

# Edzard Spillner

## List of Publications by Year in descending order

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79  
papers

2,755  
citations

147801

31  
h-index

189892

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and functional analyses of antibodies specific for modified core N-glycans suggest a role in Th2 responses. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2023, 78, 121-130.	5.7	8
2	Nanobody-based human antibody formats act as IgE surrogate in hymenoptera venom allergy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2022, 77, 2859-2862.	5.7	5
3	Current research and unmet needs in allergy and immunology in Germany: report presented by the DGfI and DGAKI task force Allergy & Immunology. <i>European Journal of Immunology</i> , 2022, 52, 851-855.	2.9	0
4	Carbohydrate epitopes currently recognized as targets for IgE antibodies. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 2383-2394.	5.7	36
5	In Silico Evaluation of the Binding Site of Fucosyltransferase $\alpha$ 8 and First Attempts to Synthesize an Inhibitor with Drug-Like Properties. <i>ChemBioChem</i> , 2020, 21, 1923-1931.	2.6	3
6	Structure of intact IgE and the mechanism of ligelizumab revealed by electron microscopy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1956-1965.	5.7	22
7	The Honeybee Venom Major Allergen Api m 10 (Icarapin) and Its Role in Diagnostics and Treatment of Hymenoptera Venom Allergy. <i>Current Allergy and Asthma Reports</i> , 2020, 20, 48.	5.3	18
8	The honey bee venom allergen Api m 10 displays one major IgE epitope, Api m 10 <sub>160-174</sub> . <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1756-1759.	5.7	4
9	Inhibiting phosphatase SHIP-1 enhances suboptimal IgE-mediated activation of human blood basophils but inhibits IgE-mediated activation of cultured human mast cells. <i>Immunology Letters</i> , 2019, 210, 40-46.	2.5	2
10	Venoms of Neotropical wasps lack cross-reactive carbohydrate determinants enabling reliable protein-based specific IgE determination. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1917-1919.e1.	2.9	16
11	Trapping IgE in a closed conformation by mimicking CD23 binding prevents and disrupts Fc $\mu$ RI interaction. <i>Nature Communications</i> , 2018, 9, 7.	12.8	88
12	Phospholipase A1-based cross-reactivity among venoms of clinically relevant Hymenoptera from Neotropical and temperate regions. <i>Molecular Immunology</i> , 2018, 93, 87-93.	2.2	16
13	Characterization of the honeybee venom proteins C1q-like protein and PVF1 and their allergenic potential. <i>Toxicon</i> , 2018, 150, 198-206.	1.6	6
14	AllergoOncology: Generating a canine anticancer IgE against the epidermal growth factor receptor. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 973-976.e11.	2.9	14
15	Comparing sensitivity of Hymenoptera allergen components on different diagnostic assay systems: Comparing apples and oranges?. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1066-1067.	2.9	8
16	N-glycan maturation mutants in <i>Lotus japonicus</i> for basic and applied glycoprotein research. <i>Plant Journal</i> , 2017, 91, 394-407.	5.7	25
17	Diagnostics in Hymenoptera venom allergy: current concepts and developments with special focus on molecular allergy diagnostics. <i>Allergo Journal International</i> , 2017, 26, 93-105.	2.0	58
18	AllergoOncology – the impact of allergy in oncology: EAACI position paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017, 72, 866-887.	5.7	68

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19	Component resolved diagnostics for hymenoptera venom allergy. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2017, 17, 363-372.	2.3	57
20	Application of recombinant antigen 5 allergens from seven allergy-relevant Hymenoptera species in diagnostics. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017, 72, 98-108.	5.7	44
21	6th International Symposium on Molecular Allergology (ISMA). <i>Clinical and Translational Allergy</i> , 2016, 6, .	3.2	2
22	Human serum substitution by artificial sera of scalable allergen reactivity based on polyclonal antibodies and chimeras of human Fc $\epsilon$ RI and IgE domains. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2016, 71, 1794-1799.	5.7	8
23	Predominant Api m 10 sensitization as risk factor for treatment failure in honey bee venom immunotherapy. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 1663-1671.e9.	2.9	93
24	Human IgE is efficiently produced in glycosylated and biologically active form in lepidopteran cells. <i>Molecular Immunology</i> , 2016, 72, 49-56.	2.2	9
25	<sc>rA</sc>pi m 3 and <sc>rA</sc>pi m 10 improve detection of honey bee sensitization in Hymenoptera venom allergic patients with double sensitization to honey bee and yellow jacket venom. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 1665-1668.	5.7	35
26	Structure of the omalizumab Fab. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 419-426.	0.8	16
27	Decline of Ves v 5-specific blocking capacity in wasp venom-allergic patients after stopping allergen immunotherapy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 715-719.	5.7	26
28	IgE recognition of chimeric isoforms of the honeybee ( <i>Apis mellifera</i> ) venom allergen Api m 10 evaluated by protein array technology. <i>Molecular Immunology</i> , 2015, 63, 449-455.	2.2	24
29	Optimierte Diagnostik der Insektengiftallergie durch rekombinante Allergene. , 2015, , 257-275.		0
30	Generation of a Canine Anti-EGFR (ErbB-1) Antibody for Passive Immunotherapy in Dog Cancer Patients. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 1777-1790.	4.1	45
31	Hymenoptera Allergens: From Venom to "Venome". <i>Frontiers in Immunology</i> , 2014, 5, 77.	4.8	72
32	Component resolution reveals additional major allergens in patients with honeybee venom allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 1383-1389.e6.	2.9	152
33	Recombinant allergens rarely allow identification of Hymenoptera venom allergic patients with negative specific IgE to whole venom preparations. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 493-494.e1.	2.9	26
34	In vitro immunomonitoring of insect venom-allergic patients on immunotherapy. <i>Clinical and Translational Allergy</i> , 2014, 4, .	3.2	0
35	Identification of Hymenoptera venom allergic patients with negative specific IgE to venom extract by using recombinant allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 909-910.	2.9	41
36	Basophil Activation Test Using Recombinant Allergens: Highly Specific Diagnostic Method Complementing Routine Tests in Wasp Venom Allergy. <i>PLoS ONE</i> , 2014, 9, e108619.	2.5	34

