J Herbert Waite

List of Publications by Citations

152 papers	17,153 citations	70 h-index	130 g-index
158 ext. papers	18,972 ext. citations	8.7 avg, IF	7.02 L-index

#	Paper	IF	Citations
152	pH-induced metal-ligand cross-links inspired by mussel yield self-healing polymer networks with near-covalent elastic moduli. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2651-5	11.5	1114
151	Iron-clad fibers: a metal-based biological strategy for hard flexible coatings. *Science*, **2010**, 328, 216-20	33.3	688
150	Polyphosphoprotein from the adhesive pads of Mytilus edulis. *Biochemistry*, **2001**, 40, 2887-93	3.2	498
149	BIOLOGICAL ADHESIVES. Adaptive synergy between catechol and lysine promotes wet adhesion by surface salt displacement. *Science*, **2015**, 349, 628-32	33.3	410
148	Adhesion mechanisms of the mussel foot proteins mfp-1 and mfp-3. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 3782-6	11.5	409
147	Cross-linking in adhesive quinoproteins: studies with model decapeptides. *Biochemistry*, **2000**, 39, 11147-53	3.2	396
146	Strong reversible Fe3+-mediated bridging between dopa-containing protein films in water. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12850-3	11.5	380
145	Surface-initiated self-healing of polymers in aqueous media. *Nature Materials*, **2014**, 13, 867-72	27	361
144	Toughening elastomers using mussel-inspired iron-catechol complexes. *Science*, **2017**, 358, 502-505	33.3	329
143	Mussel adhesion - essential footwork. *Journal of Experimental Biology*, **2017**, 220, 517-530	3	320
142	Adhesion a la moule. *Integrative and Comparative Biology*, **2002**, 42, 1172-80	2.8	318
141	Mussel protein adhesion depends on interprotein thiol-mediated redox modulation. *Nature Chemical Biology*, **2011**, 7, 588-90	11.7	312
140	Mussel Adhesion: Finding the Tricks Worth Mimicking **2005**, 81, 297-317		299
139	The transition from stiff to compliant materials in squid beaks. *Science*, **2008**, 319, 1816-9	33.3	287
138	The Contribution of DOPA to Substrate-Peptide Adhesion and Internal Cohesion of Mussel-Inspired Synthetic Peptide Films. *Advanced Functional Materials*, **2010**, 20, 4196-4205	15.6	280
137	Underwater contact adhesion and microarchitecture in polyelectrolyte complexes actuated by solvent exchange. *Nature Materials*, **2016**, 15, 407-412	27	278
136	Hydroxyarginine-containing polyphenolic proteins in the adhesive plaques of the marine mussel Mytilus edulis. *Journal of Biological Chemistry*, **1995**, 270, 20183-92	5.4	257

135	Extensible collagen in mussel byssus: a natural block copolymer. *Science*, **1997**, 277, 1830-2	33.3	216
134	Ferric Ion Complexes of a DOPA-Containing Adhesive Protein fromMytilus edulis. *Inorganic Chemistry*, **1996**, 35, 7572-7577	5.1	215
133	Cement proteins of the tube-building polychaete Phragmatopoma californica. *Journal of Biological Chemistry*, **2005**, 280, 42938-44	5.4	212
132	Linking adhesive and structural proteins in the attachment plaque of Mytilus californianus. *Journal of Biological Chemistry*, **2006**, 281, 26150-8	5.4	212
131	Adhesion of mussel foot proteins to different substrate surfaces. *Journal of the Royal Society Interface*, **2013**, 10, 20120759	4.1	208
130	The tube cement of Phragmatopoma californica: a solid foam. *Journal of Experimental Biology*, **2004**, 207, 4727-34	3	198
129	Adaptive hydrophobic and hydrophilic interactions of mussel foot proteins with organic thin films. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15680-5	11.5	189
128	High-performance mussel-inspired adhesives of reduced complexity. *Nature Communications*, **2015**, 6, 8663	17.4	186
127	Protective coatings on extensible biofibres. *Nature Materials*, **2007**, 6, 669-72	27	186
126	Protein- and metal-dependent interactions of a prominent protein in mussel adhesive plaques. *Journal of Biological Chemistry*, **2010**, 285, 25850-8	5.4	181
125	Viscosity and interfacial properties in a mussel-inspired adhesive coacervate. *Soft Matter*, **2010**, 6, 3232-3236	3.8	181
124	Peptide repeats in a mussel glue protein: theme and variations. *Biochemistry*, **1985**, 24, 5010-4	3.2	179
123	Adhesion of mussel foot protein-3 to TiO2 surfaces: the effect of pH. *Biomacromolecules*, **2013**, 14, 1072-79	6	177
122	Hydrophobic enhancement of Dopa-mediated adhesion in a mussel foot protein. *Journal of the American Chemical Society*, **2013**, 135, 377-83	16.4	173
121	Tuning underwater adhesion with cation-π interactions. *Nature Chemistry*, **2017**, 9, 473-479	17.6	171
120	MINIREVIEW POLYPHENOLS AND OXIDASES IN SUBSTRATUM ADHESION BY MARINE ALGAE AND MUSSELS. *Journal of Phycology*, **1998**, 34, 1-8	3	171
119	Metals and the integrity of a biological coating: the cuticle of mussel byssus. *Langmuir*, **2009**, 25, 3323-6	4	162
118	Exploring molecular and mechanical gradients in structural bioscaffolds. *Biochemistry*, **2004**, 43, 7653-62	3.2	159

