

# Hans Elwing

## List of Publications by Year in descending order

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104  
papers

6,457  
citations

76196

40  
h-index

64668

79  
g-index

104  
all docs

104  
docs citations

104  
times ranked

6312  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel XRF method to measure environmental release of copper and zinc from antifouling paints. <i>Environmental Pollution</i> , 2017, 225, 490-496.	3.7	27
2	Absence of conformational change in complement factor 3 and factor XII adsorbed to acrylate polymers is related to a high degree of polymer backbone flexibility. <i>Biointerphases</i> , 2017, 12, 02D417.	0.6	14
3	Affinity states of biocides determine bioavailability and release rates in marine paints. <i>Biofouling</i> , 2015, 31, 201-210.	0.8	4
4	Gold Nanoparticle-Assisted Self-Assembly of Chemical Gradients with Tunable Sub-50 nm Molecular Domains. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 209-218.	1.2	19
5	The impact of coating hardness on the anti-barnacle efficacy of an embedded antifouling biocide. <i>Biofouling</i> , 2013, 29, 763-773.	0.8	13
6	Quartz crystal microbalance with dissipation monitoring and the real-time study of biological systems and macromolecules at interfaces. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 325-338.	1.2	1
7	Immune complement activation is attenuated by surface nanotopography. <i>International Journal of Nanomedicine</i> , 2011, 6, 2653.	3.3	70
8	Innate immunity activation on biomaterial surfaces: A mechanistic model and coping strategies. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1042-1050.	6.6	163
9	Multi-seasonal barnacle ( <i>Balanus improvisus</i> ) protection achieved by trace amounts of a macrocyclic lactone (ivermectin) included in rosin-based coatings. <i>Biofouling</i> , 2011, 27, 941-953.	0.8	33
10	Investigation of Adsorption and Cross-Linking of a Mussel Adhesive Protein Using Attenuated Total Internal Reflection Fourier Transform Infrared Spectroscopy (ATR-FTIR). <i>Journal of Adhesion</i> , 2010, 86, 25-38.	1.8	22
11	Blood Interactions with Noble Metals: Coagulation and Immune Complement Activation. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1053-1062.	4.0	38
12	Fibrinogen Adsorption and Conformational Change on Model Polymers: Novel Aspects of Mutual Molecular Rearrangement. <i>Langmuir</i> , 2009, 25, 5602-5608.	1.6	65
13	The Interaction Between Model Biomaterial Coatings and Nylon Microparticles as Measured with a Quartz Crystal Microbalance with Dissipation Monitoring. <i>Macromolecular Bioscience</i> , 2008, 8, 410-416.	2.1	28
14	Erosion of a model rosin-based marine antifouling paint binder as studied with quartz crystal microbalance with dissipation monitoring (QCM-D) and ellipsometry. <i>Progress in Organic Coatings</i> , 2008, 61, 83-88.	1.9	9
15	Self-Arrangement Among Charge-Stabilized Gold Nanoparticles on a Dithiothreitol Reactivated Octanedithiol Monolayer. <i>Nano Letters</i> , 2008, 8, 3989-3992.	4.5	39
16	The Influence of Halide-Mediated Oxidation on Algae-Born Adhesives. <i>Macromolecular Bioscience</i> , 2007, 7, 1280-1289.	2.1	21
17	Quartz crystal microbalance-with dissipation monitoring (QCM-D) for real time measurements of blood coagulation density and immune complement activation on artificial surfaces. <i>Biosensors and Bioelectronics</i> , 2005, 21, 79-86.	5.3	93
18	Evidence for different pharmacological targets for imidazoline compounds inhibiting settlement of the barnacle <i>Balanus improvisus</i> . <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 551-562.	1.3	26

