# Stefan Schillberg

List of Publications by Year
in descending order

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| 175 | 7,051 | 66343 | 69250 |
|---|---|---|---|
| papers | citations | 42 h-index | 77 g-index |

| 188 | 188 | 188 | 5047 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular farming in plants: host systems and expression technology. Trends in Biotechnology, 2003, 21, 570-578. | 9.3 | 627 |
| 2 | Plant-based production of biopharmaceuticals. Current Opinion in Plant Biology, 2004, 7, 152-158. | 7.1 | 563 |
| 3 | Molecular farming for new drugs and vaccines. EMBO Reports, 2005, 6, 593-599. | 4.5 | 286 |
| 4 | Transient expression of a tumor-specific single-chain fragment and a chimeric antibody in tobacco leaves. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11128-11133. | 7.1 | 228 |
| 5 | GMP issues for recombinant plant-derived pharmaceutical proteins. Biotechnology Advances, 2012, 30, 434-439. | 11.7 | 201 |
| 6 | Transgenic plants in the biopharmaceutical market. Expert Opinion on Emerging Drugs, 2005, 10, 185-218. | 2.4 | 172 |
| 7 | Critical Analysis of the Commercial Potential of Plants for the Production of Recombinant Proteins. Frontiers in Plant Science, 2019, 10, 720. | 3.6 | 171 |
| 8 | Patterns of CRISPR/Cas9 activity in plants, animals and microbes. Plant Biotechnology Journal, 2016, 14, 2203-2216. | 8.3 | 141 |
| 9 | Molecular Farming of Recombinant Antibodies in Plants. Biological Chemistry, 1999, 380, 825-39. | 2.5 | 139 |
| 10 | Molecular farming of recombinant antibodies in plants. Cellular and Molecular Life Sciences, 2003, 60, 433-445. | 5.4 | 139 |
| 11 | Potential Applications of Plant Biotechnology against SARS-CoV-2. Trends in Plant Science, 2020, 25, 635-643. | 8.8 | 135 |
| 12 | Opportunities for recombinant antigen and antibody expression in transgenic plantsâ€”technology assessment. Vaccine, 2005, 23, 1764-1769. | 3.8 | 123 |
| 13 | Characteristics of Genome Editing Mutations in Cereal Crops. Trends in Plant Science, 2017, 22, 38-52. | 8.8 | 122 |
| 14 | Molecular Farming of Pharmaceutical Proteins Using Plant Suspension Cell and Tissue Cultures. Current Pharmaceutical Design, 2013, 19, 5531-5542. | 1.9 | 116 |
| 15 | Commercial Aspects of Pharmaceutical Protein Production in Plants. Current Pharmaceutical Design, 2013, 19, 5471-5477. | 1.9 | 114 |
| 16 | Title is missing!. Molecular Breeding, 1998, 4, 369-379. | 2.1 | 104 |
| 17 | Apoplastic and cytosolic expression of full-size antibodies and antibody fragments in Nicotiana tabacum. Transgenic Research, 1999, 8, 255-263. | 2.4 | 101 |
| 18 | Expression and characterization of bispecific single-chain Fv fragments produced in transgenic plants. FEBS Journal, 1999, 262, 810-816. | 0.2 | 94 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The expression of a recombinant glycolate dehydrogenase polyprotein in potato (<scp>S</scp>olanum tuberosum) plastids strongly enhances photosynthesis and tuber yield. Plant Biotechnology Journal, 2014, 12, 734-742. | 8.3 | 88 |
| 20 | Scaledâ€up manufacturing of recombinant antibodies produced by plant cells in a 200â€L orbitallyâ€shaken disposable bioreactor. Biotechnology and Bioengineering, 2015, 112, 308-321. | 3.3 | 88 |
| 21 | Plant molecular farming for the production of valuable proteins â€“ Critical evaluation of achievements and future challenges. Journal of Plant Physiology, 2021, 258-259, 153359. | 3.5 | 87 |
| 22 | Optimizing the Yield of Recombinant Pharmaceutical Proteins in Plants. Current Pharmaceutical Design, 2013, 19, 5486-5494. | 1.9 | 77 |
