

Justin M Chalker

List of Publications by Year in Descending Order

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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.

77
papers

4,730⁰
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 | Stretchable and Durable Inverse Vulcanized Polymers with Chemical and Thermal Recycling. <i>Chemistry of Materials</i> , 2022 , 34, 1167-1178 | 9.6 | 5 |
| 76 | Vortex fluidic induced mass transfer across immiscible phases.. <i>Chemical Science</i> , 2022 , 13, 3375-3385 | 9.4 | 1 |
| 75 | 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 |
| 74 | 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 ^{5.9} | 5.9 | 1 |
| 73 | Insulating Composites Made from Sulfur, Canola Oil, and Wool*. <i>ChemSusChem</i> , 2021 , 14, 2352-2359 | 8.3 | 6 |
| 72 | Polymers Made by Inverse Vulcanization for Use as Mercury Sorbents. <i>Organic Materials</i> , 2021 , 03, 362-373 | 3.3 | 10 |
| 71 | Reaction of [F]Fluoride at Heteroatoms and Metals for Imaging of Peptides and Proteins by Positron Emission Tomography. <i>Frontiers in Chemistry</i> , 2021 , 9, 687678 | 5 | 5 |
| 70 | A critical evaluation of probes for cysteine sulfenic acid. <i>Current Opinion in Chemical Biology</i> , 2021 , 60, 55-65 | 9.7 | 9 |
| 69 | Azide-alkyne cycloadditions in a vortex fluidic device: enhanced "on water" effects and catalysis in flow. <i>Chemical Communications</i> , 2021 , 57, 659-662 | 5.8 | 4 |
| 68 | Sub-micron moulding topological mass transport regimes in angled vortex fluidic flow. <i>Nanoscale Advances</i> , 2021 , 3, 3064-3075 | 5.1 | 11 |
| 67 | Carbonisation of a polymer made from sulfur and canola oil. <i>Chemical Communications</i> , 2021 , 57, 6296-6309 | 6.3 | 2 |
| 66 | 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 |
| 65 | Reactive Compression Molding Post-Inverse Vulcanization: A Method to Assemble, Recycle, and Repurpose Sulfur Polymers and Composites. <i>Chemistry - A European Journal</i> , 2020 , 26, 10035-10044 | 4.8 | 29 |
| 64 | Chemically induced repair, adhesion, and recycling of polymers made by inverse vulcanization. <i>Chemical Science</i> , 2020 , 11, 5537-5546 | 9.4 | 37 |
| 63 | 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> , 2020 , 4, 1900111 | 5.9 | 37 |
| 62 | Vortex Fluidic Ethenolysis, Integrating a Rapid Quench of Ruthenium Olefin Metathesis Catalysts. <i>Australian Journal of Chemistry</i> , 2020 , 73, 1138 | 1.2 | 0 |
| 61 | Proteome-Wide Survey of Cysteine Oxidation by Using a Norbornene Probe. <i>ChemBioChem</i> , 2020 , 21, 1329-1334 | 3.8 | 8 |

