

Heimo Breiteneder

List of Publications by Year in descending order

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106
papers

6,953
citations

76326

40
h-index

60623

81
g-index

110
all docs

110
docs citations

110
times ranked

5796
citing authors

#	ARTICLE	IF	CITATIONS
1	A classification of plant food allergens†. <i>Journal of Allergy and Clinical Immunology</i> , 2004, 113, 821-830.	2.9	485
2	Allergens are distributed into few protein families and possess a restricted number of biochemical functions. <i>Journal of Allergy and Clinical Immunology</i> , 2008, 121, 847-852.e7.	2.9	429
3	Molecular properties of food allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 14-23.	2.9	298
4	Crystal Structure of a Hypoallergenic Isoform of the Major Birch Pollen Allergen Bet v 1 and its Likely Biological Function as a Plant Steroid Carrier. <i>Journal of Molecular Biology</i> , 2003, 325, 123-133.	4.2	270
5	Modulation of IgE reactivity of allergens by site-directed mutagenesis: potential use of hypoallergenic variants for immunotherapy. <i>FASEB Journal</i> , 1998, 12, 231-242.	0.5	257
6	Structural relatedness of plant food allergens with specific reference to cross-reactive allergens: An in silico analysis. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 163-170.	2.9	245
7	The Bet v 1 fold: an ancient, versatile scaffold for binding of large, hydrophobic ligands. <i>BMC Evolutionary Biology</i> , 2008, 8, 286.	3.2	237
8	Evolutionary biology of plant food allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 120, 518-525.	2.9	213
9	Molecular Characterization of Api g 1, the Major Allergen of Celery (<i>Apium graveolens</i>), and Its Immunological and Structural Relationships to a Group of 17 kDa Tree Pollen Allergens. <i>FEBS Journal</i> , 1995, 233, 484-489.	0.2	212
10	Advances in allergen-microarray technology for diagnosis and monitoring of allergy: The MeDALL allergen-chip. <i>Methods</i> , 2014, 66, 106-119.	3.8	210
11	Evolutionary distance from human homologs reflects allergenicity of animal food proteins. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 120, 1399-1405.	2.9	206
12	Four recombinant isoforms of <i>Cor a 1</i> , the major allergen of hazel pollen, show different IgE-binding properties. <i>FEBS Journal</i> , 1993, 212, 355-362.	0.2	186
13	Thaumatin-like proteins – a new family of pollen and fruit allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2004, 59, 479-481.	5.7	154
14	Quantitative IgE inhibition experiments with purified recombinant allergens indicate pollen-derived allergens as the sensitizing agents responsible for many forms of plant food allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2000, 105, 116-125.	2.9	149
15	Plant-based Heterologous Expression of Mal d 2, a Thaumatin-like Protein and Allergen of Apple (<i>Malus</i>) Tj ETQq1 1 0.784314 rgBT /Ole 721-730.	4.2	129
16	Biomarkers for diagnosis and prediction of therapy responses in allergic diseases and asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3039-3068.	5.7	127
17	Plant food allergens – structural and functional aspects of allergenicity. <i>Biotechnology Advances</i> , 2005, 23, 395-399.	11.7	119
18	Do lipids influence the allergic sensitization process?. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 521-529.	2.9	117

