Robert Chapman

List of Publications by Year
in descending order

55 papers	3,022 citations	147726 31 h-index	175177 52 g-index
57 all docs	57 docs citations	57 times ranked	3373 citing authors

#	Article	IF	Citations
1	Up in the air: oxygen tolerance in controlled/living radical polymerisation. Chemical Society Reviews, 2018, 47, 4357-4387.	18.7	313
2	Design and properties of functional nanotubes from the self-assembly of cyclic peptide templates. Chemical Society Reviews, 2012, 41, 6023.	18.7	265
3	Oxygen tolerant photopolymerization for ultralow volumes. Polymer Chemistry, 2017, 8, 5012-5022.	1.9	187
4	Highly Controlled Open Vessel RAFT Polymerizations by Enzyme Degassing. Macromolecules, 2014, 47, 8541-8547.	2.2	177
5	An Oxygenâ€Tolerant PETâ€RAFT Polymerization for Screening Structureâ€"Activity Relationships. Angewandte Chemie - International Edition, 2018, 57, 1557-1562.	7.2	163
6	All Wrapped up: Stabilization of Enzymes within Single Enzyme Nanoparticles. Journal of the American Chemical Society, 2019, 141, 2754-2769.	6.6	157
7	Combinatorial Lowâ€Volume Synthesis of Wellâ€Defined Polymers by Enzyme Degassing. Angewandte Chemie - International Edition, 2016, 55, 4500-4503.	7.2	117
8	Multivalent Nanoparticle Networks Enable Point-of-Care Detection of Human Phospholipase-A2 in Serum. ACS Nano, 2015, 9, 2565-2573.	7.3	97
9	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. Acta Biomaterialia, 2018, 65, 102-111.	4.1	92
10	Pushing the Limits of High Throughput PET-RAFT Polymerization. Macromolecules, 2018, 51, 7600-7607.	2.2	90
11	Living in the Fast Laneâ€"High Throughput Controlled/Living Radical Polymerization. Macromolecules, 2019, 52, 3-23.	2.2	87
12	Modular design for the controlled production of polymeric nanotubes from polymer/peptide conjugates. Polymer Chemistry, 2011, 2, 1956.	1.9	81
13	Synthetic Strategies for the Design of Peptide/Polymer Conjugates. Polymer Reviews, 2011, 51, 214-234.	5.3	77
14	Synthesis and Immunological Evaluation of Selfâ€Assembling and Selfâ€Adjuvanting Tricomponent Glycopeptide Cancerâ€Vaccine Candidates. Chemistry - A European Journal, 2012, 18, 16540-16548.	1.7	63
15	Integrative Selfâ€Assembly of Graphene Quantum Dots and Biopolymers into a Versatile Biosensing Toolkit. Advanced Functional Materials, 2015, 25, 3183-3192.	7.8	62
16	A Selfâ€Reporting Photocatalyst for Online Fluorescence Monitoring of High Throughput RAFT Polymerization. Angewandte Chemie - International Edition, 2018, 57, 10102-10106.	7.2	59
17	Polymerization Amplified Detection for Nanoparticle-Based Biosensing. Nano Letters, 2014, 14, 6368-6373.	4.5	58
18	Combinatorial Lowâ€Volume Synthesis of Wellâ€Defined Polymers by Enzyme Degassing. Angewandte Chemie, 2016, 128, 4576-4579.	1.6	58

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19	Structure elucidation and control of cyclic peptide-derived nanotube assemblies in solution. Chemical Science, 2013, 4, 2581.	3.7	52
20	Synthesis of Self-assembling Cyclic Peptide-polymer Conjugates using Click Chemistry. Australian Journal of Chemistry, 2010, 63, 1169.	0.5	51
21	Waterâ€Soluble and pHâ€Responsive Polymeric Nanotubes from Cyclic Peptide Templates. Chemistry - A European Journal, 2013, 19, 1955-1961.	1.7	48
22	Drug Conjugation to Cyclic Peptideâ€“Polymer Selfâ€Assembling Nanotubes. Chemistry - A European Journal, 2014, 20, 12745-12749.	1.7	44
23	Multiâ€shell Soft Nanotubes from Cyclic Peptide Templates. Advanced Materials, 2013, 25, 1170-1172.	11.1	42
24	Thermoresponsive cyclic peptide â€" poly(2-ethyl-2-oxazoline) conjugate nanotubes. Chemical Communications, 2013, 49, 6522.	2.2	42
25	Automation of Controlled/Living Radical Polymerization. Advanced Intelligent Systems, 2020, 2, 1900126.	3.3	37
26	Pushing the limits of copper mediated azideâ€“alkyne cycloaddition (CuAAC) to conjugate polymeric chains to cyclic peptides. Polymer Chemistry, 2012, 3, 1820.	1.9	36
27	Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiberâ€Initiated Controlled Radical Polymerization. Advanced Functional Materials, 2015, 25, 5748-5757.	7.8	35
28	Swollen Micelles for the Preparation of Gated, Squeezable, pH-Responsive Drug Carriers. ACS Applied Materials & Interfaces, 2017, 9, 13865-13874.	4.0	35
29	Polymeric Nanocapsules for Enzyme Stabilization in Organic Solvents. Macromolecules, 2018, 51, 438-446.	2.2	35
30	Label-Free Multimodal Protease Detection Based on Protein/Perylene Dye Coassembly and Enzyme-Triggered Disassembly. Analytical Chemistry, 2014, 86, 6410-6417.	3.2	33
31	An Oxygenâ€Tolerant PETâ€RAFT Polymerization for Screening Structureâ€“Activity Relationships. Angewandte Chemie, 2018, 130, 1573-1578.	1.6	32
32	Enabling peristalsis of human colon tumor organoids on microfluidic chips. Biofabrication, 2022, 14, 015006.	3.7	27
33	A Dual Wavelength Polymerization and Bioconjugation Strategy for High Throughput Synthesis of Multivalent Ligands. Journal of the American Chemical Society, 2019, 141, 19823-19830.	6.6	25
34	Thioketoneâ€Mediated Polymerization with Dithiobenzoates: Proof for the Existence of Stable Radical Intermediates in RAFT Polymerization. Macromolecular Rapid Communications, 2012, 33, 984-990.	2.0	21
35	Point of care testing of phospholipase A2 group IIA for serological diagnosis of rheumatoid arthritis. Nanoscale, 2016, 8, 4482-4485.	2.8	21
36	Tuneable peptide cross-linked nanogels for enzyme-triggered protein delivery. Journal of Materials Chemistry B, 2020, 8, 8894-8907.	2.9	21