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19	Use of Surface-Sensitive Methods for the Study of Adsorption and Cross-Linking of Marine Bioadhesives. <i>Journal of Adhesion</i> , 2005, 81, 805-822.	1.8	22
20	Reduction of Irreversible Protein Adsorption on Solid Surfaces by Protein Engineering for Increased Stability. <i>Journal of Biological Chemistry</i> , 2005, 280, 25558-25564.	1.6	73
21	Use of a Quartz Crystal Microbalance To Investigate the Antiadhesive Potential of N -Acetyl- I -Cysteine. <i>Applied and Environmental Microbiology</i> , 2005, 71, 2705-2712.	1.4	46
22	Immune complement activation on polystyrene and silicon dioxide surfaces Impact of reversible IgG adsorption. <i>Molecular Immunology</i> , 2005, 42, 569-574.	1.0	28
23	Surface wettability as a determinant in the settlement of the barnacle <i>Balanus Improvisus</i> (DARWIN). <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 305, 223-232.	0.7	75
24	Impact of polymer surface affinity of novel antifouling agents. <i>Biotechnology and Bioengineering</i> , 2004, 86, 1-8.	1.7	32
25	The effect of substrate molecular mobility on surface induced immune complement activation and blood plasma coagulation. <i>Biomaterials</i> , 2004, 25, 4581-4590.	5.7	42
26	Enzymatic Cross-Linking of a Phenolic Polymer Extracted from the Marine Alga <i>Fucus serratus</i> . <i>Biomacromolecules</i> , 2004, 5, 2376-2383.	2.6	69
27	Oxygen radical production in neutrophils interacting with platelets and surface-immobilized plasma proteins: Role of tyrosine phosphorylation. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 439-447.	2.1	22
28	Methods for research on immune complement activation on modified sensor surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 27, 295-301.	2.5	31
29	N -Acetyl- I -Cysteine Affects Growth, Extracellular Polysaccharide Production, and Bacterial Biofilm Formation on Solid Surfaces. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4814-4822.	1.4	214
30	Studies on the Conformation of Adsorbed Proteins with the Use of Nanoparticle Technology. <i>Surfactant Science</i> , 2003, , .	0.0	0
31	The Influence of Cross-Linking on Protein-Protein Interactions in a Marine Adhesive: The Case of Two Byssus Plaque Proteins from the Blue Mussel. <i>Biomacromolecules</i> , 2002, 3, 732-741.	2.6	45
32	Acoustics of blood plasma on solid surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 907-917.	1.9	26
33	The influence of plasma proteins and platelets on oxygen radical production and F-actin distribution in neutrophils adhering to polymer surfaces. <i>Biomaterials</i> , 2002, 23, 1785-1795.	5.7	56
34	Variations in Coupled Water, Viscoelastic Properties, and Film Thickness of a Mefp-1 Protein Film during Adsorption and Cross-Linking: A Quartz Crystal Microbalance with Dissipation Monitoring, Ellipsometry, and Surface Plasmon Resonance Study. <i>Analytical Chemistry</i> , 2001, 73, 5796-5804.	3.2	1,087
35	Surface active adrenoceptor compounds prevent the settlement of cyprid larvae of <i>Balanus improvisus</i> . <i>Biofouling</i> , 2000, 16, 191-203.	0.8	102
36	Adsorption behavior and enzymatically or chemically induced cross-linking of a mussel adhesive protein. <i>Biofouling</i> , 2000, 16, 119-132.	0.8	77