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19	Cross-reactive N-glycans of Api g 5, a high molecular weight glycoprotein allergen from celery, are required for immunoglobulin E binding and activation of effector cells from allergic patients. <i>FASEB Journal</i> , 2003, 17, 1697-1699.	0.5	106
20	IgE sensitization profiles toward green and gold kiwifruits differ among patients allergic to kiwifruit from 3 European countries. <i>Journal of Allergy and Clinical Immunology</i> , 2004, 114, 1169-1175.	2.9	100
21	Peanut allergens. <i>Molecular Immunology</i> , 2018, 100, 58-70.	2.2	100
22	Component-resolved diagnosis of kiwifruit allergy with purified natural and recombinant kiwifruit allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2010, 125, 687-694.e1.	2.9	95
23	A compendium answering 150 questions on COVID-19 and SARS-CoV-2. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 2503-2541.	5.7	95
24	Structural and Immunologic Characterization of Ara h 1, a Major Peanut Allergen. <i>Journal of Biological Chemistry</i> , 2011, 286, 39318-39327.	3.4	89
25	Hevâfbâf9, an enolase and a new cross-reactive allergen from <i>Hevea</i> latex and molds. <i>FEBS Journal</i> , 2000, 267, 7006-7014.	0.2	87
26	IgE cross-reactivity between the major peanut allergen Ara h 2 and the nonhomologous allergens Ara h 1 and Ara h 3. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 132, 118-124.e12.	2.9	85
27	Kiwifruit allergy across Europe: Clinical manifestation and IgE recognition patterns to kiwifruit allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 164-171.	2.9	82
28	BRCA1-related breast cancer in Austrian breast and ovarian cancer families: Specific BRCA1 mutations and pathological characteristics. , 1998, 77, 354-360.		81
29	COVID-19 pandemic: Practical considerations on the organization of an allergy clinic – An EAACI/ARIA Position Paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 648-676.	5.7	79
30	Effects of gastrointestinal digestion and heating on the allergenicity of the kiwi allergens Act d 1, actinidin, and Act d 2, a thaumatin-like protein. <i>Molecular Nutrition and Food Research</i> , 2008, 52, 1130-1139.	3.3	78
31	Cross-Reactivity of Peanut Allergens. <i>Current Allergy and Asthma Reports</i> , 2014, 14, 426.	5.3	78
32	Future research trends in understanding the mechanisms underlying allergic diseases for improved patient care. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2293-2311.	5.7	76
33	Crystal Structure of the Major Celery Allergen Api g 1: Molecular Analysis of Cross-reactivity. <i>Journal of Molecular Biology</i> , 2005, 351, 1101-1109.	4.2	75
34	Vaccines and allergic reactions: The past, the current COVID-19 pandemic, and future perspectives. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1640-1660.	5.7	72
35	Mutational Analysis of Amino Acid Positions Crucial for IgE-Binding Epitopes of the Major Apple (<i>Malus domestica</i>) Allergen, Mal d 1. <i>International Archives of Allergy and Immunology</i> , 2006, 139, 53-62.	2.1	69
36	Allergen mimotopes for 3-dimensional epitope search and induction of antibodies inhibiting human IgE. <i>FASEB Journal</i> , 2000, 14, 2177-2184.	0.5	65

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37	Peptide mimotopes displayed by phage inhibit antibody binding to Bet v 1, the major birch pollen allergen, and induce specific IgG response in mice. <i>FASEB Journal</i> , 1998, 12, 1635-1642.	0.5	63
38	Allergen mimotopes in food enhance type I allergic reactions in mice. <i>FASEB Journal</i> , 1999, 13, 1586-1592.	0.5	63
39	Nonspecific lipid-transfer proteins in plant foods and pollens: an important allergen class. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2005, 5, 275-279.	2.3	58
40	Expanding the allergen repertoire of salmon and catfish. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1443-1453.	5.7	46
41	Notch4 Signaling Induces a Mesenchymalâ€“Epithelialâ€“like Transition in Melanoma Cells to Suppress Malignant Behaviors. <i>Cancer Research</i> , 2016, 76, 1690-1697.	0.9	45
42	Recombinant Allergens in Structural Biology, Diagnosis, and Immunotherapy. <i>International Archives of Allergy and Immunology</i> , 2017, 172, 187-202.	2.1	44
43	Structural and bioinformatic analysis of the kiwifruit allergen Act d 11, a member of the family of ripening-related proteins. <i>Molecular Immunology</i> , 2013, 56, 794-803.	2.2	43
44	Pressureâ€“Temperature Stability, Ca ²⁺ Binding, and Pressureâ€“Temperature Phase Diagram of Cod Parvalbumin: Gad m 1. <i>Biochemistry</i> , 2012, 51, 5903-5911.	2.5	40
45	Patients Allergic to Fish Tolerate Ray Based on the Low Allergenicity of Its Parvalbumin. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 500-508.e11.	3.8	40
46	Structural bioinformatic approaches to understand cross-reactivity. <i>Molecular Nutrition and Food Research</i> , 2006, 50, 628-632.	3.3	39
47	Basophil activation test shows high accuracy in the diagnosis of peanut and tree nut allergy: The Markers of Nut Allergy Study. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1800-1812.	5.7	37
48	Allergens and their associated small molecule ligandsâ€“their dual role in sensitization. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 2367-2382.	5.7	36
49	Four Recombinant Isoforms of Cor a 1, the Major Allergen of Hazel Pollen, Show Different Reactivities with Allergen-specific T-lymphocyte Clones. <i>FEBS Journal</i> , 1994, 224, 717-722.	0.2	35
50	A mimotope defined by phage display inhibits IgE binding to the plant panallergen profilin. <i>European Journal of Immunology</i> , 1998, 28, 2921-2927.	2.9	32
51	Development of a novel Ara h 2 hypoallergen with no IgE binding or anaphylactogenic activity. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 229-238.	2.9	32
52	Physicochemical properties and thermal stability of Lep w 1, the major allergen of whiff. <i>Molecular Nutrition and Food Research</i> , 2010, 54, 861-869.	3.3	31
53	Chimeras of Bet v 1 and Api g 1 reveal heterogeneous IgE responses in patients with birch pollen allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 188-194.	2.9	29
54	Differential T-cell responses and allergen uptake after exposure of dendritic cells to the birch pollen allergens Bet v 1.0101, Bet v 1.0401 and Bet v 1.1001. <i>Immunobiology</i> , 2010, 215, 903-909.	1.9	28

