

Gabriele Gadermaier

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	3,214 citations	31 h-index	54 g-index
110 ext. papers	3,832 ext. citations	5.7 avg, IF	4.68 L-index

#	Paper	IF	Citations
104	EAACI Molecular Allergology User's Guide. <i>Pediatric Allergy and Immunology</i> , 2016 , 27 Suppl 23, 1-250	4.2	441
103	Pollen-food syndromes associated with weed pollinosis: an update from the molecular point of view. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2006 , 61, 461-76	9.3	177
102	Regulatory T Cell Specificity Directs Tolerance versus Allergy against Aeroantigens in Humans. <i>Cell</i> , 2016 , 167, 1067-1078.e16	56.2	170
101	The CREATE project: development of certified reference materials for allergenic products and validation of methods for their quantification. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2008 , 63, 310-26	9.3	148
100	Distinct roles of secreted HtrA proteases from gram-negative pathogens in cleaving the junctional protein and tumor suppressor E-cadherin. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10115-10120	5.4	122
99	The spectrum of allergens in ragweed and mugwort pollen. <i>International Archives of Allergy and Immunology</i> , 2005 , 138, 337-46	3.7	120
98	The role of lipid transfer proteins in allergic diseases. <i>Current Allergy and Asthma Reports</i> , 2010 , 10, 326-335	3.5	115
97	WHO/IUIS Allergen Nomenclature: Providing a common language. <i>Molecular Immunology</i> , 2018 , 100, 3-13	4.3	85
96	Array-based profiling of ragweed and mugwort pollen allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2008 , 63, 1543-9	9.3	74
95	Artemisia and Ambrosia hypersensitivity: co-sensitization or co-recognition?. <i>Clinical and Experimental Allergy</i> , 2006 , 36, 658-65	4.1	73
94	Peach allergy in China: a dominant role for mugwort pollen lipid transfer protein as a primary sensitizer. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 131, 224-6.e1-3	11.5	70
93	Protein unfolding strongly modulates the allergenicity and immunogenicity of Pru p 3, the major peach allergen. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 128, 1022-30.e1-7	11.5	65
92	Biology of weed pollen allergens. <i>Current Allergy and Asthma Reports</i> , 2004 , 4, 391-400	5.6	65
91	Mutational analysis of amino acid positions crucial for IgE-binding epitopes of the major apple (Malus domestica) allergen, Mal d 1. <i>International Archives of Allergy and Immunology</i> , 2006 , 139, 53-62	3.7	62
90	Allergens of weed pollen: an overview on recombinant and natural molecules. <i>Methods</i> , 2014 , 66, 55-66	4.6	61
89	A new allergen from ragweed (Ambrosia artemisiifolia) with homology to art v 1 from mugwort. <i>Journal of Biological Chemistry</i> , 2010 , 285, 27192-27200	5.4	61
88	Antigen presentation of the immunodominant T-cell epitope of the major mugwort pollen allergen, Art v 1, is associated with the expression of HLA-DRB1 *01. <i>Journal of Allergy and Clinical Immunology</i> , 2005 , 115, 399-404	11.5	56

87	Ovalbumin modified with pyrraline, a Maillard reaction product, shows enhanced T-cell immunogenicity. <i>Journal of Biological Chemistry</i> , 2014 , 289, 7919-28	5.4	53
86	Prevalence of IgE-binding to Art v 1, Art v 4 and Amb a 1 in mugwort-allergic patients. <i>International Archives of Allergy and Immunology</i> , 2008 , 145, 94-101	3.7	46
85	Sensitization prevalence, antibody cross-reactivity and immunogenic peptide profile of Api g 2, the non-specific lipid transfer protein 1 of celery. <i>PLoS ONE</i> , 2011 , 6, e24150	3.7	44
84	Mapping the interactions between a major pollen allergen and human IgE antibodies. <i>Structure</i> , 2010 , 18, 1011-21	5.2	44
