

Frank Sainsbury

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,317
citations

186265
28
h-index

149698
56
g-index

73
all docs

73
docs citations

73
times ranked

3914
citing authors

#	ARTICLE	IF	CITATIONS
1	pEAQ: versatile expression vectors for easy and quick transient expression of heterologous proteins in plants. <i>Plant Biotechnology Journal</i> , 2009, 7, 682-693.	8.3	720
2	Bioengineering virus-like particles as vaccines. <i>Biotechnology and Bioengineering</i> , 2014, 111, 425-440.	3.3	278
3	Extremely High-Level and Rapid Transient Protein Production in Plants without the Use of Viral Replication. <i>Plant Physiology</i> , 2008, 148, 1212-1218.	4.8	258
4	A Serine Carboxypeptidase-Like Acyltransferase Is Required for Synthesis of Antimicrobial Compounds and Disease Resistance in Oats. <i>Plant Cell</i> , 2009, 21, 2473-2484.	6.6	149
5	Biochemical analysis of a multifunctional cytochrome P450 (CYP51) enzyme required for synthesis of antimicrobial triterpenes in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3360-7.	7.1	137
6	Efficient generation of cowpea mosaicvirus empty virus-like particles by the proteolytic processing of precursors in insect cells and plants. <i>Virology</i> , 2009, 393, 329-337.	2.4	119
7	Nanoemulsions in drug delivery: formulation to medical application. <i>Nanomedicine</i> , 2018, 13, 2507-2525.	3.3	109
8	Transient expressions of synthetic biology in plants. <i>Current Opinion in Plant Biology</i> , 2014, 19, 1-7.	7.1	108
9	Cowpea mosaic Virus: The Plant Virus-Based Biotechnology Workhorse. <i>Annual Review of Phytopathology</i> , 2010, 48, 437-455.	7.8	105
10	Expression of multiple proteins using full-length and deleted versions of cowpea mosaic virus RNA. <i>Plant Biotechnology Journal</i> , 2008, 6, 82-92.	8.3	74
11	Rapid Transient Production in Plants by Replicating and Non-Replicating Vectors Yields High Quality Functional Anti-HIV Antibody. <i>PLoS ONE</i> , 2010, 5, e13976.	2.5	73
12	Cowpea Mosaic Virus Unmodified Empty Viruslike Particles Loaded with Metal and Metal Oxide. <i>Small</i> , 2010, 6, 818-821.	10.0	72
13	A protease activity-depleted environment for heterologous proteins migrating towards the leaf cell apoplast. <i>Plant Biotechnology Journal</i> , 2012, 10, 83-94.	8.3	72
14	Improved foreign gene expression in plants using a virus-encoded suppressor of RNA silencing modified to be developmentally harmless. <i>Plant Biotechnology Journal</i> , 2011, 9, 703-712.	8.3	57
15	Protection of Recombinant Mammalian Antibodies from Development-Dependent Proteolysis in Leaves of <i>Nicotiana benthamiana</i> . <i>PLoS ONE</i> , 2013, 8, e70203.	2.5	54
16	Programmable In Vitro Coencapsidation of Guest Proteins for Intracellular Delivery by Virus-like Particles. <i>ACS Nano</i> , 2018, 12, 4615-4623.	14.6	44
17	Protein cages and virus-like particles: from fundamental insight to biomimetic therapeutics. <i>Biomaterials Science</i> , 2020, 8, 2771-2777.	5.4	44
18	Innovation in plant-based transient protein expression for infectious disease prevention and preparedness. <i>Current Opinion in Biotechnology</i> , 2020, 61, 110-115.	6.6	43

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19	Developmental reorientation of transverse cortical microtubules to longitudinal directions: a role for actomyosinâ€based streaming and partial microtubuleâ€membrane detachment. <i>Plant Journal</i> , 2008, 56, 116-131.	5.7	40
20	Identification of an E-box motif responsible for the expression of jasmonic acid-induced chitinase gene <i>OsChia4a</i> in rice. <i>Journal of Plant Physiology</i> , 2012, 169, 621-627.	3.5	39
21	Engineering Recombinant Virus-like Nanoparticles from Plants for Cellular Delivery. <i>ACS Nano</i> , 2017, 11, 3476-3484.	14.6	36
22	Peptideâ€Controlled Access to the Interior Surface of Empty Virus Nanoparticles. <i>ChemBioChem</i> , 2011, 12, 2435-2440.	2.6	34
23	Using a Virus-Derived System to Manipulate Plant Natural Product Biosynthetic Pathways. <i>Methods in Enzymology</i> , 2012, 517, 185-202.	1.0	34
24	Tomato cystatin <i>S</scp>CYS</scp>8</i> as a stabilizing fusion partner for human serpin expression in plants. <i>Plant Biotechnology Journal</i> , 2013, 11, 1058-1068.	8.3	32
25	Modulating secretory pathway pH by proton channel coâ€expression can increase recombinant protein stability in plants. <i>Biotechnology Journal</i> , 2015, 10, 1478-1486.	3.5	32
26	Cowpea Mosaic Virus-Based Systems for the Expression of Antigens and Antibodies in Plants. <i>Methods in Molecular Biology</i> , 2009, 483, 25-39.	0.9	31
27	Genetic Engineering and Characterization of Cowpea Mosaic Virus Empty Virus-Like Particles. <i>Methods in Molecular Biology</i> , 2014, 1108, 139-153.	0.9	31
28	Pore structure controls stability and molecular flux in engineered protein cages. <i>Science Advances</i> , 2022, 8, eabl7346.	10.3	30
29	Expression of active recombinant human gastric lipase in <i>Nicotiana benthamiana</i> using the CPMV- HT transient expression system. <i>Protein Expression and Purification</i> , 2012, 81, 69-74.	1.3	29
30	Towards designer nanoemulsions for precision delivery of therapeutics. <i>Current Opinion in Chemical Engineering</i> , 2014, 4, 11-17.	7.8	29
31	Multimodal Protein Constructs for Herbivore Insect Control. <i>Toxins</i> , 2012, 4, 455-475.	3.4	27
32	Discrimination of Differentially Inhibited Cysteine Proteases by Activity-Based Profiling Using Cystatin Variants with Tailored Specificities. <i>Journal of Proteome Research</i> , 2012, 11, 5983-5993.	3.7	27
33	Leaf proteome rebalancing in <i>Nicotiana benthamiana</i> for upstream enrichment of a transiently expressed recombinant protein. <i>Plant Biotechnology Journal</i> , 2015, 13, 1169-1179.	8.3	26
34	Virus-Derived Vectors for the Expression of Multiple Proteins in Plants. <i>Methods in Molecular Biology</i> , 2016, 1385, 39-54.	0.9	26
35	Artificial Self-assembling Nanocompartment for Organizing Metabolic Pathways in Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 3251-3263.	3.8	25
36	Beneficial â€unintended effectsâ€™ of a cereal cystatin in transgenic lines of potato, <i>Solanum tuberosum</i> . <i>BMC Plant Biology</i> , 2012, 12, 198.	3.6	24