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55	Component-Resolved IgE Profiles in Austrian Patients with a Convincing History of Peanut Allergy. <i>International Archives of Allergy and Immunology</i> , 2015, 166, 13-24.	2.1	28
56	Identification of Pru du 6 as a potential marker allergen for almond allergy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1463-1472.	5.7	27
57	Newly defined allergens in the WHO/IUIS Allergen Nomenclature Database during 01/2019-03/2021. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 3359-3373.	5.7	27
58	Mapping of conformational IgE epitopes of food allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 2107-2109.	5.7	26
59	Collagen – An Important Fish Allergen for Improved Diagnosis. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 3084-3092.e10.	3.8	26
60	Comparison of natural and recombinant forms of the major fish allergen parvalbumin from cod and carp. <i>Molecular Nutrition and Food Research</i> , 2008, 52 Suppl 2, S196-207.	3.3	25
61	Monitoring the epitope recognition profiles of IgE, IgG 1 , and IgG 4 during birch pollen immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 1600-1603.e1.	2.9	24
62	The functional biology of peanut allergens and possible links to their allergenicity. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 888-898.	5.7	24
63	Anti-Inflammatory Effects of the Chinese Herbal Formula Sini Tang in Myocardial Infarction Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-10.	1.2	22
64	Solution and high-pressure NMR studies of the structure, dynamics, and stability of the cross-reactive allergenic cod parvalbumin Gad m 1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3032-3042.	2.6	22
65	Critical and direct involvement of the CD23 stalk region in IgE binding. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 281-289.e5.	2.9	22
66	<i>Lactobacillus buchneri</i> S-layer as carrier for an Ara h 2-derived peptide for peanut allergen-specific immunotherapy. <i>Molecular Immunology</i> , 2017, 85, 81-88.	2.2	21
67	The WHO/IUIS Allergen Nomenclature. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 429-431.	5.7	20
68	Traditional Formula, Modern Application: Chinese Medicine Formula Sini Tang Improves Early Ventricular Remodeling and Cardiac Function after Myocardial Infarction in Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-10.	1.2	19
69	The Major Birch Pollen Allergen Bet v 1 Induces Different Responses in Dendritic Cells of Birch Pollen Allergic and Healthy Individuals. <i>PLoS ONE</i> , 2015, 10, e0117904.	2.5	19
70	Hypoxia increases the heterogeneity of melanoma cell populations and affects the response to vemurafenib. <i>Molecular Medicine Reports</i> , 2016, 13, 3281-3288.	2.4	18
71	Cross-reactivities of non-homologous allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1019-1022.	5.7	18
72	An Infrared Absorbance Sensor for the Detection of Melanoma in Skin Biopsies. <i>Sensors</i> , 2016, 16, 1659.	3.8	16

