

# Frits A De Wolf

## List of Publications by Year in descending order

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75  
papers

2,872  
citations

159585

30  
h-index

182427

51  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3255  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-yield secretion of recombinant gelatins by <i>Pichia pastoris</i> . <i>Yeast</i> , 1999, 15, 1087-1096.	1.7	233
2	Covalently Attached Monolayers on Crystalline Hydrogen-Terminated Silicon: An Extremely Mild Attachment by Visible Light. <i>Journal of the American Chemical Society</i> , 2005, 127, 2514-2523.	13.7	224
3	Design and self-assembly of simple coat proteins for artificial viruses. <i>Nature Nanotechnology</i> , 2014, 9, 698-702.	31.5	146
4	Secreted production of a custom-designed, highly hydrophilic gelatin in <i>Pichia pastoris</i> . <i>Protein Engineering, Design and Selection</i> , 2001, 14, 447-454.	2.1	121
5	Fracture and Self-Healing in a Well-Defined Self-Assembled Polymer Network. <i>Macromolecules</i> , 2010, 43, 3542-3548.	4.8	121
6	Covalent Microcontact Printing of Proteins for Cell Patterning. <i>Chemistry - A European Journal</i> , 2006, 12, 6290-6297.	3.3	118
7	Transport Studies of Doxorubicin in Model Membranes Indicate a Difference in Passive Diffusion across and Binding at the Outer and Inner Leaflet of the Plasma Membrane. <i>Biochemistry</i> , 1994, 33, 13761-13768.	2.5	110
8	Interaction of $^{125}$ I-Lactoglobulin with Small Hydrophobic Ligands As Monitored by Fluorometry and Equilibrium Dialysis: A Nonlinear Quenching Effects Related to Protein-Protein Association. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 2609-2618.	5.2	83
9	One-Step Photochemical Attachment of NHS-Terminated Monolayers onto Silicon Surfaces and Subsequent Functionalization. <i>Langmuir</i> , 2008, 24, 7931-7938.	3.5	78
10	Production of protein-based polymers in <i>Pichia pastoris</i> . <i>Biotechnology Advances</i> , 2019, 37, 642-666.	11.7	77
11	Precision Gels from Collagen-Inspired Triblock Copolymers. <i>Biomacromolecules</i> , 2009, 10, 1106-1113.	5.4	66
12	Comparable interaction of doxorubicin with various acidic phospholipids results in changes of lipid order and dynamics. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1990, 1096, 67-80.	3.8	65
13	Triblock Protein Copolymers Forming Supramolecular Nanotapes and pH-Responsive Gels. <i>Macromolecules</i> , 2009, 42, 1002-1009.	4.8	59
14	Physical gels of telechelic triblock copolymers with precisely defined junction multiplicity. <i>Soft Matter</i> , 2009, 5, 2057.	2.7	58
15	Nanoribbons Self-Assembled from Triblock Peptide Polymers and Coordination Polymers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4192-4195.	13.8	54
16	Dilute Self-Healing Hydrogels of Silk-Collagen-Like Block Copolypeptides at Neutral pH. <i>Biomacromolecules</i> , 2014, 15, 699-706.	5.4	54
17	Shape-Memory Effects in Biopolymer Networks with Collagen-Like Transient Nodes. <i>Biomacromolecules</i> , 2011, 12, 2285-2292.	5.4	51
18	Reduced Proteolysis of Secreted Gelatin and Yps1-Mediated $\beta$ -Factor Leader Processing in a <i>Pichia pastoris</i> <i>kex2</i> Disruptant. <i>Applied and Environmental Microbiology</i> , 2005, 71, 2310-2317.	3.1	50

