Frank Sainsbury

List of Publications by Year
in descending order

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	Templating coreâ€“shell particles using metal ion-chelating biosurfactants. Particuology, 2022, 64, 145-152.	3.6	2
2	Pore structure controls stability and molecular flux in engineered protein cages. Science Advances, 2022, 8, eabl7346.	10.3	30
3	Droplet shape control using microfluidics and designer biosurfactants. Journal of Colloid and Interface Science, 2021, 584, 528-538.	9.4	20
4	Artificial Self-assembling Nanocompartment for Organizing Metabolic Pathways in Yeast. ACS Synthetic Biology, 2021, 10, 3251-3263.	3.8	25
5	The structure of a plant-specific partitivirus capsid reveals a unique coat protein domain architecture with an intrinsically disordered protrusion. Communications Biology, 2021, 4, 1155.	4.4	11
6	pH Gradient Mitigation in the Leaf Cell Secretory Pathway Attenuates the Defense Response of <i>Nicotiana benthamiana</i> to Agroinfiltration. Journal of Proteome Research, 2020, 19, 106-118.	3.7	2
7	Innovation in plant-based transient protein expression for infectious disease prevention and preparedness. Current Opinion in Biotechnology, 2020, 61, 110-115.	6.6	43
8	Emergence by Design in Self-Assembling Protein Shells. ACS Nano, 2020, 14, 2565-2568.	14.6	5
9	Protein cages and virus-like particles: from fundamental insight to biomimetic therapeutics. Biomaterials Science, 2020, 8, 2771-2777.	5.4	44
10	Cystatin Activityâ€“Based Protease Profiling to Select Protease Inhibitors Useful in Plant Protection. Methods in Molecular Biology, 2020, 2139, 353-366.	0.9	1
11	Virus-Derived Nanoparticles. Methods in Molecular Biology, 2020, 2073, 149-162.	0.9	7
12	Impact of Site-Specific Bioconjugation on the Interfacial Activity of a Protein Biosurfactant. Langmuir, 2019, 35, 13588-13594.	3.5	4
13	Programmable <i>In Vitro</i> Coencapsidation of Guest Proteins for Intracellular Delivery by Virus-like Particles. ACS Nano, 2018, 12, 4615-4623.	14.6	44
14	Recombinant protein susceptibility to proteolysis in the plant cell secretory pathway is <scp>pH</scp>â€dependent. Plant Biotechnology Journal, 2018, 16, 1928-1938.	8.3	15
15	Using elongated microparticles to enhance tailorable nanoemulsion delivery in excised human skin and volunteers. Journal of Controlled Release, 2018, 288, 264-276.	9.9	20
16	Nanoemulsions in drug delivery: formulation to medical application. Nanomedicine, 2018, 13, 2507-2525.	3.3	109
17	Particle-Stabilized Fluid-Fluid Interfaces: The Impact of Core Composition on Interfacial Structure. Frontiers in Chemistry, 2018, 6, 383.	3.6	3
18	Design and production of a novel antimicrobial fusion protein in Escherichia coli. Applied Microbiology and Biotechnology, 2018, 102, 8763-8772.	3.6	10

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19	Engineering Recombinant Virus-like Nanoparticles from Plants for Cellular Delivery. ACS Nano, 2017, 11, 3476-3484.	14.6	36
20	Insights into the interfacial structureâ€“function of poly(ethylene glycol)-decorated peptide-stabilised nanoscale emulsions. Soft Matter, 2017, 13, 7953-7961.	2.7	11
21	Virus-like nanoparticles: emerging tools for targeted cancer diagnostics and therapeutics. Therapeutic Delivery, 2017, 8, 1019-1021.	2.2	11
22	A Chimeric Affinity Tag for Efficient Expression and Chromatographic Purification of Heterologous Proteins from Plants. Frontiers in Plant Science, 2016, 7, 141.	3.6	19
23	Functional proteomics-aided selection of protease inhibitors for herbivore insect control. Scientific Reports, 2016, 6, 38827.	3.3	17
24	Single substitutions to closely related amino acids contribute to the functional diversification of an insectâ€inducible, positively selected plant cystatin. FEBS Journal, 2016, 283, 1323-1335.	4.7	13
25	Virus-Derived Vectors for the Expression of Multiple Proteins in Plants. Methods in Molecular Biology, 2016, 1385, 39-54.	0.9	26
26	Companion Protease Inhibitors for the In Situ Protection of Recombinant Proteins in Plants. Methods in Molecular Biology, 2016, 1385, 115-126.	0.9	12
27	Leaf proteome rebalancing in <i>Nicotiana benthamiana</i> for upstream enrichment of a transiently expressed recombinant protein. Plant Biotechnology Journal, 2015, 13, 1169-1179.	8.3	26
28	Insert engineering and solubility screening improves recovery of virusâ€like particle subunits displaying hydrophobic epitopes. Protein Science, 2015, 24, 1820-1828.	7.6	8
29	Modulating secretory pathway pH by proton channel coâ€expression can increase recombinant protein stability in plants. Biotechnology Journal, 2015, 10, 1478-1486.	3.5	32
30	Assembly and Purification of Polyomavirus-Like Particles from Plants. Molecular Biotechnology, 2015, 57, 904-913.	2.4	15
31	A rapid and simple screening method to identify conditions for enhanced stability of modular vaccine candidates. Biochemical Engineering Journal, 2015, 100, 50-58.	3.6	12
32	Positive selection of digestive Cys proteases in herbivorous Coleoptera. Insect Biochemistry and Molecular Biology, 2015, 65, 10-19.	2.7	20
33	Transient expressions of synthetic biology in plants. Current Opinion in Plant Biology, 2014, 19, 1-7.	7.1	108
34	Towards designer nanoemulsions for precision delivery of therapeutics. Current Opinion in Chemical Engineering, 2014, 4, 11-17.	7.8	29
35	Bioengineering virusâ€like particles as vaccines. Biotechnology and Bioengineering, 2014, 111, 425-440.	3.3	278
36	Genetic Engineering and Characterization of Cowpea Mosaic Virus Empty Virus-Like Particles. Methods in Molecular Biology, 2014, 1108, 139-153.	0.9	31