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37	Oxidation of graphene with variable defects: alternately symmetrical escape and self-restructuring of carbon rings. Nanoscale, 2020, 12, 10140-10148.	2.8	20
38	Controlled poly(olefin)s via decarboxylation of poly(acrylic acid). Polymer Chemistry, 2017, 8, 6636-6643.	1.9	19
39	Synthesis and self-assembly of temperature-responsive copolymers based on N-vinylpyrrolidone and triethylene glycol methacrylate. Polymer Chemistry, 2015, 6, 4116-4122.	1.9	17
40	Real time monitoring of peptide delivery<i>in vitro</i>using high payload pH responsive nanogels. Polymer Chemistry, 2020, 11, 425-432.	1.9	16
41	Polyion Complex Micelles for Protein Delivery Benefit from Flexible Hydrophobic Spacers in the Binding Group. Macromolecular Rapid Communications, 2020, 41, e2000208.	2.0	15
42	Polyion Complex-Templated Synthesis of Cross-Linked Single-Enzyme Nanoparticles. Macromolecules, 2020, 53, 5487-5496.	2.2	12
43	A Selfâ€Reporting Photocatalyst for Online Fluorescence Monitoring of High Throughput RAFT Polymerization. Angewandte Chemie, 2018, 130, 10259-10263.	1.6	11
44	Well-Defined Polymers for Nonchemistry Laboratories using Oxygen Tolerant Controlled Radical Polymerization. Journal of Chemical Education, 2020, 97, 549-556.	1.1	10
45	The Coreâ€“Shell Structure, Not Sugar, Drives the Thermal Stabilization of Single-Enzyme Nanoparticles. Biomacromolecules, 2021, 22, 4569-4581.	2.6	10
46	PET-RAFT Enables Efficient and Automated Multiblock Star Synthesis. Macromolecules, 2022, 55, 5938-5945.	2.2	10
47	Correlation between polymer architecture and polyion complex micelle stability with proteins in spheroid cancer models as seen by light-sheet microscopy. Polymer Chemistry, 2019, 10, 1221-1230.	1.9	9
48	Phospholipase A2 as a point of care alternative to serum amylase and pancreatic lipase. Nanoscale, 2016, 8, 11834-11839.	2.8	8
49	A High Throughput Approach for Designing Polymers That Mimic the TRAIL Protein. Nano Letters, 2022, , .	4.5	6
50	Polymer mediated transport of the Hsp90 inhibitor LB76, a polar cyclic peptide, produces an Hsp90 cellular phenotype. Chemical Communications, 2019, 55, 4515-4518.	2.2	5
51	Regulating the uptake of poly(N-(2-hydroxypropyl) methacrylamide)-based micelles in cells cultured on micropatterned surfaces. Biointerphases, 2021, 16, 041002.	0.6	2
52	Delivering hydrophilic peptide inhibitors of heat shock protein 70 into cancer cells. Bioorganic Chemistry, 2022, 122, 105713.	2.0	1
53	Controlled Polymerization: Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiberâ€Initiated Controlled Radical Polymerization (Adv. Funct. Mater. 36/2015). Advanced Functional Materials, 2015, 25, 5718-5718.	7.8	0
54	Peptideâ€“Polymer Conjugates: Synthetic Design Strategies. , 0, , 5892-5906.		0

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55	Peptideâ€“Polymer Conjugates: Synthetic Design Strategies. , 2017, , 1289-1303.		0