

Thomas A Waigh

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,290
citations

25
h-index

46
g-index

73
ext. papers

2,716
ext. citations

5.4
avg. IF

4.84
L-index

#	Paper	IF	Citations
71	The phase transformations in starch during gelatinisation: a liquid crystalline approach. <i>Carbohydrate Research</i> , 2000 , 328, 165-76	2.9	236
70	Precise particle tracking against a complicated background: polynomial fitting with Gaussian weight. <i>Physical Biology</i> , 2007 , 4, 220-7	3	147
69	Chiral Side-Chain Liquid-Crystalline Polymeric Properties of Starch. <i>Macromolecules</i> , 1998 , 31, 7980-7984	5.5	122
68	Hydrophobic-region-induced transitions in self-assembled peptide nanostructures. <i>Langmuir</i> , 2009 , 25, 4115-23	4	120
67	Analysis of the Native Structure of Starch Granules with X-ray Microfocus Diffraction. <i>Macromolecules</i> , 1997 , 30, 3813-3820	5.5	115
66	Effect of ionic strength on the self-assembly, morphology and gelation of pH responsive sheet tape-forming peptides. <i>Tetrahedron</i> , 2007 , 63, 7457-7467	2.4	87
65	Reversible Thermo-responsive Peptide-PNIPAM Hydrogels for Controlled Drug Delivery. <i>Biomacromolecules</i> , 2019 , 20, 3601-3610	6.9	79
64	Particle tracking microrheology of purified gastrointestinal mucins. <i>Biopolymers</i> , 2014 , 101, 366-77	2.2	79
63	Molecular structure and rheological properties of short-side-chain heavily glycosylated porcine stomach mucin. <i>Biomacromolecules</i> , 2007 , 8, 3467-77	6.9	77
62	Enzymatic Regulation of Self-Assembling Peptide A9K2 Nanostructures and Hydrogelation with Highly Selective Antibacterial Activities. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15093-102	9.5	58
61	Semidilute and Concentrated Solutions of a Solvophobic Polyelectrolyte in Nonaqueous Solvents. <i>Macromolecules</i> , 2001 , 34, 1973-1980	5.5	57
60	Nanoribbons self-assembled from short peptides demonstrate the formation of polar zippers between sheets. <i>Nature Communications</i> , 2018 , 9, 5118	17.4	56
59	Intracellular microrheology of motile Amoeba proteus. <i>Biophysical Journal</i> , 2008 , 94, 3313-22	2.9	49
58	Recent advances in short peptide self-assembly: from rational design to novel applications. <i>Current Opinion in Colloid and Interface Science</i> , 2020 , 45, 1-13	7.6	46
57	Hydrogelation of the Short Self-Assembling Peptide I3QGK Regulated by Transglutaminase and Use for Rapid Hemostasis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17833-41	9.5	45
56	Charge and interfacial behavior of short side-chain heavily glycosylated porcine stomach mucin. <i>Biomacromolecules</i> , 2007 , 8, 3791-9	6.9	44
55	Roles of dynein and dynactin in early endosome dynamics revealed using automated tracking and global analysis. <i>PLoS ONE</i> , 2011 , 6, e24479	3.7	42

