Matthew Fuchter

List of Publications by Year in Descending Order

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	High Responsivity Circular Polarized Light Detectors based on Quasi Two-Dimensional Chiral Perovskite Films.. *ACS Nano*, **2022**,	16.7	11
117	Engineering the sign of circularly polarized emission in achiral polymer □chiral small molecule blends as a function of blend ratio. *Journal of Materials Chemistry C*, **2022**, 10, 5168-5172	7.1	1
116	Azoheteroarenes **2022**, 83-112		0
115	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)**. *Angewandte Chemie*, **2021**, 133, 13654-13659	3.6	
114	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)*. *Angewandte Chemie - International Edition*, **2021**, 60, 13542-13547	16.4	7
113	Strongly Circularly Polarized Crystalline and ╫Phase Emission from Poly(9,9-dioctylfluorene)-Based Deep-Blue Light-Emitting Diodes. *Advanced Optical Materials*, **2021**, 9, 2100066	8.1	7
112	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. *Angewandte Chemie*, **2021**, 133, 224-229	3.6	23
111	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. *Angewandte Chemie - International Edition*, **2021**, 60, 222-227	16.4	47
110	Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness. *Advanced Materials*, **2021**, 33, e2004115	24	12
109	Chiral Materials: Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness (Adv. Mater. 1/2021). *Advanced Materials*, **2021**, 33, 2170007	24	
108	On the factors influencing the chiroptical response of conjugated polymer thin films. *Chemical Communications*, **2021**, 57, 9914-9917	5.8	5
107	The antimalarial efficacy and mechanism of resistance of the novel chemotype DDD01034957. *Scientific Reports*, **2021**, 11, 1888	4.9	0
106	Computational Screening of Chiral Organic Semiconductors: Exploring Side-Group Functionalization and Assembly to Optimize Charge Transport. *Crystal Growth and Design*, **2021**, 21, 5036-5049	3.5	2
105	Efficient Electrocatalytic Switching of Azoheteroarenes in the Condensed Phases. *Journal of the American Chemical Society*, **2021**, 143, 15250-15257	16.4	7
104	Pathways to increase the dissymmetry in the interaction of chiral light and chiral molecules. *Chemical Science*, **2021**, 12, 8589-8602	9.4	39
103	On the Promise of Photopharmacology Using Photoswitches: A Medicinal Chemist's Perspective. *Journal of Medicinal Chemistry*, **2020**, 63, 11436-11447	8.3	61
102	The transcriptional repressor REV-ERB as a novel target for disease. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127395	2.9	7

101	UV-Sensitive Wearable Devices for Colorimetric Monitoring of UV Exposure. *Advanced Optical Materials*, **2020**, 8, 1901969	8.1	27
100	Arylazopyrazoles for Long-Term Thermal Energy Storage and Optically Triggered Heat Release below 0 °C. *Journal of the American Chemical Society*, **2020**, 142, 8688-8695	16.4	50
99	Structure-Activity Relationship Studies of a Novel Class of Transmission Blocking Antimalarials Targeting Male Gametes. *Journal of Medicinal Chemistry*, **2020**, 63, 2240-2262	8.3	6
98	Natural optical activity as the origin of the large chiroptical properties in π-conjugated polymer thin films. *Nature Communications*, **2020**, 11, 6137	17.4	25
97	Glycosylated Nanoparticles Derived from RAFT Polymerization for Effective Drug Delivery to Macrophages.. *ACS Applied Bio Materials*, **2020**, 3, 5775-5786	4.1	1
96	Highly Efficient Inverted Circularly Polarized Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 39471-39478	9.5	28
95	TRPswitch-A Step-Function Chemo-optogenetic Ligand for the Vertebrate TRPA1 Channel. *Journal of the American Chemical Society*, **2020**, 142, 17457-17468	16.4	7