| 23 | A Plant Pathogen Type III Effector Protein Subverts Translational Regulation to Boost Host Polyamine Levels. Cell Host and Microbe, 2019, 26, 638-649.e5. | 11.0 | 68 |
| 24 | Monoclonal tobacco cell lines with enhanced recombinant protein yields can be generated from heterogeneous cell suspension cultures by flow sorting. Plant Biotechnology Journal, 2012, 10, 936-944. | 8.3 | 67 |
| 25 | Molecular farming in tobacco hairy roots by triggering the secretion of a pharmaceutical antibody. Biotechnology and Bioengineering, 2014, 111, 336-346. | 3.3 | 67 |
| 26 | A versatile coupled cellâ€free transcriptionâ€“translation system based on tobacco BYâ€2 cell lysates. Biotechnology and Bioengineering, 2015, 112, 867-878. | 3.3 | 67 |
| 27 | Antibody molecular farming in plants and plant cells. Phytochemistry Reviews, 2002, 1, 45-54. | 6.5 | 65 |
| 28 | Production of antibodies in plants and their use for global health. Vaccine, 2003, 21, 820-825. | 3.8 | 65 |
| 29 | Production ofDesmodus rotundus salivary plasminogen activator ?1 (DSPA?1) in tobacco is hampered by proteolysis. Biotechnology and Bioengineering, 2005, 89, 848-858. | 3.3 | 64 |
| 30 | Tobacco BY-2 cell-free lysate: an alternative and highly-productive plant-based in vitro translation system. BMC Biotechnology, 2014, 14, 37. | 3.3 | 62 |
| 31 | High-value products from plants: the challenges of process optimization. Current Opinion in Biotechnology, 2015, 32, 156-162. | 6.6 | 60 |
| 32 | Antibody-based resistance to plant pathogens. Transgenic Research, 2001, 10, 1-12. | 2.4 | 58 |
| 33 | Optimization of <scp>BY</scp>â€2 cell suspension culture medium for the production of a human antibody using a combination of fractional factorial designs and the response surface method. Plant Biotechnology Journal, 2013, 11, 867-874. | 8.3 | 57 |
| 34 | Targeting Tryptophan Decarboxylase to Selected Subcellular Compartments of Tobacco Plants Affects Enzyme Stability and in Vivo Function and Leads to a Lesion-Mimic Phenotype. Plant Physiology, 2002, 129, 1160-1169. | 4.8 | 53 |
| 35 | Correlation between mass transfer coefficient kLa and relevant operating parameters in cylindrical disposable shaken bioreactors on a bench-to-pilot scale. Journal of Biological Engineering, 2013, 7, 28. | 4.7 | 52 |
| 36 | Genome Editing in Agriculture: Technical and Practical Considerations. International Journal of Molecular Sciences, 2019, 20, 2888. | 4.1 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Tackling Unwanted Proteolysis in Plant Production Hosts Used for Molecular Farming. Frontiers in Plant Science, 2016, 7, 267. | 3.6 | 49 |
| 38 | Simple and Portable Magnetic Immunoassay for Rapid Detection and Sensitive Quantification of Plant Viruses. Applied and Environmental Microbiology, 2015, 81, 3039-3048. | 3.1 | 48 |
| 39 | Antibody-mediated resistance against plant pathogens. Biotechnology Advances, 2011, 29, 961-971. | 11.7 | 46 |
| 40 | Improved fluoroquinolone detection in ELISA through engineering of a broad-specific single-chain variable fragment binding simultaneously to 20 fluoroquinolones. Analytical and Bioanalytical Chemistry, 2012, 403, 2771-2783. | 3.7 | 46 |
| 41 | CRISPR/Cas9 activity in the rice OsBEIIb gene does not induce off-target effects in the closely related paralog OsBEIIa. Molecular Breeding, 2016, 36, 1. | 2.1 | 45 |
| 42 | Inhibition of protease activity by antisense RNA improves recombinant protein production in Nicotiana tabacum cv. Bright Yellow 2 (BYâ€2) suspension cells. Biotechnology Journal, 2014, 9, 1065-1073. | 3.5 | 44 |
| 43 | Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920. | 8.3 | 44 |
