <i>Biochemistry</i> , 1997, 36, 2112-2122.	2.5	62
25	IgE Antibodies: From Structure to Function and Clinical Translation. <i>Antibodies</i> , 2019, 8, 19.	2.5	62
26	Endocytosis and recycling of the complex between CD23 and HLA-DR in human B cells. <i>Immunology</i> , 2001, 103, 319-331.	4.4	61
27	Biased use of VH5 IgE-positive B cells in the nasal mucosa in allergic rhinitis. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 116, 445-452.	2.9	61
28	Crystal Structure of a Human Autoimmune Complex between IgM Rheumatoid Factor RF61 and IgG1 Fc Reveals a Novel Epitope and Evidence for Affinity Maturation. <i>Journal of Molecular Biology</i> , 2007, 368, 1321-1331.	4.2	61
29	Allosteric mechanism of action of the therapeutic anti-IgE antibody omalizumab. <i>Journal of Biological Chemistry</i> , 2017, 292, 9975-9987.	3.4	61
30	The Crystal Structure of an Avian IgY-Fc Fragment Reveals Conservation with both Mammalian IgG and IgE. <i>Biochemistry</i> , 2009, 48, 558-562.	2.5	54
31	Human immunoglobulin E flexes between acutely bent and extended conformations. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 397-404.	8.2	52
32	Secretion of recombinant human IgE-Fc by mammalian cells and biological activity of glycosylation site mutants. <i>Protein Engineering, Design and Selection</i> , 1995, 8, 193-199.	2.1	51
33	The Allergic March from Staphylococcus aureus Superantigens to Immunoglobulin E. , 2007, 93, 106-136.		51
34	A Fluorescent Biosensor Reveals Conformational Changes in Human Immunoglobulin E Fc. <i>Journal of Biological Chemistry</i> , 2012, 287, 17459-17470.	3.4	49
35	Three-colour flow cytometric method to measure antibody-dependent tumour cell killing by cytotoxicity and phagocytosis. <i>Journal of Immunological Methods</i> , 2007, 323, 160-171.	1.4	45
36	Antibodies and superantibodies in patients with chronic rhinosinusitis with nasal polyps. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1195-1204.e11.	2.9	42

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37	Conformation of the Isolated C μ 3 Domain of IgE and Its Complex with the High-Affinity Receptor, Fc μ RI ϵ . <i>Biochemistry</i> , 2000, 39, 7406-7413.	2.5	40
38	Asp-120 Locates Zn ²⁺ for Optimal Metallo- β -lactamase Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 18276-18285.	3.4	40
39	Crystal structure of the human IgG4 CH3 dimer reveals the role of Arg409 in the mechanism of Fab-arm exchange. <i>Molecular Immunology</i> , 2013, 54, 1-7.	2.2	39
40	A Mass ϵ Spectrometry ϵ Based Modelling Workflow for Accurate Prediction of IgG Antibody Conformations in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17194-17199.	13.8	39
41	Crystal structure of deglycosylated human IgG4-Fc. <i>Molecular Immunology</i> , 2014, 62, 46-53.	2.2	35
42	Prediction of domain organisation and secondary structure of thyroid peroxidase, a human autoantigen involved in destructive thyroiditis. <i>FEBS Letters</i> , 1990, 266, 133-141.	2.8	33
43	Total synthesis of (\pm)-aspercyclide A and its C19 methyl ether. <i>Chemical Communications</i> , 2010, 46, 1824-1826.	4.1	31
44	Disulfide Linkage Controls the Affinity and Stoichiometry of IgE Fc μ 3 ϵ 4 Binding to Fc μ RI. <i>Journal of Biological Chemistry</i> , 2005, 280, 16808-16814.	3.4	30
45	Structure of a patient-derived antibody in complex with allergen reveals simultaneous conventional and superantigen-like recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8707-E8716.	7.1	29
46	Ca ²⁺ -dependent Structural Changes in the B-cell Receptor CD23 Increase Its Affinity for Human Immunoglobulin E. <i>Journal of Biological Chemistry</i> , 2013, 288, 21667-21677.	3.4	27
47	Mechanism of the Antigen-Independent Cytokinergic SPE-7 IgE Activation of Human Mast Cells in Vitro. <i>Scientific Reports</i> , 2015, 5, 9538.	3.3	27
48	The crystal structure of rabbit IgG-Fc. <i>Biochemical Journal</i> , 2009, 417, 77-83.	3.7	25
49	IgE binds asymmetrically to its B cell receptor CD23. <i>Scientific Reports</i> , 2017, 7, 45533.	3.3	25
50	Structural basis for selective inhibition of immunoglobulin E-receptor interactions by an anti-IgE antibody. <i>Scientific Reports</i> , 2018, 8, 11548.	3.3	22
51	Mapping of the CD23 Binding Site on Immunoglobulin E (IgE) and Allosteric Control of the IgE-Fc μ RI Interaction. <i>Journal of Biological Chemistry</i> , 2012, 287, 31457-31461.	3.4	21
52	Synthesis and Incorporation into Cyclic Peptides of Tolan Amino Acids and Their Hydrogenated Congeners: Construction of an Array of A ϵ B-loop Mimetics of the C μ 3 Domain of Human IgE. <i>Journal of Organic Chemistry</i> , 2012, 77, 3197-3214.	3.2	21
53	Analysis of the interaction between RGD-expressing adenovirus type 5 fiber knob domains and α _v β ₃ integrin reveals distinct binding profiles and intracellular trafficking. <i>Journal of General Virology</i> , 2006, 87, 2497-2505.	2.9	19
54	Mutations in an avian IgY-Fc fragment reveal the locations of monocyte Fc receptor binding sites. <i>Developmental and Comparative Immunology</i> , 2010, 34, 97-101.	2.3	18