94	Inverting the Handedness of Circularly Polarized Luminescence from Light-Emitting Polymers Using Film Thickness. *ACS Nano*, **2019**, 13, 8099-8105	16.7	73
93	Synthetic studies on the reverse antibiotic natural products, the nybomycins. *MedChemComm*, **2019**, 10, 1438-1444	5	1
92	Enantioselective reduction of N-alkyl ketimines with frustrated Lewis pair catalysis using chiral borenium ions. *Chemical Communications*, **2019**, 55, 7077-7080	5.8	16
91	The antimalarial screening landscape-looking beyond the asexual blood stage. *Current Opinion in Chemical Biology*, **2019**, 50, 1-9	9.7	16
90	Chemical Z/E Isomer Switching of Arylazopyrazoles Using Acid. *ChemPhotoChem*, **2019**, 3, 372-377	3.3	25
89	The influence of nitrogen position on charge carrier mobility in enantiopure aza[6]helicene crystals. *Physical Chemistry Chemical Physics*, **2019**, 21, 5059-5067	3.6	8
88	A combinatorial approach to improving the performance of azoarene photoswitches. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 2753-2764	2.5	30
87	Development of a Photo-Cross-Linkable Diaminoquinazoline Inhibitor for Target Identification in Plasmodium falciparum. *ACS Infectious Diseases*, **2018**, 4, 523-530	5.5	14
86	Direct Reductive Amination of Carbonyl Compounds Catalyzed by a Moisture Tolerant Tin(IV) Lewis Acid. *Advanced Synthesis and Catalysis*, **2018**, 360, 1066-1071	5.6	31
85	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. *Nanoscale*, **2018**, 10, 1865-1876	7.7	32
84	ICEC0942, an Orally Bioavailable Selective Inhibitor of CDK7 for Cancer Treatment. *Molecular Cancer Therapeutics*, **2018**, 17, 1156-1166	6.1	50

83	Effective macrophage delivery using RAFT copolymer derived nanoparticles. *Polymer Chemistry*, **2018**, 9, 131-137	4.9	7
82	Unbiased Mass Spectrometry Elucidation of the Targets and Mechanisms of Activity-Based Probes: A Case Study Involving Sulfonyl Fluorides. *ACS Chemical Biology*, **2018**, 13, 2897-2907	4.9	6
81	A high throughput screen for next-generation leads targeting malaria parasite transmission. *Nature Communications*, **2018**, 9, 3805	17.4	61
80	Thienopyrimidinone Based Sirtuin-2 (SIRT2)-Selective Inhibitors Bind in the Ligand Induced Selectivity Pocket. *Journal of Medicinal Chemistry*, **2017**, 60, 1928-1945	8.3	39
79	Inhibitor Selectivity for Cyclin-Dependent Kinase 7: A Structural, Thermodynamic, and Modelling Study. *ChemMedChem*, **2017**, 12, 372-380	3.7	19
78	The added value of small-molecule chirality in technological applications. *Nature Reviews Chemistry*, **2017**, 1,	34.6	264
77	Histone lysine methyltransferase structure activity relationships that allow for segregation of G9a inhibition and anti- activity. *MedChemComm*, **2017**, 8, 1069-1092	5	13
76	Tuning Azoheteroarene Photoswitch Performance through Heteroaryl Design. *Journal of the American Chemical Society*, **2017**, 139, 1261-1274	16.4	153
75	Intense redox-driven chiroptical switching with a 580 mV hysteresis actuated through reversible dimerization of an azoniahelicene. *Chemical Communications*, **2017**, 53, 9059-9062	5.8	23
74	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. *ACS Nano*, **2017**, 11, 8329-8338	16.7	90
73	Designing effective 'frustrated Lewis pair' hydrogenation catalysts. *Chemical Society Reviews*, **2017**, 46, 5689-5700	58.5	122
72	Toward Photopharmacological Antimicrobial Chemotherapy Using Photoswitchable Amidohydrolase Inhibitors. *ACS Infectious Diseases*, **2017**, 3, 152-161	5.5	53
71	Circularly Polarized Phosphorescent Electroluminescence with a High Dissymmetry Factor from PHOLEDs Based on a Platinahelicene. *Journal of the American Chemical Society*, **2016**, 138, 9743-6	16.4	268
