Hannah J Gould

List of Publications by Year
in descending order

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135 papers	8,644 citations	31976 53 h-index	48315 88 g-index
136 all docs	136 docs citations	136 times ranked	6692 citing authors

#	Article	IF	Citations
1	IgE in allergy and asthma today. Nature Reviews Immunology, 2008, 8, 205-217.	22.7	947
2	The Biology of IgE and the Basis of Allergic Disease. Annual Review of Immunology, 2003, 21, 579-628.	21.8	576
3	Class switch recombination to IgE in the bronchial mucosa of atopic and nonatopic patients with asthma. Journal of Allergy and Clinical Immunology, 2007, 119, 213-218.	2.9	222
4	IgG4 inhibits peanut-induced basophil and mast cell activation in peanut-tolerant children sensitized to peanut major allergens. Journal of Allergy and Clinical Immunology, 2015, 135, 1249-1256.	2.9	207
5	Allergen Drives Class Switching to IgE in the Nasal Mucosa in Allergic Rhinitis. Journal of Immunology, 2005, 174, 5024-5032.	0.8	205
6	The mast cell binding site on human immunoglobulin E. Nature, 1988, 331, 180-183.	27.8	184
7	The who, where, and when of IgE in allergic airway disease. Journal of Allergy and Clinical Immunology, 2012, 129, 635-645.	2.9	165
8	Expression of É› germ-line gene transcripts and mRNA for the É› heavy chain of IgE in nasal B cells and the effects of topical corticosteroid. European Journal of Immunology, 1997, 27, 2899-2906.	2.9	163
9	Local expression of Ïµ germline gene transcripts and RNA for the Ïµ heavy chain of IgE in the bronchial mucosa in atopic and nonatopic asthma. Journal of Allergy and Clinical Immunology, 2001, 107, 686-692.	2.9	161
10	The crystal structure of IgE Fc reveals an asymmetrically bent conformation. Nature Immunology, 2002, 3, 681-686.	14.5	152
11	Local Somatic Hypermutation and Class Switch Recombination in the Nasal Mucosa of Allergic Rhinitis Patients. Journal of Immunology, 2003, 171, 5602-5610.	0.8	138
12	The structure of human CD23 and its interactions with IgE and CD21. Journal of Experimental Medicine, 2005, 202, 751-760.	8.5	127
13	Local receptor revision and class switching to IgE in chronic rhinosinusitis with nasal polyps. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 55-63.	5.7	125
14	Persistent IgE synthesis in the nasal mucosa of hay fever patients. European Journal of Immunology, 2001, 31, 3422-3431.	2.9	121
15	DNase I hypersensitive sites in the chromatin of human Î¼ immunoglobulin heavy-chain genes. Nature, 1983, 306, 809-812.	27.8	120
16	IgE-Antibody-Dependent Immunotherapy of Solid Tumors: Cytotoxic and Phagocytic Mechanisms of Eradication of Ovarian Cancer Cells. Journal of Immunology, 2007, 179, 2832-2843.	0.8	117
17	Characterisation of an engineered trastuzumab IgE antibody and effector cell mechanisms targeting HER2/neu-positive tumour cells. Cancer Immunology, Immunotherapy, 2009, 58, 915-930.	4.2	117
18	Activity of human monocytes in IgE antibody-dependent surveillance and killing of ovarian tumor cells. European Journal of Immunology, 2003, 33, 1030-1040.	2.9	106

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19	Conformational changes in IgE contribute to its uniquely slow dissociation rate from receptor FcÉ›RI. Nature Structural and Molecular Biology, 2011, 18, 571-576.	8.2	105
20	Comparison of IgE and IgG antibody-dependent cytotoxicityin vitro and in a SCID mouse xenograft model of ovarian carcinoma. European Journal of Immunology, 1999, 29, 3527-3537.	2.9	104
21	Local synthesis of Ïµ germline gene transcripts, IL-4, and IL-13 in allergic nasal mucosa after ex vivo allergen exposure. Journal of Allergy and Clinical Immunology, 2000, 106, 46-52.	2.9	103