| 44 | Title is missing!. Molecular Breeding, 2000, 6, 317-326. | 2.1 | 43 |
| 45 | 'Molecular farming' of antibodies in plants. Die Naturwissenschaften, 2003, 90, 145-155. | 1.6 | 43 |
| 46 | Protective Oral Vaccination against Infectious bursal disease virus Using the Major Viral Antigenic Protein VP2 Produced in Pichia pastoris. PLoS ONE, 2013, 8, e83210. | 2.5 | 42 |
| 47 | Accumulation of antibody fusion proteins in the cytoplasm and ER of plant cells. Plant Science, 1999, 149, 63-71. | 3.6 | 39 |
| 48 | Structured plant metabolomics for the simultaneous exploration of multiple factors. Scientific Reports, 2016, 6, 37390. | 3.3 | 39 |
| 49 | Analysis of a Multi-component Multi-stage Malaria Vaccine Candidateâ€”Tackling the Cocktail Challenge. PLoS ONE, 2015, 10, e0131456. | 2.5 | 38 |
| 50 | Evaluation of tobacco (Nicotiana tabacum L. cv. Petit Havana SR1) hairy roots for the production of geraniol, the first committed step in terpenoid indole alkaloid pathway. Journal of Biotechnology, 2014, 176, 20-28. | 3.8 | 36 |
| 51 | Plant-Based Production of Recombinant Plasmodium Surface Protein Pf38 and Evaluation of its Potential as a Vaccine Candidate. PLoS ONE, 2013, 8, e79920. | 2.5 | 36 |
| 52 | Transient transformation of the rust fungus Puccinia graminis f. sp. tritici. Molecular Genetics and Genomics, 2000, 262, 911-915. | 2.4 | 35 |
| 53 | Comprehensive characterization of two different Nicotiana tabacum cell lines leads to doubled GFP and HA protein production by media optimization. Journal of Bioscience and Bioengineering, 2012, 113, 242-248. | 2.2 | 33 |
| 54 | Grapevine fanleaf virus (GFLV)â€specific antibodies confer GFLV and Arabis mosaic virus (ArMV) resistance in Nicotiana benthamiana. Molecular Plant Pathology, 2009, 10, 41-49. | 4.2 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Heatâ€precipitation allows the efficient purification of a functional plantâ€derived malaria transmissionâ€blocking vaccine candidate fusion protein. Biotechnology and Bioengineering, 2015, 112, 1297-1305. | 3.3 | 32 |
| 56 | Detailed functional characterization of glycosylated and nonglycosylated variants of malaria vaccine candidate Pf<scp>AMA</scp>1 produced in Nicotiana benthamiana and analysis of growth inhibitory responses in rabbits. Plant Biotechnology Journal, 2015, 13, 222-234. | 8.3 | 32 |
| 57 | A membrane-bound matrix metalloproteinase from Nicotiana tabacum cv. BY-2 is induced by bacterial pathogens. BMC Plant Biology, 2009, 9, 83. | 3.6 | 31 |
| 58 | Contributions of the international plant science community to the fight against infectious diseases in humansâ€”part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936. | 8.3 | 31 |
| 59 | Infrared picosecond laser for perforation of single plant cells. Biotechnology and Bioengineering, 2008, 99, 244-248. | 3.3 | 30 |
| 60 | Viral and murine interleukin-10 are correctly processed and retain their biological activity when produced in tobacco. BMC Biotechnology, 2009, 9, 22. | 3.3 | 30 |
| 61 | Assessment of Cultivation Factors that Affect Biomass and Geraniol Production in Transgenic Tobacco Cell Suspension Cultures. PLoS ONE, 2014, 9, e104620. | 2.5 | 30 |
| 62 | Comparison of plant-based expression platforms for the heterologous production of geraniol. Plant Cell, Tissue and Organ Culture, 2014, 117, 373. | 2.3 | 28 |
| 63 | Targeted gene exchange in plant cells mediated by a zinc finger nuclease double cut. Plant Biotechnology Journal, 2016, 14, 1151-1160. | 8.3 | 28 |
