

# Mark D Greenhalgh

## List of Publications by Year in descending order

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39  
papers

1,849  
citations

304743

22  
h-index

302126

39  
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51  
all docs

51  
docs citations

51  
times ranked

1683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-Catalysed Hydrofunctionalisation of Alkenes and Alkynes. <i>ChemCatChem</i> , 2015, 7, 190-222.	3.7	302
2	Iron-Catalyzed, Highly Regioselective Synthesis of $\beta$ -Aryl Carboxylic Acids from Styrene Derivatives and $\text{CO}_2$ . <i>Journal of the American Chemical Society</i> , 2012, 134, 11900-11903.	13.7	253
3	Chemo-, regio-, and stereoselective iron-catalysed hydroboration of alkenes and alkynes. <i>Chemical Communications</i> , 2013, 49, 11230.	4.1	174
4	Iron-Catalysed Chemo-, Regio-, and Stereoselective Hydrosilylation of Alkenes and Alkynes using a Bench-Stable Iron(II) Pre-Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 584-590.	4.3	158
5	Non-bonding 1,5-S $\pi$ -O interactions govern chemo- and enantioselectivity in isothiourea-catalyzed annulations of benzazoles. <i>Chemical Science</i> , 2016, 7, 6919-6927.	7.4	125
6	A C=O... $\pi$ ...Isothiuronium Interaction Dictates Enantiodiscrimination in Acylative Kinetic Resolutions of Tertiary Heterocyclic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3200-3206.	13.8	102
7	Best practice considerations for using the selectivity factor, <i>s</i> , as a metric for the efficiency of kinetic resolutions. <i>Tetrahedron</i> , 2018, 74, 5554-5560.	1.9	55
8	Aryloxy-Facilitated Catalyst Turnover in Enantioselective $\beta$ , $\beta'$ -Unsaturated Acyl Ammonium Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12282-12287.	13.8	48
9	A C=O... $\pi$ ...Isothiuronium Interaction Dictates Enantiodiscrimination in Acylative Kinetic Resolutions of Tertiary Heterocyclic Alcohols. <i>Angewandte Chemie</i> , 2018, 130, 3254-3260.	2.0	43
10	Catalytic enantioselective synthesis of perfluoroalkyl-substituted $\beta$ -lactones <i>via</i> a concerted asynchronous [2 + 2] cycloaddition: a synthetic and computational study. <i>Chemical Science</i> , 2019, 10, 6162-6173.	7.4	40
11	Broad Scope Hydrofunctionalization of Styrene Derivatives Using Iron-Catalyzed Hydromagnesiation. <i>Organic Letters</i> , 2014, 16, 5964-5967.	4.6	38
12	Acylative Kinetic Resolution of Alcohols Using a Recyclable Polymer-Supported Isothiourea Catalyst in Batch and Flow. <i>ACS Catalysis</i> , 2018, 8, 1067-1075.	11.2	38
13	Iron-Catalyzed Hydromagnesiation: Synthesis and Characterization of Benzylic Grignard Reagent Intermediate and Application in the Synthesis of Ibuprofen. <i>Organometallics</i> , 2014, 33, 5811-5819.	2.3	37
14	Isothiourea-Catalyzed Acylative Kinetic Resolution of Tertiary $\beta$ -Hydroxy Esters. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16572-16578.	13.8	37
15	Multiple roles of aryloxy leaving groups in enantioselective annulations employing $\beta$ , $\beta'$ -unsaturated acyl ammonium catalysis. <i>Chemical Science</i> , 2018, 9, 4909-4918.	7.4	34
16	Isothiourea-Catalysed Regioselective Acylative Kinetic Resolution of Axially Chiral Biaryl Diols. <i>Chemistry - A European Journal</i> , 2019, 25, 2816-2823.	3.3	33
17	Iron-catalysed, hydride-mediated reductive cross-coupling of vinyl halides and Grignard reagents. <i>Chemical Communications</i> , 2012, 48, 1580-1582.	4.1	32
18	Mechanism of the Bis(imino)pyridine-Iron-Catalyzed Hydromagnesiation of Styrene Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 10099-10108.	13.7	30

