

# Michael G Hutchings

## List of Publications by Year in descending order

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62  
papers

1,654  
citations

331670

21  
h-index

315739

38  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1642  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Rotaxane-Encapsulation Enhances the Stability of an Azo Dye, in Solution and when Bonded to Cellulose. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1071-1074.  | 13.8 | 130       |
| 2  | Route Design in the 21st Century: The IC <sub>SYNTH</sub> Software Tool as an Idea Generator for Synthesis Prediction. <i>Organic Process Research and Development</i> , 2015, 19, 357-368.   | 2.7  | 106       |
| 3  | Effect of alkali on methylene blue (C.I. Basic Blue 9) and other thiazine dyes. <i>Dyes and Pigments</i> , 2011, 88, 149-155.   | 3.7  | 97        |
| 4  | Residual electronegativity - an empirical quantification of polar influences and its application to the proton affinity of amines. <i>Tetrahedron Letters</i> , 1983, 24, 2541-2544.  | 1.4  | 83        |
| 5  | Quantitative models of gas-phase proton-transfer reactions involving alcohols, ethers, and their thio analogs. Correlation analyses based on residual electronegativity and effective polarizability. <i>Journal of the American Chemical Society</i> , 1984, 106, 6489-6495. | 13.7 | 75        |
| 6  | Enzymatic Synthesis and Photoswitchable Enzymatic Cleavage of a Peptide-Linked Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1596-1599.  | 13.8 | 67        |
| 7  | A Remarkably Simple and Efficient Benzannulation Reaction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1869-1872.  | 13.8 | 64        |
| 8  | The chemistry of organoborates. Part I. New, high yield ketone syntheses by reaction of trialkylcyanoborates with acylating agents or N-phenylbenzimidoyl chloride. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1975, , 129.                               | 0.9  | 62        |
| 9  | Quantification of effective polarisability. Applications to studies of X-ray photoelectron spectroscopy and alkylamine protonation. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1984, , 559.  | 0.9  | 52        |
| 10 | Synthesis of a cyclodextrin azo dye [3]rotaxane as a single isomer. <i>Chemical Communications</i> , 1999, , 1537-1538.   | 4.1  | 52        |
| 11 | New reactivity patterns of copper(I) and other transition metal NHC complexes: application to ATRC and related reactions. <i>Tetrahedron Letters</i> , 2008, 49, 1352-1356.   | 1.4  | 45        |
| 12 | Mono- and Bimetallic Bipyridyl Polyene Complexes Containing 17-Electron Molybdenum Mononitrosyl Centers: Electrochemical, Spectroscopic, and Magnetic Studies. <i>Inorganic Chemistry</i> , 1996, 35, 760-774.  | 4.0  | 43        |
| 13 | Nickel(II) and Palladium(II) Complexes of Azobenzene-Containing Ligands as Dichroic Dyes. <i>Inorganic Chemistry</i> , 2010, 49, 9136-9150.   | 4.0  | 40        |
| 14 | The chemistry of organoborates. Part II. High yield syntheses of trialkylmethanols by the cyanoborate process. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1975, , 138.  | 0.9  | 37        |
| 15 | Quantitative structure-sublimation enthalpy relationship studied by neural networks, theoretical crystal packing calculations and multilinear regression analysis. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 2023-2030.                         | 0.9  | 35        |
| 16 | New empirical models of substituent polarisability and their application to stabilisation effects in positively charged species. <i>Tetrahedron Letters</i> , 1983, 24, 2537-2540.  | 1.4  | 34        |
| 17 | Quadratic non-linear optical properties of some donor-acceptor substituted thiophenes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 171-176.   | 0.9  | 30        |
| 18 | Non-linear optical activity of azo dyes. Conformational effects on the quadratic hyperpolarisability of an azothiophene dye. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 1139-1142.   | 0.9  | 27        |