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| 60 | Confining a spent lead sorbent in a polymer made by inverse vulcanization prevents leaching. <i>Sustainable Materials and Technologies</i> , 2020 , 26, e00222 | 5.3 | 5 |
| 59 | Sulfur polymer composites as controlled-release fertilisers. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 1929-1936 | 3.9 | 65 |
| 58 | Crosslinker Copolymerization for Property Control in Inverse Vulcanization. <i>Chemistry - A European Journal</i> , 2019 , 25, 10433-10440 | 4.8 | 51 |
| 57 | Polymer Supported Carbon for Safe and Effective Remediation of PFOA- and PFOS-Contaminated Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11044-11049 | 8.3 | 27 |
| 56 | Synthesis and Applications of Polymers Made by Inverse Vulcanization. <i>Topics in Current Chemistry</i> , 2019 , 377, 16 | 7.2 | 42 |
| 55 | Norbornene Probes for the Detection of Cysteine Sulfenic Acid in Cells. <i>ACS Chemical Biology</i> , 2019 , 14, 594-598 | 4.9 | 25 |
| 54 | Synthesis and Applications of Polymers Made by Inverse Vulcanization. <i>Topics in Current Chemistry Collections</i> , 2019 , 125-151 | 1.8 | 3 |
| 53 | Chemoselective and Continuous Flow Hydrogenations in Thin Films Using a Palladium Nanoparticle Catalyst Embedded in Cellulose Paper.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 488-494 | 4.1 | 13 |
| 52 | Chemo- and Regioselective Lysine Modification on Native Proteins. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4004-4017 | 16.4 | 145 |
| 51 | Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1800024 | 5.9 | 77 |
| 50 | The Mercury Problem in Artisanal and Small-Scale Gold Mining. <i>Chemistry - A European Journal</i> , 2018 , 24, 6905-6916 | 4.8 | 154 |
| 49 | Polysulfides made from re-purposed waste are sustainable materials for removing iron from water.. <i>RSC Advances</i> , 2018 , 8, 1232-1236 | 3.7 | 49 |
| 48 | Frontispiece: The Mercury Problem in Artisanal and Small-Scale Gold Mining. <i>Chemistry - A European Journal</i> , 2018 , 24, | 4.8 | 2 |
| 47 | Chemical methods for mapping cysteine oxidation. <i>Chemical Society Reviews</i> , 2018 , 47, 231-268 | 58.5 | 107 |
| 46 | Organic oxidations promoted in vortex driven thin films under continuous flow. <i>Green Chemistry</i> , 2018 , 20, 118-124 | 10 | 22 |
| 45 | Norbornene probes for the study of cysteine oxidation. <i>Tetrahedron</i> , 2018 , 74, 1220-1228 | 2.4 | 20 |
| 44 | 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 |
| 43 | Green chemistry and polymers made from sulfur. <i>Green Chemistry</i> , 2017 , 19, 2748-2761 | 10 | 186 |

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| 42 | Metal-Mediated Bioconjugation 2017 , 231-270 | | 14 |
| 41 | Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. <i>Chemistry - A European Journal</i> , 2017 , 23, 16219-16230 | 4.8 | 123 |
| 40 | Precise Probing of Residue Roles by Post-Translational α , β , γ , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω Aza-Michael Mutagenesis in Enzyme Active Sites. <i>ACS Central Science</i> , 2017 , 3, 1168-1173 | 16.8 | 20 |
| 39 | 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> , 2016 , 55, 1714-8 | 16.4 | 158 |
| 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> , 2016 , 128, 1746-1750 | 3.6 | 24 |
| 37 | Posttranslational mutagenesis: A chemical strategy for exploring protein side-chain diversity. <i>Science</i> , 2016 , 354, | 33.3 | 182 |
| 36 | Allyl sulphides in olefin metathesis: catalyst considerations and traceless promotion of ring-closing metathesis. <i>Chemical Communications</i> , 2015 , 51, 515-8 | 5.8 | 10 |
| 35 | Rapid Vortex Fluidics: Continuous Flow Synthesis of Amides and Local Anesthetic Lidocaine. <i>Chemistry - A European Journal</i> , 2015 , 21, 10660-5 | 4.8 | 48 |
| 34 | Allyl Sulfides: Reactive Substrates for Olefin Metathesis. <i>Australian Journal of Chemistry</i> , 2015 , 68, 1801 | 1.2 | 11 |
| 33 | Halide inhibition of the copper-catalysed azide-alkyne cycloaddition. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 1974-8 | 3.9 | 12 |
| 32 | High density growth of ZnO nanorods on cotton fabric enables access to a flame resistant composite. <i>RSC Advances</i> , 2014 , 4, 14582 | 3.7 | 18 |
| 31 | Facile preparation of ammonium alginate-derived nanofibers carrying diverse therapeutic cargo. <i>Chemical Communications</i> , 2014 , 50, 156-8 | 5.8 | 17 |
| 30 | 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> , 2014 , 79, 2094-104 | 4.2 | 46 |
| 29 | An Operationally Simple Aqueous Suzuki-Miyaura Cross-Coupling Reaction for an Undergraduate Organic Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2013 , 90, 1509-1513 | 2.4 | 29 |
| 28 | Prospects in the total synthesis of protein therapeutics. <i>Chemical Biology and Drug Design</i> , 2013 , 81, 1222-25 | 2.2 | 22 |
| 27 | Investigation of cotton functionalized with ZnO nanorods and its interaction with E. coli. <i>RSC Advances</i> , 2013 , 3, 10662 | 3.7 | 24 |
| 26 | Conversion of cysteine into dehydroalanine enables access to synthetic histones bearing diverse post-translational modifications. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1835-9 | 16.4 | 146 |
| 25 | Conversion of Cysteine into Dehydroalanine Enables Access to Synthetic Histones Bearing Diverse Post-Translational Modifications. <i>Angewandte Chemie</i> , 2012 , 124, 1871-1875 | 3.6 | 41 |

