

Scott C Lenaghan

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,445
citations

279798

23
h-index

377865

34
g-index

70
all docs

70
docs citations

70
times ranked

2179
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene regulatory networks for lignin biosynthesis in switchgrass (<i>Panicum virgatum</i>). <i>Plant Biotechnology Journal</i> , 2019, 17, 580-593.	8.3	96
2	Inspiration from the natural world: from bio-adhesives to bio-inspired adhesives. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 290-319.	2.6	93
3	The Potential of Systems Biology to Discover Antibacterial Mechanisms of Plant Phenolics. <i>Frontiers in Microbiology</i> , 2017, 8, 422.	3.5	90
4	Development of a rapid, low-cost protoplast transfection system for switchgrass (<i>Panicum virgatum</i>) Tj ETQq0 0 0 ggBT /Overlock 10 Tf 9.6 61	9.6	61
5	One-step synthesis of dendritic gold nanoflowers with high surface-enhanced Raman scattering (SERS) properties. <i>RSC Advances</i> , 2013, 3, 10139.	3.6	56
6	Doxorubicin-Loaded Cyclic Peptide Nanotube Bundles Overcome Chemoresistance in Breast Cancer Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 445-454.	1.1	51
7	Technological challenges and milestones for writing genomes. <i>Science</i> , 2019, 366, 310-312.	12.6	50
8	Naturally occurring nanoparticles from English ivy: an alternative to metal-based nanoparticles for UV protection. <i>Journal of Nanobiotechnology</i> , 2010, 8, 12.	9.1	49
9	High-speed microscopic imaging of flagella motility and swimming in <i>Giardia lamblia</i> trophozoites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E550-8.	7.1	47
10	Grand Challenges in Bioengineered Nanorobotics for Cancer Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 667-673.	4.2	47
11	<i>Trichomonas stableri</i> n. sp., an agent of trichomonosis in Pacific Coast band-tailed pigeons (<i>Patagioenas fasciata monilis</i>). <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2014, 3, 32-40.	1.5	38
12	MoChlo: A Versatile, Modular Cloning Toolbox for Chloroplast Biotechnology. <i>Plant Physiology</i> , 2019, 179, 943-957.	4.8	36
13	Nanofibers and nanoparticles from the insect-capturing adhesive of the Sundew (<i>Drosera</i>) for cell attachment. <i>Journal of Nanobiotechnology</i> , 2010, 8, 20.	9.1	35
14	A mathematical model on the closing and opening mechanism for venus flytrap. <i>Plant Signaling and Behavior</i> , 2010, 5, 968-978.	2.4	35
15	Tea Nanoparticles for Immunostimulation and Chemo-Drug Delivery in Cancer Treatment. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1016-1029.	1.1	35
16	Naturally Occurring Nanoparticles from <i>Arthrotrrys oligospora</i> as a Potential Immunostimulatory and Antitumor Agent. <i>Advanced Functional Materials</i> , 2013, 23, 2175-2184.	14.9	30
17	Real-time observation of the secretion of a nanocomposite adhesive from English ivy (<i>Hedera helix</i>). <i>Plant Science</i> , 2012, 183, 206-211.	3.6	28
18	Climbing plants: attachment adaptations and bioinspired innovations. <i>Plant Cell Reports</i> , 2018, 37, 565-574.	5.6	28

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19	Rational design and testing of abiotic stress-inducible synthetic promoters from poplar cis-regulatory elements. <i>Plant Biotechnology Journal</i> , 2021, 19, 1354-1369.	8.3	27
20	Characterization of English ivy (<i>Hedera helix</i>) adhesion force and imaging using atomic force microscopy. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1029-1037.	1.9	26
21	Advanced editing of the nuclear and plastid genomes in plants. <i>Plant Science</i> , 2018, 273, 42-49.	3.6	26
22	Nanoparticle biofabrication using English ivy (<i>Hedera helix</i>). <i>Journal of Nanobiotechnology</i> , 2012, 10, 41.	9.1	25
23	Effect of surface charge density on the ice recrystallization inhibition activity of nanocelluloses. <i>Carbohydrate Polymers</i> , 2020, 234, 115863.	10.2	25
24	Characterization of physicochemical properties of ivy nanoparticles for cosmetic application. <i>Journal of Nanobiotechnology</i> , 2013, 11, 3.	9.1	24
25	Experimental Studies and Dynamics Modeling Analysis of the Swimming and Diving of Whirligig Beetles (Coleoptera: Gyridae). <i>PLoS Computational Biology</i> , 2012, 8, e1002792.	3.2	22
26	Isolation and chemical analysis of nanoparticles from English ivy (<i>Hedera helix</i> L.). <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130392.	3.4	22
27	A Data-Driven Predictive Approach for Drug Delivery Using Machine Learning Techniques. <i>PLoS ONE</i> , 2012, 7, e31724.	2.5	19
28	The Q-System as a Synthetic Transcriptional Regulator in Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 245.	3.6	19
29	A Robotic Platform for High-throughput Protoplast Isolation and Transformation. <i>Journal of Visualized Experiments</i> , 2016, . .	0.3	18
30	Identification of Nanofibers in the Chinese Herbal Medicine: Yunnan Baiyao. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 472-476.	1.1	17
31	Unlocking the secrets of multi-flagellated propulsion: drawing insights from <i>Tritrichomonas foetus</i> . <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131149.	3.4	17
32	Compositional tuning of epoxide-polyetheramine click-reaction toward cytocompatible, cationic hydrogel particles with antimicrobial and DNA binding activities. <i>Acta Biomaterialia</i> , 2016, 43, 292-302.	8.3	17
33	Imaging of multiple fluorescent proteins in canopies enables synthetic biology in plants. <i>Plant Biotechnology Journal</i> , 2021, 19, 830-843.	8.3	16
34	Modeling and analysis of propulsion in the multiflagellated microorganism <i>Giardia lamblia</i> . <i>Physical Review E</i> , 2013, 88, 012726.	2.1	14
35	Development and validation of a novel and robust cell culture system in soybean (<i>Glycine max</i> (L.) Tj ETQq1 1 0.784314 rgBT ₁₄ /Overlock	5.6	14
36	Embryogenic cell suspensions for high-capacity genetic transformation and regeneration of switchgrass (<i>Panicum virgatum</i> L.). <i>Biotechnology for Biofuels</i> , 2019, 12, 290.	6.2	14

