

Matthew Fuchter

List of Publications by Citations

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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.

118
papers

5,329
citations

38
h-index

70
g-index

152
ext. papers

6,642
ext. citations

8.5
avg, IF

6.2
L-index

#	Paper	IF	Citations
118	Circularly polarized light detection by a chiral organic semiconductor transistor. <i>Nature Photonics</i> , 2013 , 7, 634-638	33.9	508
117	SIRT inhibitors induce cell death and p53 acetylation through targeting both SIRT1 and SIRT2. <i>Molecular Cancer Therapeutics</i> , 2010 , 9, 844-55	6.1	331
116	Circularly Polarized Phosphorescent Electroluminescence with a High Dissymmetry Factor from PHOLEDs Based on a Platinahelicene. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9743-6	16.4	268
115	The added value of small-molecule chirality in technological applications. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	264
114	Induction of circularly polarized electroluminescence from an achiral light-emitting polymer via a chiral small-molecule dopant. <i>Advanced Materials</i> , 2013 , 25, 2624-8	24	256
113	Arylazopyrazoles: azoheteroarene photoswitches offering quantitative isomerization and long thermal half-lives. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11878-81	16.4	206
112	Nonmetal catalyzed hydrogenation of carbonyl compounds. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15813-6	16.4	182
111	Tuning Azoheteroarene Photoswitch Performance through Heteroaryl Design. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1261-1274	16.4	153
110	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. <i>Nature Medicine</i> , 2014 , 20, 307-12	50.5	128
109	Designing effective 'frustrated Lewis pair' hydrogenation catalysts. <i>Chemical Society Reviews</i> , 2017 , 46, 5689-5700	58.5	122
108	The development of a selective cyclin-dependent kinase inhibitor that shows antitumor activity. <i>Cancer Research</i> , 2009 , 69, 6208-15	10.1	105
107	Small-molecule histone methyltransferase inhibitors display rapid antimalarial activity against all blood stage forms in Plasmodium falciparum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16708-13	11.5	97
106	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. <i>ACS Nano</i> , 2017 , 11, 8329-8338	16.7	90
105	Metal-free hydrogenation catalyzed by an air-stable borane: use of solvent as a frustrated Lewis base. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10218-22	16.4	88
104	Facile Protocol for Water-Tolerant "Frustrated Lewis Pair"-Catalyzed Hydrogenation. <i>ACS Catalysis</i> , 2015 , 5, 5540-5544	13.1	87
103	Chaetocin is a nonspecific inhibitor of histone lysine methyltransferases. <i>Nature Chemical Biology</i> , 2013 , 9, 136-7	11.7	83
102	Inverting the Handedness of Circularly Polarized Luminescence from Light-Emitting Polymers Using Film Thickness. <i>ACS Nano</i> , 2019 , 13, 8099-8105	16.7	73