22	Detection of refractive index changes in individual living cells by means of surface plasmon resonance imaging. Biosensors and Bioelectronics, 2010, 26, 674-681.	10.1	99
23	Structural Determinants of Unique Properties of Human IgG4-Fc. Journal of Molecular Biology, 2014, 426, 630-644.	4.2	96
24	Cleavage of the lowâ€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. European Journal of Immunology, 1997, 27, 584-588.	2.9	86
25	Increases in Allergen-Specific IgE in BAL after Segmental Allergen Challenge in Atopic Asthmatics. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 22-26.	5.6	85
26	A tool kit for rapid cloning and expression of recombinant antibodies. Scientific Reports, 2014, 4, 5885.	3.3	85
27	Crystal structure of IgE bound to its B-cell receptor CD23 reveals a mechanism of reciprocal allosteric inhibition with high affinity receptor FcÎµRI. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12686-12691.	7.1	82
28	Structure based design and characterization of peptides that inhibit IgE binding to its high-affinity receptor. Nature Structural Biology, 1996, 3, 419-426.	9.7	80
29	Expression of IL-4, CÏµ RNA, and IÏµ RNA in the nasal mucosa of patients with seasonal rhinitis: Effect of topical corticosteroidsâ˜†â˜†â˜†â˜…â˜…â˜…. Journal of Allergy and Clinical Immunology, 1998, 101, 330-336.	2.9	79
30	Upregulation of FcÏµRI on human basophils by IgE antibody is mediated by interaction of IgE with FcÏµRIâ˜†â˜†â˜†â˜†. Journal of Allergy and Clinical Immunology, 1999, 104, 492-498.	2.9	78
31	Allergen specificity of IgG4-expressing B cells in patients with grass pollen allergy undergoing immunotherapy. Journal of Allergy and Clinical Immunology, 2012, 130, 663-670.e3.	2.9	77
32	The structure of the IgE Cepsilon2 domain and its role in stabilizing the complex with its high-affinity receptor FcepsilonRIalpha. Nature Structural Biology, 2001, 8, 437-441.	9.7	73
33	Epidemiological associations of allergy, IgE and cancer. Clinical and Experimental Allergy, 2013, 43, 1110-1123.	2.9	73
34	The Specific Cleavage of Ribonucleic Acid from Reticulocyte Ribosomal Subunits*. Biochemistry, 1966, 5, 1103-1108.	2.5	72
35	Monitoring the Systemic Human Memory B Cell Compartment of Melanoma Patients for Anti-Tumor IgG Antibodies. PLoS ONE, 2011, 6, e19330.	2.5	72
36	Participation of the N-Terminal Region of CÎµ3 in the Binding of Human IgE to Its High-Affinity Receptor FcÎµRIâ€. Biochemistry, 1997, 36, 15568-15578.	2.5	71

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37	Inhibition of the Prausnitzâ€“KÃ¼stner reaction by an immunoglobulin Îµ-chain fragment synthesized in E. coli. Nature, 1985, 315, 577-578.	27.8	69
38	Stoichiometry and thermodynamics of the interaction between the Fc fragment of human IgG1 and its low-affinity receptor Fc.gamma.RIII. Biochemistry, 1995, 34, 13320-13327.	2.5	68
39	Low molecular weight ribonucleic acid in rabbit reticulocyte ribosomes. Journal of Molecular Biology, 1970, 51, 687-702.	4.2	67
40	Identification of Contact Residues in the IgE Binding Site of Human FcÎµRIÎ±â€. Biochemistry, 1997, 36, 15579-15588.	2.5	67
41	Soluble CD23 Controls IgE Synthesis and Homeostasis in Human B Cells. Journal of Immunology, 2012, 188, 3199-3207.	0.8	67
42	Soluble CD23 Monomers Inhibit and Oligomers Stimulate IGE Synthesis in Human B Cells. Journal of Biological Chemistry, 2007, 282, 24083-24091.	3.4	66
43	Early pre-B cells from normal and X-linked agammaglobulinaemia produce CÎ¼ without an attached VH region. Nature, 1983, 304, 355-358.	27.8	65