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19	Iron-Catalyzed Hydromagnesiation of Olefins. <i>Synlett</i> , 2013, 24, 531-534.	1.8	27
20	Evaluating polymer-supported isothiourea catalysis in industrially-preferable solvents for the acylative kinetic resolution of secondary and tertiary heterocyclic alcohols in batch and flow. <i>Green Chemistry</i> , 2018, 20, 4537-4546.	9.0	26
21	Enantioselective synthesis of 2,3-disubstituted trans-2,3-dihydrobenzofurans using a Brønsted base/thiourea bifunctional catalyst. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7268-7274.	2.8	25
22	Tandem sequential catalytic enantioselective synthesis of highly-functionalised tetrahydroindolizine derivatives. <i>Chemical Science</i> , 2020, 11, 3885-3892.	7.4	24
23	Unanticipated Silyl Transfer in Enantioselective $\hat{I}^{\pm}, \hat{I}^2$ -Unsaturated Acyl Ammonium Catalysis Using Silyl Nitronates. <i>Organic Letters</i> , 2020, 22, 335-339.	4.6	22
24	Subtle temperature-induced changes in small molecule conformer dynamics $\hat{\epsilon}^{\epsilon}$ observed and quantified by NOE spectroscopy. <i>Chemical Communications</i> , 2016, 52, 2920-2923.	4.1	18
25	Aryloxide $\hat{\epsilon}$ -Facilitated Catalyst Turnover in Enantioselective $\hat{I}^{\pm}, \hat{I}^2$ -Unsaturated Acyl Ammonium Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 12450-12455.	2.0	15
26	Isothiourea-Catalysed Sequential Kinetic Resolution of Acyclic ( $\hat{A}^{\pm}$ )-1,2-Diols. <i>Synlett</i> , 2019, 30, 1555-1560.	1.8	15
27	TMEDA in Iron $\hat{\epsilon}$ -Catalyzed Hydromagnesiation: Formation of Iron(II) $\hat{\epsilon}$ -Alkyl Species for Controlled Reduction to Alkene $\hat{\epsilon}$ -Stabilized Iron(0). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17070-17076.	13.8	14
28	Iron $\hat{\epsilon}$ -Catalysed Reductive Cross $\hat{\epsilon}$ -Coupling of Alkenes. <i>ChemCatChem</i> , 2014, 6, 1520-1522.	3.7	13
29	Enantioselective N-heterocyclic carbene catalyzed formal [3+2] cycloaddition using $\hat{I}^{\pm}$ -aryloxyaldehydes and oxaziridines. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 125-134.	1.8	13
30	Chiral Au <sup>I</sup> $\hat{\epsilon}$ and Au <sup>III</sup> $\hat{\epsilon}$ -Isothiourea Complexes: Synthesis, Characterization and Application. <i>Chemistry - A European Journal</i> , 2019, 25, 1064-1075.	3.3	11
31	Isothiourea $\hat{\epsilon}$ -Catalyzed Acylative Kinetic Resolution of Tertiary $\hat{I}^{\pm}$ -Hydroxy Esters. <i>Angewandte Chemie</i> , 2020, 132, 16715.	2.0	9
32	Horeau amplification in the sequential acylative kinetic resolution of ( $\hat{A}^{\pm}$ )-1,2-diols and ( $\hat{A}^{\pm}$ )-1,3-diols in flow. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3620-3627.	2.8	9
33	Synthesis of Fused Indoline $\hat{\epsilon}$ -Cyclobutanone Derivatives via an Intramolecular [2+2] Cycloaddition. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5169-5174.	2.4	5
34	TMEDA in Iron $\hat{\epsilon}$ -Catalyzed Hydromagnesiation: Formation of Iron(II) $\hat{\epsilon}$ -Alkyl Species for Controlled Reduction to Alkene $\hat{\epsilon}$ -Stabilized Iron(0). <i>Angewandte Chemie</i> , 2020, 132, 17218-17224.	2.0	4
35	Isothiourea-Catalyzed Enantioselective $\hat{I}^{\pm}$ -Alkylation of Esters via 1,6-Conjugate Addition to para-Quinone Methides. <i>Molecules</i> , 2021, 26, 6333.	3.8	4
36	Scope, Limitations and Mechanistic Analysis of the HyperBTM $\hat{\epsilon}$ -Catalyzed Acylative Kinetic Resolution of Tertiary Heterocyclic Alcohols $\hat{\epsilon}$ . <i>European Journal of Organic Chemistry</i> , 2022, 2022, e202101111.	2.4	4

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37	Isothiourea-Catalyzed Synthesis of Pyrrole- and Indole-Functionalized Tetrasubstituted Pyridines. <i>ChemCatChem</i> , 2020, 12, 4522-4525.	3.7	3
38	NHC-catalyzed enantioselective synthesis of $\beta$ -trifluoromethyl- $\beta$ -hydroxyamides. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1572-1578.	2.2	3
39	Iron-Catalysed Hydromagnesiation of Styrene Derivatives. <i>Springer Theses</i> , 2016, , 115-174.	0.1	0