| 64 | The production of recombinant cationic Î±â€helical antimicrobial peptides in plant cells induces the formation of protein bodies derived from the endoplasmic reticulum. Plant Biotechnology Journal, 2014, 12, 81-92. | 8.3 | 27 |
| 65 | The immunome of soy bean allergy: Comprehensive identification and characterization of epitopes. Clinical and Experimental Allergy, 2019, 49, 239-251. | 2.9 | 27 |
| 66 | Transient gene expression of recombinant terpenoid indole alkaloid enzymes inCatharanthus roseus leaves. Plant Molecular Biology Reporter, 2004, 22, 15-22. | 1.8 | 26 |
| 67 | Combination of two epitope identification techniques enables the rational design of soy allergen Gly m 4 mutants. Biotechnology Journal, 2017, 12, 1600441. | 3.5 | 26 |
| 68 | Simplified Tracking of a Soy Allergen in Processed Food Using a Monoclonal Antibody-Based Sandwich ELISA Targeting the Soybean 2S Albumin Gly m 8. Journal of Agricultural and Food Chemistry, 2019, 67, 8660-8667. | 5.2 | 26 |
| 69 | Malaria vaccine candidate antigen targeting the preâ€erythrocytic stage of Plasmodium falciparum produced at high level in plants. Biotechnology Journal, 2014, 9, 1435-1445. | 3.5 | 25 |
| 70 | Developments in the production of mucosal antibodies in plants. Biotechnology Advances, 2016, 34, 77-87. | 11.7 | 25 |
| 71 | Animal componentâ€free Agrobacterium tumefaciens cultivation media for better GMPâ€compliance increases biomass yield and pharmaceutical protein expression in Nicotiana benthamiana. Biotechnology Journal, 2017, 12, 1600721. | 3.5 | 25 |
| 72 | Immunomodulation of polyamine biosynthesis in tobacco plants has a significant impact on polyamine levels and generates a dwarf phenotype. Plant Biotechnology Journal, 2005, 3, 237-247. | 8.3 | 24 |

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|---|---|---|---|
| 73 | The Integration of Algal Carbon Concentration Mechanism Components into Tobacco Chloroplasts Increases Photosynthetic Efficiency and Biomass. Biotechnology Journal, 2019, 14, 1800170. | 3.5 | 24 |
| 74 | Production of an active recombinant thrombomodulin derivative in transgenic tobacco plants and suspension cells. Transgenic Research, 2005, 14, 251-259. | 2.4 | 23 |
| 75 | Biochemical properties of the matrix metalloproteinase NtMMP1 from Nicotiana tabacum cv. BY-2 suspension cells. Planta, 2010, 232, 899-910. | 3.2 | 23 |
| 76 | Application of a Scalable Plant Transient Gene Expression Platform for Malaria Vaccine Development. Frontiers in Plant Science, 2015, 6, 1169. | 3.6 | 23 |
| 77 | Sensitive Aflatoxin B1 Detection Using Nanoparticle-Based Competitive Magnetic Immunodetection. Toxins, 2020, 12, 337. | 3.4 | 23 |
| 78 | Saturation mutagenesis to improve the degradation of azo dyes by versatile peroxidase and application in form of VP-coated yeast cell walls. Enzyme and Microbial Technology, 2020, 136, 109509. | 3.2 | 22 |
| 79 | Development of an optimized tetracycline-inducible expression system to increase the accumulation of interleukin-10 in tobacco BY-2 suspension cells. BMC Biotechnology, 2012, 12, 40. | 3.3 | 20 |
| 80 | Genome editing: intellectual property and product development in plant biotechnology. Plant Cell Reports, 2016, 35, 1487-1491. | 5.6 | 20 |
| 81 | Tackling Heterogeneity: A Leaf Disc-Based Assay for the High-Throughput Screening of Transient Gene Expression in Tobacco. PLoS ONE, 2012, 7, e45803. | 2.5 | 20 |
| 82 | Facing the Future with Pharmaceuticals from Plants. , 2007, , 13-32. | | 19 |
| 83 | Generation and characterization of a recombinant antibody fragment that binds to the coat protein of grapevine leafroll-associated virus 3. Archives of Virology, 2008, 153, 1075-1084. | 2.1 | 19 |