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55	Antibody mimetics: promising complementary agents to animal-sourced antibodies. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 268-275.	9.0	18
56	Conformational plasticity at the IgE-binding site of the B-cell receptor CD23. <i>Molecular Immunology</i> , 2013, 56, 693-697.	2.2	16
57	The Structure of a Human Rheumatoid Factor Bound to IgG Fc. <i>Advances in Experimental Medicine and Biology</i> , 1998, 435, 41-50.	1.6	15
58	Crystal structures of murine and human Histamine-Releasing Factor (HRF/TCTP) and a model for HRF dimerisation in mast cell activation. <i>Molecular Immunology</i> , 2018, 93, 216-222.	2.2	15
59	IgE Trimers Drive SPE-7 Cytokinergic Activity. <i>Scientific Reports</i> , 2017, 7, 8164.	3.3	13
60	Interplay between Affinity and Valency in Effector Cell Degranulation: A Model System with Polcalcine Allergens and Human Patient-Derived IgE Antibodies. <i>Journal of Immunology</i> , 2019, 203, 1693-1700.	0.8	13
61	A range of C α -C β interdomain angles in IgE Fc accommodate binding to its receptor CD23. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 305-309.	0.8	12
62	Attenuation of IgE Affinity for Fc μ RI Radically Reduces the Allergic Response in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2008, 283, 29882-29887.	3.4	11
63	Identification of Amino Acid Residues in Human IgM Fc Receptor (Fc μ R) Critical for IgM Binding. <i>Frontiers in Immunology</i> , 2020, 11, 618327.	4.8	11
64	Synthesis of the C19 methyl ether of aspercyclide A via germyl-Stille macrocyclisation and ELISA evaluation of both enantiomers following optical resolution. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6814.	2.8	10
65	Thermal sensitivity and flexibility of the C μ 3 domains in immunoglobulin E. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1336-1347.	2.3	10
66	Differences between Human and Mouse IgM Fc Receptor (Fc μ R). <i>International Journal of Molecular Sciences</i> , 2021, 22, 7024.	4.1	9
67	Mapping of the binding site for Fc γ 4R in human IgM-Fc. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140266.	2.3	8
68	Room temperature structure of human IgG4-Fc from crystals analysed in situ. <i>Molecular Immunology</i> , 2017, 81, 85-91.	2.2	7
69	A Mass Spectrometry-Based Modelling Workflow for Accurate Prediction of IgG Antibody Conformations in the Gas Phase. <i>Angewandte Chemie</i> , 2018, 130, 17440-17445.	2.0	5
70	Engineering the Fab fragment of the anti-IgE omalizumab to prevent Fab crystallization and permit IgE-Fc complex crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 116-129.	0.8	5
71	The structure of PghL hydrolase bound to its substrate poly γ -glutamate. <i>FEBS Journal</i> , 2018, 285, 4575-4589.	4.7	2
72	Reviving lost binding sites: Exploring calcium-binding site transitions between human and murine CD23. <i>FEBS Open Bio</i> , 2021, 11, 1827-1840.	2.3	2

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73	Allergy's Achilles' heel?. Nature Chemical Biology, 2013, 9, 757-759.	8.0	1