

James M McDonnell

List of Publications by Year in descending order

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58
papers

3,054
citations

186265

28
h-index

161849

54
g-index

58
all docs

58
docs citations

58
times ranked

3940
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface plasmon resonance: towards an understanding of the mechanisms of biological molecular recognition. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 572-577.	6.1	410
2	Solution Structure of the Proapoptotic Molecule BID. <i>Cell</i> , 1999, 96, 625-634.	28.9	370
3	The CD46-Jagged1 interaction is critical for human TH1 immunity. <i>Nature Immunology</i> , 2012, 13, 1213-1221.	14.5	163
4	A rationally designed CD4 analogue inhibits experimental allergic encephalomyelitis. <i>Nature</i> , 1994, 368, 744-746.	27.8	153
5	Isoindolinone Inhibitors of the Murine Double Minute 2 (MDM2)-p53 Protein-Protein Interaction: Structure-Activity Studies Leading to Improved Potency. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 1233-1243.	6.4	130
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	Conformational changes in IgE contribute to its uniquely slow dissociation rate from receptor FcεRI. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 571-576.	8.2	105
8	Analysis of Chemical Shift Changes Reveals the Binding Modes of Isoindolinone Inhibitors of the MDM2-p53 Interaction. <i>Journal of the American Chemical Society</i> , 2008, 130, 16038-16044.	13.7	102
9	Crystal structure of IgE bound to its B-cell receptor CD23 reveals a mechanism of reciprocal allosteric inhibition with high affinity receptor FcμRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12686-12691.	7.1	82
10	Deep sequencing of HIV-1 reverse transcripts reveals the multifaceted antiviral functions of APOBEC3G. <i>Nature Microbiology</i> , 2018, 3, 220-233.	13.3	79
11	Allergen specificity of IgG4-expressing B cells in patients with grass pollen allergy undergoing immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 130, 663-670.e3.	2.9	77
12	The structure of the IgE Cepsilon2 domain and its role in stabilizing the complex with its high-affinity receptor FcepsilonRIalpha. <i>Nature Structural Biology</i> , 2001, 8, 437-441.	9.7	73
13	Participation of the N-Terminal Region of Cμ3 in the Binding of Human IgE to Its High-Affinity Receptor FcμRI. <i>Biochemistry</i> , 1997, 36, 15568-15578.	2.5	71
14	Identification of Contact Residues in the IgE Binding Site of Human FcμRI. <i>Biochemistry</i> , 1997, 36, 15579-15588.	2.5	67
15	Soluble CD23 Controls IgE Synthesis and Homeostasis in Human B Cells. <i>Journal of Immunology</i> , 2012, 188, 3199-3207.	0.8	67
16	Allosteric mechanism of action of the therapeutic anti-IgE antibody omalizumab. <i>Journal of Biological Chemistry</i> , 2017, 292, 9975-9987.	3.4	61
17	Structural and Functional Characterization of a Novel T Cell Receptor Co-regulatory Protein Complex, CD97-CD55. <i>Journal of Biological Chemistry</i> , 2007, 282, 22023-22032.	3.4	60
18	Human immunoglobulin E flexes between acutely bent and extended conformations. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 397-404.	8.2	52

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19	Solution structure and dynamics of the bioactive retroviral M domain from rous sarcoma virus. <i>Journal of Molecular Biology</i> , 1998, 279, 921-928.	4.2	45
20	Solution Structures of Fc μ RI $\hat{\pm}$ -Chain Mimics: A $\hat{\pm}$ -Hairpin Peptide and Its Retroenantiomer. <i>Journal of the American Chemical Society</i> , 1997, 119, 5321-5328.	13.7	44
21	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
22	Calreticulin Binding Affinity for Glycosylated Laminin. <i>Journal of Biological Chemistry</i> , 1996, 271, 7891-7894.	3.4	40
23	Conformation of the Isolated C μ 3 Domain of IgE and Its Complex with the High-Affinity Receptor, Fc μ RI $\hat{\pm}$. <i>Biochemistry</i> , 2000, 39, 7406-7413.	2.5	40
24	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
25	A Mass $\hat{\pm}$ Spectrometry $\hat{\pm}$ 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
26	Direct analysis of a GPCR-agonist interaction by surface plasmon resonance. <i>European Biophysics Journal</i> , 2006, 35, 709-712.	2.2	37
27	MDM2-p53 protein $\hat{\pm}$ protein interaction inhibitors: A-ring substituted isoindolinones. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5916-9.	2.2	36
28	Structural and Functional Studies on the N-terminal Domain of the Shigella Type III Secretion Protein MxiG. <i>Journal of Biological Chemistry</i> , 2011, 286, 30606-30614.	3.4	30
29	Inhibitors of MDM2 and MDMX: a structural perspective. <i>Future Medicinal Chemistry</i> , 2009, 1, 1075-1094.	2.3	29
30	Vitamin D (1,25(OH)2D3) induces $\hat{\pm}$ -1-antitrypsin synthesis by CD4+ T cells, which is required for 1,25(OH)2D3-driven IL-10. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 189, 1-9.	2.5	28
31	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
32	IgE binds asymmetrically to its B cell receptor CD23. <i>Scientific Reports</i> , 2017, 7, 45533.	3.3	25
33	The Key Role of Protein Flexibility in Modulating IgE Interactions. <i>Journal of Biological Chemistry</i> , 2005, 280, 2324-2330.	3.4	24
34	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
35	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
36	Cancer-Associated Glycoforms of Gelatinase B Exhibit a Decreased Level of Binding to Galectin-3 $\hat{\pm}$. <i>Biochemistry</i> , 2006, 45, 15249-15258.	2.5	20