| 84 | Affinity purification of a framework 1 engineered mouse/human chimeric IgA2 antibody from tobacco. Biotechnology and Bioengineering, 2011, 108, 2804-2814. | 3.3 | 19 |
| 85 | Analysis of the dose-dependent stage-specific in vitro efficacy of a multi-stage malaria vaccine candidate cocktail. Malaria Journal, 2016, 15, 279. | 2.3 | 19 |
| 86 | Combined 15N-Labeling and TandemMOAC Quantifies Phosphorylation of MAP Kinase Substrates Downstream of MKK7 in Arabidopsis. Frontiers in Plant Science, 2017, 8, 2050. | 3.6 | 19 |
| 87 | Aspergillus-specific antibodies â€“ Targets and applications. Biotechnology Advances, 2018, 36, 1167-1184. | 11.7 | 18 |
| 88 | Production of therapeutic antibodies in plants. Expert Opinion on Biological Therapy, 2003, 3, 1153-1162. | 3.1 | 17 |
| 89 | Recombinant human tissue transglutaminase produced into tobacco suspension cell cultures is active and recognizes autoantibodies in the serum of coeliac patients. International Journal of Biochemistry and Cell Biology, 2005, 37, 842-851. | 2.8 | 17 |
| 90 | Abscisic acid and the herbicide safener cyprosulfamide cooperatively enhance abiotic stress tolerance in rice. Molecular Breeding, 2013, 32, 463-484. | 2.1 | 17 |

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|---|---|---|---|
| 91 | Simultaneous Treatment with Tebuconazole and Abscisic Acid Induces Drought and Salinity Stress Tolerance in Arabidopsis thaliana by Maintaining Key Plastid Protein Levels. Journal of Proteome Research, 2013, 12, 1266-1281. | 3.7 | 17 |
| 92 | The stageâ€specific in vitro efficacy of a malaria antigen cocktail provides valuable insights into the development of effective multiâ€stage vaccines. Biotechnology Journal, 2015, 10, 1651-1659. | 3.5 | 17 |
| 93 | Monoclonal Antibody AP3 Binds Galactomannan Antigens Displayed by the Pathogens Aspergillus flavus, A. fumigatus, and A. parasiticus. Frontiers in Cellular and Infection Microbiology, 2019, 9, 234. | 3.9 | 17 |
| 94 | Molecular farming of antibodies in plants. , 2007, , 435-469. | | 17 |
| 95 | Thanatin confers partial resistance against aflatoxigenic fungi in maize (Zea mays). Transgenic Research, 2015, 24, 885-895. | 2.4 | 16 |
| 96 | Statistical experimental designs for the production of secondary metabolites in plant cell suspension cultures. Biotechnology Letters, 2016, 38, 2007-2014. | 2.2 | 16 |
| 97 | Improved degradation of azo dyes by lignin peroxidase following mutagenesis at two sites near the catalytic pocket and the application of peroxidase-coated yeast cell walls. Frontiers of Environmental Science and Engineering, 2021, 15, 1. | 6.0 | 16 |
| 98 | One-Step Protein Purification: Use of a Novel Epitope Tag for Highly Efficient Detection and Purification of Recombinant Proteins. Open Biotechnology Journal, 2011, 5, 1-6. | 1.2 | 15 |
| 99 | The Production of Vaccines and Therapeutic Antibodies in Plants. , 2012, , 145-159. | | 14 |
| 100 | Optimization of a multiâ€stage, multiâ€subunit malaria vaccine candidate for the production in Pichia pastoris by the identification and removal of protease cleavage sites. Biotechnology and Bioengineering, 2015, 112, 659-667. | 3.3 | 14 |
| 101 | More for less: Improving the biomass yield of a pear cell suspension culture by design of experiments. Scientific Reports, 2016, 6, 23371. | 3.3 | 14 |
| 102 | Isolation and characterization of the EF-1? gene of the filamentous fungus Puccinia graminis f. sp. tritici. Current Genetics, 1995, 27, 367-372. | 1.7 | 13 |