44	Local IgE Production in Nasal Allergy. International Archives of Allergy and Immunology, 1997, 113, 128-130.	2.1	65
45	Role of IgE receptors in IgE antibody-dependent cytotoxicity and phagocytosis of ovarian tumor cells by human monocytic cells. Cancer Immunology, Immunotherapy, 2007, 57, 247-263.	4.2	65
46	Interaction of the Low-Affinity Receptor CD23/FcÎµRII Lectin Domain with the FcÎµ3â^'4 Fragment of Human Immunoglobulin Eâ€. Biochemistry, 1997, 36, 2112-2122.	2.5	62
47	Heterogeneous Glycosylation of Immunoglobulin E Constructs Characterized by Top-Down High-Resolution 2-D Mass Spectrometryâ€. Biochemistry, 2000, 39, 3369-3376.	2.5	62
48	Endocytosis and recycling of the complex between CD23 and HLA-DR in human B cells. Immunology, 2001, 103, 319-331.	4.4	61
49	Biased use of VH5 IgE-positive B cells in the nasal mucosa in allergic rhinitis. Journal of Allergy and Clinical Immunology, 2005, 116, 445-452.	2.9	61
50	Cytokinergic IgE Action in Mast Cell Activation. Frontiers in Immunology, 2012, 3, 229.	4.8	58
51	Omalizumab reduces bronchial mucosal IgE and improves lung function in non-atopic asthma. European Respiratory Journal, 2016, 48, 1593-1601.	6.7	58
52	Anti-Folate Receptor-Î± IgE but not IgG Recruits Macrophages to Attack Tumors via TNFÎ±/MCP-1 Signaling. Cancer Research, 2017, 77, 1127-1141.	0.9	58
53	Germinal-centre reactions in allergic inflammation. Trends in Immunology, 2006, 27, 446-452.	6.8	55
54	Recombinant IgE antibodies for passive immunotherapy of solid tumours: from concept towards clinical application. Cancer Immunology, Immunotherapy, 2012, 61, 1547-1564.	4.2	55

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55	Influence of seasonal exposure to grass pollen on local and peripheral blood IgE repertoires in patients with allergic rhinitis. Journal of Allergy and Clinical Immunology, 2014, 134, 604-612.	2.9	55
56	Control of RNA polymerase binding to chromatin by variations in linker histone composition. Journal of Molecular Biology, 1984, 180, 131-149.	4.2	51
57	Secretion of recombinant human IgE-Fc by mammalian cells and biological activity of glycosylation site mutants. Protein Engineering, Design and Selection, 1995, 8, 193-199.	2.1	51
58	A transcriptional regulatory element in the coding sequence of the human Bcl-2 gene. Immunology, 2005, 114, 25-36.	4.4	51
59	The Allergic March from Staphylococcus aureus Superantigens to Immunoglobulin E. , 2007, 93, 106-136.		51
60	Fractionation of low molecular weight fragments of ribosomal and viral RNA by polyacrylamide gel electrophoresis. Analytical Biochemistry, 1969, 29, 1-21.	2.4	50
61	â€œAuto-anti-IgEâ€ Naturally occurring IgG anti-IgE antibodies may inhibit allergen-induced basophil activation. Journal of Allergy and Clinical Immunology, 2014, 134, 1394-1401.e4.	2.9	49
62	IgE immunotherapy. MAbs, 2014, 6, 54-72.	5.2	46
63	Three-colour flow cytometric method to measure antibody-dependent tumour cell killing by cytotoxicity and phagocytosis. Journal of Immunological Methods, 2007, 323, 160-171.	1.4	45
64	A novel IgE-neutralizing antibody for the treatment of severe uncontrolled asthma. MAbs, 2014, 6, 755-763.	5.2	44
65	IgE responses in mouse and man and the persistence of IgE memory. Trends in Immunology, 2015, 36, 40-48.	6.8	43
66	Role of Optical Isomers in Determining the Antigenicity of Synthetic Polypeptides. Nature, 1963, 197, 746-747.	27.8	42
67	Analysis of intergenic transcription and histone modification across the human immunoglobulin heavy-chain locus. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15872-15877.	7.1	42