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|----|--|-----|-----------|
| 19 | The Comparative Solvatochromism of Arylazo and Heteroarylazo Compounds Based On <i>N,N</i> -Diethyl- <i>N</i> -acetylaminoaniline and <i>N,N</i> -Diethyl- <i>N</i> - $\epsilon$ -toluidine. <i>Chemistry - A European Journal</i> , 1997, 3, 1719-1727. | 3.3 | 27        |
| 20 | Formation of water-soluble sulfonated azacalix[4]arenes from cyanuric chloride. <i>Tetrahedron Letters</i> , 2009, 50, 3923-3925.  | 1.4 | 23        |
| 21 | Highly selective zeolite-catalysed mono- <i>N</i> -alkylation of arylenediamines by dialkyl carbonates. <i>Tetrahedron Letters</i> , 2007, 48, 1641-1643.  | 1.4 | 22        |
| 22 | Correlation analyses of the aqueous-phase acidities of alcohols and gem-diols, and of carbonyl hydration equilibria using electronic and structural parameters. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986, , 455.             | 0.9 | 19        |
| 23 | Regiospecific Synthesis of 1-Substituted 1,2,4-Triazoles Involving Isomerization of the Corresponding 4-Substituted Compounds. <i>Chemistry Letters</i> , 1990, 19, 347-350.   | 1.3 | 19        |
| 24 | Acid enhancement effect in the clean oxidation of toluenes photocatalysed by TiO <sub>2</sub> . <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1119.   | 2.0 | 19        |
| 25 | Structural characterisation of the photoisomers of reactive sulfonated azo dyes by NMR spectroscopy and DFT calculations. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 1010.   | 2.9 | 19        |
| 26 | Solvatochromism of Mono- and Dimolybdenum Coordination Compounds of Dipirydyloctatetraene and Linear Solvation Energy Relationship Models Based on the Kamlet-Taft and Drago Scales of Solvent Polarity. <i>Inorganic Chemistry</i> , 1996, 35, 289-296. | 4.0 | 18        |
| 27 | Chemistry of organoborates. Part IV. Stereochemistry and relative migratory aptitudes of alkyl groups in the cyanoborate process. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1975, , 145.  | 0.9 | 15        |
| 28 | Resonance-Enhanced Optical Nonlinearities in Azothiophenes. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5802-5808.   | 2.5 | 15        |
| 29 | Direct synthesis of sulfonated azacalixarenes in water. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4871.   | 2.8 | 15        |
| 30 | NMR analysis of Nile Blue (C. I. Basic Blue 12) and Thionine (C. I. 52000) in solution. <i>Dyes and Pigments</i> , 2011, 88, 315-325.  | 3.7 | 15        |
| 31 | Syntheses of 2-aryl-3-cinnolinones by cyclisation of diarylazo compounds. <i>Tetrahedron Letters</i> , 1989, 30, 3715-3718.  | 1.4 | 14        |
| 32 | An EPR, magnetic and electrochemical study of electron exchange and intermetallic interaction through polyene bridges. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1796.  | 2.0 | 14        |
| 33 | The regio- and stereochemistry of the alkoxide-induced ring-opening of methoxymethylidene-substituted homophthalic anhydride. <i>Tetrahedron</i> , 1988, 44, 3727-3734.  | 1.9 | 13        |
| 34 | The Structure of <i>m</i> -Xylylenediguandinium Sulfate: A Putative Molecular Tweezer Ligand for Anion Chelation. <i>Crystal Growth and Design</i> , 2001, 1, 339-342.   | 3.0 | 13        |
| 35 | Benzodifurantrione: A Stable Phenylgous Enol. <i>Journal of Organic Chemistry</i> , 2010, 75, 690-701.   | 3.2 | 13        |
| 36 | Molecular wires: An electrochemical study of metal-metal interactions through chains of four carbon atoms. <i>Polyhedron</i> , 1996, 15, 1409-1414.  | 2.2 | 12        |