| 103 | GST fusion proteins cause false positives during selection of viral movement protein specific single chain antibodies. Journal of Virological Methods, 2001, 91, 139-147. | 2.1 | 13 |
| 104 | Efficient and Reliable Production of Pharmaceuticals in Alfalfa. , 2005, , 1-12. | | 13 |
| 105 | Generation and evaluation of movement proteinâ€specific singleâ€chain antibodies for delaying symptoms of Tomato spotted wilt virus infection in tobacco. Plant Pathology, 2008, 57, 854-860. | 2.4 | 13 |
| 106 | Comparative Evaluation of Heterologous Production Systems for Recombinant Pulmonary Surfactant Protein D. Frontiers in Immunology, 2014, 5, 623. | 4.8 | 13 |
| 107 | Image-based analysis of cell-specific productivity for plant cell suspension cultures. Plant Cell, Tissue and Organ Culture, 2014, 117, 393-399. | 2.3 | 13 |
| 108 | Glyco-Engineering of Plant-Based Expression Systems. Advances in Biochemical Engineering/Biotechnology, 2018, 175, 137-166. | 1.1 | 13 |

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|---|---|---|---|
| 109 | Achieving plant disease resistance by antibody expression. Canadian Journal of Plant Pathology, 2001, 23, 236-245. | 1.4 | 12 |
| 110 | Antibody Production in Transgenic Plants. , 2004, 248, 301-318. | | 12 |
| 111 | Targeted insertion of large <scp>DNA</scp> sequences by homologyâ€directed repair or nonâ€homologous end joining in engineered tobacco <scp>BY</scp>â€2 cells using designed zinc finger nucleases. Plant Direct, 2019, 3, e00153. | 1.9 | 12 |
| 112 | An assay for the detection of grapevine leafroll-associated virus 3 using a single-chain fragment variable antibody. Archives of Virology, 2009, 154, 19-26. | 2.1 | 11 |
| 113 | Molecular farming of human tissue transglutaminase in tobacco plants. Amino Acids, 2009, 36, 765-772. | 2.7 | 11 |
| 114 | Plant expression and characterization of the transmission-blocking vaccine candidate PfGAP50. BMC Biotechnology, 2015, 15, 108. | 3.3 | 11 |
| 115 | The potato granule bound starch synthase chloroplast transit peptide directs recombinant proteins to plastids. Journal of Plant Physiology, 2002, 159, 1061-1067. | 3.5 | 10 |
| 116 | Molecular pharming in plants and plant cell cultures: a great future ahead?. Pharmaceutical Bioprocessing, 2014, 2, 223-226. | 0.8 | 10 |
| 117 | Polyamines delay leaf maturation in lowâ€alkaloid tobacco varieties. Plant Direct, 2018, 2, e00077. | 1.9 | 10 |
| 118 | Antibody-based metabolic engineering in plants. Journal of Biotechnology, 2006, 124, 271-283. | 3.8 | 9 |
| 119 | A monoclonal antibody that specifically binds chitosan in vitro and in situ on fungal cell walls. Journal of Microbiology and Biotechnology, 2010, 20, 1179-1184. | 2.1 | 9 |
| 120 | Next-generation sequencing is a robust strategy for the high-throughput detection of zygosity in transgenic maize. Transgenic Research, 2015, 24, 615-623. | 2.4 | 9 |
| 121 | Molecular Farming of Medicines: A Field of Growing Promise. Outlook on Agriculture, 2001, 30, 31-36. | 3.4 | 8 |
| 122 | A Plant-Based Transient Expression System for the Rapid Production of Malaria Vaccine Candidates. Methods in Molecular Biology, 2016, 1404, 597-619. | 0.9 | 8 |
| 123 | Proteomic analysis of CHO cell lines producing high and low quantities of a recombinant antibody before and after selection with methotrexate. Journal of Biotechnology, 2018, 265, 65-69. | 3.8 | 8 |
| 124 | Improvement in oxidative stability of versatile peroxidase by flow cytometry-based high-throughput screening system. Biochemical Engineering Journal, 2020, 157, 107555. | 3.6 | 8 |
| 125 | Flow cytometry-based system for screening of lignin peroxidase mutants with higher oxidative stability. Journal of Bioscience and Bioengineering, 2020, 129, 664-671. | 2.2 | 8 |