54	Enzyme-Triggered Morphological Transition of Peptide Nanostructures for Tumor-Targeted Drug Delivery and Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16357-16366	9.5	39
53	Shear-banding in polyacrylamide solutions revealed via optical coherence tomography velocimetry. <i>Soft Matter</i> , 2012 , 8, 11677	3.6	39
52	Dual self-assembly of supramolecular peptide nanotubes to provide stabilisation in water. <i>Nature Communications</i> , 2019 , 10, 4708	17.4	36
51	Double-globular structure of porcine stomach mucin: a small-angle X-ray scattering study. <i>Biomacromolecules</i> , 2008 , 9, 3216-22	6.9	36
50	Reorganisation of the salivary mucin network by dietary components: insights from green tea polyphenols. <i>PLoS ONE</i> , 2014 , 9, e108372	3.7	36
49	Tea derived galloylated polyphenols cross-link purified gastrointestinal mucins. <i>PLoS ONE</i> , 2014 , 9, e105362	3.7	35
48	Quantification of water in carbohydrate lamellae using SANS. <i>Faraday Discussions</i> , 1996 , 103, 325	3.6	30
47	Hydrophobic Control of the Bioactivity and Cytotoxicity of de Novo-Designed Antimicrobial Peptides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34609-34620	9.5	28
46	Nanostructure of polyplexes formed between cationic diblock copolymer and antisense oligodeoxynucleotide and its influence on cell transfection efficiency. <i>Biomacromolecules</i> , 2007 , 8, 3493-3502	6.9	24
45	Dynamic light scattering and rheology studies of aqueous solutions of amphiphilic sodium maleate containing copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 774-785	2.6	24
44	The flexibility and dynamics of the tubules in the endoplasmic reticulum. <i>Scientific Reports</i> , 2017 , 7, 164749	4.9	23
43	Surfactant-like peptides: From molecular design to controllable self-assembly with applications. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213418	23.2	23
42	Modes of correlated angular motion in live cells across three distinct time scales. <i>Physical Biology</i> , 2013 , 10, 036002	3	22
41	Multiple path length dual polarization interferometry. <i>Optics Express</i> , 2009 , 17, 10959-69	3.3	22
40	Self-Assembly of Mesoscopic Peptide Surfactant Fibrils Investigated by STORM Super-Resolution Fluorescence Microscopy. <i>Biomacromolecules</i> , 2017 , 18, 3481-3491	6.9	21
39	A combined small-angle X-ray and neutron scattering study of the structure of purified soluble gastrointestinal mucins. <i>Biopolymers</i> , 2014 , 101, 1154-64	2.2	19
38	Plasmid DNA complexation with phosphorylcholine diblock copolymers and its effect on cell transfection. <i>Langmuir</i> , 2008 , 24, 6881-8	4	18
37	Scattering Study of the Structure of Polystyrene Sulfonate Comb Polyelectrolytes in Solution. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 2475-2486	2.6	18

36	Persistence length of titin from rabbit skeletal muscles measured with scattering and microrheology techniques. <i>Biophysical Journal</i> , 2005 , 88, 4095-106	2.9	18
35	Reassessment of the importance of mucins in determining sputum properties in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 260-6	4.1	17
34	ESCRT-0 marks an APPL1-independent transit route for EGFR between the cell surface and the EEA1-positive early endosome. <i>Journal of Cell Science</i> , 2015 , 128, 755-67	5.3	16
33	Deciphering anomalous heterogeneous intracellular transport with neural networks. <i>ELife</i> , 2020 , 9,	8.9	16
32	Memory effects and Lévy walk dynamics in intracellular transport of cargoes. <i>Physical Review E</i> , 2018 , 98,	2.4	16
31	Measurement of the thickness of ultra-thin adsorbed globular protein layers with dual-polarisation interferometry: a comparison with neutron reflectivity. <i>Soft Matter</i> , 2011 , 7, 7223	3.6	15
30	Thermal fluctuations of fibres at short time scales. <i>Soft Matter</i> , 2008 , 4, 1438-1442	3.6	15
29	Small-Angle Neutron Scattering from Peptide Nematic Fluids and Hydrogels under Shear. <i>Langmuir</i> , 2003 , 19, 4940-4949	4	15
28	Determination of PMMA Residues on a Chemical-Vapor-Deposited Monolayer of Graphene by Neutron Reflection and Atomic Force Microscopy. <i>Langmuir</i> , 2018 , 34, 1827-1833	4	14
27	The impact and deformation of a viscoelastic drop at the air-liquid interface. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 163-73	9.3	14
26	Interfacial adsorption and denaturation of human milk and recombinant rice lactoferrin. <i>Biointerphases</i> , 2008 , 3, FB36	1.8	14
25	Aggregated Amphiphilic Antimicrobial Peptides Embedded in Bacterial Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44420-44432	9.5	14
24	Super-Resolution Fluorescence Microscopy Study of the Production of K1 Capsules by Escherichia coli: Evidence for the Differential Distribution of the Capsule at the Poles and the Equator of the Cell. <i>Langmuir</i> , 2019 , 35, 5635-5646	4	13
23	Optical coherence tomography picorheology of biopolymer solutions. <i>Applied Physics Letters</i> , 2008 , 92, 173903	3.4	12
22	The first passage probability of intracellular particle trafficking. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3753-61	3.6	11
21	First-passage-probability analysis of active transport in live cells. <i>Physical Review E</i> , 2012 , 86, 031910	2.4	11
20	Reduction of coherent artefacts in super-resolution fluorescence localisation microscopy. <i>Journal of Microscopy</i> , 2016 , 264, 375-383	1.9	10
19	How do Self-Assembling Antimicrobial Lipopeptides Kill Bacteria?. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55675-55687	9.5	10