101	Defining the mechanism of action and enzymatic selectivity of psammaplin A against its epigenetic targets. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 1731-50	8.3	73
100	N-heterocyclic carbene mediated activation of tetravalent silicon compounds: a critical evaluation. <i>Chemistry - A European Journal</i> , 2010 , 16, 12286-94	4.8	66
99	A novel pyrazolo[1,5-a]pyrimidine is a potent inhibitor of cyclin-dependent protein kinases 1, 2, and 9, which demonstrates antitumor effects in human tumor xenografts following oral administration. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 8508-22	8.3	65
98	On the Promise of Photopharmacology Using Photoswitches: A Medicinal Chemist's Perspective. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 11436-11447	8.3	61
97	A high throughput screen for next-generation leads targeting malaria parasite transmission. <i>Nature Communications</i> , 2018 , 9, 3805	17.4	61
96	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14738-14742	16.4	56
95	A scalable and expedient route to 1-aza[6]helicene derivatives and its subsequent application to a chiral-relay asymmetric strategy. <i>Organic Letters</i> , 2013 , 15, 1706-9	6.2	55
94	The discovery of a highly selective 5,6,7,8-tetrahydrobenzo[4,5]thieno[2,3-d]pyrimidin-4(3H)-one SIRT2 inhibitor that is neuroprotective in an in vitro Parkinson's disease model. <i>ChemMedChem</i> , 2015 , 10, 69-82	3.7	53
93	Toward Photopharmacological Antimicrobial Chemotherapy Using Photoswitchable Amidohydrolase Inhibitors. <i>ACS Infectious Diseases</i> , 2017 , 3, 152-161	5.5	53
92	Ring-opening metathesis polymer sphere-supported seco-porphyrazines: efficient and recyclable photooxygenation catalysts. <i>Journal of Organic Chemistry</i> , 2006 , 71, 724-9	4.2	53
91	Arylazopyrazoles for Long-Term Thermal Energy Storage and Optically Triggered Heat Release below 0 °C. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8688-8695	16.4	50
90	ICEC0942, an Orally Bioavailable Selective Inhibitor of CDK7 for Cancer Treatment. <i>Molecular Cancer Therapeutics</i> , 2018 , 17, 1156-1166	6.1	50
89	[7]-Helicene: a chiral molecular tweezer for silver(I) salts. <i>Dalton Transactions</i> , 2012 , 41, 8238-41	4.3	50
88	Porphyrazines: Designer Macrocycles by Peripheral Substituent Change. <i>Australian Journal of Chemistry</i> , 2008 , 61, 235	1.2	50
87	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 222-227	16.4	47
86	Photoswitchable basicity through the use of azoheteroarenes. <i>Chemical Communications</i> , 2016 , 52, 4521-4523	5.8	42
85	On the histone lysine methyltransferase activity of fungal metabolite chaetocin. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 8616-25	8.3	42
84	Perspectives on natural product epigenetic modulators in chemical biology and medicine. <i>Natural Product Reports</i> , 2013 , 30, 605-24	15.1	40

83	Synthesis of porphyrazine-octaamine, hexamine and diamine derivatives. <i>Tetrahedron</i> , 2005 , 61, 6115-6130	4.0	40
82	Thienopyrimidinone Based Sirtuin-2 (SIRT2)-Selective Inhibitors Bind in the Ligand Induced Selectivity Pocket. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 1928-1945	8.3	39
81	Pathways to increase the dissymmetry in the interaction of chiral light and chiral molecules. <i>Chemical Science</i> , 2021 , 12, 8589-8602	9.4	39
80	An unusual oxidative rearrangement of [7]-helicene. <i>Tetrahedron Letters</i> , 2012 , 53, 1108-1111	2	36
79	On the function of the internal cavity of histone deacetylase protein 8: R37 is a crucial residue for catalysis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2129-32	2.9	35
78	Dual EZH2 and EHMT2 histone methyltransferase inhibition increases biological efficacy in breast cancer cells. <i>Clinical Epigenetics</i> , 2015 , 7, 84	7.7	34
77	Current limitations and future opportunities for epigenetic therapies. <i>Future Medicinal Chemistry</i> , 2012 , 4, 425-46	4.1	34
76	Clean and efficient synthesis of O-silylcarbamates and ureas in supercritical carbon dioxide. <i>Chemical Communications</i> , 2008 , 2152-4	5.8	34
75	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. <i>Nanoscale</i> , 2018 , 10, 1865-1876	7.7	32
74	Direct Reductive Amination of Carbonyl Compounds Catalyzed by a Moisture Tolerant Tin(IV) Lewis Acid. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1066-1071	5.6	31
73	Dual wavelength asymmetric photochemical synthesis with circularly polarized light. <i>Chemical Science</i> , 2015 , 6, 3853-3862	9.4	30
72	Histone methyltransferase inhibitors are orally bioavailable, fast-acting molecules with activity against different species causing malaria in humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 950-9	5.9	30
71	A combinatorial approach to improving the performance of azoarene photoswitches. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2753-2764	2.5	30
70	Lanthanide replacement in organic synthesis: Luche-type reduction of α,β -unsaturated ketones in the presence of calcium triflate. <i>Green Chemistry</i> , 2012 , 14, 2129	10	28
69	Highly Efficient Inverted Circularly Polarized Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39471-39478	9.5	28
68	UV-Sensitive Wearable Devices for Colorimetric Monitoring of UV Exposure. <i>Advanced Optical Materials</i> , 2020 , 8, 1901969	8.1	27
67	New synthetic strategies towards psammoplin A, access to natural product analogues for biological evaluation. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 659-62	3.9	27
66	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. <i>Angewandte Chemie</i> , 2016 , 128, 14958-14962	3.6	27

