

Tara D Sutherland

List of Publications by Year in descending order

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72
papers

2,865
citations

159525

30
h-index

175177

52
g-index

73
all docs

73
docs citations

73
times ranked

2657
citing authors

#	ARTICLE	IF	CITATIONS
1	Addressing a future pandemic: how can non-biological complex drugs prepare us for antimicrobial resistance threats?. <i>Materials Horizons</i> , 2022, 9, 2076-2096.	6.4	10
2	The Requirement of Genetic Diagnostic Technologies for Environmental Surveillance of Antimicrobial Resistance. <i>Sensors</i> , 2021, 21, 6625.	2.1	2
3	Progressing Antimicrobial Resistance Sensing Technologies across Human, Animal, and Environmental Health Domains. <i>ACS Sensors</i> , 2021, 6, 4283-4296.	4.0	5
4	Enhancement of metallomacrocycle-based oxygen reduction catalysis through immobilization in a tunable silk-protein scaffold. <i>Journal of Inorganic Biochemistry</i> , 2020, 204, 110960.	1.5	3
5	Engineering a solid-state metalloprotein hydrogen evolution catalyst. <i>Scientific Reports</i> , 2020, 10, 3774.	1.6	4
6	Could home-based FeNO measurements breathe new life into asthma management?. <i>Journal of Asthma</i> , 2019, 56, 910-913.	0.9	2
7	Biocompatibility and immunogenic response to recombinant honeybee silk material. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1763-1770.	2.1	4
8	Rational design of new materials using recombinant structural proteins: Current state and future challenges. <i>Journal of Structural Biology</i> , 2018, 201, 76-83.	1.3	24
9	Silk provides a new avenue for third generation biosensors: Sensitive, selective and stable electrochemical detection of nitric oxide. <i>Biosensors and Bioelectronics</i> , 2018, 103, 26-31.	5.3	42
10	Did aculeate silk evolve as an antifouling material?. <i>PLoS ONE</i> , 2018, 13, e0203948.	1.1	3
11	Confirmation of Bioinformatics Predictions of the Structural Domains in Honeybee Silk. <i>Polymers</i> , 2018, 10, 776.	2.0	4
12	Recombinant Structural Proteins and Their Use in Future Materials. <i>Sub-Cellular Biochemistry</i> , 2017, 82, 491-526.	1.0	9
13	Bioinspired electrocatalysts for oxygen reduction using recombinant silk films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10236-10243.	5.2	13
14	Modification of Honeybee Silk by the Addition of Antimicrobial Agents. <i>ACS Omega</i> , 2017, 2, 4456-4463.	1.6	6
15	Design of silk proteins with increased heme binding capacity and fabrication of silk-heme materials. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 219-227.	1.5	5
16	Structural Analysis of Hand Drawn Bumblebee <i>Bombus terrestris</i> Silk. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1170.	1.8	6
17	Phosphorescent oxygen-sensing and singlet oxygen production by a biosynthetic silk. <i>RSC Advances</i> , 2016, 6, 39530-39533.	1.7	12
18	The other prey-capture silk: Fibres made by glow-worms (Diptera: Keroplatidae) comprise cross- β -sheet crystallites in an abundant amorphous fraction. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 187, 78-84.	0.7	16