68	Antibodies and superantibodies in patients with chronic rhinosinusitis with nasal polyps. Journal of Allergy and Clinical Immunology, 2017, 139, 1195-1204.e11.	2.9	42
69	The nature of high molecular weight fragments of ribosomal RNA. Journal of Molecular Biology, 1967, 29, 307-313.	4.2	41
70	Transcription of Ig Germline Genes in Single Human B Cells and the Role of Cytokines in Isotype Determination. Journal of Immunology, 2004, 173, 4529-4538.	0.8	41
71	Conformation of the Isolated CÎµ3 Domain of IgE and Its Complex with the High-Affinity Receptor, FcÎµRIâ€. Biochemistry, 2000, 39, 7406-7413.	2.5	40
72	AllergoOncology: ultra-low IgE, a potential novel biomarker in cancerâ€”a Position Paper of the European Academy of Allergy and Clinical Immunology (EAACI). Clinical and Translational Allergy, 2020, 10, 32.	3.2	40

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73	Crystal structure of the human IgG4 CH3 dimer reveals the role of Arg409 in the mechanism of Fab-arm exchange. Molecular Immunology, 2013, 54, 1-7.	2.2	39
74	Increased IgA production by B-cells in COPDvialung epithelial interleukin-6 and TACI pathways. European Respiratory Journal, 2015, 45, 980-993.	6.7	39
75	Regulation of IgE Production Requires Oligomerization of CD23. Journal of Immunology, 2001, 167, 3139-3145.	0.8	38
76	Harnessing engineered antibodies of the IgE class to combat malignancy: initial assessment of FcÉ›RIâ€•mediated basophil activation by a tumourâ€šspecific IgE antibody to evaluate the risk of type I hypersensitivity. Clinical and Experimental Allergy, 2011, 41, 1400-1413.	2.9	38
77	IgE to epitopes of Ara h 2 enhance the diagnostic accuracy of Ara h 2â€šspecific IgE. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 2309-2318.	5.7	36
78	Studies on the secondary structure of ribosomal ribonucleic acid components of rabbit reticulocytes. Biopolymers, 1969, 7, 223-239.	2.4	35
79	Thermodynamics of the Interaction of Human Immunoglobulin E with Its High-Affinity Receptor FcÎµRIâ€. Biochemistry, 1998, 37, 8863-8869.	2.5	35
80	Avian IgY Binds to a Monocyte Receptor with IgG-like Kinetics Despite an IgE-like Structure. Journal of Biological Chemistry, 2008, 283, 16384-16390.	3.4	35
81	Inhibition of mast cell sensitizationin vitro by a human immunoglobulin Îµ-chain fragment synthesized inEscherichia coli. European Journal of Immunology, 1985, 15, 966-969.	2.9	34
82	Conservation of the structure of ribosomal RNA during evolution. Journal of Molecular Biology, 1969, 40, 289-298.	4.2	33
83	Function of CD23 in the response of human B cells to antigen. European Journal of Immunology, 1997, 27, 572-575.	2.9	33
84	Expression of IgE Heavy Chain Transcripts in the Sinus Mucosa of Atopic and Nonatopic Patients with Chronic Sinusitis. American Journal of Respiratory Cell and Molecular Biology, 1998, 18, 706-711.	2.9	33
85	Basis of the 1:1 stoichiometry of the high affinity receptor FcÎµRI-IgE complex. European Biophysics Journal, 1997, 25, 471-476.	2.2	31
86	Studies on Synthetic Polypeptide Antigens. Journal of Biological Chemistry, 1964, 239, 1107-1113.	3.4	31
87	A study of the alkaline hydrolysis of fractionated reticulocyte ribosomal ribonucleic acid and its relevance to secondary structure. Biochemical Journal, 1968, 106, 733-741.	3.1	30
88	Crystal Protein of Bacillus thuringiensis var. tolworthi. Subunit Structure and Toxicity to Pieris brassicae. FEBS Journal, 1971, 24, 366-375.	0.2	30
89	IgE isotype determination: Â-germline gene transcription, DNA recombination and B-cell differentiation. British Medical Bulletin, 2000, 56, 908-924.	6.9	30