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37	The role of type 1 fimbriae in adhesion of <i>Escherichia coli</i> to hydrophilic and hydrophobic surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 15, 99-111.	2.5	56
38	Conformation of Human Carbonic Anhydrase II Variants Adsorbed to Silica Nanoparticles. <i>Langmuir</i> , 1999, 15, 6395-6399.	1.6	35
39	Effect of Ionic Strength on Initial Interactions of <i>Escherichia coli</i> with Surfaces, Studied On-Line by a Novel Quartz Crystal Microbalance Technique. <i>Journal of Bacteriology</i> , 1999, 181, 5210-5218.	1.0	107
40	Protein absorption and ellipsometry in biomaterial research. <i>Biomaterials</i> , 1998, 19, 397-406.	5.7	266
41	Polar adhesion of <i>Treponema denticola</i> on wettability gradient surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 11, 177-186.	2.5	4
42	Neutrophil interaction with protein-coated surfaces studied by an extended quartz crystal microbalance technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 11, 255-264.	2.5	59
43	Adsorption to silica nanoparticles of human carbonic anhydrase II and truncated forms induce a molten-globule-like structure. <i>FEBS Letters</i> , 1997, 402, 67-72.	1.3	64
44	Two-dimensional reflectometry visualisation of antigen-antibody binding on solid surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 1997, 9, 59-65.	2.5	4
45	Complement activation on thiol-modified gold surfaces. , 1996, 30, 535-541.		23
46	Structural Changes of T4 Lysozyme upon Adsorption to Silica Nanoparticles Measured by Circular Dichroism. <i>Journal of Colloid and Interface Science</i> , 1995, 175, 77-82.	5.0	149
47	Competition between fibrinogen and a non-ionic surfactant in adsorption to a wettability gradient surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 4, 23-31.	2.5	27
48	Adsorption of fibrinogen and some other proteins from blood plasma at a variety of solid surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1995, 6, 573-583.	1.9	40
49	The chemiluminescence response of neutrophils on polymer surfaces made by glow discharge plasma polymerization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1995, 6, 741-749.	1.9	4
50	Fluorimetric investigation of recombinant human growth hormone adsorbed on silica nanoparticles. <i>Analytica Chimica Acta</i> , 1994, 290, 21-26.	2.6	2
51	Complement activation on solid surfaces as determined by C3 deposition and hemolytic consumption. <i>Journal of Biomedical Materials Research Part B</i> , 1994, 28, 767-773.	3.0	36
52	Lens-on-surface method for investigating adhesion of <i>Staphylococcus aureus</i> to solid surfaces incubated in blood plasma. <i>Journal of Biomedical Materials Research Part B</i> , 1994, 28, 775-782.	3.0	4
53	A fluorescence technique for investigating protein adsorption phenomena at a colloidal silica surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 1994, 2, 457-461.	2.5	26
54	Effects of Odorants on Pigment Aggregation and cAMP in Fish Melanophores. <i>Pigment Cell &amp; Melanoma Research</i> , 1994, 7, 61-64.	4.0	8