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37	Mini-synplastomes for plastid genetic engineering. <i>Plant Biotechnology Journal</i> , 2022, 20, 360-373.	8.3	14
38	The plastid genome as a chassis for synthetic biology-enabled metabolic engineering: players in gene expression. <i>Plant Cell Reports</i> , 2018, 37, 1419-1429.	5.6	11
39	An Automated Protoplast Transformation System. <i>Methods in Molecular Biology</i> , 2019, 1917, 355-363.	0.9	10
40	Electrosterically stabilized cellulose nanocrystals demonstrate ice recrystallization inhibition and cryoprotection activities. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2378-2386.	7.5	10
41	Generation, analysis, and transformation of macro-chloroplast Potato (<i>Solanum tuberosum</i>) lines for chloroplast biotechnology. <i>Scientific Reports</i> , 2020, 10, 21144.	3.3	10
42	External Control of the GAL Network in <i>S. cerevisiae</i> : A View from Control Theory. <i>PLoS ONE</i> , 2011, 6, e19353.	2.5	10
43	Plants to Remotely Detect Human Decomposition?. <i>Trends in Plant Science</i> , 2020, 25, 947-949.	8.8	9
44	Design of Efficient Propulsion for Nanorobots. <i>IEEE Transactions on Robotics</i> , 2014, 30, 792-801.	10.3	8
45	Improved tissue culture conditions for the emerging C4 model <i>Panicum hallii</i> . <i>BMC Biotechnology</i> , 2017, 17, 39.	3.3	8
46	Monitoring the Environmental Impact of TiO ₂ Nanoparticles Using a Plant-Based Sensor Network. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 182-189.	2.0	7
47	Evolutionary game based control for biological systems with applications in drug delivery. <i>Journal of Theoretical Biology</i> , 2013, 326, 58-69.	1.7	7
48	Lighting the Way: Advances in Engineering Autoluminescent Plants. <i>Trends in Plant Science</i> , 2020, 25, 1176-1179.	8.8	7
49	Bio-Synthesis of Gold Nanoparticles Using English ivy (<i>Hedera helix</i>). <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1649-1659.	0.9	6
50	Metabolomic analysis of the mechanism of action of yerba mate aqueous extract on <i>Salmonella enterica</i> serovar Typhimurium. <i>Metabolomics</i> , 2017, 13, 1.	3.0	6
51	Effect of Varying Cobalt-60 Doses on Survival and Growth of <i>Giardia lamblia</i> Trophozoites. <i>Journal of Eukaryotic Microbiology</i> , 2003, 50, 701-702.	1.7	5
52	Evaluation of the nanofibrillar structure of <i>Dioscorea oppositifolia</i> extract for cell attachment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 425-431.	5.0	5
53	Analysis of dynamics and planar motion strategies of a swimming microorganism — <i>Giardia lamblia</i> . , 2012, , .		5
54	Zebrafish Larva Locomotor Activity Analysis Using Machine Learning Techniques. , 2013, , .		5

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55	Extraction of Organic Nanoparticles from Plants. <i>Methods in Molecular Biology</i> , 2012, 906, 381-391.	0.9	4
56	Methods for suspension culture, protoplast extraction, and transformation of high-biomass yielding perennial grass <i>Arundo donax</i> . <i>Biotechnology Journal</i> , 2016, 11, 1657-1666.	3.5	4
57	Pressure-driven generation of complex microfluidic droplet networks. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	4
58	The R5 to X4 Coreceptor Switch: A Dead-End Path, or Strategic Maneuver?. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2339-2356.	1.9	3
59	Nonlinear Dynamics of the Movement of the Venus Flytrap. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2446-2473.	1.9	3
60	A Robust Method to Quantify Cell Wall Bound Phenolics in Plant Suspension Culture Cells Using Pyrolysis-Gas Chromatography/Mass Spectrometry. <i>Frontiers in Plant Science</i> , 2020, 11, 574016.	3.6	3
61	Mathematical Modeling, Dynamics Analysis and Control of Carnivorous Plants. , 2012, , 63-83.		3
62	Biosynthesis of Metal Nanoparticles from the Peel of Asparagus Lettuce (&l>Lactuca sativa var.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.8	3
63	Facile synthesis of biocompatible gold nanoparticles with organosilicone-coated surface properties. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	2
64	High-Throughput Transfection and Analysis of Soybean (<i>Glycine max</i>) Protoplasts. <i>Methods in Molecular Biology</i> , 2022, 2464, 245-259.	0.9	1
65	Sensing and closing mechanism for Venus Flytrap: Theoretical and experimental studies. , 2009, , .		0
66	Evolutionary game theoretical approach for understanding CCR5 to CXCR4 coreceptor switch. , 2010, , .		0
67	Detecting the environmental impact of nanoparticles using plant-based biosensors. , 2011, , .		0
68	Automated high throughput scalable green nanomanufacturing for naturally occurring nanoparticles using English ivy. , 2012, , .		0