90	Disulfide Linkage Controls the Affinity and Stoichiometry of IgE FcÏµ3â€“4 Binding to FcÏµRI. Journal of Biological Chemistry, 2005, 280, 16808-16814.	3.4	30

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91	Structure of a patient-derived antibody in complex with allergen reveals simultaneous conventional and superantigen-like recognition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8707-E8716.	7.1	29
92	Local IgE Production. American Journal of Rhinology & Allergy, 2000, 14, 305-308.	2.2	27
93	Ca2+-dependent Structural Changes in the B-cell Receptor CD23 Increase Its Affinity for Human Immunoglobulin E. Journal of Biological Chemistry, 2013, 288, 21667-21677.	3.4	27
94	Mechanism of the Antigen-Independent Cytokinergic SPE-7 IgE Activation of Human Mast Cells in Vitro. Scientific Reports, 2015, 5, 9538.	3.3	27
95	Basophils from Cancer Patients Respond to Immune Stimuli and Predict Clinical Outcome. Cells, 2020, 9, 1631.	4.1	26
96	IgE binds asymmetrically to its B cell receptor CD23. Scientific Reports, 2017, 7, 45533.	3.3	25
97	Allergen-specific IgE is not detectable in the bronchial mucosa of nonatopic asthmatic patients. Journal of Allergy and Clinical Immunology, 2014, 133, 1770-1772.e11.	2.9	24
98	IgE repertoire and immunological memory: compartmental regulation and antibody function. International Immunology, 2018, 30, 403-412.	4.0	24
99	The first avian Ig-like Fc receptor family member combines features of mammalian FcR and FCRL. Immunogenetics, 2007, 59, 323-328.	2.4	23
100	Structural basis for selective inhibition of immunoglobulin E-receptor interactions by an anti-IgE antibody. Scientific Reports, 2018, 8, 11548.	3.3	22
101	Mapping of the CD23 Binding Site on Immunoglobulin E (IgE) and Allosteric Control of the IgE-FcÏµRI Interaction. Journal of Biological Chemistry, 2012, 287, 31457-31461.	3.4	21
102	Structural characterization of ribosomal ribonucleic acids from various species by a new â€˜fingerprintingâ€™ technique. Journal of Molecular Biology, 1966, 22, 397-399.	4.2	20
103	The quest for autoreactive antibodies in nasal polyps. Journal of Allergy and Clinical Immunology, 2016, 138, 893-895.e5.	2.9	20
104	Necessity of the stalk region for immunoglobulin E interaction with CD23. Immunology, 2002, 107, 373-381.	4.4	19
105	AllergoOncology: Microbiota in allergy and cancerâ€”A European Academy for Allergy and Clinical Immunology position paper. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 1037-1051.	5.7	17
106	Conformational plasticity at the IgE-binding site of the B-cell receptor CD23. Molecular Immunology, 2013, 56, 693-697.	2.2	16
107	Crystal structures of murine and human Histamine-Releasing Factor (HRF/TCTP) and a model for HRF dimerisation in mast cell activation. Molecular Immunology, 2018, 93, 216-222.	2.2	15
108	Local Clonal Diversification and Dissemination of B Lymphocytes in the Human Bronchial Mucosa. Frontiers in Immunology, 2018, 9, 1976.	4.8	15

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109	Transcriptional Analysis of the Human IgE-Expressing Plasma Cell Differentiation Pathway. Frontiers in Immunology, 2019, 10, 402.	4.8	14
110	Basophil activation test in cancer patient blood evaluating potential hypersensitivity to an antiâ€tumor IgE therapeutic candidate. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 2069-2073.	5.7	14
111	Domain One of the High Affinity IgE Receptor, FcÎµRI, Regulates Binding to IgE through Its Interface with Domain Two. Journal of Biological Chemistry, 2000, 275, 9664-9672.	3.4	13
112	IgE Trimers Drive SPE-7 Cytokinergic Activity. Scientific Reports, 2017, 7, 8164.	3.3	13