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55	An Off-Null Ellipsometer with Lateral Scanning Capability for Kinetic Studies at Liquid-Solid Interfaces. <i>Journal of Colloid and Interface Science</i> , 1993, 157, 498-503.	5.0	15
56	Complement Activation on Radio Frequency Plasma Modified Polystyrene Surfaces. <i>Journal of Colloid and Interface Science</i> , 1993, 158, 121-128.	5.0	27
57	Surfactant and Protein Interactions on Wettability Gradient Surfaces. <i>Journal of Colloid and Interface Science</i> , 1993, 158, 188-194.	5.0	67
58	'Lens-on-surface' : a versatile method for the investigation of plasma protein exchange reactions on solid surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1992, 3, 7-15.	1.9	13
59	Studies of surface activated coagulation: antisera binding onto methyl gradients on silicon incubated in human plasma in vitro. <i>Biomaterials</i> , 1992, 13, 367-374.	5.7	29
60	Antisera binding onto metals immersed in human plasma in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1992, 26, 1205-1216.	3.0	22
61	Structure of adsorbed fibrinogen obtained by scanning force microscopy. <i>FEBS Letters</i> , 1991, 280, 225-228.	1.3	87
62	Structure of 3-aminopropyl triethoxy silane on silicon oxide. <i>Journal of Colloid and Interface Science</i> , 1991, 147, 103-118.	5.0	494
63	Protein immobilization of 3-aminopropyl triethoxy surfaces: Characterization by detergent washing. <i>Journal of Colloid and Interface Science</i> , 1991, 143, 327-335.	5.0	68
64	A model for the interaction between titanium and living systems. <i>Biofouling</i> , 1991, 4, 219-223.	0.8	1
65	Identification and quantification of immune precipitates adsorbed on solid surfaces. <i>Biofouling</i> , 1991, 4, 53-60.	0.8	2
66	Degradation of dried Ti-peroxy gels made from metallic titanium and hydrogen peroxide. <i>Journal of Colloid and Interface Science</i> , 1990, 139, 575-580.	5.0	30
67	Fish scales as Biosensors for Catecholamines. <i>Biosensors and Bioelectronics</i> , 1990, 5, 449-459.	5.3	25
68	Protein and detergent interaction phenomena on solid surfaces with gradients in chemical composition. <i>Advances in Colloid and Interface Science</i> , 1990, 32, 317-339.	7.0	66
69	Simple kinetic models for protein exchange reactions on solid surfaces. <i>Journal of Colloid and Interface Science</i> , 1990, 136, 68-84.	5.0	78
70	Proteolytic degradation of fibrinogen layers adsorbed on hydrophilic and hydrophobic surfaces. <i>Colloids and Surfaces</i> , 1990, 44, 51-60.	0.9	7
71	The Fish Pigment Cell: An Alternative Model in Biomedical Research. <i>ATLA Alternatives To Laboratory Animals</i> , 1990, 18, 201-224.	0.7	7
72	Plasmaprotein Adsorption on Solid Surfaces. Some New Methods. , 1990, , 221-232.		0

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73	A solid-phase method for protein determination. <i>Colloids and Surfaces</i> , 1989, 36, 449-457.	0.9	0
74	Titanium-hydrogen peroxide interaction: model studies of the influence of the inflammatory response on titanium implants. <i>Biomaterials</i> , 1989, 10, 166-175.	5.7	239
75	Interaction between hydrogen peroxide and titanium: a possible role in the biocompatibility of titanium. <i>Biomaterials</i> , 1989, 10, 118-120.	5.7	151
76	Titanium gel made from metallic titanium and hydrogen peroxide. <i>Journal of Colloid and Interface Science</i> , 1989, 130, 405-413.	5.0	148
77	Desorption of fibrinogen and $\hat{I}^3$ -globulin from solid surfaces induced by a nonionic detergent. <i>Journal of Colloid and Interface Science</i> , 1989, 128, 296-300.	5.0	68
78	Conformational changes of a model protein (complement factor 3) adsorbed on hydrophilic and hydrophobic solid surfaces. <i>Journal of Colloid and Interface Science</i> , 1988, 125, 139-145.	5.0	97
79	Adsorption of fibrinogen as a measure of the distribution of methyl groups on silicon surfaces. <i>Journal of Colloid and Interface Science</i> , 1988, 123, 306-308.	5.0	56
80	Protein Adsorption on Solid Surfaces: Physical Studies and Biological Model Reactions. ACS Symposium Series, 1987, , 468-488.	0.5	16
81	The Reflectometer:.. <i>Annals of the New York Academy of Sciences</i> , 1987, 501, 560-561.	1.8	0
82	Serum complement deposition on platinum and titanium oxide surfaces measured by ellipsometry at liquid-solid interface. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 263-267.	3.0	8
83	Competition between adsorbed fibrinogen and high-molecular-weight kininogen on solid surfaces incubated in human plasma (the vroman effect): Influence of solid surface wettability. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1023-1028.	3.0	64
84	A wettability gradient method for studies of macromolecular interactions at the liquid/solid interface. <i>Journal of Colloid and Interface Science</i> , 1987, 119, 203-210.	5.0	296
85	Complement deposition from human sera on silicon surfaces studied in situ by ellipsometry. The influence of surface wettability. <i>FEBS Journal</i> , 1986, 156, 359-365.	0.2	54
86	Reflectometry in kinetic studies of immunological and enzymatic reactions on solid surfaces. <i>Analytica Chimica Acta</i> , 1984, 163, 263-267.	2.6	33
87	Stereospecific binding capacity of proteins on surfacesâ€”Simple mathematical models. <i>Journal of Theoretical Biology</i> , 1984, 110, 195-204.	0.8	14
88	Complement factor adsorption on solid surfaces â€” an ellipsometric method for investigation of quantitative aspects. <i>Journal of Immunological Methods</i> , 1984, 71, 185-191.	0.6	14
89	Evaluation of solubilized herpes simplex virus membrane antigens in diffusion in gel-enzyme-linked immunosorbent assay (DIG-ELISA). <i>Journal of Virological Methods</i> , 1982, 4, 167-176.	1.0	20
90	Kinetics of reaction zone formation with radial diffusion of ligands over a receptor-coated surface. <i>Journal of Theoretical Biology</i> , 1982, 98, 307-320.	0.8	27