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|----|---|-----|-----------|
| 37 | Stereospecific synthesis of allyl amides by the cyanoborate process. <i>Journal of the Chemical Society Chemical Communications</i> , 1974, , 346.  | 2.0 | 10        |
| 38 | The chemistry of organoborates. Part III. Protonation of trialkylcyanoborates. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1975, , 142.  | 0.9 | 10        |
| 39 | A quantitative description of fundamental polar reaction types. Proton- and hydride-transfer reactions connecting alcohols and carbonyl compounds in the gas phase. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986, , 447.  | 0.9 | 10        |
| 40 | Software review: PISYSTEM for Windows version 3.1. A program for the calculation of excited state properties including colour of $\pi$ electron-based molecules. <i>Dyes and Pigments</i> , 1995, 29, 95-101.   | 3.7 | 10        |
| 41 | The effect of preorganisation on the solid state behaviour of simple $\pi$ -aromatic-cored <sup>TM</sup> bis(guanidinium) sulfates<br>Electronic supplementary information (ESI) available: full details of crystallographic data collection for compounds 2 $\cdot$ H <sub>2</sub> SO <sub>4</sub> and 3 $\cdot$ H <sub>2</sub> SO <sub>4</sub> $\cdot$ 2H <sub>2</sub> O. See <a href="http://www.rsc.org/suppdata/ce/b2/b207803a/">http://www.rsc.org/suppdata/ce/b2/b207803a/</a> . <i>CrystEngComm</i> , 2003, 5, 77-81. | 2.6 | 9         |
| 42 | Comment on "Solvent Effect on the Electronic Spectra of Azine Dyes under Alkaline Condition". <i>Journal of Physical Chemistry A</i> , 2009, 113, 9575-9576.  | 2.5 | 9         |
| 43 | Structure-colour relationships of some new -arypyridinium hemicyanine dyes. <i>Tetrahedron</i> , 1984, 40, 2061-2068.   | 1.9 | 8         |
| 44 | Regiospecific Synthesis of 1-Substituted 1,2,4-Triazoles by Reaction of 1,2,4-Triazole with Aldehydes. <i>Chemistry Letters</i> , 1990, 19, 351-354.  | 1.3 | 8         |
| 45 | Unexpected bathochromic shifts in the visible absorption spectra of arylazo dyes containing the ortho-N-pyridinium-nitro substituent combination. <i>c. Dyes and Pigments</i> , 1991, 17, 227-240.  | 3.7 | 8         |
| 46 | Additivity of substituent effects on the visible absorption spectra of some heteroarylazo compounds: the influence of solvent. <i>Dyes and Pigments</i> , 2000, 47, 23-31.  | 3.7 | 8         |
| 47 | The influence of chlorine and sulphonate substituents on the visible absorption maxima of some azo dyes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986, , 1107.  | 0.9 | 7         |
| 48 | Alkoxide-induced ring-opening of methoxymethylidene-substituted homophthalic anhydride part 2 structure and conformational analysis of the dihydroisocoumarin products. <i>Tetrahedron</i> , 1991, 47, 7869-7874.   | 1.9 | 7         |
| 49 | Non-linear Optical Properties of Squarate Esters and Amides. <i>Journal of Chemical Research Synopses</i> , 1998, , 244-245.  | 0.3 | 7         |
| 50 | Application of the BHQ benzannulation reaction to the synthesis of benzo-fused coumarins. <i>Tetrahedron Letters</i> , 2009, 50, 3617-3620.   | 1.4 | 7         |
| 51 | Stereochemistry and order of the three alkyl migrations in the cyanoborate process. <i>Journal of the Chemical Society Chemical Communications</i> , 1973, , 186.   | 2.0 | 6         |
| 52 | Electrochemical oxidative substitution and dimerisation of 1-arylazo-2-naphthols, leading to a new synthesis of some unsymmetrical diarylamines. <i>Tetrahedron Letters</i> , 1986, 27, 5261-5264.  | 1.4 | 6         |
| 53 | The syntheses of some paramagnetic stilbazole complexes and an evaluation of their redox and mesogenic properties. <i>Polyhedron</i> , 1995, 14, 2499-2504.   | 2.2 | 6         |
| 54 | Colour and constitution of azo compounds derived from diaminoazines. <i>Tetrahedron</i> , 1984, 40, 5081-5088.  | 1.9 | 5         |

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|----|---|-----|-----------|
| 55 | The effect on the colour of the diarylazo chromogen, and electronic substituent constants, of the N-pyridinium group. <i>Dyes and Pigments</i> , 1988, 9, 385-392.                                | 3.7 | 5         |
| 56 | Regiospecific Synthesis of $\hat{1}\pm$ -Alkoxy and $\hat{1}\pm$ -Alkylthio-1-alkyl-1,2,4-triazoles from Aldehydes and Glyoxals. <i>Synlett</i> , 1991, 1991, 485-486.                            | 1.8 | 5         |
| 57 | The phosphonate ester group in nonlinear optical donor-acceptor benzenes. <i>Tetrahedron Letters</i> , 1994, 35, 9073-9074.   | 1.4 | 5         |
| 58 | The isomerisation of some ortho-substituted nitrobenzenes: a structure correlation analysis. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1982, , 1241.                        | 0.9 | 4         |
| 59 | Prediction of Chemical Reactivity and Design of Organic Synthesis. , 1988, , 343-359.   |     | 2         |
| 60 | Expert systems for the analystâ€™the application of knowledge-based computer systems in the chemical laboratory. <i>Analytical Proceedings</i> , 1986, 23, 298-302.                               | 0.4 | 0         |
| 61 | Reversible cyclisation of a sulfonated arylazo compound containing an o-acetylamino substituent. <i>Tetrahedron Letters</i> , 2008, 49, 1388-1392.  | 1.4 | 0         |
| 62 | Colour and constitution of conjugate bases of benzodifurantrione, its ring-opened derivatives and benzodifuranone dye analogues. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2661-2670. | 2.8 | 0         |