83	Isoform identification and characterization of Art v 3, the lipid-transfer protein of mugwort pollen. <i>Molecular Immunology</i> , 2009 , 46, 1919-24	4.3	38
82	Oil body-associated hazelnut allergens including oleosins are underrepresented in diagnostic extracts but associated with severe symptoms. <i>Clinical and Translational Allergy</i> , 2014 , 4, 4	5.2	37
81	Nitration of the birch pollen allergen Bet v 1.0101: efficiency and site-selectivity of liquid and gaseous nitrating agents. <i>Journal of Proteome Research</i> , 2014 , 13, 1570-7	5.6	36
80	Characterization of recombinant Mal d 4 and its application for component-resolved diagnosis of apple allergy. <i>Clinical and Experimental Allergy</i> , 2006 , 36, 1087-96	4.1	36
79	Immunologic characterization of isoforms of Car b 1 and Que a 1, the major hornbeam and oak pollen allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2009 , 64, 452-60	9.3	35
78	A multi-allergen standard for the calibration of immunoassays: CREATE principles applied to eight purified allergens. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2012 , 67, 235-41	9.3	34
77	Pollen Allergens for Molecular Diagnosis. <i>Current Allergy and Asthma Reports</i> , 2016 , 16, 31	5.6	33
76	Cross-sectional study on allergic sensitization of Austrian adolescents using molecule-based IgE profiling. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017 , 72, 754-763	9.3	32
75	The relevance of a digestibility evaluation in the allergenicity risk assessment of novel proteins. Opinion of a joint initiative of COST action ImpARAS and COST action INFOGEST. <i>Food and Chemical Toxicology</i> , 2019 , 129, 405-423	4.7	31
74	Pectate lyase pollen allergens: sensitization profiles and cross-reactivity pattern. <i>PLoS ONE</i> , 2015 , 10, e0120038	3.7	31
73	Characterization of plant food allergens: an overview on physicochemical and immunological techniques. <i>Molecular Nutrition and Food Research</i> , 2010 , 54, 93-112	5.9	30
72	Artemisia pollen allergy in China: Component-resolved diagnosis reveals allergic asthma patients have significant multiple allergen sensitization. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019 , 74, 284-293	9.3	28
71	Characterization of novel peroxisome proliferator-activated receptor γ coactivator-1 (PGC-1 γ) isoform in human liver. <i>Journal of Biological Chemistry</i> , 2011 , 286, 42923-36	5.4	25
70	Prevention of allergy by virus-like nanoparticles (VNP) delivering shielded versions of major allergens in a humanized murine allergy model. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019 , 74, 246-260	9.3	24

69	Role of the polypeptide backbone and post-translational modifications in cross-reactivity of Art v 1, the major mugwort pollen allergen. <i>Biological Chemistry</i> , 2009 , 390, 445-51	4.5	24
68	Immune recognition of novel isoforms and domains of the mugwort pollen major allergen Art v 1. <i>Molecular Immunology</i> , 2009 , 46, 416-21	4.3	24
67	Allergenic relevance of nonspecific lipid transfer proteins 2: Identification and characterization of Api g 6 from celery tuber as representative of a novel IgE-binding protein family. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 2061-70	5.9	23
66	Molecular characterization of Api g 2, a novel allergenic member of the lipid-transfer protein 1 family from celery stalks. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 568-77	5.9	23
65	Targeting the cysteine-stabilized fold of Art v 1 for immunotherapy of Artemisia pollen allergy. <i>Molecular Immunology</i> , 2010 , 47, 1292-8	4.3	23
64	Characterization of HLA class II/peptide-TCR interactions of the immunodominant T cell epitope in Art v 1, the major mugwort pollen allergen. <i>Journal of Immunology</i> , 2008 , 181, 3636-42	5.3	20