65	Identification of 2,4-diamino-6,7-dimethoxyquinoline derivatives as G9a inhibitors. Electronic supplementary information (ESI) available. See DOI: 10.1039/c4md00274a. <i>MedChemComm</i> , 2014 , 5, 1821-1828	5	26
64	On the determination of the stereochemistry of semisynthetic natural product analogues using chiroptical spectroscopy: desulfurization of epidithiodioxopiperazine fungal metabolites. <i>Chemistry - A European Journal</i> , 2011 , 17, 11868-75	4.8	26
63	Chemical Z/E Isomer Switching of Arylazopyrazoles Using Acid. <i>ChemPhotoChem</i> , 2019 , 3, 372-377	3.3	25
62	Diaryl ether synthesis in supercritical carbon dioxide in batch and continuous flow modes. <i>Chemical Communications</i> , 2008 , 4780-2	5.8	25
61	Porphyrazines as molecular scaffolds: flexible syntheses of novel multimetallic complexes. <i>Inorganic Chemistry</i> , 2006 , 45, 3686-94	5.1	25
60	Natural optical activity as the origin of the large chiroptical properties in π -conjugated polymer thin films. <i>Nature Communications</i> , 2020 , 11, 6137	17.4	25
59	Thioester derivatives of the natural product psammaphin A as potent histone deacetylase inhibitors. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 81-8	2.5	24
58	Intense redox-driven chiroptical switching with a 580 mV hysteresis actuated through reversible dimerization of an azoniahelicene. <i>Chemical Communications</i> , 2017 , 53, 9059-9062	5.8	23
57	Metal-Free Hydrogenation Catalyzed by an Air-Stable Borane: Use of Solvent as a Frustrated Lewis Base. <i>Angewandte Chemie</i> , 2014 , 126, 10382-10386	3.6	23
56	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. <i>Angewandte Chemie</i> , 2021 , 133, 224-229	3.6	23
55	ROM polymerization-capture-release strategy for the chromatography-free synthesis of novel unsymmetrical porphyrazines. <i>Journal of Organic Chemistry</i> , 2005 , 70, 2793-802	4.2	21
54	Development of diaminoquinazoline histone lysine methyltransferase inhibitors as potent blood-stage antimalarial compounds. <i>ChemMedChem</i> , 2014 , 9, 2360-2373	3.7	20
53	Plasmodium falciparum PfSET7: enzymatic characterization and cellular localization of a novel protein methyltransferase in sporozoite, liver and erythrocytic stage parasites. <i>Scientific Reports</i> , 2016 , 6, 21802	4.9	20
52	Inhibitor Selectivity for Cyclin-Dependent Kinase 7: A Structural, Thermodynamic, and Modelling Study. <i>ChemMedChem</i> , 2017 , 12, 372-380	3.7	19
51	The design and synthesis of novel IBiox N-heterocyclic carbene ligands derived from substituted amino-indanols. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 512-5	3.9	19
50	The Discovery of Novel 10,11-Dihydro-5H-dibenz[b,f]azepine SIRT2 Inhibitors. <i>MedChemComm</i> , 2012 ,	5	19
49	Development of a cyclin-dependent kinase inhibitor devoid of ABC transporter-dependent drug resistance. <i>British Journal of Cancer</i> , 2013 , 109, 2356-67	8.7	18
48	ROM polymerization-capture-release: application to the synthesis of unsymmetrical porphyrazinedithiols and peripherally metalated derivatives. <i>Journal of Organic Chemistry</i> , 2005 , 70, 5086-91	4.3	17