70	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. *Angewandte Chemie - International Edition*, **2016**, 55, 14738-14742	16.4	56
69	Photoswitchable basicity through the use of azoheteroarenes. *Chemical Communications*, **2016**, 52, 4521-4	5.8	42
68	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. *Angewandte Chemie*, **2016**, 128, 14958-14962	3.6	27
67	Plasmodium falciparum PfSET7: enzymatic characterization and cellular localization of a novel protein methyltransferase in sporozoite, liver and erythrocytic stage parasites. *Scientific Reports*, **2016**, 6, 21802	4.9	20
66	Direct NHC-catalysed redox amidation using CO2 for traceless masking of amine nucleophiles. *Chemical Communications*, **2016**, 52, 11638-41	5.8	9

65	Dual wavelength asymmetric photochemical synthesis with circularly polarized light. *Chemical Science*, **2015**, 6, 3853-3862	9.4	30
64	Design, synthesis and initial characterisation of a radiolabelled [(18)F]pyrimidoindolone probe for detecting activated caspase-3/7. *Organic and Biomolecular Chemistry*, **2015**, 13, 5418-23	3.9	7
63	Facile Protocol for Water-Tolerant "Frustrated Lewis Pair"-Catalyzed Hydrogenation. *ACS Catalysis*, **2015**, 5, 5540-5544	13.1	87
62	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. *ChemMedChem*, **2015**, 10, 69-82	3.7	53
61	Dual EZH2 and EHMT2 histone methyltransferase inhibition increases biological efficacy in breast cancer cells. *Clinical Epigenetics*, **2015**, 7, 84	7.7	34
60	Chiroptical studies on brevianamide B: vibrational and electronic circular dichroism confronted. *Journal of Organic Chemistry*, **2015**, 80, 3359-67	4.2	5
59	Histone methyltransferase inhibitors are orally bioavailable, fast-acting molecules with activity against different species causing malaria in humans. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 950-9	5.9	30
58	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. *Nature Medicine*, **2014**, 20, 307-12	50.5	128
57	Thermodynamics of ligand binding to histone deacetylase like amidohydrolase from Bordetella/Alcaligenes. *Journal of Molecular Recognition*, **2014**, 27, 160-72	2.6	6
56	Gold(I) mediated rearrangement of [7]-helicene to give a benzo[cd]pyrenium cation embedded in a chiral framework. *Chemical Communications*, **2014**, 50, 5251-3	5.8	9
55	Identification of 2,4-diamino-6,7-dimethoxyquinoline derivatives as G9a inhibitors†Electronic supplementary information (ESI) available. See DOI: 10.1039/c4md00274a. *MedChemComm*, **2014**, 5, 1821-1828	5	26
54	Arylazopyrazoles: azoheteroarene photoswitches offering quantitative isomerization and long thermal half-lives. *Journal of the American Chemical Society*, **2014**, 136, 11878-81	16.4	206
53	Nonmetal catalyzed hydrogenation of carbonyl compounds. *Journal of the American Chemical Society*, **2014**, 136, 15813-6	16.4	182
52	Metal-free hydrogenation catalyzed by an air-stable borane: use of solvent as a frustrated Lewis base. *Angewandte Chemie - International Edition*, **2014**, 53, 10218-22	16.4	88
51	Development of diaminoquinazoline histone lysine methyltransferase inhibitors as potent blood-stage antimalarial compounds. *ChemMedChem*, **2014**, 9, 2360-2373	3.7	20
50	Calcium-mediated stereoselective reduction of □epoxy ketones. *Tetrahedron Letters*, **2014**, 55, 5511-5514		11
49	Kinetic method for the large-scale analysis of the binding mechanism of histone deacetylase inhibitors. *Analytical Biochemistry*, **2014**, 460, 39-46	3.1	13
48	Metal-Free Hydrogenation Catalyzed by an Air-Stable Borane: Use of Solvent as a Frustrated Lewis Base. *Angewandte Chemie*, **2014**, 126, 10382-10386	3.6	23