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91	Proteins adsorbed to a hydrophobic surface used for determination of proteolytic activity. <i>Enzyme and Microbial Technology</i> , 1982, 4, 265-268.	1.6	14
92	Biospecific bimolecular binding reactions – a new ellipsometric method for their detection, quantification and characterization. <i>Journal of Immunological Methods</i> , 1981, 44, 343-349.	0.6	26
93	Determination of proteolytic activity: A sensitive and simple assay utilizing substrate adsorbed to a plastic surface and radial diffusion in gel. <i>Analytical Biochemistry</i> , 1981, 118, 240-246.	1.1	30
94	Application of thin layer immunoassay (TIA) as a serodiagnostic tool in schistosomiasis. A preliminary report. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 1980, 74, 201-204.	0.7	8
95	Polystyrene-Adsorbed Gangliosides for Investigation of the Structure of the Tetanus-Toxin Receptor. <i>FEBS Journal</i> , 1980, 106, 371-379.	0.2	131
96	Diffusion-In-Gel Enzyme-Linked Immunosorbent Assay (DIG-ELISA): Optimal conditions for quantitation of antibodies. <i>Journal of Immunological Methods</i> , 1980, 39, 247-256.	0.6	34
97	Diffusion-in-gel thin layer immunoassay (DIG-TIA): Optimal conditions for quantitation of antibodies. <i>Journal of Immunological Methods</i> , 1980, 38, 257-268.	0.6	23
98	Water wettability of antigen and antigen-antibody layers on solid surfaces studied by the contact angle measurement technique. <i>FEBS Letters</i> , 1980, 116, 239-242.	1.3	11
99	Precipitate adsorption on surface (PAS): A new principle for serological analysis. <i>FEBS Letters</i> , 1980, 111, 365-368.	1.3	3
100	Application of Thin Layer Immunoassay (Tia) for Demonstration of Antibodies against <i>Entamoeba histolytica</i> *. <i>American Journal of Tropical Medicine and Hygiene</i> , 1980, 29, 524-529.	0.6	16
101	Diffusion in gel-enzyme linked immunosorbent assay (DIG-ELISA): A simple method for quantitation of class-specific antibodies. <i>Journal of Immunological Methods</i> , 1979, 31, 101-107.	0.6	69
102	A Precipitate Adsorption on Surface Technique: A Combination of Immunodiffusion and Thin-Layer Immunoassay. <i>International Archives of Allergy and Immunology</i> , 1977, 55, 82-85.	0.9	18
103	A simple spot technique for thin layer immunoassays (TIA) on plastic surfaces. <i>Journal of Immunological Methods</i> , 1977, 17, 131-145.	0.6	47
104	Visualization Principles in Thin-Layer Immunoassays (TIA) on Plastic Surfaces. <i>International Archives of Allergy and Immunology</i> , 1976, 51, 757-762.	0.9	38