63	Plantago lanceolata: an important trigger of summer pollinosis with limited IgE cross-reactivity. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 134, 472-5	11.5	19
62	Glutathione-S-transferase: a minor allergen in birch pollen due to limited release from hydrated pollen. <i>PLoS ONE</i> , 2014 , 9, e109075	3.7	18
61	Aptamers as quality control tool for production, storage and biosimilarity of the anti-CD20 biopharmaceutical rituximab. <i>Scientific Reports</i> , 2019 , 9, 1111	4.9	17
60	Marker allergens of weed pollen - basic considerations and diagnostic benefits in the clinical routine: Part 16 of the Series Molecular Allergology. <i>Allergo Journal International</i> , 2014 , 23, 274-280	1.5	17
59	Public perception and knowledge on nanotechnology: A study based on a citizen science approach. <i>NanoImpact</i> , 2020 , 17, 100201	5.6	17
58	Prevention of intestinal allergy in mice by rflaA:Ova is associated with enforced antigen processing and TLR5-dependent IL-10 secretion by mDC. <i>PLoS ONE</i> , 2014 , 9, e87822	3.7	16
57	Complete NMR Assignment of Succinimide and Its Detection and Quantification in Peptides and Intact Proteins. <i>Analytical Chemistry</i> , 2017 , 89, 11962-11970	7.8	15
56	Retinoic acid-loading of the major birch pollen allergen Bet v 1 may improve specific allergen immunotherapy: In silico, in vitro and in vivo data in BALB/c mice. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020 , 75, 2073-2077	9.3	15
55	Distinct epitope structures of defensin-like proteins linked to proline-rich regions give rise to differences in their allergenic activity. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018 , 73, 431-441	9.3	15
54	Allergic reactions to manioc (<i>Manihot esculenta</i> Crantz): identification of novel allergens with potential involvement in latex-fruit syndrome. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 128, 1367-9	11.5	15
53	Specific allergen concentration of WHO and FDA reference preparations measured using a multiple allergen standard. <i>Journal of Allergy and Clinical Immunology</i> , 2012 , 129, 1408-10	11.5	14
52	Exposure to Indoor Allergens in Different Residential Settings and Its Influence on IgE Sensitization in a Geographically Confined Austrian Cohort. <i>PLoS ONE</i> , 2017 , 12, e0168686	3.7	13

51	Production of recombinant allergens in plants. <i>Phytochemistry Reviews</i> , 2008 , 7, 539-552	7.7	13
50	Does clinical outcome of birch pollen immunotherapy relate to induction of blocking antibodies preventing IgE from allergen binding? A pilot study monitoring responses during first year of AIT. <i>Clinical and Translational Allergy</i> , 2018 , 8, 39	5.2	13
49	Crystal structure of Pla l 1 reveals both structural similarity and allergenic divergence within the Ole e 1-like protein family. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 277-280	11.5	12
48	Proteomic profiling of the weed feverfew, a neglected pollen allergen source. <i>Scientific Reports</i> , 2017 , 7, 6049	4.9	12
47	Influence of Intrinsic and Lifestyle Factors on the Development of IgE Sensitization. <i>International Archives of Allergy and Immunology</i> , 2017 , 173, 99-104	3.7	12
46	Is aboriginal food less allergenic? Comparing IgE-reactivity of eggs from modern and ancient chicken breeds in a cohort of allergic children. <i>PLoS ONE</i> , 2011 , 6, e19062	3.7	12
45	Peer-reviewed publishing of results from Citizen Science projects. <i>Journal of Science Communication</i> , 2018 , 17, L01	2	12
44	Multi-Approach Analysis for the Identification of Proteases within Birch Pollen. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	11