47	Enantioselective reduction of N-alkyl ketimines with frustrated Lewis pair catalysis using chiral borenium ions. <i>Chemical Communications</i> , 2019 , 55, 7077-7080	5.8	16
46	The antimalarial screening landscape-looking beyond the asexual blood stage. <i>Current Opinion in Chemical Biology</i> , 2019 , 50, 1-9	9.7	16
45	Highly ligand efficient and selective N-2-(Thioethyl)picolinamide histone deacetylase inhibitors inspired by the natural product psammaphin A. <i>ChemMedChem</i> , 2013 , 8, 149-56	3.7	16
44	One-pot formation of allylic chlorides from carbonyl derivatives. <i>Organic Letters</i> , 2008 , 10, 4919-22	6.2	15
43	Development of a Photo-Cross-Linkable Diaminoquinazoline Inhibitor for Target Identification in Plasmodium falciparum. <i>ACS Infectious Diseases</i> , 2018 , 4, 523-530	5.5	14
42	Tricyclic-isoxazolidine analogues via intramolecular 1,3-dipolar cycloaddition reactions of nitrones. <i>Tetrahedron</i> , 2010 , 66, 2761-2767	2.4	14
41	Histone lysine methyltransferase structure activity relationships that allow for segregation of G9a inhibition and anti- activity. <i>MedChemComm</i> , 2017 , 8, 1069-1092	5	13
40	Kinetic method for the large-scale analysis of the binding mechanism of histone deacetylase inhibitors. <i>Analytical Biochemistry</i> , 2014 , 460, 39-46	3.1	13
39	Mechanistic and chiroptical studies on the desulfurization of epidithiodioxopiperazines reveal universal retention of configuration at the bridgehead carbon atoms. <i>Journal of Organic Chemistry</i> , 2013 , 78, 11646-55	4.2	13
38	Multigram synthesis of a water-soluble porphyrazine and derived seco-porphyrazine labeling agents. <i>Organic Letters</i> , 2007 , 9, 5291-4	6.2	13
37	Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness. <i>Advanced Materials</i> , 2021 , 33, e2004115	24	12
36	Calcium-mediated stereoselective reduction of epoxy ketones. <i>Tetrahedron Letters</i> , 2014 , 55, 5511-5514	4	11
35	High Responsivity Circular Polarized Light Detectors based on Quasi Two-Dimensional Chiral Perovskite Films.. <i>ACS Nano</i> , 2022 ,	16.7	11
34	Gold(I) mediated rearrangement of [7]-helicene to give a benzo[cd]pyrenium cation embedded in a chiral framework. <i>Chemical Communications</i> , 2014 , 50, 5251-3	5.8	9
33	A pushpulltropylium-fused aminoporphyrazine. <i>Tetrahedron</i> , 2009 , 65, 9690-9693	2.4	9
32	Regiochemical observations on the lithiation of 1,2,4-trichlorobenzene and reaction with DMF and oxamide electrophiles in THF. <i>Tetrahedron Letters</i> , 2003 , 44, 5653-5656	2	9
31	Direct NHC-catalysed redox amidation using CO ₂ for traceless masking of amine nucleophiles. <i>Chemical Communications</i> , 2016 , 52, 11638-41	5.8	9
30	The influence of nitrogen position on charge carrier mobility in enantiopure aza[6]helicene crystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5059-5067	3.6	8