| 126 | Molecular Farming in Plants: Technology Platforms. , 2004, , 753-756. | | 8 |

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|---|---|---|---|
| 127 | Recombinant Protein Production in Plants: A Brief Overview of Strengths and Challenges. Methods in Molecular Biology, 2022, , 1-13. | 0.9 | 8 |
| 128 | Improving environmental stress resilience in crops by genome editing: insights from extremophile plants. Critical Reviews in Biotechnology, 2023, 43, 559-574. | 9.0 | 8 |
| 129 | Foreign Protein Expression Using Plant Cell Suspension and Hairy Root Cultures. , 2005, , 13-36. | | 7 |
| 130 | Molecular Farming of Antibodies in Plants. , 2009, , 35-63. | | 7 |
| 131 | Molecular Farming in Plants: The Long Road to the Market. Biotechnology in Agriculture and Forestry, 2014, , 27-41. | 0.2 | 7 |
| 132 | A downstream process allowing the efficient isolation of a recombinant amphiphilic protein from tobacco leaves. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 960, 34-42. | 2.3 | 7 |
| 133 | Yeast surface display is a novel tool for the rapid immunological characterization of plant-derived food allergens. Immunologic Research, 2015, 61, 230-239. | 2.9 | 7 |
| 134 | Gene expression variability between randomly and targeted transgene integration events in tobacco suspension cell lines. Plant Biotechnology Reports, 2020, 14, 451-458. | 1.5 | 7 |
| 135 | Plant Cell-Based Recombinant Antibody Manufacturing with a 200 L Orbitally Shaken Disposable Bioreactor. Methods in Molecular Biology, 2016, 1385, 161-172. | 0.9 | 7 |
| 136 | Generation and Expression in Plants of a Single-Chain Variable Fragment Antibody Against the Immunodominant Membrane Protein of Candidatus Phytoplasma Aurantifolia. Journal of Microbiology and Biotechnology, 2013, 23, 1047-1054. | 2.1 | 7 |
| 137 | Plant-derived chimeric antibodies inhibit the invasion of human fibroblasts byToxoplasma gondii. PeerJ, 2018, 6, e5780. | 2.0 | 7 |
| 138 | Biosafety Aspects of Molecular Farming in Plants. , 2005, , 251-266. | | 6 |
| 139 | Impedance-controlled cell entrapment using microhole-array chips allows the isolation and identification of single, highly productive cells. Sensors and Actuators B: Chemical, 2011, 158, 345-352. | 7.8 | 6 |
| 140 | An Immunohistochemical Assay on Human Tissue using a Human Primary Antibody. Journal of Immunoassay and Immunochemistry, 2014, 35, 322-334. | 1.1 | 6 |
| 141 | Targeted mutagenesis in Nicotiana tabacum ADF gene using shockwaveâ€mediated ribonucleoprotein delivery increases osmotic stress tolerance. Physiologia Plantarum, 2021, 173, 993-1007. | 5.2 | 6 |
| 142 | Selection and characterization of two monoclonal antibodies specific for the Aspergillus flavus major antigenic cell wall protein Aflmp1. Fungal Biology, 2021, 125, 621-629. | 2.5 | 6 |
| 143 | Plant-Based Cell-Free Transcription and Translation of Recombinant Proteins. Methods in Molecular Biology, 2022, , 113-124. | 0.9 | 6 |
| 144 | Optimizing Expression of a Rare Codon-Rich Viral Protein in Escherichia coli Using the IMPACT System. Analytical Biochemistry, 1999, 271, 202-204. | 2.4 | 5 |

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|---|---|---|---|
| 145 | Pharmaceuticals. Biotechnology in Agriculture and Forestry, 2010, , 221-235. | 0.2 | 5 |
| 146 | A potential nanobiotechnology platform based on infectious bursal disease subviral particles. RSC Advances, 2012, 2, 1970. | 3.6 | 5 |
| 147 | Impact of nicotine pathway downregulation on polyamine biosynthesis and leaf ripening in tobacco. Plant Direct, 2021, 5, e00329. | 1.9 | 5 |