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73	Developing Therapies for Peanut Allergy. <i>International Archives of Allergy and Immunology</i> , 2014, 165, 179-194.	2.1	15
74	Allergen databases—A critical evaluation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2057-2060.	5.7	15
75	Anti-chondroitin sulfate proteoglycan 4-specific antibodies modify the effects of vemurafenib on melanoma cells differentially in normoxia and hypoxia. <i>International Journal of Oncology</i> , 2015, 47, 81-90.	3.3	14
76	A label-free indicator for tumor cells based on the CH2-stretch ratio. <i>Analyst</i> , The, 2011, 136, 2397.	3.5	13
77	Differential T-Helper Cell Polarization after Allergen-Specific Stimulation of Autologous Dendritic Cells in Polysensitized Allergic Patients. <i>International Archives of Allergy and Immunology</i> , 2015, 166, 97-106.	2.1	13
78	Identification of vicilin, legumin and antimicrobial peptide 2a as macadamia nut allergens. <i>Food Chemistry</i> , 2022, 370, 131028.	8.2	13
79	Qualitative analysis of Xinyue Capsules (Xinyue) by high-performance liquid chromatography: Preliminary evaluation of drug quality in a Sino-Austrian joint study. <i>Chinese Journal of Integrative Medicine</i> , 2015, 21, 772-777.	1.6	12
80	Advances and novel developments in molecular allergology. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3027-3038.	5.7	12
81	A Cross-Reactive Human Single-Chain Antibody for Detection of Major Fish Allergens, Parvalbumins, and Identification of a Major IgE-Binding Epitope. <i>PLoS ONE</i> , 2015, 10, e0142625.	2.5	12
82	Engineering of structural variants of the major peanut allergens Ara h 2 and Ara h 6 for allergen-specific immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1226-1229.e10.	2.9	11
83	Peanut allergy—Individual molecules as a key to precision medicine. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 216-219.	5.7	11
84	Allergen-specific IgE levels and the ability of IgE-allergen complexes to cross-link determine the extent of CD23-mediated T-cell activation. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 958-967.e5.	2.9	11
85	The diversity of Bet v 1-specific IgG 4 antibodies remains mostly constant during the course of birch pollen immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 1680-1682.e3.	2.9	9
86	Fish Allergy Around the World—Precise Diagnosis to Facilitate Patient Management. <i>Frontiers in Allergy</i> , 2021, 2, 732178.	2.8	9
87	Expression of chondroitin sulfate proteoglycan 4 (CSPG4) in melanoma cells is downregulated upon inhibition of BRAF. <i>Oncology Reports</i> , 2021, 45, .	2.6	8
88	Identification and Characterisation of Food Allergens. , 0, , 42-69.		8
89	Isotype-specific binding patterns of serum antibodies to multiple conformational epitopes of Bet v 1. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 1786-1794.e12.	2.9	8
90	Fish-derived low molecular weight components modify bronchial epithelial barrier properties and release of pro-inflammatory cytokines. <i>Molecular Immunology</i> , 2019, 112, 140-150.	2.2	6

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91	A chondroitin sulfate proteoglycan 4â€™specific monoclonal antibody inhibits melanoma cell invasion in a spheroid model. <i>International Journal of Oncology</i> , 2021, 59, .	3.3	6
92	The Major Peanut Allergen Ara h 2 Produced in <i>Nicotiana benthamiana</i> Contains Hydroxyprolines and Is a Viable Alternative to the <i>E. Coli</i> Product in Allergy Diagnosis. <i>Frontiers in Plant Science</i> , 2021, 12, 723363.	3.6	6
93	Down Regulation of Putative Defence-associated Transcripts Correlates with Ripe Rot Symptoms on Kiwifruit (<i>Actinidia chinensis</i>). <i>Journal of Phytopathology</i> , 2011, 159, no-no.	1.0	5
94	Evidence for a Role of TGF-Î²-Activated Kinase 1 and MAP3K7 Binding Protein 3 in Peanut-Specific T-Cell Responses. <i>International Archives of Allergy and Immunology</i> , 2019, 179, 10-16.	2.1	4
95	Increased antiviral response in circulating lymphocytes from hypogammaglobulinemia patients. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3147-3158.	5.7	4
96	Food Allergens: Molecular and Immunological Characteristics. , 0, , 43-61.		4
97	Protein families: implications for allergen nomenclature, standardisation and specific immunotherapy. , 2009, 96, 249-54; discussion 254-6.		4
98	Legends of allergy/immunology: Dietrich Kraft. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 1591-1593.	5.7	3
99	Legends of allergy and immunology: Clemens von Pirquet. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1276-1277.	5.7	3
100	Structure, Allergenicity, and Cross-Reactivity of Plant Allergens. , 2009, , 127-151.		3
101	Atopic donor status does not influence the uptake of the major grass pollen allergen, Phl p 5, by dendritic cells. <i>Journal of Immunological Methods</i> , 2015, 424, 120-130.	1.4	2
102	Tracing Human IgE B Cell Antigen Receptor-Bearing Cells With a Monoclonal Anti-Human IgE Antibody That Specifically Recognizes Non-Receptor-Bound IgE. <i>Frontiers in Immunology</i> , 2021, 12, 803236.	4.8	2
103	Biopsy analysis using a quadruple infrared sensor. , 2013, , .		1
104	Recombinant Allergen Methods. <i>Methods</i> , 2014, 66, 1-2.	3.8	1
105	BetÄvÄ1 und Homologe: Verursacher der Baumpollenallergie und Birkenpollen-assoziiierter Kreuzreaktionen. , 2015, , 15-32.		1
106	A label-free sensor system for chemotherapeutic drug screening. , 2011, , .		0