113	Interplay between Affinity and Valency in Effector Cell Degranulation: A Model System with Polcalcin Allergens and Human Patientâ€"Derived IgE Antibodies. Journal of Immunology, 2019, 203, 1693-1700.	0.8	13
114	Abstract CT141: Phase 1 trial of MOv18, a first-in-class IgE antibody therapy for cancer. Cancer Research, 2020, 80, CT141-CT141.	0.9	13
115	Mutagenesis Within Human FcÎµRIÎ± Differentially Affects Human and Murine IgE Binding. Journal of Immunology, 2002, 168, 1787-1795.	0.8	12
116	High Resolution Analysis of the Chromatin Landscape of the IgE Switch Region in Human B Cells. PLoS ONE, 2011, 6, e24571.	2.5	12
117	Comparative reactivity of human IgE to cynomolgus monkey and human effector cells and effects on IgE effector cell potency. MAbs, 2014, 6, 509-522.	5.2	12
118	Studies on Synthetic Polypeptide Antigens. Journal of Biological Chemistry, 1964, 239, 3083-3092.	3.4	12
119	Attenuation of IgE Affinity for FcÏµRI Radically Reduces the Allergic Response in Vitro and in Vivo. Journal of Biological Chemistry, 2008, 283, 29882-29887.	3.4	11
120	Comprehensive FISH Probe Design Tool Applied to Imaging Human Immunoglobulin Class Switch Recombination. PLoS ONE, 2012, 7, e51675.	2.5	10
121	Polysomes from Bacillus subtilis and Bacillus thuringiensis. Nature, 1969, 223, 855-857.	27.8	8
122	Biosynthesis of the Crystal Protein of Bacillus thuringiensis var. tolworth. 1. Kinetics of Formation of the Polypeptide Components of the Crystal Protein in vivo. FEBS Journal, 1973, 37, 441-448.	0.2	8
123	Regulation of Human Epsilon Germline Transcription: Role of B-Cell-Specific Activator Protein. International Archives of Allergy and Immunology, 1997, 113, 35-38.	2.1	7
124	IgE Interacts with Potent Effector Cells Against Tumors: ADCC and ADCP. , 2010, , 185-213.		6
125	Transcription of globin genes in reticulocyte chromatin. FEBS Letters, 1979, 105, 131-136.	2.8	5
126	Isolation of immunoglobulin messenger ribonucleic acid from human lymphoblastoid cell lines. Biochemistry, 1981, 20, 4467-4477.	2.5	5

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127	Peanut allergenâ€“specific antibodies go public. Science, 2018, 362, 1247-1248.	12.6	5
128	AllergoOncology: Danger signals in allergology and oncology: AÂEuropean Academy of Allergy and Clinical Immunology (EAACI) Position Paper. Allergy: European Journal of Allergy and Clinical Immunology, 2022, 77, 2594-2617.	5.7	5
129	Immunoglobulin E and Allergy: Antibodies in Immune Inflammation and Treatment. Microbiology Spectrum, 2013, 1, .	3.0	4
130	B Cell Mobilization, Dissemination, Fine Tuning of Local Antigen Specificity and Isotype Selection in Asthma. Frontiers in Immunology, 2021, 12, 702074.	4.8	4
131	Biosynthesis of the Crystal Protein of Bacillus thuringiensis var. tolworth. 2. On the Relation of Transcriptional and Translational Events in the Growth Cycle. FEBS Journal, 1973, 37, 449-458.	0.2	3
132	Orchestration of immunoglobulin isotypes, subclasses, and specificities in patients receiving intravenous IgG or subcutaneous immunotherapy and those with chronic rhinosinusitis with nasal polyps: Toward precision medicine. Journal of Allergy and Clinical Immunology, 2019, 144, 407-409.	2.9	1
133	IgG+ memory B cells: Friends or foes in allergic disease?. Journal of Allergy and Clinical Immunology, 2020, 146, 77-79.	2.9	1
134	A Phl p 7-specific IgG4 antibody inhibits allergic patients IgE cross-reactivity to allergens from the EF-hand family: importance of affinity and degree of cross-reactivity. Clinical and Translational Allergy, 2014, 4, .	3.2	0
135	Immunoglobulin E and Allergy: Antibodies in Immune Inflammation and Treatment. , 0, , 75-102.		0