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19	More than one way to spin a crystallite: multiple trajectories through liquid crystallinity to solid silk. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150259.	1.2	43
20	Folding behavior of four silks of giant honey bee reflects the evolutionary conservation of aculeate silk proteins. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 59, 72-79.	1.2	8
21	De Novo Engineering of Solid-State Metalloproteins Using Recombinant Coiled-Coil Silk. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1114-1120.	2.6	14
22	Evolution and Application of Coiled Coil Silks from Insects. <i>Biologically-inspired Systems</i> , 2014, , 87-106.	0.4	3
23	Convergently-evolved structural anomalies in the coiled coil domains of insect silk proteins. <i>Journal of Structural Biology</i> , 2014, 186, 402-411.	1.3	22
24	A comparison of convergently evolved insect silks that share β -sheet molecular structure. <i>Biopolymers</i> , 2014, 101, 630-639.	1.2	4
25	Stabilization of Viruses by Encapsulation in Silk Proteins. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18189-18196.	4.0	14
26	Micromolar biosensing of nitric oxide using myoglobin immobilized in a synthetic silk film. <i>Biosensors and Bioelectronics</i> , 2014, 62, 214-220.	5.3	27
27	Cross-linking in the silks of bees, ants and hornets. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 48, 40-50.	1.2	30
28	Recombinant production and film properties of full-length hornet silk proteins. <i>Acta Biomaterialia</i> , 2014, 10, 3590-3598.	4.1	14
29	Silverfish silk is formed by entanglement of randomly coiled protein chains. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 572-579.	1.2	11
30	Micellar refolding of coiled-coil honeybee silk proteins. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3644.	2.9	28
31	A new class of animal collagen masquerading as an insect silk. <i>Scientific Reports</i> , 2013, 3, 2864.	1.6	25
32	Continuous Production of Flexible Fibers from Transgenically Produced Honeybee Silk Proteins. <i>Macromolecular Bioscience</i> , 2013, 13, 1321-1326.	2.1	19
33	Natural Templates for Coiled-Coil Biomaterials from Praying Mantis Egg Cases. <i>Biomacromolecules</i> , 2012, 13, 4264-4272.	2.6	17
34	Testing the evolvability of an insect carboxylesterase for the detoxification of synthetic pyrethroid insecticides. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 343-352.	1.2	39
35	Silk from Crickets: A New Twist on Spinning. <i>PLoS ONE</i> , 2012, 7, e30408.	1.1	23
36	The coiled coil silk of bees, ants, and hornets. <i>Biopolymers</i> , 2012, 97, 446-454.	1.2	63

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37	Controlling the Molecular Structure and Physical Properties of Artificial Honeybee Silk by Heating or by Immersion in Solvents. <i>PLoS ONE</i> , 2012, 7, e52308.	1.1	27
38	Production, structure and in vitro degradation of electrospun honeybee silk nanofibers. <i>Acta Biomaterialia</i> , 2011, 7, 3789-3795.	4.1	46
39	Complete Genome Sequence of a Nonculturable <i>Methanococcus maripaludis</i> Strain Extracted in a Metagenomic Survey of Petroleum Reservoir Fluids. <i>Journal of Bacteriology</i> , 2011, 193, 5595-5595.	1.0	14
40	Single Honeybee Silk Protein Mimics Properties of Multi-Protein Silk. <i>PLoS ONE</i> , 2011, 6, e16489.	1.1	52
41	Honeybee silk: Recombinant protein production, assembly and fiber spinning. <i>Biomaterials</i> , 2010, 31, 2695-2700.	5.7	78
42	Dual structural color mechanisms in a scarab beetle. <i>Journal of Morphology</i> , 2010, 271, 1300-1305.	0.6	17
43	Insect Silk: One Name, Many Materials. <i>Annual Review of Entomology</i> , 2010, 55, 171-188.	5.7	336
44	Harnessing disorder: onychophorans use highly unstructured proteins, not silks, for prey capture. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3255-3263.	1.2	38
45	Catalytic Improvement and Evolution of Atrazine Chlorohydrolase. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2184-2191.	1.4	57
46	Structure-Based Rational Design of a Phosphotriesterase. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5153-5156.	1.4	35
47	Fifty years later: The sequence, structure and function of lacewing cross-beta silk. <i>Journal of Structural Biology</i> , 2009, 168, 467-475.	1.3	40
48	OpdA, a bacterial organophosphorus hydrolase, prevents lethality in rats after poisoning with highly toxic organophosphorus pesticides. <i>Toxicology</i> , 2008, 247, 88-92.	2.0	73
49	An Unlikely Silk: The Composite Material of Green Lacewing Cocoons. <i>Biomacromolecules</i> , 2008, 9, 3065-3069.	2.6	48
50	An Australian webspinner species makes the finest known insect silk fibers. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 271-275.	3.6	23
51	Silks produced by insect labial glands. <i>Prion</i> , 2008, 2, 145-153.	0.9	81
52	Conservation of Essential Design Features in Coiled Coil Silks. <i>Molecular Biology and Evolution</i> , 2007, 24, 2424-2432.	3.5	82
53	Only one esterase of <i>Drosophila melanogaster</i> is likely to degrade juvenile hormone in vivo. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 540-549.	1.2	35
54	An independently evolved Dipteran silk with features common to Lepidopteran silks. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 1036-1043.	1.2	11

