

# Eva Stoeger

## List of Publications by Year in descending order

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100  
papers

8,279  
citations

46918

47  
h-index

46693

89  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular farming in plants: host systems and expression technology. Trends in Biotechnology, 2003, 21, 570-578.	4.9	627
2	Plant-based production of biopharmaceuticals. Current Opinion in Plant Biology, 2004, 7, 152-158.	3.5	563
3	Sowing the seeds of success: pharmaceutical proteins from plants. Current Opinion in Biotechnology, 2005, 16, 167-173.	3.3	315
4	Expression of snowdrop lectin (GNA) in transgenic rice plants confers resistance to rice brown planthopper. Plant Journal, 1998, 15, 469-477.	2.8	299
5	Particle bombardment and the genetic enhancement of crops: myths and realities. Molecular Breeding, 2005, 15, 305-327.	1.0	291
6	Molecular farming for new drugs and vaccines. EMBO Reports, 2005, 6, 593-599.	2.0	286
7	Cereal crops as viable production and storage systems for pharmaceutical scFv antibodies. Plant Molecular Biology, 2000, 42, 583-590.	2.0	283
8	Endosperm-Specific Co-Expression of Recombinant Soybean Ferritin and Aspergillus Phytase in Maize Results in Significant Increases in the Levels of Bioavailable Iron. Plant Molecular Biology, 2005, 59, 869-880.	2.0	252
9	Transgene integration, organization and interaction in plants. Plant Molecular Biology, 2003, 52, 247-258.	2.0	241
10	Plantibodies: applications, advantages and bottlenecks. Current Opinion in Biotechnology, 2002, 13, 161-166.	3.3	208
11	Regulatory approval and a first-in-human phase I clinical trial of a monoclonal antibody produced in transgenic tobacco plants. Plant Biotechnology Journal, 2015, 13, 1106-1120.	4.1	205
12	Flavonols Stimulate Development, Germination, and Tube Growth of Tobacco Pollen. Plant Physiology, 1992, 100, 902-907.	2.3	192
13	Title is missing!. Molecular Breeding, 1999, 5, 65-73.	1.0	177
14	Recombinant antibody 2G12 produced in maize endosperm efficiently neutralizes HIV-1 and contains predominantly single-N-glycans. Plant Biotechnology Journal, 2008, 6, 189-201.	4.1	166
15	Cost-effective production of a vaginal protein microbicide to prevent HIV transmission. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3727-3732.	3.3	154
16	Plant Molecular Pharming for the Treatment of Chronic and Infectious Diseases. Annual Review of Plant Biology, 2014, 65, 743-768.	8.6	154
17	Plant Molecular Farming: Much More than Medicines. Annual Review of Analytical Chemistry, 2016, 9, 271-294.	2.8	147
18	Heritable Genomic Fragment Deletions and Small Indels in the Putative ENGase Gene Induced by CRISPR/Cas9 in Barley. Frontiers in Plant Science, 2017, 8, 540.	1.7	146