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19	Role of anionic phospholipids in the interaction of doxorubicin and plasma membrane vesicles: Drug binding and structural consequences in bacterial systems. <i>Biochemistry</i> , 1993, 32, 6688-6695.	2.5	48
20	Precise Coating of a Wide Range of DNA Templates by a Protein Polymer with a DNA Binding Domain. <i>ACS Nano</i> , 2017, 11, 144-152.	14.6	48
21	Coating of Single DNA Molecules by Genetically Engineered Protein Diblock Copolymers. <i>Small</i> , 2012, 8, 3491-3501.	10.0	46
22	“Clickable” elastins: elastin-like polypeptides functionalized with azide or alkyne groups. <i>Chemical Communications</i> , 2009, , 4022.	4.1	42
23	Biosynthesis of an Amphiphilic Silk-Like Polymer. <i>Biomacromolecules</i> , 2008, 9, 1705-1711.	5.4	38
24	Secreted production of an elastin-like polypeptide by <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2009, 85, 293-301.	3.6	35
25	Hydrogels of collagen-inspired telechelic triblock copolymers for the sustained release of proteins. <i>Journal of Controlled Release</i> , 2010, 147, 298-303.	9.9	35
26	Self-Assembly of Silk-Collagen-like Triblock Copolymers Resembles a Supramolecular Living Polymerization. <i>ACS Nano</i> , 2012, 6, 133-140.	14.6	34
27	From Micelles to Fibers: Balancing Self-Assembling and Random Coiling Domains in pH-Responsive Silk-Collagen-Like Protein-Based Polymers. <i>Biomacromolecules</i> , 2014, 15, 3349-3357.	5.4	34
28	Regiospecific effect of 1-octanol on cis - trans isomerization of unsaturated fatty acids in the solvent-tolerant strain <i>Pseudomonas putida</i> S12. <i>Applied Microbiology and Biotechnology</i> , 2001, 57, 541-547.	3.6	33
29	Genetically engineered silk “collagen-like copolymer for biomedical applications: Production, characterization and evaluation of cellular response. <i>Acta Biomaterialia</i> , 2014, 10, 3620-3629.	8.3	31
30	Effect of doxorubicin on the order of the acyl chains of anionic and zwitterionic phospholipids in liquid-crystalline mixed model membranes: Absence of drug-induced segregation of lipids into extended domains. <i>Biochemistry</i> , 1992, 31, 9252-9262.	2.5	30
31	Reversible Temperature-Switching of Hydrogel Stiffness of Coassembled, Silk-Collagen-Like Hydrogels. <i>Biomacromolecules</i> , 2015, 16, 2506-2513.	5.4	28
32	Dilute gels with exceptional rigidity from self-assembling silk-collagen-like block copolymers. <i>Soft Matter</i> , 2009, 5, 4191.	2.7	27
33	Octavolateral projections to the torus semicircularis of the trout, <i>Salmo Gairdneri</i> . <i>Neuroscience Letters</i> , 1983, 38, 209-213.	2.1	26
34	Expression and secretion of human $\text{I}\pm 1$ (I) procollagen fragment by <i>Hansenula polymorpha</i> as compared to <i>Pichia pastoris</i> . <i>Enzyme and Microbial Technology</i> , 2000, 26, 640-644.	3.2	26
35	Elastin-like polypeptides of different molecular weights show independent transition temperatures when mixed. <i>Soft Matter</i> , 2009, 5, 4305.	2.7	26
36	Binding of doxorubicin to cardiolipin as compared to other anionic phospholipids “An evaluation of electrostatic effects. <i>Bioscience Reports</i> , 1991, 11, 275-284.	2.4	23

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37	Verapamil competes with doxorubicin for binding to anionic phospholipids resulting in increased internal concentrations and rates of passive transport of doxorubicin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1238, 137-146.	2.6	23
38	Fibril Formation by pH and Temperature Responsive Silk-Elastin Block Copolymers. <i>Biomacromolecules</i> , 2013, 14, 48-55.	5.4	23
39	Protein cross-linking tools for the construction of nanomaterials. <i>Current Opinion in Biotechnology</i> , 2016, 39, 61-67.	6.6	23
40	Characterization of the interaction of doxorubicin with (poly)phosphoinositides in model systems Evidence for specific interaction with phosphatidylinositol-monophosphate and -diphosphate. <i>FEBS Letters</i> , 1991, 288, 237-240.	2.8	22
41	Phosphatidylglycerol dependent protein translocation across the <i>Escherichia coli</i> inner membrane is inhibited by the anti-cancer drug doxorubicin. <i>FEBS Letters</i> , 1993, 324, 113-116.	2.8	22
42	Endogenous prolyl 4-hydroxylation in <i>Hansenula polymorpha</i> and its use for the production of hydroxylated recombinant gelatin. <i>FEMS Yeast Research</i> , 2002, 1, 291-298.	2.3	22
43	Secretion of elastin-like polypeptides with different transition temperatures by <i>Pichia pastoris</i> . <i>Biotechnology Progress</i> , 2012, 28, 242-247.	2.6	20
44	Fibrous Hydrogels for Cell Encapsulation: A Modular and Supramolecular Approach. <i>PLoS ONE</i> , 2016, 11, e0155625.	2.5	19
45	Polypeptide Nanoribbon Hydrogels Assembled through Multiple Supramolecular Interactions. <i>Langmuir</i> , 2009, 25, 12899-12908.	3.5	18
46	Chapter V Collagen and gelatin. <i>Progress in Biotechnology</i> , 2003, , 133-218.	0.2	17
47	Secreted production of collagen-inspired gel-forming polymers with high thermal stability in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , 2011, 108, 2517-2525.	3.3	17
48	Studies on well-coupled Photosystem I-enriched subchloroplast vesicles. Neutral red as a probe for external surface charge rather than internal protonation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1985, 809, 204-214.	1.0	16
49	Studies on well-coupled Photosystem I-enriched subchloroplast vesicles – characteristics and reinterpretation of single-turnover cyclic electron transfer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 936, 487-503.	1.0	16
50	Influence of molecular size on gel-forming properties of telechelic collagen-inspired polymers. <i>Soft Matter</i> , 2010, 6, 4681.	2.7	16
51	The significance of interfacial charge and proton displacements for the mechanism of energy transduction in biomembranes. <i>Bioelectrochemistry</i> , 1986, 16, 273-285.	1.0	15
52	Triggered Templated Assembly of Protein Polymersomes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9947-9950.	13.8	15
53	Nanofibrillar hydrogel scaffolds from recombinant protein-based polymers with integrin- and proteoglycan-binding domains. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 3082-3092.	4.0	15
54	Kinetics of network formation by telechelic polypeptides with trimeric nodes. <i>Soft Matter</i> , 2010, 6, 416-422.	2.7	14