117	Rotational echo double resonance detection of cross-links formed in mussel byssus under high-flow stress. *Journal of Biological Chemistry*, **1999**, 274, 20293-5	5.4	156
116	Adhesion of mussel foot protein Mefp-5 to mica: an underwater superglue. *Biochemistry*, **2012**, 51, 6511-8	3.2	155
115	ADHESION IN BYSSALLY ATTACHED BIVALVES. *Biological Reviews*, **1983**, 58, 209-231	13.5	155
114	Yield and post-yield behavior of mussel byssal thread: a self-healing biomolecular material. *Biomacromolecules*, **2001**, 2, 906-11	6.9	148
113	Polarographic and Spectrophotometric Investigation of Iron(III) Complexation to 3,4-Dihydroxyphenylalanine-Containing Peptides and Proteins from Mytilus edulis. *Inorganic Chemistry*, **1994**, 33, 5819-5824	5.1	148
112	A mussel-derived one component adhesive coacervate. *Acta Biomaterialia*, **2014**, 10, 1663-70	10.8	147
111	Zinc and mechanical prowess in the jaws of Nereis, a marine worm. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 9144-9	11.5	138
110	Holdfast heroics: comparing the molecular and mechanical properties of Mytilus californianus byssal threads. *Journal of Experimental Biology*, **2007**, 210, 4307-18	3	133
109	Effects of interfacial redox in mussel adhesive protein films on mica. *Advanced Materials*, **2011**, 23, 2362-6	14	131
108	An Underwater Surface-Drying Peptide Inspired by a Mussel Adhesive Protein. *Advanced Functional Materials*, **2016**, 26, 3496-3507	15.6	125
107	Versatile tuning of supramolecular hydrogels through metal complexation of oxidation-resistant catechol-inspired ligands. *Soft Matter*, **2013**, 9,	3.6	124
106	Probing the adhesive footprints of Mytilus californianus byssus. *Journal of Biological Chemistry*, **2006**, 281, 11090-6	5.4	124
105	Defining the Catechol-Cation Synergy for Enhanced Wet Adhesion to Mineral Surfaces. *Journal of the American Chemical Society*, **2016**, 138, 9013-6	16.4	116
104	Collagen insulated from tensile damage by domains that unfold reversibly: in situ X-ray investigation of mechanical yield and damage repair in the mussel byssus. *Journal of Structural Biology*, **2009**, 167, 47-54	3.4	109
103	The formation of mussel byssus: anatomy of a natural manufacturing process. *Results and Problems in Cell Differentiation*, **1992**, 19, 27-54	1.4	108
102	trans-2,3-cis-3,4-Dihydroxyproline, a New Naturally Occurring Amino Acid, Is the Sixth Residue in the Tandemly Repeated Consensus Decapeptides of an Adhesive Protein from Mytilus edulis. *Journal of the American Chemical Society*, **1994**, 116, 10803-10804	16.4	106
101	Cement precursor proteins of the reef-building polychaete Phragmatopoma californica (Fewkes). *Biochemistry*, **1992**, 31, 5733-8	3.2	105
100	Mini-review: the role of redox in Dopa-mediated marine adhesion. *Biofouling*, **2012**, 28, 865-77	3.3	101

