

# Andrew M Smith

## List of Publications by Citations

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37  
papers

4,900  
citations

21  
h-index

40  
g-index

40  
ext. papers

5,277  
ext. citations

8.7  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
37	Designing peptide based nanomaterials. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 664-75	58.5	885
36	Fmoc-Diphenylalanine Self Assembles to a Hydrogel via a Novel Architecture Based on $\beta$ Interlocked $\beta$ Sheets. <i>Advanced Materials</i> , <b>2008</b> , 20, 37-41	24	753
35	Self-assembled peptide-based hydrogels as scaffolds for anchorage-dependent cells. <i>Biomaterials</i> , <b>2009</b> , 30, 2523-30	15.6	542
34	Enzyme-assisted self-assembly under thermodynamic control. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 19-24	28.7	446
33	Bioresponsive hydrogels. <i>Materials Today</i> , <b>2007</b> , 10, 40-48	21.8	375
32	Fmoc-diphenylalanine self-assembly mechanism induces apparent pKa shifts. <i>Langmuir</i> , <b>2009</b> , 25, 9447-53	14.5	332
31	Decoding the secrets of spider silk. <i>Materials Today</i> , <b>2011</b> , 14, 80-86	21.8	224
30	Engineering nanoscale order into a designed protein fiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10853-8	11.5	210
29	Direct observation of oligomeric species formed in the early stages of amyloid fibril formation using electrospray ionisation mass spectrometry. <i>Journal of Molecular Biology</i> , <b>2006</b> , 364, 9-19	6.5	130
28	An investigation of the conductivity of peptide nanotube networks prepared by enzyme-triggered self-assembly. <i>Nanoscale</i> , <b>2010</b> , 2, 960-6	7.7	129
27	Engineering Increased Stability into Self-Assembled Protein Fibers. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1022-1030	15.6	85
26	Three-dimensional cell culture of chondrocytes on modified di-phenylalanine scaffolds. <i>Biochemical Society Transactions</i> , <b>2007</b> , 35, 535-7	5.1	85
25	Enzymatic catalyzed synthesis and triggered gelation of ionic peptides. <i>Langmuir</i> , <b>2010</b> , 26, 11297-303	4	82
24	3D cell bioprinting of self-assembling peptide-based hydrogels. <i>Materials Letters</i> , <b>2017</b> , 190, 103-106	3.3	74
23	Controlling Self-Assembling Peptide Hydrogel Properties through Network Topology. <i>Biomacromolecules</i> , <b>2017</b> , 18, 826-834	6.9	68
22	Recombinant Spider Silks Biopolymers with Potential for Future Applications. <i>Polymers</i> , <b>2011</b> , 3, 640-661	4.5	66
21	Polar assembly in a designed protein fiber. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 44, 325-8	16.4	63

20	Biocatalytic self-assembly of 2D peptide-based nanostructures. <i>Soft Matter</i> , <b>2011</b> , 7, 10032	3.6	56
19	Controlling stiffness in nanostructured hydrogels produced by enzymatic dephosphorylation. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 660-4	5.1	52
18	Modification of $\beta$ Sheet Forming Peptide Hydrophobic Face: Effect on Self-Assembly and Gelation. <i>Langmuir</i> , <b>2016</b> , 32, 4917-23	4	34
17	Spider silk: understanding the structure-function relationship of a natural fiber. <i>Progress in Molecular Biology and Translational Science</i> , <b>2011</b> , 103, 131-85	4	33
16	Tuning of hydrogel stiffness using a two-component peptide system for mammalian cell culture. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 535-544	5.4	20
15	Functional Amyloids Used by Organisms: A Lesson in Controlling Assembly. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 127-135	2.6	19
14	Self-assembly of a dual functional bioactive peptide amphiphile incorporating both matrix metalloprotease substrate and cell adhesion motifs. <i>Soft Matter</i> , <b>2015</b> , 11, 3115-24	3.6	17
13	Raman optical activity of an achiral element in a chiral environment. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1093-1095	2.3	15
12	Ion and seed dependent fibril assembly of a spidroin core domain. <i>Journal of Structural Biology</i> , <b>2015</b> , 191, 130-8	3.4	14
11	Role of Sheet-Edge Interactions in $\beta$ Sheet Self-Assembling Peptide Hydrogels. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2285-2297	6.9	14
10	A self-assembling fluorescent dipeptide conjugate for cell labelling. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 137, 104-8	6	13
9	Dissecting the Fine Details of Assembly of $\alpha$ T = 3 Phage Capsid. <i>Journal of Theoretical Medicine</i> , <b>2005</b> , 6, 119-125		9
8	Modeling the Three-Dimensional Bioprinting Process of $\beta$ Sheet Self-Assembling Peptide Hydrogel Scaffolds.. <i>Frontiers in Medical Technology</i> , <b>2020</b> , 2, 571626	1.9	9
7	Data for ion and seed dependent fibril assembly of a spidroin core domain. <i>Data in Brief</i> , <b>2015</b> , 4, 571-6	1.2	8
6	Polar Assembly in a Designed Protein Fiber. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 329-332	3.6	7
5	Expression of recombinant horseradish peroxidase C in Escherichia coli. <i>Biochemical Society Transactions</i> , <b>1989</b> , 17, 1077-8	5.1	7
4	Fibril formation by short synthetic peptides. <i>Sub-Cellular Biochemistry</i> , <b>2012</b> , 65, 29-51	5.5	6
3	Nanospheres from the self-assembly of an elastin-inspired triblock peptide. <i>RSC Advances</i> , <b>2015</b> , 5, 95007-95013	3.7	5

- 2 CHAPTER 1: Interaction of Metal Ions with Proteins as a Source of Inspiration for Biomimetic Materials. *RSC Smart Materials*, **2015**, 1-31 0.6 4
- 1 Investigation of the redox state of recombinant horseradish peroxidase produced in inclusion bodies and factors affecting the efficiency of refolding. *Biochemical Society Transactions*, **1995**, 23, 138S<sup>5-1</sup> 3