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19	Practical considerations for pharmaceutical antibody production in different crop systems. <i>Molecular Breeding</i> , 2002, 9, 149-158.	1.0	142
20	The increasing value of plant-made proteins. <i>Current Opinion in Biotechnology</i> , 2015, 32, 163-170.	3.3	120
21	Constitutive expression of soybean ferritin cDNA in transgenic wheat and rice results in increased iron levels in vegetative tissues but not in seeds. <i>Transgenic Research</i> , 2000, 9, 445-452.	1.3	110
22	Rice cell culture as an alternative production system for functional diagnostic and therapeutic antibodies. <i>Transgenic Research</i> , 1999, 8, 441-449.	1.3	109
23	Biochemical and functional characterization of anti-HIV antibody-ELP fusion proteins from transgenic plants. <i>Plant Biotechnology Journal</i> , 2008, 6, 379-391.	4.1	109
24	Unexpected Deposition Patterns of Recombinant Proteins in Post-Endoplasmic Reticulum Compartments of Wheat Endosperm. <i>Plant Physiology</i> , 2004, 136, 3457-3466.	2.3	101
25	Cloning and Characterization of Purple Acid Phosphatase Phytases from Wheat, Barley, Maize, and Rice. <i>Plant Physiology</i> , 2011, 156, 1087-1100.	2.3	99
26	Influence of elastin-like peptide fusions on the quantity and quality of a tobacco-derived human immunodeficiency virus-neutralizing antibody. <i>Plant Biotechnology Journal</i> , 2009, 7, 899-913.	4.1	88
27	Heat-Stable Phytases in Transgenic Wheat ( <i>Triticum aestivum</i> L.): Deposition Pattern, Thermostability, and Phytate Hydrolysis. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4624-4632.	2.4	87
28	Functional analysis of the broadly neutralizing human anti-HIV-1 antibody 2F5 produced in transgenic BY-2 suspension cultures. <i>FASEB Journal</i> , 2007, 21, 1655-1664.	0.2	84
29	Molecular Characteristics of Transgenic Wheat and the Effect on Transgene Expression. <i>Transgenic Research</i> , 1998, 7, 463-471.	1.3	83
30	From gene to harvest: insights into upstream process development for the GMP production of a monoclonal antibody in transgenic tobacco plants. <i>Plant Biotechnology Journal</i> , 2015, 13, 1094-1105.	4.1	79
31	The Intracellular Fate of a Recombinant Protein Is Tissue Dependent. <i>Plant Physiology</i> , 2006, 141, 578-586.	2.3	77
32	The formation, function and fate of protein storage compartments in seeds. <i>Protoplasma</i> , 2012, 249, 379-392.	1.0	76
33	Expression and immunolocalisation of the snowdrop lectin, GNA in transgenic rice plants. <i>Transgenic Research</i> , 1998, 7, 371-378.	1.3	73
34	A recombinant multimeric immunoglobulin expressed in rice shows assembly-dependent subcellular localization in endosperm cells. <i>Plant Biotechnology Journal</i> , 2004, 3, 115-127.	4.1	73
35	Title is missing!. <i>Molecular Breeding</i> , 2000, 6, 345-352.	1.0	71
36	Targeted modification of plant genomes for precision crop breeding. <i>Biotechnology Journal</i> , 2017, 12, 1600173.	1.8	71

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37	Pea Legumin Overexpressed in Wheat Endosperm Assembles into an Ordered Paracrystalline Matrix. <i>Plant Physiology</i> , 2001, 125, 1732-1742.	2.3	70
38	Widely separated multiple transgene integration sites in wheat chromosomes are brought together at interphase. <i>Plant Journal</i> , 2000, 24, 713-723.	2.8	66
39	Native and Artificial Reticuloplasmins Co-Accumulate in Distinct Domains of the Endoplasmic Reticulum and in Post-Endoplasmic Reticulum Compartments. <i>Plant Physiology</i> , 2001, 127, 1212-1223.	2.3	65
40	The dynamic behavior of storage organelles in developing cereal seeds and its impact on the production of recombinant proteins. <i>Frontiers in Plant Science</i> , 2014, 5, 439.	1.7	65
41	The Quest to Understand the Basis and Mechanisms that Control Expression of Introduced Transgenes in Crop Plants. <i>Plant Signaling and Behavior</i> , 2006, 1, 185-195.	1.2	61
42	Extracellular Vesicles in Human Skin: Cross-Talk from Senescent Fibroblasts to Keratinocytes by miRNAs. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2425-2436.e5.	0.3	61
43	The architecture of interphase chromosomes and gene positioning are altered by changes in DNA methylation and histone acetylation. <i>Journal of Cell Science</i> , 2002, 115, 4597-4605.	1.2	59
44	Rice endosperm produces an underglycosylated and potent form of the HIV-1 neutralizing monoclonal antibody 2G12. <i>Plant Biotechnology Journal</i> , 2016, 14, 97-108.	4.1	58
45	Using storage organelles for the accumulation and encapsulation of recombinant proteins. <i>Biotechnology Journal</i> , 2012, 7, 1099-1108.	1.8	56
46	Plants as bioreactors: A comparative study suggests that <i>Medicago truncatula</i> is a promising production system. <i>Journal of Biotechnology</i> , 2005, 120, 121-134.	1.9	55
47	Fusion, rupture, and degeneration: the fate of in vivo-labelled PSVs in developing barley endosperm*. <i>Journal of Experimental Botany</i> , 2014, 65, 3249-3261.	2.4	52
48	Plant-based solutions for veterinary immunotherapeutics and prophylactics. <i>Veterinary Research</i> , 2014, 45, 117.	1.1	50
49	Non-food/feed seeds as biofactories for the high-yield production of recombinant pharmaceuticals. <i>Plant Biotechnology Journal</i> , 2011, 9, 911-921.	4.1	48
50	Characterization of a plant-produced recombinant human secretory IgA with broad neutralizing activity against HIV. <i>MAbs</i> , 2014, 6, 1585-1597.	2.6	47
51	A Welcome Proposal to Amend the GMO Legislation of the EU. <i>Trends in Biotechnology</i> , 2018, 36, 1100-1103.	4.9	47
52	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016, 34, 597-604.	6.0	46
53	Genome editing in cereal crops: an overview. <i>Transgenic Research</i> , 2021, 30, 461-498.	1.3	46
54	Constitutive versus seed specific expression in transgenic wheat: temporal and spatial control. <i>Transgenic Research</i> , 1999, 8, 73-82.	1.3	44