43	Helicobacter pylori-controlled c-Abl localization promotes cell migration and limits apoptosis. <i>Cell Communication and Signaling</i> , 2019 , 17, 10	7.5	10
42	Novel allergens from ancient foods: Man e 5 from manioc (<i>Manihot esculenta</i> Crantz) cross reacts with Hev b 5 from latex. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 1100-9	5.9	10
41	Cloning, Purification and Characterization of the Collagenase ColA Expressed by <i>Bacillus cereus</i> ATCC 14579. <i>PLoS ONE</i> , 2016 , 11, e0162433	3.7	10
40	Rational Design, Structure-Activity Relationship, and Immunogenicity of Hypoallergenic Pru p 3 Variants. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1900336	5.9	9
39	Over-expression and production of plant allergens by molecular farming strategies. <i>Methods</i> , 2004 , 32, 235-40	4.6	9
38	Conjugation of wildtype and hypoallergenic mugwort allergen Art v 1 to flagellin induces IL-10-DC and suppresses allergen-specific TH2-responses in vivo. <i>Scientific Reports</i> , 2017 , 7, 11782	4.9	8
37	N-nitrosodiethylamine genotoxicity evaluation: a cytochrome P450 induction study in rat hepatocytes. <i>Genetics and Molecular Research</i> , 2011 , 10, 2340-8	1.2	8
36	SELEX: Critical factors and optimization strategies for successful aptamer selection. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	8
35	Immunoreactivity of Gluten-Sensitized Sera Toward Wheat, Rice, Corn, and Amaranth Flour Proteins Treated With Microbial Transglutaminase. <i>Frontiers in Microbiology</i> , 2019 , 10, 470	5.7	7
34	Boiling down the cysteine-stabilized LTP fold - loss of structural and immunological integrity of allergenic Art v 3 and Pru p 3 as a consequence of irreversible lanthionine formation. <i>Molecular Immunology</i> , 2019 , 116, 140-150	4.3	7

33	Endolysosomal Degradation of Allergenic Ole e 1-Like Proteins: Analysis of Proteolytic Cleavage Sites Revealing T Cell Epitope-Containing Peptides. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	7
32	N-Nitrosodiethylamine genotoxicity in primary rat hepatocytes: effects of cytochrome P450 induction by phenobarbital. <i>Toxicology Letters</i> , 2011 , 206, 139-43	4.4	7
31	Keeping Allergen Names Clear and Defined. <i>Frontiers in Immunology</i> , 2019 , 10, 2600	8.4	7
30	Similar Allergenicity to Different Species Is a Consequence of Highly Cross-Reactive Art v 1-Like Molecules. <i>Medicina (Lithuania)</i> , 2019 , 55,	3.1	6
29	Expression of the major mugwort pollen allergen Art v 1 in tobacco plants and cell cultures: problems and perspectives for allergen production in plants. <i>Plant Cell Reports</i> , 2012 , 31, 561-71	5.1	6
28	Carbohydrate epitopes currently recognized as targets for IgE antibodies. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 2383-2394	9.3	6
27	Monitoring of Deamidation and Lanthionine Formation in Recombinant Mugwort Allergen by Capillary Zone Electrophoresis (CZE)-UV and Transient Capillary Isotachophoresis-CZE-Electrospray Ionization-TOF-MS. <i>Analytical Chemistry</i> , 2018 , 90, 11933-11940	7.8	6
26	Peptidase PepP is a novel virulence factor of contributing to murine campylobacteriosis. <i>Gut Microbes</i> , 2020 , 12, 1770017	8.8	5
25	Sequence-specific 1H, 15N and 13C resonance assignments of Art v 1: a proline-rich allergen of <i>Artemisia vulgaris</i> pollen. <i>Biomolecular NMR Assignments</i> , 2009 , 3, 103-6	0.7	5
24	Laser-facilitated epicutaneous immunotherapy with hypoallergenic beta-glucan neoglycoconjugates suppresses lung inflammation and avoids local side effects in a mouse model of allergic asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 210-222	9.3	5
23	Localization of Four Allergens in <i>Artemisia</i> Pollen by Immunofluorescent Antibodies. <i>International Archives of Allergy and Immunology</i> , 2019 , 179, 165-172	3.7	4