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37	Positive selection of digestive Cys proteases in herbivorous Coleoptera. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 65, 10-19.	2.7	20
38	Using elongated microparticles to enhance tailorable nanoemulsion delivery in excised human skin and volunteers. <i>Journal of Controlled Release</i> , 2018, 288, 264-276.	9.9	20
39	Droplet shape control using microfluidics and designer biosurfactants. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 528-538.	9.4	20
40	A Chimeric Affinity Tag for Efficient Expression and Chromatographic Purification of Heterologous Proteins from Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 141.	3.6	19
41	Functional proteomics-aided selection of protease inhibitors for herbivore insect control. <i>Scientific Reports</i> , 2016, 6, 38827.	3.3	17
42	Assembly and Purification of Polyomavirus-Like Particles from Plants. <i>Molecular Biotechnology</i> , 2015, 57, 904-913.	2.4	15
43	Recombinant protein susceptibility to proteolysis in the plant cell secretory pathway is pH-dependent. <i>Plant Biotechnology Journal</i> , 2018, 16, 1928-1938.	8.3	15
44	Single substitutions to closely related amino acids contribute to the functional diversification of an insect-inducible, positively selected plant cystatin. <i>FEBS Journal</i> , 2016, 283, 1323-1335.	4.7	13
45	A rapid and simple screening method to identify conditions for enhanced stability of modular vaccine candidates. <i>Biochemical Engineering Journal</i> , 2015, 100, 50-58.	3.6	12
46	Companion Protease Inhibitors for the In Situ Protection of Recombinant Proteins in Plants. <i>Methods in Molecular Biology</i> , 2016, 1385, 115-126.	0.9	12
47	Insights into the interfacial structure-function of poly(ethylene glycol)-decorated peptide-stabilised nanoscale emulsions. <i>Soft Matter</i> , 2017, 13, 7953-7961.	2.7	11
48	Virus-like nanoparticles: emerging tools for targeted cancer diagnostics and therapeutics. <i>Therapeutic Delivery</i> , 2017, 8, 1019-1021.	2.2	11
49	The structure of a plant-specific partitivirus capsid reveals a unique coat protein domain architecture with an intrinsically disordered protrusion. <i>Communications Biology</i> , 2021, 4, 1155.	4.4	11
50	Design and production of a novel antimicrobial fusion protein in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8763-8772.	3.6	10
51	Insert engineering and solubility screening improves recovery of virus-like particle subunits displaying hydrophobic epitopes. <i>Protein Science</i> , 2015, 24, 1820-1828.	7.6	8
52	Virus-Derived Nanoparticles. <i>Methods in Molecular Biology</i> , 2020, 2073, 149-162.	0.9	7
53	Emergence by Design in Self-Assembling Protein Shells. <i>ACS Nano</i> , 2020, 14, 2565-2568.	14.6	5
54	Impact of Site-Specific Bioconjugation on the Interfacial Activity of a Protein Biosurfactant. <i>Langmuir</i> , 2019, 35, 13588-13594.	3.5	4

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55	Particle-Stabilized Fluid-Fluid Interfaces: The Impact of Core Composition on Interfacial Structure. <i>Frontiers in Chemistry</i> , 2018, 6, 383.	3.6	3
56	A <i>crispa</i> null mutant facilitates identification of a <i>crispa</i> -like pseudogene in pea. <i>Functional Plant Biology</i> , 2006, 33, 757.	2.1	3
57	pH Gradient Mitigation in the Leaf Cell Secretory Pathway Attenuates the Defense Response of <i>Nicotiana benthamiana</i> to Agroinfiltration. <i>Journal of Proteome Research</i> , 2020, 19, 106-118.	3.7	2
58	Templating core-shell particles using metal ion-chelating biosurfactants. <i>Particuology</i> , 2022, 64, 145-152.	3.6	2
59	Cystatin Activity-Based Protease Profiling to Select Protease Inhibitors Useful in Plant Protection. <i>Methods in Molecular Biology</i> , 2020, 2139, 353-366.	0.9	1