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55	Contributions of the international plant science community to the fight against human infectious diseases – part 1: epidemic and pandemic diseases. <i>Plant Biotechnology Journal</i> , 2021, 19, 1901-1920.	4.1	44
56	Subcellular Accumulation and Modification of Pharmaceutical Proteins in Different Plant Tissues. <i>Current Pharmaceutical Design</i> , 2013, 19, 5495-5502.	0.9	42
57	Transgenic Production of an Anti HIV Antibody in the Barley Endosperm. <i>PLoS ONE</i> , 2015, 10, e0140476.	1.1	41
58	The Changing Fate of a Secretory Glycoprotein in Developing Maize Endosperm. <i>Plant Physiology</i> , 2010, 153, 693-702.	2.3	40
59	Rice endosperm is cost-effective for the production of recombinant griffithsin with potent activity against HIV. <i>Plant Biotechnology Journal</i> , 2016, 14, 1427-1437.	4.1	40
60	Comparison of different techniques for gene transfer into mature and immature tobacco pollen. <i>Transgenic Research</i> , 1992, 1, 71-78.	1.3	39
61	Transgenic crops for the production of recombinant vaccines and anti-microbial antibodies. <i>Hum Vaccin</i> , 2011, 7, 367-374.	2.4	38
62	Influence of Elastin-Like Polypeptide and Hydrophobin on Recombinant Hemagglutinin Accumulations in Transgenic Tobacco Plants. <i>PLoS ONE</i> , 2014, 9, e99347.	1.1	38
63	Plant species and organ influence the structure and subcellular localization of recombinant glycoproteins. <i>Plant Molecular Biology</i> , 2013, 83, 105-117.	2.0	37
64	Predominant localization of the major <i>Alternaria</i> allergen Alt a 1 in the cell wall of airborne spores. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 1148-1149.	1.5	35
65	The architecture of interphase chromosomes and nucleolar transcription sites in plants. <i>Journal of Structural Biology</i> , 2002, 140, 31-38.	1.3	34
66	N-Glycosylation of the SARS-CoV-2 Receptor Binding Domain Is Important for Functional Expression in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 689104.	1.7	34
67	Overexpression of the wheat FK506-binding protein 73 (FKBP73) and the heat-induced wheat FKBP77 in transgenic wheat reveals different functions of the two isoforms. <i>Transgenic Research</i> , 2002, 11, 373-379.	1.3	33
68	Cell layer-specific distribution of transiently expressed barley ESCRT-III component HvVPS60 in developing barley endosperm. <i>Protoplasma</i> , 2016, 253, 137-153.	1.0	32
69	Contributions of the international plant science community to the fight against infectious diseases in humans – part 2: Affordable drugs in edible plants for endemic and re-emerging diseases. <i>Plant Biotechnology Journal</i> , 2021, 19, 1921-1936.	4.1	31
70	Using RT-qPCR, Proteomics, and Microscopy to Unravel the Spatio-Temporal Expression and Subcellular Localization of Hordoindolines Across Development in Barley Endosperm. <i>Frontiers in Plant Science</i> , 2018, 9, 775.	1.7	26
71	Large-scale chromatin decondensation induced in a developmentally activated transgene locus. <i>Journal of Cell Science</i> , 2005, 118, 1021-1031.	1.2	22
72	Live Cell Imaging During Germination Reveals Dynamic Tubular Structures Derived from Protein Storage Vacuoles of Barley Aleurone Cells. <i>Plants</i> , 2014, 3, 442-457.	1.6	22

