

# Justin M Chalker

## List of Publications by Citations

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77  
papers

4,730<sup>0</sup>  
citations

33  
h-index

68  
g-index

144  
ext. papers

5,558  
ext. citations

7.9  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
77	Chemical modification of proteins at cysteine: opportunities in chemistry and biology. <i>Chemistry - an Asian Journal</i> , <b>2009</b> , 4, 630-40	4.5	43 <sup>8</sup>
76	A "tag-and-modify" approach to site-selective protein modification. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 730-41	24.3	287
75	Facile conversion of cysteine and alkyl cysteines to dehydroalanine on protein surfaces: versatile and switchable access to functionalized proteins. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5052-3	16.4	280
74	Allyl sulfides are privileged substrates in aqueous cross-metathesis: application to site-selective protein modification. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9642-3	16.4	270
73	A convenient catalyst for aqueous and protein Suzuki-Miyaura cross-coupling. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16346-7	16.4	266
72	Methods for converting cysteine to dehydroalanine on peptides and proteins. <i>Chemical Science</i> , <b>2011</b> , 2, 1666	9.4	241
71	Green chemistry and polymers made from sulfur. <i>Green Chemistry</i> , <b>2017</b> , 19, 2748-2761	10	186
70	Posttranslational mutagenesis: A chemical strategy for exploring protein side-chain diversity. <i>Science</i> , <b>2016</b> , 354,	33.3	182
69	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 1714-8	16.4	158
68	The Mercury Problem in Artisanal and Small-Scale Gold Mining. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 6905-6916	4.8	154
67	Conversion of cysteine into dehydroalanine enables access to synthetic histones bearing diverse post-translational modifications. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1835-9	16.4	146
66	Olefin cross-metathesis on proteins: investigation of allylic chalcogen effects and guiding principles in metathesis partner selection. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16805-11	16.4	146
65	Chemo- and Regioselective Lysine Modification on Native Proteins. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4004-4017	16.4	145
64	Olefin metathesis for site-selective protein modification. <i>ChemBioChem</i> , <b>2009</b> , 10, 959-69	3.8	135
63	Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16219-16230	4.8	123
62	From disulfide- to thioether-linked glycoproteins. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2244-7	16.4	111
61	Chemical methods for mapping cysteine oxidation. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 231-268	58.5	107

60	Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1800024	5.9	77
59	Enabling olefin metathesis on proteins: chemical methods for installation of S-allyl cysteine. <i>Chemical Communications</i> , <b>2009</b> , 3714-6	5.8	71
58	Sulfur polymer composites as controlled-release fertilisers. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 1929-1936	3.9	65
57	A coordinated synthesis and conjugation strategy for the preparation of homogeneous glycoconjugate vaccine candidates. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4127-32	16.4	64
56	Site-selective chemoenzymatic construction of synthetic glycoproteins using endoglycosidases. <i>Chemical Science</i> , <b>2010</b> , 1, 709	9.4	59
55	Crosslinker Copolymerization for Property Control in Inverse Vulcanization. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10433-10440	4.8	51
54	Polysulfides made from re-purposed waste are sustainable materials for removing iron from water.. <i>RSC Advances</i> , <b>2018</b> , 8, 1232-1236	3.7	49
53	Rapid Vortex Fluidics: Continuous Flow Synthesis of Amides and Local Anesthetic Lidocaine. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 10660-5	4.8	48
52	Melamine and melamine-formaldehyde polymers as ligands for palladium and application to Suzuki-Miyaura cross-coupling reactions in sustainable solvents. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 2094-104	4.2	46
51	Synthesis and Applications of Polymers Made by Inverse Vulcanization. <i>Topics in Current Chemistry</i> , <b>2019</b> , 377, 16	7.2	42
50	Conversion of Cysteine into Dehydroalanine Enables Access to Synthetic Histones Bearing Diverse Post-Translational Modifications. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1871-1875	3.6	41
49	Chemical mutagenesis: selective post-expression interconversion of protein amino acid residues. <i>Current Opinion in Chemical Biology</i> , <b>2010</b> , 14, 781-9	9.7	41
48	Chemical approaches to mapping the function of post-translational modifications. <i>FEBS Journal</i> , <b>2008</b> , 275, 1949-59	5.7	39
47	Chemically induced repair, adhesion, and recycling of polymers made by inverse vulcanization. <i>Chemical Science</i> , <b>2020</b> , 11, 5537-5546	9.4	37
46	Mercury Sorbents Made By Inverse Vulcanization of Sustainable Triglycerides: The Plant Oil Structure Influences the Rate of Mercury Removal from Water. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 1900111	5.9	37
45	Allyl sulfones as precursors to allylzincs in the palladium-catalyzed zinc-ene cyclization: highly efficient synthesis of enantiopure (-)-erythrodiene. <i>Organic Letters</i> , <b>2005</b> , 7, 3637-40	6.2	35
44	Two syntheses of (-)-kainic acid via highly stereoselective zinc-ene cyclizations. <i>Organic Letters</i> , <b>2007</b> , 9, 3825-8	6.2	31
43	Reactive Compression Molding Post-Inverse Vulcanization: A Method to Assemble, Recycle, and Repurpose Sulfur Polymers and Composites. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 10035-10044	4.8	29