29	Design, synthesis and initial characterisation of a radiolabelled [(18)F]pyrimidoindolone probe for detecting activated caspase-3/7. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 5418-23	3.9	7
28	The transcriptional repressor REV-ERB as a novel target for disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127395	2.9	7
27	TRPswitch-A Step-Function Chemo-optogenetic Ligand for the Vertebrate TRPA1 Channel. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17457-17468	16.4	7
26	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13542-13547	16.4	7
25	Strongly Circularly Polarized Crystalline and π Phase Emission from Poly(9,9-dioctylfluorene)-Based Deep-Blue Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021 , 9, 2100066	8.1	7
24	Effective macrophage delivery using RAFT copolymer derived nanoparticles. <i>Polymer Chemistry</i> , 2018 , 9, 131-137	4.9	7
23	Efficient Electrocatalytic Switching of Azoheteroarenes in the Condensed Phases. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15250-15257	16.4	7
22	Thermodynamics of ligand binding to histone deacetylase like amidohydrolase from Bordetella/Alcaligenes. <i>Journal of Molecular Recognition</i> , 2014 , 27, 160-72	2.6	6
21	Structure-Activity Relationship Studies of a Novel Class of Transmission Blocking Antimalarials Targeting Male Gametes. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 2240-2262	8.3	6
20	Unbiased Mass Spectrometry Elucidation of the Targets and Mechanisms of Activity-Based Probes: A Case Study Involving Sulfonyl Fluorides. <i>ACS Chemical Biology</i> , 2018 , 13, 2897-2907	4.9	6
19	Synthesis of sterically encumbered C10-arylated benzo[h]quinolines using ortho-substituted aryl boronic acids. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 31-4	3.9	5
18	Chiroptical studies on brevianamide B: vibrational and electronic circular dichroism confronted. <i>Journal of Organic Chemistry</i> , 2015 , 80, 3359-67	4.2	5
17	Stoichiometric C-H arylation of tricarbonyl(arene)chromium complexes bearing pyridine directing groups. <i>Dalton Transactions</i> , 2013 , 42, 5615-8	4.3	5
16	Highly Selective High-Speed Circularly Polarized Photodiodes Based on π Conjugated Polymers. <i>Advanced Optical Materials</i> , 2101044	8.1	5
15	On the factors influencing the chiroptical response of conjugated polymer thin films. <i>Chemical Communications</i> , 2021 , 57, 9914-9917	5.8	5
14	ortho-Substituted 1,8-Diarylnaphthalenes: Conformational Thermodynamics and Kinetics. <i>Synlett</i> , 2013 , 24, 2365-2369	2.2	4
13	Serendipitous synthesis of trimetallic porphyrine triads. <i>Tetrahedron Letters</i> , 2009 , 50, 5178-5181	2	2
12	Computational Screening of Organic Semiconductors: Exploring Side-Group Functionalisation and Assembly to Optimise Charge Transport in Chiral Molecules		2

11	Computational Screening of Chiral Organic Semiconductors: Exploring Side-Group Functionalization and Assembly to Optimize Charge Transport. <i>Crystal Growth and Design</i> , 2021 , 21, 5036-5049	3.5	2
10	Synthetic studies on the reverse antibiotic natural products, the nybomycins. <i>MedChemComm</i> , 2019 , 10, 1438-1444	5	1
9	Glycosylated Nanoparticles Derived from RAFT Polymerization for Effective Drug Delivery to Macrophages.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5775-5786	4.1	1
8	Plasmodium falciparum protein Pfs16 is a target for transmission-blocking antimalarial drug development		1
7	Engineering the sign of circularly polarized emission in achiral polymer [Chiral small molecule blends as a function of blend ratio. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5168-5172	7.1	1
6	The antimalarial efficacy and mechanism of resistance of the novel chemotype DDD01034957. <i>Scientific Reports</i> , 2021 , 11, 1888	4.9	0
5	Azoheteroarenes 2022 , 83-112		0
4	Paper No 2.2: Circularly Polarised Organic Light-Emitting Diodes Using Conventional Light-Emitting Polymers and a Chiral Small-Molecule Dopant. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 4-7	0.5	
3	Catalytic activity of HDAC8 and HDAC11. <i>FASEB Journal</i> , 2010 , 24, 463.7	0.9	
2	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)**. <i>Angewandte Chemie</i> , 2021 , 133, 13654-13659	3.6	
1	Chiral Materials: Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness (Adv. Mater. 1/2021). <i>Advanced Materials</i> , 2021 , 33, 2170007	24	