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37	Polistes species venom is devoid of carbohydrate-based cross-reactivity and allows interference-free diagnostics. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 1239-1242.	2.9	44
38	Extending the honey bee venom with the antimicrobial peptide apidaecin and a protein resembling wasp antigen 5. <i>Insect Molecular Biology</i> , 2013, 22, 199-210.	2.0	36
39	Donor Assists Acceptor Binding and Catalysis of Human $\alpha$ 1,6-Fucosyltransferase. <i>ACS Chemical Biology</i> , 2013, 8, 1830-1840.	3.4	21
40	Vitellogenins Are New High Molecular Weight Components and Allergens (Api m 12 and Ves v 6) of <i>Apis mellifera</i> and <i>Vespula vulgaris</i> Venom. <i>PLoS ONE</i> , 2013, 8, e62009.	2.5	73
41	Improving the Diagnosis of Hymenoptera Venom Allergy. <i>World Allergy Organization Journal</i> , 2012, 5, S30.	3.5	0
42	Recombinant IgE antibody engineering to target EGFR. <i>Cancer Immunology, Immunotherapy</i> , 2012, 61, 1565-1573.	4.2	23
43	Formation of the immunogenic $\alpha$ 1,3-fucose epitope: Elucidation of substrate specificity and of enzyme mechanism of core fucosyltransferase A. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 116-125.	2.7	8
44	An IgE epitope of Bet v 1 and fagales PR10 proteins as defined by a human monoclonal IgE. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2012, 67, 1530-1537.	5.7	35
45	Comparable IgE reactivity to natural and recombinant Api m 1 in cross-reactive carbohydrate determinant-negative patients with bee venom allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 130, 276-278.	2.9	47
46	Donor substrate binding and enzymatic mechanism of human core $\alpha$ 1,6-fucosyltransferase (FUT8). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1915-1925.	2.4	25
47	Avian IgY antibodies and their recombinant equivalents in research, diagnostics and therapy. <i>Biologicals</i> , 2012, 40, 313-322.	1.4	80
48	Anti-tumor activity of a cell receptor-targeted peptide in a novel disseminated lymphoma xenograft model. <i>International Journal of Cancer</i> , 2012, 131, E10-20.	5.1	3
49	The major royal jelly proteins 8 and 9 ( $\alpha$ pi m 11) are glycosylated components of <i>Apis mellifera</i> venom with allergenic potential beyond carbohydrate-based reactivity. <i>Clinical and Experimental Allergy</i> , 2012, 42, 976-985.	2.9	68
50	Detection of IgE to recombinant Api m 1 and rVes v 5 is valuable but not sufficient to distinguish bee from wasp venom allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 247-248.	2.9	74
51	Evaluation of Different Glycoforms of Honeybee Venom Major Allergen Phospholipase A2 (Api m 1) Produced in Insect Cells. <i>Protein and Peptide Letters</i> , 2011, 18, 415-422.	0.9	36
52	Api m 10, a genuine <i>A. mellifera</i> venom allergen, is clinically relevant but underrepresented in therapeutic extracts. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2011, 66, 1322-1329.	5.7	107
53	Substrate recognition by complement convertases revealed in the C5-cobra venom factor complex. <i>EMBO Journal</i> , 2011, 30, 606-616.	7.8	87
54	Generation and epitope analysis of human monoclonal antibody isotypes with specificity for the timothy grass major allergen Phl p 5a. <i>Molecular Immunology</i> , 2011, 48, 1236-1244.	2.2	17