| 148 | Characterization and Applications of Plant-Derived Recombinant Antibodies. Methods in Biotechnology, 1998, , 129-142. | 0.2 | 5 |
| 149 | Plant-Derived Cell-Free Biofactories for the Production of Secondary Metabolites. Frontiers in Plant Science, 2021, 12, 794999. | 3.6 | 5 |
| 150 | Construction and Characterization of a Single-chain Antibody Fragment Derived from Thymus of a Patient with Myasthenia Gravis. Autoimmunity, 2002, 35, 125-133. | 2.6 | 4 |
| 151 | Production of Pharmaceutical Proteins in Plants and Plant Cell Suspension Cultures. , 2005, , 91-112. | | 4 |
| 152 | Next-generation sequencing of amplicons is a rapid and reliable method for the detection of polymorphisms relevant for barley breeding. Molecular Breeding, 2016, 36, 1. | 2.1 | 4 |
| 153 | Analysis of hybrids obtained by rare-mating of Saccharomyces strains. Applied Microbiology and Biotechnology, 1991, 35, 242. | 3.6 | 3 |
| 154 | Host Plants, Systems and Expression Strategies for Molecular Farming. , 2005, , 191-216. | | 3 |
| 155 | Monocot Expression Systems for Molecular Farming. , 2005, , 55-67. | | 3 |
| 156 | Immunization with the Malaria Diversity-Covering Blood-Stage Vaccine Candidate Plasmodium falciparum Apical Membrane Antigen 1 DiCo in Complex with Its Natural Ligand PfRon2 Does Not Improve the In Vitro Efficacy. Frontiers in Immunology, 2017, 8, 743. | 4.8 | 3 |
| 157 | Rapid production of SaCas9 in plantâ€based cellâ€free lysate for activity testing. Biotechnology Journal, 2022, 17, e2100564. | 3.5 | 3 |
| 158 | PCR-Based Multiplex Method for Rapid Screening of Recombinant Bacteria. BioTechniques, 1997, 23, 212-216. | 1.8 | 2 |
| 159 | Transient Gene Expression in Plant Protoplasts. Methods in Biotechnology, 1998, , 165-175. | 0.2 | 2 |
| 160 | Antibody-Mediated Pathogen Resistance in Plants. Methods in Molecular Biology, 2016, 1385, 273-291. | 0.9 | 2 |
| 161 | Development of Monoclonal Antibodies against Pea Globulins for Multiplex Assays Targeting Legume Proteins. Journal of Agricultural and Food Chemistry, 2021, 69, 2864-2874. | 5.2 | 2 |
| 162 | Preface: Genome editing in plants. Transgenic Research, 2021, 30, 317-320. | 2.4 | 2 |

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|---|---|---|---|
| 163 | Strategies to Enhance Photosynthesis for the Improvement of Crop Yields. , 2020, , 143-157. | | 2 |
| 164 | Toward Molecular Farming of Therapeutics in Plants. Developments in Plant Genetics and Breeding, 2000, 5, 229-238. | 0.6 | 1 |
| 165 | Plant Cells. , 2005, , 253-272. | | 1 |
| 166 | Plantibody-Based Disease Resistance in Plants. , 2006, , 456-476. | | 1 |
| 167 | Laser-mediated perforation of plant cells. , 2007, , . | | 1 |
| 168 | Light-Weight Optical Sensor for Standoff Detection of Fluorescent Biosensors. Communications in Computer and Information Science, 2012, , 432-437. | 0.5 | 1 |
| 169 | Plant Molecular Pharming, Pharmaceuticals for Human Health plant molecular pharming pharmaceuticals for human health. , 2013, , 1343-1357. | | 0 |
| 170 | Einfluss von molekularen Chaperonen inEscherichia coliS30-Lysaten. Chemie-Ingenieur-Technik, 2014, 86, 1418-1419. | 0.8 | 0 |
| 171 | Emerging Production Systems for Antibodies in Plants. , 0, , . | | 0 |
| 172 | Laser-mediated perforation of plant cells. , 2007, , . | | 0 |
| 173 | Plant biotechnology. , 2009, , 162-165. | | 0 |
| 174 | A Pathogen Effector Subverts Translational Regulation to Boost Host Polyamine Levels. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 175 | Organismen als Produzenten. , 2019, , 183-202. | | 0 |