47	Chaetocin is a nonspecific inhibitor of histone lysine methyltransferases. *Nature Chemical Biology*, **2013**, 9, 136-7	11.7	83
46	Circularly polarized light detection by a chiral organic semiconductor transistor. *Nature Photonics*, **2013**, 7, 634-638	33.9	508
45	On the histone lysine methyltransferase activity of fungal metabolite chaetocin. *Journal of Medicinal Chemistry*, **2013**, 56, 8616-25	8.3	42
44	Mechanistic and chiroptical studies on the desulfurization of epidithiodioxopiperazines reveal universal retention of configuration at the bridgehead carbon atoms. *Journal of Organic Chemistry*, **2013**, 78, 11646-55	4.2	13
43	Development of a cyclin-dependent kinase inhibitor devoid of ABC transporter-dependent drug resistance. *British Journal of Cancer*, **2013**, 109, 2356-67	8.7	18
42	Synthesis of sterically encumbered C10-arylated benzo[h]quinolines using ortho-substituted aryl boronic acids. *Organic and Biomolecular Chemistry*, **2013**, 11, 31-4	3.9	5
41	Highly ligand efficient and selective N-2-(Thioethyl)picolinamide histone deacetylase inhibitors inspired by the natural product psammaplin A. *ChemMedChem*, **2013**, 8, 149-56	3.7	16
40	Perspectives on natural product epigenetic modulators in chemical biology and medicine. *Natural Product Reports*, **2013**, 30, 605-24	15.1	40
39	A scalable and expedient route to 1-aza[6]helicene derivatives and its subsequent application to a chiral-relay asymmetric strategy. *Organic Letters*, **2013**, 15, 1706-9	6.2	55
38	Stoichiometric C-H arylation of tricarbonyl(arene)chromium complexes bearing pyridine directing groups. *Dalton Transactions*, **2013**, 42, 5615-8	4.3	5
37	Induction of circularly polarized electroluminescence from an achiral light-emitting polymer via a chiral small-molecule dopant. *Advanced Materials*, **2013**, 25, 2624-8	24	256
36	ortho-Substituted 1,8-Diarylnaphthalenes: Conformational Thermodynamics and Kinetics. *Synlett*, **2013**, 24, 2365-2369	2.2	4
35	Paper No 2.2: Circularly Polarised Organic Light-Emitting Diodes Using Conventional Light-Emitting Polymers and a Chiral Small-Molecule Dopant. *Digest of Technical Papers SID International Symposium*, **2013**, 44, 4-7	0.5	
34	Thioester derivatives of the natural product psammaplin A as potent histone deacetylase inhibitors. *Beilstein Journal of Organic Chemistry*, **2013**, 9, 81-8	2.5	24
33	An unusual oxidative rearrangement of [7]-helicene. *Tetrahedron Letters*, **2012**, 53, 1108-1111	2	36
32	Defining the mechanism of action and enzymatic selectivity of psammaplin A against its epigenetic targets. *Journal of Medicinal Chemistry*, **2012**, 55, 1731-50	8.3	73
31	[7]-Helicene: a chiral molecular tweezer for silver(I) salts. *Dalton Transactions*, **2012**, 41, 8238-41	4.3	50
30	The design and synthesis of novel IBiox N-heterocyclic carbene ligands derived from substituted amino-indanols. *Organic and Biomolecular Chemistry*, **2012**, 10, 512-5	3.9	19

29	Current limitations and future opportunities for epigenetic therapies. *Future Medicinal Chemistry*, **2012**, 4, 425-46	4.1	34
28	Lanthanide replacement in organic synthesis: Luche-type reduction of □unsaturated ketones in the presence of calcium triflate. *Green Chemistry*, **2012**, 14, 2129	10	28
27	The Discovery of Novel 10,11-Dihydro-5H-dibenz[b,f]azepine SIRT2 Inhibitors. *MedChemComm*, **2012**,	5	19
26	Small-molecule histone methyltransferase inhibitors display rapid antimalarial activity against all blood stage forms in Plasmodium falciparum. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16708-13	11.5	97