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55	Quantitation of serum IgE by using chimeras of human IgE receptor and avian immunoglobulin domains. <i>Analytical Biochemistry</i> , 2011, 412, 134-140.	2.4	11
56	Close-up of the Immunogenic $\hat{\pm}$ 1,3-Galactose Epitope as Defined by a Monoclonal Chimeric Immunoglobulin E and Human Serum Using Saturation Transfer Difference (STD) NMR. <i>Journal of Biological Chemistry</i> , 2011, 286, 43103-43111.	3.4	27
57	Recombinant phospholipase A1 (Ves v 1) from yellow jacket venom for improved diagnosis of hymenoptera venom hypersensitivity. <i>Clinical and Molecular Allergy</i> , 2010, 8, 7.	1.8	51
58	Identification, Recombinant Expression, and Characterization of the 100 kDa High Molecular Weight Hymenoptera Venom Allergens Api m 5 and Ves v 3. <i>Journal of Immunology</i> , 2010, 184, 5403-5413.	0.8	114
59	Structural basis for inhibition of complement C5 by the SSL7 protein from <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3681-3686.	7.1	89
60	Dissecting cross-reactivity in hymenoptera venom allergy by circumvention of $\hat{\pm}$ 1,3-core fucosylation. <i>Molecular Immunology</i> , 2010, 47, 799-808.	2.2	105
61	Stereotypical Chronic Lymphocytic Leukemia B-Cell Receptors Recognize Survival Promoting Antigens on Stromal Cells. <i>PLoS ONE</i> , 2010, 5, e15992.	2.5	62
62	Establishment of hapten-specific monoclonal avian IgY by conversion of antibody fragments obtained from combinatorial libraries. <i>Biotechnology and Applied Biochemistry</i> , 2009, 52, 79.	3.1	9
63	Recombinant IgY for improvement of immunoglobulin-based analytical applications. <i>Clinical Biochemistry</i> , 2008, 41, 1237-1244.	1.9	14
64	Purification of Native and Recombinant Cobra Venom Factor Using Thiophilic Adsorption Chromatography. <i>Protein and Peptide Letters</i> , 2007, 14, 475-480.	0.9	4
65	Generation of Human Monoclonal Allergen-Specific IgE and IgG Antibodies from Synthetic Antibody Libraries. <i>Clinical Chemistry</i> , 2007, 53, 837-844.	3.2	26
66	Comparative expression of different antibody formats in mammalian cells and <i>Pichia pastoris</i> . <i>Biotechnology and Applied Biochemistry</i> , 2007, 47, 205-214.	3.1	22
67	High level expression of monomeric and dimeric human $\hat{\pm}$ 1,3-fucosyltransferase V. <i>Journal of Biotechnology</i> , 2006, 121, 448-457.	3.8	10
68	Bivalent monoclonal IgY antibody formats by conversion of recombinant antibody fragments. <i>Journal of Biotechnology</i> , 2006, 124, 446-456.	3.8	14
69	Molecular cloning and expression in insect cells of honeybee venom allergen acid phosphatase (Api m) Tj ETQq1 1 0.784314 $\mu$ gBT /Ov	2.9	99
70	Triosephosphate Isomerase- and Glyceraldehyde-3-Phosphate Dehydrogenase-Reactive Autoantibodies in the Cerebrospinal Fluid of Patients with Multiple Sclerosis. <i>Journal of Immunology</i> , 2006, 177, 5652-5658.	0.8	55
71	Inactivation of Complement by Recombinant Human C3 Derivatives. , 2006, 586, 347-360.		0
72	Engineering of human complement component C3 for catalytic inhibition of complement. <i>Immunology Letters</i> , 2005, 98, 49-56.	2.5	22

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73	Rapid detection of viruses using electrical biochips and anti-virion sera. Letters in Applied Microbiology, 2005, 40, 479-485.	2.2	21
74	Immobilized stem-loop structured probes as conformational switches for enzymatic detection of microbial 16S rRNA. Nucleic Acids Research, 2005, 33, e101-e101.	14.5	41
75	Malting Barley Grain Non-specific Lipid-Transfer Protein (ns-LTP): Importance for Grain Protection. Journal of the Institute of Brewing, 2005, 111, 99-104.	2.3	24
76	Complement Inactivation by Recombinant Human C3 Derivatives. Journal of Immunology, 2004, 173, 5540-5545.	0.8	26
77	Functional analysis of Cobra Venom Factor/human C3 chimeras transiently expressed in mammalian cells. Molecular Immunology, 2004, 41, 19-28.	2.2	10
78	Paratope-based protein identification by antibody and peptide phage display. Analytical Biochemistry, 2003, 321, 96-104.	2.4	6
79	pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S-transferase. Tropical Medicine and International Health, 1997, 2, 691-694.	2.3	0