18	Interfacial structure and history dependent activity of immobilised antibodies in model pregnancy tests. <i>Soft Matter</i> , 2012 , 8, 9847	3.6	8
17	X-ray and neutron imaging with colloids. <i>Current Opinion in Colloid and Interface Science</i> , 2012 , 17, 13-22	7.6	8
16	Non-Markovian intracellular transport with sub-diffusion and run-length dependent detachment rate. <i>PLoS ONE</i> , 2018 , 13, e0207436	3.7	8
15	Interfacial structure of immobilized antibodies and perdeuterated HSA in model pregnancy tests measured with neutron reflectivity. <i>Langmuir</i> , 2014 , 30, 5880-7	4	7
14	Phase separation in randomly charged polystyrene sulphonate ionomer solutions. <i>Polymer</i> , 2005 , 46, 7109-7117	3.9	7
13	Electronics of peptide- and protein-based biomaterials. <i>Advances in Colloid and Interface Science</i> , 2021 , 287, 102319	14.3	7
12	Active Modulation of States of Prestress in Self-Assembled Short Peptide Gels. <i>Biomacromolecules</i> , 2019 , 20, 1719-1730	6.9	6
11	Optical coherence tomography velocimetry of colloidal suspensions. <i>Soft Matter</i> , 2014 , 10, 8210-5	3.6	5
10	Structural Disruptions of the Outer Membranes of Gram-Negative Bacteria by Rationally Designed Amphiphilic Antimicrobial Peptides. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16062-16074	9.5	5
9	Narrow band optical filter in fluorescein doped boric acid glass saturable absorber thin films. <i>Optics Communications</i> , 2008 , 281, 2985-2988	2	4
8	Single-Molecule Study of Peptide Gel Dynamics Reveals States of Prestress. <i>Langmuir</i> , 2018 , 34, 14678-14689	4.689	4
7	Quenched Stochastic Optical Reconstruction Microscopy (qSTORM) with Graphene Oxide. <i>Scientific Reports</i> , 2018 , 8, 16928	4.9	4
6	A versatile route to edge-specific modifications to pristine graphene by electrophilic aromatic substitution. <i>Journal of Materials Science</i> , 2020 , 55, 10284-10302	4.3	3
5	Adsorption of DNA onto positively charged amidine colloidal spheres and the resultant bridging interaction. <i>International Journal of Biological Macromolecules</i> , 2007 , 41, 146-53	7.9	3
4	Assessing the Risk of Resistance to Cationic Biocides incorporating Realism-based and Biophysical Approaches. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021 ,	4.2	3
3	Neutron spin echo study of the dynamics of micellar solutions of randomly sulphonated polystyrene. <i>Polymer</i> , 2007 , 48, 3930-3934	3.9	2
2	Network organisation and the dynamics of tubules in the endoplasmic reticulum. <i>Scientific Reports</i> , 2021 , 11, 16230	4.9	2
1	Modulated optical phase conjugation in rhodamine 110 doped boric acid glass saturable absorber thin films. <i>Applied Physics Letters</i> , 2008 , 92, 101125	3.4	1