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37	Tomato cystatin <i><scp>S</scp>l</i><scp>CYS</scp>8 as a stabilizing fusion partner for human serpin expression in plants. Plant Biotechnology Journal, 2013, 11, 1058-1068.	8.3	32
38	Biochemical analysis of a multifunctional cytochrome P450 (CYP51) enzyme required for synthesis of antimicrobial triterpenes in plants. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3360-7.	7.1	137
39	Protection of Recombinant Mammalian Antibodies from Development-Dependent Proteolysis in Leaves of Nicotiana benthamiana. PLoS ONE, 2013, 8, e70203.	2.5	54
40	Multimodal Protein Constructs for Herbivore Insect Control. Toxins, 2012, 4, 455-475.	3.4	27
41	Expression of active recombinant human gastric lipase in Nicotiana benthamiana using the CPMV- HT transient expression system. Protein Expression and Purification, 2012, 81, 69-74.	1.3	29
42	Identification of an E-box motif responsible for the expression of jasmonic acid-induced chitinase gene OsChia4a in rice. Journal of Plant Physiology, 2012, 169, 621-627.	3.5	39
43	Beneficial â€˜unintended effectsâ€™ of a cereal cystatin in transgenic lines of potato, Solanum tuberosum. BMC Plant Biology, 2012, 12, 198.	3.6	24
44	Using a Virus-Derived System to Manipulate Plant Natural Product Biosynthetic Pathways. Methods in Enzymology, 2012, 517, 185-202.	1.0	34
45	Discrimination of Differentially Inhibited Cysteine Proteases by Activity-Based Profiling Using Cystatin Variants with Tailored Specificities. Journal of Proteome Research, 2012, 11, 5983-5993.	3.7	27
46	A protease activityâ€“depleted environment for heterologous proteins migrating towards the leaf cell apoplast. Plant Biotechnology Journal, 2012, 10, 83-94.	8.3	72
47	Improved foreign gene expression in plants using a virusâ€encoded suppressor of RNA silencing modified to be developmentally harmless. Plant Biotechnology Journal, 2011, 9, 703-712.	8.3	57
48	Peptideâ€Controlled Access to the Interior Surface of Empty Virus Nanoparticles. ChemBioChem, 2011, 12, 2435-2440.	2.6	34
49	<i>Cowpea mosaic</i> Virus: The Plant Virusâ€“Based Biotechnology Workhorse. Annual Review of Phytopathology, 2010, 48, 437-455.	7.8	105
50	Cowpea Mosaic Virus Unmodified Empty Viruslike Particles Loaded with Metal and Metal Oxide. Small, 2010, 6, 818-821.	10.0	72
51	Rapid Transient Production in Plants by Replicating and Non-Replicating Vectors Yields High Quality Functional Anti-HIV Antibody. PLoS ONE, 2010, 5, e13976.	2.5	73
52	Cowpea Mosaic Virus-Based Systems for the Expression of Antigens and Antibodies in Plants. Methods in Molecular Biology, 2009, 483, 25-39.	0.9	31
53	A Serine Carboxypeptidase-Like Acyltransferase Is Required for Synthesis of Antimicrobial Compounds and Disease Resistance in Oats Â. Plant Cell, 2009, 21, 2473-2484.	6.6	149
54	Efficient generation of cowpea mosaicvirus empty virus-like particles by the proteolytic processing of precursors in insect cells and plants. Virology, 2009, 393, 329-337.	2.4	119

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55	pEAQ: versatile expression vectors for easy and quick transient expression of heterologous proteins in plants. Plant Biotechnology Journal, 2009, 7, 682-693.	8.3	720
56	Expression of multiple proteins using fullâ€length and deleted versions of cowpea mosaic virus RNAâ€2. Plant Biotechnology Journal, 2008, 6, 82-92.	8.3	74
57	Developmental reorientation of transverse cortical microtubules to longitudinal directions: a role for actomyosinâ€based streaming and partial microtubuleâ€membrane detachment. Plant Journal, 2008, 56, 116-131.	5.7	40
58	Extremely High-Level and Rapid Transient Protein Production in Plants without the Use of Viral Replication. Plant Physiology, 2008, 148, 1212-1218.	4.8	258
59	A crispa null mutant facilitates identification of a crispa-like pseudogene in pea. Functional Plant Biology, 2006, 33, 757.	2.1	3