22	N-terminal peptide deletion influences immunological and structural features of Blo t 5. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020 , 75, 1503-1507	9.3	4
21	Variation in IgE binding potencies of seven <i>Artemisia</i> species depending on content of major allergens. <i>Clinical and Translational Allergy</i> , 2020 , 10, 50	5.2	4
20	Rituximab-specific DNA aptamers are able to selectively recognize heat-treated antibodies. <i>PLoS ONE</i> , 2020 , 15, e0241560	3.7	3
19	En route to personalized medicine: uncovering distinct IgE reactivity pattern to house dust mite components in Brazilian and Austrian allergic patients. <i>Clinical and Translational Allergy</i> , 2021 , 11, e12004	5.2	3
18	Immunodominant B cell epitope in a hotspot mutation site and mechanism of immune escape for SARS-CoV-2		3
17	The COMPARE Database: A Public Resource for Allergen Identification, Adapted for Continuous Improvement.. <i>Frontiers in Allergy</i> , 2021 , 2, 700533	0	3
16	Physico-chemical characterization of candidate reference materials. <i>Arbeiten Aus Dem Paul-Ehrlich-Institut (Bundesamt Für Sera Und Impfstoffe) Zu Frankfurt A M</i> , 2006 , 75-82; discussion 82-3, 100-4		3

15	Cashew Tree Pollen: An Unknown Source of IgE-Reactive Molecules. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
14	Developments in the field of allergy in 2011 through the eyes of Clinical and Experimental Allergy. <i>Clinical and Experimental Allergy</i> , 2012 , 42, 1697-723	4.1	2
13	Hydrogen/deuterium exchange memory NMR reveals structural epitopes involved in IgE cross-reactivity of allergenic lipid transfer proteins. <i>Journal of Biological Chemistry</i> , 2020 , 295, 17398-17410	5.1	2
12	Do <i>Plantago lanceolata</i> Skin Prick Test-Positive Patients Display IgE to Genuine Plantain Pollen Allergens? Investigation of Pollen Allergic Patients from the North-East of France. <i>International Archives of Allergy and Immunology</i> , 2018 , 177, 97-106	3.7	2
11	The Cell Wall PAC (Proline-Rich, Arabinogalactan Proteins, Conserved Cysteines) Domain-Proteins Are Conserved in the Green Lineage. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
10	Biochemical and functional characterization of a new recombinant phospholipase A inhibitor from <i>Crotalus durissus collilineatus</i> snake serum. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 1545-1553	7.9	0
9	Proteomic profiling of commercial dust mite skin prick test solutions and allergy vaccines from India. <i>World Allergy Organization Journal</i> , 2021 , 14, 100516	5.2	0
8	Component-Resolved Diagnosis of American Cockroach () Allergy in Patients From Different Geographical Areas.. <i>Frontiers in Allergy</i> , 2021 , 2, 691627	0	0
7	Identification of a defensin as novel allergen in celery root: ApiG17 as a missing link in the diagnosis of celery allergy?. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 ,	9.3	0
6	Markerallergene von Kr�terpollen �Grundlagen und diagnostischer Nutzen im klinischen Alltag. <i>Allergo Journal</i> , 2014 , 23, 20-26	0	
5	Markerallergene von Kr�terpollen: diagnostischer Nutzen im klinischen Alltag 2015 , 193-204		
4	Marker Allergens of Weed Pollen: Basic Considerations and Diagnostic Benefits in Routine Clinical Practice 2017 , 227-240		
3	Cockroach and Other Inhalant Insect Allergens 2014 , 203-215		
2	Relevanz homologer Allergene bei der spezifischen Immuntherapie von Pollenallergien. <i>Wiener Klinisches Magazin: Beilage Zur Wiener Klinischen Wochenschrift</i> , 2020 , 23, 260-267	0	
1	High-affinity Bet v 1-specific secretory IgA antibodies in nasal fluids protect against birch pollen allergy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 2267-2270	9.3	