42	An Operationally Simple Aqueous Suzuki-Miyaura Cross-Coupling Reaction for an Undergraduate Organic Chemistry Laboratory. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 1509-1513	2.4	29
41	Polymer Supported Carbon for Safe and Effective Remediation of PFOA- and PFOS-Contaminated Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11044-11049	8.3	27
40	Norbornene Probes for the Detection of Cysteine Sulfenic Acid in Cells. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 594-598	4.9	25
39	Investigation of cotton functionalized with ZnO nanorods and its interaction with E. coli. <i>RSC Advances</i> , <b>2013</b> , 3, 10662	3.7	24
38	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 1746-1750	3.6	24
37	Prospects in the total synthesis of protein therapeutics. <i>Chemical Biology and Drug Design</i> , <b>2013</b> , 81, 1223-35	2.2	22
36	Synthesis of (-)-kainic acid via TMSCl-promoted Pd-catalyzed zinc-ene cyclization of an allyl acetate. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 7912-7	4.2	22
35	Organic oxidations promoted in vortex driven thin films under continuous flow. <i>Green Chemistry</i> , <b>2018</b> , 20, 118-124	10	22
34	Chemical site-selective prenylation of proteins. <i>Molecular BioSystems</i> , <b>2008</b> , 4, 558-61		21
33	Precise Probing of Residue Roles by Post-Translational C,N Aza-Michael Mutagenesis in Enzyme Active Sites. <i>ACS Central Science</i> , <b>2017</b> , 3, 1168-1173	16.8	20
32	Norbornene probes for the study of cysteine oxidation. <i>Tetrahedron</i> , <b>2018</b> , 74, 1220-1228	2.4	20
31	High density growth of ZnO nanorods on cotton fabric enables access to a flame resistant composite. <i>RSC Advances</i> , <b>2014</b> , 4, 14582	3.7	18
30	Facile preparation of ammonium alginate-derived nanofibers carrying diverse therapeutic cargo. <i>Chemical Communications</i> , <b>2014</b> , 50, 156-8	5.8	17
29	Analysis of the dispersity in carbohydrate loading of synthetic glycoproteins using MALDI-TOF mass spectrometry. <i>Chemical Communications</i> , <b>2010</b> , 46, 9119-21	5.8	17
28	Metal-Mediated Bioconjugation <b>2017</b> , 231-270		14
27	Chemoselective and Continuous Flow Hydrogenations in Thin Films Using a Palladium Nanoparticle Catalyst Embedded in Cellulose Paper.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 488-494	4.1	13
26	Halide inhibition of the copper-catalysed azide-alkyne cycloaddition. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 1974-8	3.9	12
25	Allyl Sulfides: Reactive Substrates for Olefin Metathesis. <i>Australian Journal of Chemistry</i> , <b>2015</b> , 68, 1801	1.2	11

