Russell J Stewart

List of Publications by Year
in descending order

41 papers	3,014 citations	236612 25 h-index	288905 40 g-index
46 all docs	46 docs citations	46 times ranked	2835 citing authors

#	Article	IF	Citations
1	Genome size evolution in the diverse insect order Trichoptera. GigaScience, 2022, 11, .	3.3	24
2	Draft Genome Assemblies and Annotations of Agrypnia vestita Walker, and Hesperophylax magnus Banks Reveal Substantial Repetitive Element Expansion in Tube Case-Making Caddisflies (Insecta: Trichoptera). Genome Biology and Evolution, 2021, 13, .	1.1	14
3	Rapid Entrapment of Phenazine Ethosulfate within a Polyelectrolyte Complex on Electrodes for Efficient NAD+ Regeneration in Mediated NAD+-Dependent Bioelectrocatalysis. ACS Applied Materials & Interfaces, 2021, 13, 10942-10951.	4.0	10
4	Direct bioelectrocatalysis by redox enzymes immobilized in electrostatically condensed oppositely charged polyelectrolyte electrode coatings. Analyst, The, 2020, 145, 1250-1257.	1.7	8
5	Aquatic caddisworm silk is solidified by environmental metal ions during the natural fiberâ€spinning process. FASEB Journal, 2019, 33, 572-583.	0.2	23
6	Exploring the underwater silken architectures of caddisworms: comparative silkomics across two caddisfly suborders. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190206.	1.8	25
7	Aqueous Liquid-Liquid Phase Separation of Natural and Synthetic Polyguanidiniums. Polymers, 2019, 11, 649.	2.0	18
8	Annotated Draft Genomes of Two Caddisfly Species Plectrocnemia conspersa CURTIS and Hydropsyche tenuis NAVAS (Insecta: Trichoptera). Genome Biology and Evolution, 2019, 11, 3445-3451.	1.1	21
9	Complex coacervation. Soft Matter, 2018, 14, 329-330.	1.2	20
10	Complex coacervation of Mg(<scp>ii</scp>) phospho-polymethacrylate, a synthetic analog of sandcastle worm adhesive phosphoproteins. Soft Matter, 2018, 14, 379-386.	1.2	11
11	The genome of an underwater architect, the caddisfly Stenopsyche tienmushanensis Hwang (Insecta: Trichoptera). GigaScience, 2018, 7, .	3.3	41
12	Sustained tobramycin release from polyphosphate double network hydrogels. Acta Biomaterialia, 2017, 50, 484-492.	4.1	15
13	The role of coacervation and phase transitions in the sandcastle worm adhesive system. Advances in Colloid and Interface Science, 2017, 239, 88-96.	7.0	124
14	Connecting caddisworm silk structure and mechanical properties: combined infrared spectroscopy and mechanical analysis. Open Biology, 2016, 6, 160067.	1.5	14
15	Waterâ€Borne Endovascular Embolics Inspired by the Undersea Adhesive of Marine Sandcastle Worms. Advanced Healthcare Materials, 2016, 5, 795-801.	3.9	47
16	Peroxidase-catalysed interfacial adhesion of aquatic caddisworm silk. Journal of the Royal Society Interface, 2015, 12, 20150710.	1.5	19
17	Toughened hydrogels inspired by aquatic caddisworm silk. Soft Matter, 2015, 11, 6981-6990.	1.2	39
18	Self-recovering caddisfly silk: energy dissipating, Ca²⁺-dependent, double dynamic network fibers. Soft Matter, 2015, 11, 1667-1676.	1.2	48