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55	Heparin as a Bundler in a Self-Assembled Fibrous Network of Functionalized Protein-Based Polymers. <i>Biomacromolecules</i> , 2016, 17, 2063-2072.	5.4	14
56	Formation of nanotapes by co-assembly of triblock peptide copolymers and polythiophenes in aqueous solution. <i>Soft Matter</i> , 2009, 5, 1668.	2.7	13
57	Multi-responsive physical gels formed by a biosynthetic asymmetric triblock protein polymer and a polyanion. <i>Soft Matter</i> , 2013, 9, 8923.	2.7	13
58	Synergistic Stiffening in Double-Fiber Networks. <i>Biomacromolecules</i> , 2014, 15, 1233-1239.	5.4	13
59	Temperature-controlled positioning of fusion proteins in microreactors. <i>Soft Matter</i> , 2009, 5, 2261.	2.7	12
60	Tuning of Collagen Triple-Helix Stability in Recombinant Telechelic Polymers. <i>Biomacromolecules</i> , 2012, 13, 1250-1258.	5.4	11
61	Secreted production of self-assembling peptides in <i>Pichia pastoris</i> by fusion to an artificial highly hydrophilic protein. <i>Journal of Biotechnology</i> , 2010, 146, 66-73.	3.8	10
62	Cross-Linking and Bundling of Self-Assembled Protein-Based Polymer Fibrils via Heterodimeric Coiled Coils. <i>Biomacromolecules</i> , 2016, 17, 3893-3901.	5.4	10
63	Enhanced rigidity and rupture strength of composite hydrogel networks of bio-inspired block copolymers. <i>Soft Matter</i> , 2013, 9, 6936.	2.7	9
64	Pearl-necklace complexes of flexible polyanions with neutral/cationic diblock copolymers. <i>Soft Matter</i> , 2013, 9, 6406.	2.7	9
65	Disulfide bond-stabilized physical gels of an asymmetric collagen-inspired telechelic protein polymer. <i>Soft Matter</i> , 2013, 9, 6391.	2.7	8
66	Single-turnover flash-induced ATP synthesis in photosystem I-enriched subchloroplast vesicles. <i>FEBS Letters</i> , 1985, 192, 271-274.	2.8	6
67	Production in <i>Pichia pastoris</i> of complementary protein-based polymers with heterodimer-forming WW and PPxY domains. <i>Microbial Cell Factories</i> , 2016, 15, 105.	4.0	5
68	Studies on well-coupled Photosystem-I-enriched subchloroplast vesicles. Kinetic aspects of flash-induced energy transduction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 851, 295-312.	1.0	4
69	Endogenous prolyl 4-hydroxylation in and its use for the production of hydroxylated recombinant gelatin. <i>FEMS Yeast Research</i> , 2002, 1, 291-298.	2.3	4
70	Pathway-dependent properties of a multi-stimuli sensitive biosynthetic hybrid network. <i>Soft Matter</i> , 2013, 9, 8737.	2.7	4
71	Production in <i>Pichia pastoris</i> of protein-based polymers with small heterodimer-forming blocks. <i>Biotechnology and Bioengineering</i> , 2016, 113, 953-960.	3.3	4
72	The antimycin sensitivity of flash-induced ATP synthesis in photosystem I-enriched subchloroplast vesicles. <i>FEBS Letters</i> , 1988, 235, 278-282.	2.8	3

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73	Physical and mechanical properties of thermosensitive xanthan/collagen-inspired protein composite hydrogels. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 125-133.	3.4	2
74	Studies on well-coupled Photosystem I-enriched subchloroplast vesicles – energy-dependent switching between two different active states of the proton-translocation adenosine triphosphatase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 936, 475-486.	1.0	1
75	Enhanced stiffness of silk-like fibers by loop formation in the corona leads to stronger gels. <i>Biopolymers</i> , 2016, 105, 795-801.	2.4	1