99	Tough tendons. Mussel byssus has collagen with silk-like domains. *Journal of Biological Chemistry*, **1997**, 272, 32623-7	5.4	101
98	Critical role of zinc in hardening of Nereis jaws. *Journal of Experimental Biology*, **2006**, 209, 3219-25	3	101
97	Microphase Behavior and Enhanced Wet-Cohesion of Synthetic Copolyampholytes Inspired by a Mussel Foot Protein. *Journal of the American Chemical Society*, **2015**, 137, 9214-7	16.4	100
96	Infiltration of chitin by protein coacervates defines the squid beak mechanical gradient. *Nature Chemical Biology*, **2015**, 11, 488-95	11.7	98
95	Mapping chemical gradients within and along a fibrous structural tissue, mussel byssal threads. *Journal of Biological Chemistry*, **2005**, 280, 39332-6	5.4	95
94	Adhesion mechanism in a DOPA-deficient foot protein from green mussels(). *Soft Matter*, **2012**, 8, 5640-5648	3.8	94
93	Jumbo squid beaks: inspiration for design of robust organic composites. *Acta Biomaterialia*, **2007**, 3, 139-148	4.8	92
92	Improved performance of protected catecholic polysiloxanes for bioinspired wet adhesion to surface oxides. *Journal of the American Chemical Society*, **2012**, 134, 20139-45	16.4	91
91	Elastomeric gradients: a hedge against stress concentration in marine holdfasts?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2002**, 357, 143-53	5.8	91
90	Promotion of osteoblast proliferation on complex coacervation-based hyaluronic acid - recombinant mussel adhesive protein coatings on titanium. *Biomaterials*, **2010**, 31, 1080-4	15.6	88
89	Proteins in load-bearing junctions: the histidine-rich metal-binding protein of mussel byssus. *Biochemistry*, **2006**, 45, 14223-31	3.2	87
88	Interfacial pH during mussel adhesive plaque formation. *Biofouling*, **2015**, 31, 221-7	3.3	86
87	Structure and mucoadhesion of mussel glue protein in dilute solution. *Biochemistry*, **1998**, 37, 14108-12	3.2	80
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85	Catechol Oxidase in the Byssus of the Common Mussel, Mytilus Edulis L.. *Journal of the Marine Biological Association of the United Kingdom*, **1985**, 65, 359-371	1.1	73
84	Cross-linking chemistry of squid beak. *Journal of Biological Chemistry*, **2010**, 285, 38115-24	5.4	71
83	A molecular, morphometric and mechanical comparison of the structural elements of byssus from Mytilus edulis and Mytilus galloprovincialis. *Journal of Experimental Biology*, **2002**, 205, 1807-1817	3	70
82	Stiff coatings on compliant biofibers: the cuticle of Mytilus californianus byssal threads. *Biochemistry*, **2009**, 48, 2752-9	3.2	69

81	Composition and ultrastructure of the byssus of Mytilus edulis. *Journal of Morphology*, **1986**, 189, 261-70	1.6	68
80	Surface force measurements and simulations of mussel-derived peptide adhesives on wet organic surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 4332-7	11.5	65
79	Bridging adhesion of mussel-inspired peptides: role of charge, chain length, and surface type. *Langmuir*, **2015**, 31, 1105-12	4	64
78	Marine Surfaces and the Expression of Specific Byssal Adhesive Protein Variants in Mytilus. *Marine Biotechnology*, **2000**, 2, 352-363	3.4	64
77	Sea star tenacity mediated by a protein that fragments, then aggregates. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6317-22	11.5	63
76	Chemical Subtleties of Mussel and Polychaete Holdfasts **2006**, 125-143		62
75	The role of calcium and magnesium in the concrete tubes of the sandcastle worm. *Journal of Experimental Biology*, **2007**, 210, 1481-8	3	61
74	Mussel glue from Mytilus californianus Conrad: a comparative study. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1986**, 156, 491-6	2.2	60
73	Intrinsic surface-drying properties of bioadhesive proteins. *Angewandte Chemie - International Edition*, **2014**, 53, 11253-6	16.4	57
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71	pH-dependent locking of giant mesogens in fibers drawn from mussel byssal collagens. *Biomacromolecules*, **2008**, 9, 1480-6	6.9	56
70	Halogenated veneers: protein cross-linking and halogenation in the jaws of nereis, a marine polychaete worm. *ChemBioChem*, **2006**, 7, 1392-9	3.8	55
69	Mussels as a model system for integrative ecomechanics. *Annual Review of Marine Science*, **2015**, 7, 443-69	13.4	53
68	Dynamics of mussel plaque detachment. *Soft Matter*, **2015**, 11, 6832-9	3.6	50
67	How Nature Modulates a Fiber's Mechanical Properties: Mechanically Distinct Fibers Drawn from Natural Mesogenic Block Copolymer Variants. *Advanced Materials*, **2009**, 21, 440-444	24	50
66	Giant bent-core mesogens in the thread forming process of marine mussels. *Biomacromolecules*, **2004**, 5, 1351-5	6.9	50
65	Hyperunstable matrix proteins in the byssus of Mytilus galloprovincialis. *Journal of Experimental Biology*, **2009**, 212, 2224-36	3	49
64	Local Water Dynamics in Coacervated Polyelectrolytes Monitored Through Dynamic Nuclear Polarization-Enhanced H NMR. *Macromolecules*, **2009**, 42, 7404-7412	5.5	49