24	A Coordinated Synthesis and Conjugation Strategy for the Preparation of Homogeneous Glycoconjugate Vaccine Candidates. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4213-4218	3.6	11
23	Sub-micron moulding topological mass transport regimes in angled vortex fluidic flow. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3064-3075	5.1	11
22	Allyl sulphides in olefin metathesis: catalyst considerations and traceless promotion of ring-closing metathesis. <i>Chemical Communications</i> , <b>2015</b> , 51, 515-8	5.8	10
21	Chemical Protein Modification <b>2010</b> , 59-91		10
20	Polymers Made by Inverse Vulcanization for Use as Mercury Sorbents. <i>Organic Materials</i> , <b>2021</b> , 03, 362-373	3.5	10
19	A critical evaluation of probes for cysteine sulfenic acid. <i>Current Opinion in Chemical Biology</i> , <b>2021</b> , 60, 55-65	9.7	9
18	Safe and Scalable Preparation of Barluenga's Reagent <b>2010</b> , 288-298		9
17	Proteome-Wide Survey of Cysteine Oxidation by Using a Norbornene Probe. <i>ChemBioChem</i> , <b>2020</b> , 21, 1329-1334	3.8	8
16	Insulating Composites Made from Sulfur, Canola Oil, and Wool*. <i>ChemSusChem</i> , <b>2021</b> , 14, 2352-2359	8.3	6
15	Stretchable and Durable Inverse Vulcanized Polymers with Chemical and Thermal Recycling. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 1167-1178	9.6	5
14	Confining a spent lead sorbent in a polymer made by inverse vulcanization prevents leaching. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 26, e00222	5.3	5
13	Reaction of [ <sup>18</sup> F]Fluoride at Heteroatoms and Metals for Imaging of Peptides and Proteins by Positron Emission Tomography. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 687678	5	5
12	Azide-alkyne cycloadditions in a vortex fluidic device: enhanced "on water" effects and catalysis in flow. <i>Chemical Communications</i> , <b>2021</b> , 57, 659-662	5.8	4
11	Synthesis and Applications of Polymers Made by Inverse Vulcanization. <i>Topics in Current Chemistry Collections</i> , <b>2019</b> , 125-151	1.8	3
10	Frontispiece: The Mercury Problem in Artisanal and Small-Scale Gold Mining. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24,	4.8	2
9	Processes for coating surfaces with a copolymer made from sulfur and dicyclopentadiene. <i>Polymer Chemistry</i> ,	4.9	2
8	Carbonisation of a polymer made from sulfur and canola oil. <i>Chemical Communications</i> , <b>2021</b> , 57, 6296-6309	3.9	2
7	Vortex fluidic induced mass transfer across immiscible phases.. <i>Chemical Science</i> , <b>2022</b> , 13, 3375-3385	9.4	1

6	Chemically Activated S <sub>2</sub> S Metathesis for Adhesive-Free Bonding of Polysulfide Surfaces. <i>Macromolecular Chemistry and Physics</i> , 2100333	2.6	1
5	A silicon-labelled amino acid suitable for late-stage fluorination and unexpected oxidative cleavage reactions in the preparation of a key intermediate in the Strecker synthesis. <i>Peptide Science</i> , 2018, 110, e24069	3	1
4	Trace Amine-Associated Receptor 1 (TAAR1): Molecular and Clinical Insights for the Treatment of Schizophrenia and Related Comorbidities.. <i>ACS Pharmacology and Translational Science</i> , 2022, 5, 183-188 <sup>5.9</sup>	5.9	1
3	Inverse Vulcanisation of canola oil as a route to recyclable chopped carbon fibre composites. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00400	5.3	0
2	Vortex Fluidic Ethenolysis, Integrating a Rapid Quench of Ruthenium Olefin Metathesis Catalysts. <i>Australian Journal of Chemistry</i> , 2020, 73, 1138	1.2	0
1	A fairer way to compare researchers at any career stage and in any discipline using open-access citation data. <i>PLoS ONE</i> , 2021, 16, e0257141	3.7	0