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19	Peroxinectin catalyzed dityrosine crosslinking in the adhesive underwater silk of a casemaker caddisfly larvae, Hysperophylax occidentalis. Insect Biochemistry and Molecular Biology, 2014, 54, 69-79.	1.2	46
20	Self-Tensioning Aquatic Caddisfly Silk: Ca²⁺-Dependent Structure, Strength, and Load Cycle Hysteresis. Biomacromolecules, 2013, 14, 3668-3681.	2.6	64
21	Multipart Copolyelectrolyte Adhesive of the Sandcastle Worm, Phragmatopoma californica (Fewkes): Catechol Oxidase Catalyzed Curing through Peptidyl-DOPA. Biomacromolecules, 2013, 14, 1607-1617.	2.6	101
22	Î²-Sheet Nanocrystalline Domains Formed from Phosphorylated Serine-Rich Motifs in Caddisfly Larval Silk: A Solid State NMR and XRD Study. Biomacromolecules, 2013, 14, 1140-1148.	2.6	69
23	Localization of the bioadhesive precursors of the sandcastle worm, Phragmatopoma californica (Fewkes). Journal of Experimental Biology, 2012, 215, 351-361.	0.8	68
24	Complex coacervates as a foundation for synthetic underwater adhesives. Advances in Colloid and Interface Science, 2011, 167, 85-93.	7.0	276
25	Protein-based underwater adhesives and the prospects for their biotechnological production. Applied Microbiology and Biotechnology, 2011, 89, 27-33.	1.7	95
26	Natural underwater adhesives. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 757-771.	2.4	272
27	Adaptation of Caddisfly Larval Silks to Aquatic Habitats by Phosphorylation of H-Fibroin Serines. Biomacromolecules, 2010, 11, 969-974.	2.6	106
28	Glueomics: An Expression Survey of the Adhesive Gland of the Sandcastle Worm. Journal of Adhesion, 2009, 85, 546-559.	1.8	52
29	Formation of Biofunctional Thin Films on Gold Electrodes by Electrodeposition of Poly(acrylamide-co-tyrosineamide). Macromolecules, 2008, 41, 448-452.	2.2	2
30	Multiscale Structure of the Underwater Adhesive ofPhragmatopoma Californica:Â a Nanostructured Latex with a Steep Microporosity Gradient. Langmuir, 2007, 23, 5045-5049.	1.6	82
31	The tube cement of Phragmatopoma californica: a solid foam. Journal of Experimental Biology, 2004, 207, 4727-4734.	0.8	228
32	Hybrid Hydrogels Cross-Linked by Genetically Engineered Coiled-Coil Block Proteins. Biomacromolecules, 2001, 2, 912-920.	2.6	113
33	Polarized Alignment and Surface Immobilization of Microtubules for Kinesin-Powered Nanodevices. Nano Letters, 2001, 1, 277-280.	4.5	81
34	De novo design of biomedical polymers: hybrids from synthetic macromolecules and genetically engineered protein domains. Macromolecular Symposia, 2001, 174, 31-42.	0.4	27
35	A model for swelling changes in a covalently crosslinked gel caused by unfolding of folded domains. Polymer Bulletin, 2001, 47, 351-358.	1.7	8
36	Responsive Hybrid Hydrogels with Volume Transitions Modulated by a Titin Immunoglobulin Module. Bioconjugate Chemistry, 2000, 11, 734-740.	1.8	44

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37	Working strokes by single molecules of the kinesin-related microtubule motor ncd. Nature Cell Biology, 2000, 2, 724-729.	4.6	76
38	Imaging microtubules and kinesin decorated microtubules using tapping mode atomic force microscopy in fluids. European Biophysics Journal, 2000, 28, 611-620.	1.2	40
39	Hybrid hydrogels assembled from synthetic polymers and coiled-coil protein domains. Nature, 1999, 397, 417-420.	13.7	556
40	Motility of Dimeric Ncd on a Metal-Chelating Surfactant:â€‰ Evidence That Ncd Is Not Processive. Biochemistry, 1999, 38, 5076-5081.	1.2	65
41	Long-read HiFi sequencing correctly assembles repetitive heavy fibroin silk genes in new moth and caddisfly genomes. GigaByte, 0, 2022, 1-14.	0.0	17