63	Mineral minimization in nature Ts alternative teeth. *Journal of the Royal Society Interface*, **2007**, 4, 19-31	4.1	49
62	A glycosylated byssal precursor protein from the green mussel Perna viridis with modified dopa side-chains. *Biofouling*, **2004**, 20, 101-15	3.3	46
61	Determination of (catecholato)borate complexes using difference spectrophotometry. *Analytical Chemistry*, **1984**, 56, 1935-1939	7.8	46
60	A cohort of new adhesive proteins identified from transcriptomic analysis of mussel foot glands. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	45
59	Significant Performance Enhancement of Polymer Resins by Bioinspired Dynamic Bonding. *Advanced Materials*, **2017**, 29, 1703026	24	45
58	Collagen-binding matrix proteins from elastomeric extraorganismic byssal fibers. *Biomacromolecules*, **2002**, 3, 1240-8	6.9	45
57	Rate-Dependent Stiffness and Recovery in Interpenetrating Network Hydrogels through Sacrificial Metal Coordination Bonds. *ACS Macro Letters*, **2015**, 4, 1200-1204	6.6	44
56	Fluorescence Investigations into Complex Coacervation between Polyvinylimidazole and Sodium Alginate. *Macromolecules*, **2009**, 42, 2168-2176	5.5	44
55	Periostracin □A soluble precursor of sclerotized periostracum inMytilus edulis L.. *Journal of Comparative Physiology ? B*, **1979**, 130, 301-307		44
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53	Optimized DPPH assay in a detergent-based buffer system for measuring antioxidant activity of proteins. *MethodsX*, **2014**, 1, 233-238	1.9	43
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51	Diverse Strategies of Protein Sclerotization in Marine Invertebrates: Structure□Property Relationships in Natural Biomaterials. *Advances in Insect Physiology*, **2010**, 38, 75-133	2.5	42
50	A nonmineralized approach to abrasion-resistant biomaterials. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 13559-64	11.5	42
49	Glycosylated hydroxytryptophan in a mussel adhesive protein from Perna viridis. *Journal of Biological Chemistry*, **2009**, 284, 23344-52	5.4	41
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44	Characterization of the adhesive from cuvierian tubules of the sea cucumber Holothuria forskali (Echinodermata, Holothuroidea). *Marine Biotechnology*, **2003**, 5, 45-57	3.4	35
43	Distribution and Role of Trace Transition Metals in Glycera Worm Jaws Studied with Synchrotron Microbeam Techniques. *Chemistry of Materials*, **2005**, 17, 2927-2931	9.6	33
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41	The staying power of adhesion-associated antioxidant activity in Mytilus californianus. *Journal of the Royal Society Interface*, **2015**, 12, 20150614	4.1	31
40	Redox Capacity of an Extracellular Matrix Protein Associated with Adhesion in Mytilus californianus. *Biochemistry*, **2016**, 55, 2022-30	3.2	30
39	Cloning, sequencing and sites of expression of genes for the hydroxyarginine-containing adhesive-plaque protein of the mussel Mytilus galloprovincialis. *FEBS Journal*, **1996**, 239, 172-6		30
38	Peptide Length and Dopa Determine Iron-Mediated Cohesion of Mussel Foot Proteins. *Advanced Functional Materials*, **2015**, 25, 5840-5847	15.6	29
37	Mussel adhesive protein provides cohesive matrix for collagen type-1 *Biomaterials*, **2015**, 51, 51-57	15.6	29
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33	Dehydro-Dopa: A Hidden Participant in Mussel Adhesion. *Biochemistry*, **2016**, 55, 743-50	3.2	27
32	The microscopic network structure of mussel (Mytilus) adhesive plaques. *Journal of the Royal Society Interface*, **2015**, 12, 20150827	4.1	26
31	Marine hydroid perisarc: a chitin- and melanin-reinforced composite with DOPA-iron(III) complexes. *Acta Biomaterialia*, **2013**, 9, 8110-7	10.8	26
30	Exploring gradients of halogens and zinc in the surface and subsurface of Nereis jaws. *Langmuir*, **2006**, 22, 8465-71	4	25
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28	Intrinsic Surface-Drying Properties of Bioadhesive Proteins. *Angewandte Chemie*, **2014**, 126, 11435-11438	9.6	23