25	New synthetic strategies towards psammaplin A, access to natural product analogues for biological evaluation. *Organic and Biomolecular Chemistry*, **2011**, 9, 659-62	3.9	27
24	On the determination of the stereochemistry of semisynthetic natural product analogues using chiroptical spectroscopy: desulfurization of epidithiodioxopiperazine fungal metabolites. *Chemistry - A European Journal*, **2011**, 17, 11868-75	4.8	26
23	On the function of the internal cavity of histone deacetylase protein 8: R37 is a crucial residue for catalysis. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 2129-32	2.9	35
22	SIRT inhibitors induce cell death and p53 acetylation through targeting both SIRT1 and SIRT2. *Molecular Cancer Therapeutics*, **2010**, 9, 844-55	6.1	331
21	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. *Journal of Medicinal Chemistry*, **2010**, 53, 8508-22	8.3	65
20	N-heterocyclic carbene mediated activation of tetravalent silicon compounds: a critical evaluation. *Chemistry - A European Journal*, **2010**, 16, 12286-94	4.8	66
19	Tricyclic-isoxazolidine analogues via intramolecular 1,3-dipolar cycloaddition reactions of nitrones. *Tetrahedron*, **2010**, 66, 2761-2767	2.4	14
18	Catalytic activity of HDAC8 and HDAC11. *FASEB Journal*, **2010**, 24, 463.7	0.9	
17	The development of a selective cyclin-dependent kinase inhibitor that shows antitumor activity. *Cancer Research*, **2009**, 69, 6208-15	10.1	105
16	Serendipitous synthesis of trimetallic porphyrazine triads. *Tetrahedron Letters*, **2009**, 50, 5178-5181	2	2
15	A □ush□ull□ tropylium-fused aminoporphyrazine. *Tetrahedron*, **2009**, 65, 9690-9693	2.4	9
14	One-pot formation of allylic chlorides from carbonyl derivatives. *Organic Letters*, **2008**, 10, 4919-22	6.2	15
13	Porphyrazines: Designer Macrocycles by Peripheral Substituent Change. *Australian Journal of Chemistry*, **2008**, 61, 235	1.2	50
12	Diaryl ether synthesis in supercritical carbon dioxide in batch and continuous flow modes. *Chemical Communications*, **2008**, 4780-2	5.8	25

11	Clean and efficient synthesis of O-silylcarbamates and ureas in supercritical carbon dioxide. *Chemical Communications*, **2008**, 2152-4	5.8	34
10	Multigram synthesis of a water-soluble porphyrazine and derived seco-porphyrazine labeling agents. *Organic Letters*, **2007**, 9, 5291-4	6.2	13
9	Porphyrazines as molecular scaffolds: flexible syntheses of novel multimetallic complexes. *Inorganic Chemistry*, **2006**, 45, 3686-94	5.1	25
8	Ring-opening metathesis polymer sphere-supported seco-porphyrazines: efficient and recyclable photooxygenation catalysts. *Journal of Organic Chemistry*, **2006**, 71, 724-9	4.2	53
7	ROM polymerization-capture-release: application to the synthesis of unsymmetrical porphyrazinedithiols and peripherally metalated derivatives. *Journal of Organic Chemistry*, **2005**, 70, 5086-91	4.2	17
6	ROM polymerization-capture-release strategy for the chromatography-free synthesis of novel unsymmetrical porphyrazines. *Journal of Organic Chemistry*, **2005**, 70, 2793-802	4.2	21
5	Synthesis of porphyrazine-octaamine, hexamine and diamine derivatives. *Tetrahedron*, **2005**, 61, 6115-6124	2.4	40
4	Regiochemical observations on the lithiation of 1,2,4-trichlorobenzene and reaction with DMF and oxamide electrophiles in THF. *Tetrahedron Letters*, **2003**, 44, 5653-5656	2	9
3	Highly Selective High-Speed Circularly Polarized Photodiodes Based on Conjugated Polymers. *Advanced Optical Materials*,2101044	8.1	5
2	Computational Screening of Organic Semiconductors: Exploring Side-Group Functionalisation and Assembly to Optimise Charge Transport in Chiral Molecules		2
1	Plasmodium falciparum protein Pfs16 is a target for transmission-blocking antimalarial drug development		1