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73	Functional specialization of <i>Medicago truncatula</i> leaves and seeds does not affect the subcellular localization of a recombinant protein. <i>Planta</i> , 2008, 227, 649-658.	1.6	20
74	The Induction of Recombinant Protein Bodies in Different Subcellular Compartments Reveals a Cryptic Plastid-Targeting Signal in the 27-kDa $\beta$ -Zein Sequence. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 67.	2.0	19
75	Cloning and plant-based production of antibody $\mu$ 10E7 for a lateral flow immunoassay to detect [4-arginine]microcystin in freshwater. <i>Plant Biotechnology Journal</i> , 2018, 16, 27-38.	4.1	19
76	High levels of stable phytase accumulate in the culture medium of transgenic <i>Medicago truncatula</i> cell suspension cultures. <i>Biotechnology Journal</i> , 2008, 3, 916-923.	1.8	18
77	Microscopic and Proteomic Analysis of Dissected Developing Barley Endosperm Layers Reveals the Starchy Endosperm as Prominent Storage Tissue for ER-Derived Hordeins Alongside the Accumulation of Barley Protein Disulfide Isomerase (HvPDIL1-1). <i>Frontiers in Plant Science</i> , 2018, 9, 1248.	1.7	18
78	Maize 16-kD $\beta$ -zein forms very unusual disulfide-bonded polymers in the endoplasmic reticulum: implications for prolamin evolution. <i>Journal of Experimental Botany</i> , 2018, 69, 5013-5027.	2.4	16
79	The Encapsulation of Hemagglutinin in Protein Bodies Achieves a Stronger Immune Response in Mice than the Soluble Antigen. <i>Frontiers in Plant Science</i> , 2016, 7, 142.	1.7	15
80	Production and Localization of Recombinant Pharmaceuticals in Transgenic Seeds. <i>Methods in Molecular Biology</i> , 2009, 483, 69-87.	0.4	14
81	LALF <sub>32-51</sub> $\mu$ 10E7, a HPV16 therapeutic vaccine candidate, forms protein body-like structures when expressed in <i>Nicotiana benthamiana</i> leaves. <i>Plant Biotechnology Journal</i> , 2018, 16, 628-637.	4.1	14
82	Glyco-Engineering of Plant-Based Expression Systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2018, 175, 137-166.	0.6	13
83	Accelerated production of transgenic wheat ( <i>Triticum aestivum</i> L.) plants. <i>Plant Cell Reports</i> , 1996, 16, 12-17.	2.8	13
84	Plant-derived protein bodies as delivery vehicles for recombinant proteins into mammalian cells. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1037-1047.	1.7	12
85	In situ methods to localize transgenes and transcripts in interphase nuclei: a tool for transgenic plant research. <i>Plant Methods</i> , 2006, 2, 18.	1.9	11
86	Protein sorting into protein bodies during barley endosperm development is putatively regulated by cytoskeleton members, MVBs and the HvSNF7s. <i>Scientific Reports</i> , 2020, 10, 1864.	1.6	11
87	Russell-Like Bodies in Plant Seeds Share Common Features With Prolamin Bodies and Occur Upon Recombinant Protein Production. <i>Frontiers in Plant Science</i> , 2019, 10, 777.	1.7	10
88	CRISPR/Cas9-mediated knockout of a prolyl-4-hydroxylase subfamily in <i>Nicotiana benthamiana</i> using DsRed2 for plant selection. <i>Biotechnology Journal</i> , 2022, 17, e2100698.	1.8	9
89	Impact of Specific N-Glycan Modifications on the Use of Plant-Produced SARS-CoV-2 Antigens in Serological Assays. <i>Frontiers in Plant Science</i> , 2021, 12, 747500.	1.7	8
90	Efficient recovery of recombinant proteins from cereal endosperm is affected by interaction with endogenous storage proteins. <i>Biotechnology Journal</i> , 2013, 8, 1203-1212.	1.8	7

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91	Microparticles and Nanoparticles from Plants – The Benefits of Bioencapsulation. <i>Vaccines</i> , 2021, 9, 369.	2.1	7
92	Editorial: From plant biotechnology to bio-based products. <i>Biotechnology Journal</i> , 2013, 8, 1122-1123.	1.8	6
93	Imaging the ER and Endomembrane System in Cereal Endosperm. <i>Methods in Molecular Biology</i> , 2018, 1691, 251-262.	0.4	6
94	Plant bioreactors – the taste of sweet success. <i>Biotechnology Journal</i> , 2012, 7, 475-476.	1.8	5
95	Detection of CRISPR/Cas9-Induced Genomic Fragment Deletions in Barley and Generation of Homozygous Edited Lines via Embryogenic Pollen Culture. <i>Methods in Molecular Biology</i> , 2018, 1789, 9-20.	0.4	4
96	Molecular Farming in Seed Crops: Gene Transfer into Barley ( <i>Hordeum vulgare</i> ) and Wheat ( <i>Triticum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.4	0.4	4
97	Monocot Expression Systems for Molecular Farming. , 2005, , 55-67.		3
98	Progressive Aggregation of 16 kDa Gamma-Zein during Seed Maturation in Transgenic <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 12671.	1.8	3
99	Crop Plants for Molecular Farming. , 0, , .		0
100	Editorial: CRISPR and alternative approaches. <i>Biotechnology Journal</i> , 2022, 17, .	1.8	0