27	Interaction of the Adhesive Protein Mefp-1 and Fibrinogen with Methyl and Oligo (Ethylene Glycol)-terminated Self-assembled Monolayers **2000**, 73, 161-177		23
26	Phase-dependent redox insulation in mussel adhesion. *Science Advances*, **2020**, 6, eaaz6486	14.3	20
25	Antioxidant efficacy and adhesion rescue by a recombinant mussel foot protein-6. *Biotechnology Progress*, **2013**, 29, 1587-93	2.8	20
24	Oxidative stress and the mechanical properties of naturally occurring chimeric collagen-containing fibers. *Biophysical Journal*, **2001**, 81, 3590-5	2.9	20
23	Simple peptide coacervates adapted for rapid pressure-sensitive wet adhesion. *Soft Matter*, **2017**, 13, 9122-9131	3.6	18
22	Tough coating proteins: subtle sequence variation modulates cohesion. *Biomacromolecules*, **2015**, 16, 1002-8	6.9	17
21	Four-stranded coiled-coil elastic protein in the byssus of the giant clam, Tridacna maxima. *Biomacromolecules*, **2012**, 13, 332-41	6.9	17
20	Eggshell formation in Bdelloura candida, an ectoparasitic turbellarian of the horseshoe crab Limulus polyphemus. *The Journal of Experimental Zoology*, **1993**, 265, 549-57		17
19	Layer-by-layer polyelectrolyte deposition: a mechanism for forming biocomposite materials. *Biomacromolecules*, **2013**, 14, 1715-26	6.9	16
18	Effects of hydration on mechanical properties of a highly sclerotized tissue. *Biophysical Journal*, **2008**, 94, 3266-72	2.9	16
17	Intertidal exposure favors the soft-studded armor of adaptive mussel coatings. *Nature Communications*, **2018**, 9, 3424	17.4	15
16	Dueling Backbones: Comparing Peptoid and Peptide Analogues of a Mussel Adhesive Protein. *Macromolecules*, **2020**, 53, 6767-6779	5.5	11
15	Force distribution and multiscale mechanics in the mussel byssus. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20190202	5.8	10
14	A Cation-Methylene-Phenyl Sequence Encodes Programmable Poly(Ionic Liquid) Coacervation and Robust Underwater Adhesion. *Advanced Functional Materials*,2105464	15.6	9
13	Influence of multi-cycle loading on the structure and mechanics of marine mussel plaques. *Soft Matter*, **2017**, 13, 7381-7388	3.6	8
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10	The Thiol-Rich Interlayer in the Shell/Core Architecture of Mussel Byssal Threads. *Langmuir*, **2019**, 35, 15985-15991	4	3

9	A Microcosm of Wet Adhesion: Dissecting Protein Interactions in Mussel Attachment Plaques319-349		3
8	In-situ Raman Spectroscopic Imaging of a Mussel Coating and Adhesive **2010**,		2
7	Heavy Metals in the Jaws of Invertebrates **2010**, 295-325		2
6	Nano-Mechanical Investigation of the Byssal Cuticle, a Protective Coating of a Bio-Elastomer. *Materials Research Society Symposia Proceedings*, **2004**, 841, R3.7.1/Y3.7.1		2
5	The Jaws of Nereis: Microstructure and Mechanical Properties. *Materials Research Society Symposia Proceedings*, **2005**, 874, 1		2
4	Molecular Context of Dopa Influences Adhesion of Mussel-Inspired Peptides. *Journal of Physical Chemistry B*, **2021**, 125, 9999-10008	3.4	1
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2	Nanolatticed Architecture Mitigates Damage in Shark Egg Cases. *Nano Letters*, **2021**, 21, 8080-8085	11.5	0
1	Nano-Mechanical Investigation of the Byssal Cuticle, a Protective Coating of a Bio-Elastomer. *Materials Research Society Symposia Proceedings*, **2004**, 844, 1		