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37	Basis of the Intrinsic Flexibility of the C μ 3 Domain of IgE. <i>Biochemistry</i> , 2011, 50, 4608-4614.	2.5	19
38	Conformational plasticity at the IgE-binding site of the B-cell receptor CD23. <i>Molecular Immunology</i> , 2013, 56, 693-697.	2.2	16
39	Understanding Small-Molecule Binding to MDM2: Insights into Structural Effects of Isoindolinone Inhibitors from NMR Spectroscopy. <i>Chemical Biology and Drug Design</i> , 2011, 77, 301-308.	3.2	15
40	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
41	IgE Trimers Drive SPE-7 Cytokinergic Activity. <i>Scientific Reports</i> , 2017, 7, 8164.	3.3	13
42	Interplay between Affinity and Valency in Effector Cell Degranulation: A Model System with Polcalcic Allergens and Human Patient-Derived IgE Antibodies. <i>Journal of Immunology</i> , 2019, 203, 1693-1700.	0.8	13
43	Nucleolin acts as the receptor for C1QTNF4 and supports C1QTNF4-mediated innate immunity modulation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100513.	3.4	13
44	Recombinant Complement Receptor 2 Radiolabeled with [99mTc(CO)3] ⁺ : A Potential New Radiopharmaceutical for Imaging Activated Complement. <i>PLoS ONE</i> , 2011, 6, e18275.	2.5	13
45	Rational design of a peptide analog of the L3T4 CDR3-like region. <i>ImmunoMethods</i> , 1992, 1, 33-39.	0.8	12
46	Mutagenesis Within Human Fc μ R1 \pm Differentially Affects Human and Murine IgE Binding. <i>Journal of Immunology</i> , 2002, 168, 1787-1795.	0.8	12
47	The intrinsic flexibility of IgE and its role in binding Fc ϵ RI. <i>Biomedicine and Pharmacotherapy</i> , 2007, 61, 61-67.	5.6	12
48	Rapid conjugation of antibodies to toxins to select candidates for the development of anticancer Antibody-Drug Conjugates (ADCs). <i>Scientific Reports</i> , 2020, 10, 8869.	3.3	11
49	Structural characterization of Ca ²⁺ /CaM in complex with the phosphorylase kinase PhK5 peptide. <i>FEBS Journal</i> , 2005, 272, 1511-1522.	4.7	10
50	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
51	NMR determination that an extended BH3 motif of pro-apoptotic BID is specifically bound to BCL-XL. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, S101-S107.	1.9	7
52	Using cryoprobes to decrease acquisition times of triple-resonance experiments used for protein resonance assignments. <i>Spectroscopy</i> , 2003, 17, 161-167.	0.8	6
53	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
54	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

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55	Catalytic folding of the C μ 3 domain by its high affinity receptor. FEBS Letters, 2006, 580, 2129-2134.	2.8	4
56	Development of a point-of-care test for the detection of MDMA in latent fingerprints using surface plasmon resonance and lateral flow technology. Drug Testing and Analysis, 2022, 14, 613-621.	2.6	3
57	Reviving lost binding sites: Exploring calcium-binding site transitions between human and murine CD23. FEBS Open Bio, 2021, 11, 1827-1840.	2.3	2
58	NMR backbone assignment of the C μ 4 domain of immunoglobulin E. Biomolecular NMR Assignments, 2020, 14, 151-155.	0.8	1