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55	A global response to sulfur starvation in <i>Pseudomonas putida</i> and its relationship to the expression of low-sulfur-content proteins. <i>FEMS Microbiology Letters</i> , 2007, 267, 184-193.	0.7	23
56	A highly divergent gene cluster in honey bees encodes a novel silk family. <i>Genome Research</i> , 2006, 16, 1414-1421.	2.4	70
57	A Single Monooxygenase, <i>Ese</i> , Is Involved in the Metabolism of the Organochlorides Endosulfan and Endosulfate in an <i>Arthrobacter</i> sp. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3524-3530.	1.4	113
58	Comparing the organophosphorus and carbamate insecticide resistance mutations in cholin- and carboxyl-esterases. <i>Chemico-Biological Interactions</i> , 2005, 157-158, 269-275.	1.7	81
59	A <i>Brevibacillus choshinensis</i> System That Secretes Cytoplasmic Proteins. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2004, 8, 81-90.	1.0	4
60	Two major classes of target site insensitivity mutations confer resistance to organophosphate and carbamate insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2004, 79, 84-93.	1.6	91
61	Toxicity and Residues of Endosulfan Isomers. <i>Reviews of Environmental Contamination and Toxicology</i> , 2004, 183, 99-113.	0.7	44
62	The genomics of insecticide resistance. <i>Genome Biology</i> , 2003, 4, 202.	13.9	49
63	Gene Cloning and Molecular Characterization of a Two-Enzyme System Catalyzing the Oxidative Detoxification of $\hat{1}^2$ -Endosulfan. <i>Applied and Environmental Microbiology</i> , 2002, 68, 6237-6245.	1.4	53
64	Identification of an <i>opd</i> (Organophosphate Degradation) Gene in an <i>Agrobacterium</i> Isolate. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3371-3376.	1.4	309
65	Using enzymes to clean up pesticide residues. <i>Outlooks on Pest Management</i> , 2002, 13, 149-151.	0.2	18
66	Isolation of a <i>Pseudomonas monteilli</i> strain with a novel phosphotriesterase. <i>FEMS Microbiology Letters</i> , 2002, 206, 51-55.	0.7	41
67	Isolation of a <i>Pseudomonas monteilli</i> strain with a novel phosphotriesterase. <i>FEMS Microbiology Letters</i> , 2002, 206, 51-55.	0.7	5
68	Cloning and expression of the phosphotriesterase gene <i>hocA</i> from <i>Pseudomonas monteilli</i> C11 b bThe GenBank accession number for the <i>hocA</i> gene is AF469117.. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2687-2695.	0.7	53
69	Terpenoid 1 α -hydroxylase (CYP4C7) messenger RNA levels in the corpora allata: a marker for ovarian control of juvenile hormone synthesis in <i>Diploptera punctata</i> . <i>Journal of Insect Physiology</i> , 2000, 46, 1219-1227.	0.9	37
70	Enrichment of an Endosulfan-Degrading Mixed Bacterial Culture. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2822-2828.	1.4	152
71	Regulation of Juvenile Hormone synthesis in the blowfly <i>Lucilla cuprina</i> . <i>Physiological Entomology</i> , 1997, 22, 183-190.	0.6	2
72	Target of cockroach allatostatin in the pathway of juvenile hormone biosynthesis. <i>Molecular and Cellular Endocrinology</i> , 1996, 120, 115-123.	1.6	53