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| 24 | Methods for converting cysteine to dehydroalanine on peptides and proteins. <i>Chemical Science</i> , 2011 , 2, 1666 | 9.4 | 241 |
| 23 | A "tag-and-modify" approach to site-selective protein modification. <i>Accounts of Chemical Research</i> , 2011 , 44, 730-41 | 24.3 | 287 |
| 22 | A Coordinated Synthesis and Conjugation Strategy for the Preparation of Homogeneous Glycoconjugate Vaccine Candidates. <i>Angewandte Chemie</i> , 2011 , 123, 4213-4218 | 3.6 | 11 |
| 21 | A coordinated synthesis and conjugation strategy for the preparation of homogeneous glycoconjugate vaccine candidates. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4127-32 | 16.4 | 64 |
| 20 | Synthesis of (-)- β -kainic acid via TMSCl-promoted Pd-catalyzed zinc-ene cyclization of an allyl acetate. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7912-7 | 4.2 | 22 |
| 19 | 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> , 2010 , 132, 16805-11 | 16.4 | 146 |
| 18 | Analysis of the dispersity in carbohydrate loading of synthetic glycoproteins using MALDI-TOF mass spectrometry. <i>Chemical Communications</i> , 2010 , 46, 9119-21 | 5.8 | 17 |
| 17 | Site-selective chemoenzymatic construction of synthetic glycoproteins using endoglycosidases. <i>Chemical Science</i> , 2010 , 1, 709 | 9.4 | 59 |
| 16 | Chemical Protein Modification 2010 , 59-91 | | 10 |
| 15 | Chemical mutagenesis: selective post-expression interconversion of protein amino acid residues. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 781-9 | 9.7 | 41 |
| 14 | Safe and Scalable Preparation of Barluenga's Reagent 2010 , 288-298 | | 9 |
| 13 | Olefin metathesis for site-selective protein modification. <i>ChemBioChem</i> , 2009 , 10, 959-69 | 3.8 | 135 |
| 12 | Chemical modification of proteins at cysteine: opportunities in chemistry and biology. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 630-40 | 4.5 | 438 |
| 11 | A convenient catalyst for aqueous and protein Suzuki-Miyaura cross-coupling. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16346-7 | 16.4 | 266 |
| 10 | Enabling olefin metathesis on proteins: chemical methods for installation of S-allyl cysteine. <i>Chemical Communications</i> , 2009 , 3714-6 | 5.8 | 71 |
| 9 | 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> , 2008 , 130, 5052-3 | 16.4 | 280 |
| 8 | Chemical site-selective prenylation of proteins. <i>Molecular BioSystems</i> , 2008 , 4, 558-61 | | 21 |
| 7 | From disulfide- to thioether-linked glycoproteins. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2244-7 | 16.4 | 111 |

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| 6 | Allyl sulfides are privileged substrates in aqueous cross-metathesis: application to site-selective protein modification. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9642-3 | 16.4 | 270 |
| 5 | Chemical approaches to mapping the function of post-translational modifications. <i>FEBS Journal</i> , 2008 , 275, 1949-59 | 5.7 | 39 |
| 4 | Two syntheses of (-)-kainic acid via highly stereoselective zinc-ene cyclizations. <i>Organic Letters</i> , 2007 , 9, 3825-8 | 6.2 | 31 |
| 3 | Allyl sulfones as precursors to allylzincs in the palladium-catalyzed zinc-ene cyclization: highly efficient synthesis of enantiopure (-)-erythrodiene. <i>Organic Letters</i> , 2005 , 7, 3637-40 | 6.2 | 35 |
| 2 | Processes for coating surfaces with a copolymer made from sulfur and dicyclopentadiene. <i>Polymer Chemistry</i> , | 4.9 | 2 |
| 1 | Chemically Activated S ₂ S Metathesis for Adhesive-Free Bonding of Polysulfide Surfaces. <i>Macromolecular Chemistry and Physics</i> , 2100333 | 2.6 | 1 |