

Matthew Fuchter

List of Publications by Year in descending order

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122
papers

7,901
citations

57631

44
h-index

54797

84
g-index

152
all docs

152
docs citations

152
times ranked

8808
citing authors

#	ARTICLE	IF	CITATIONS
1	Circularly polarized light detection by a chiral organic semiconductor transistor. <i>Nature Photonics</i> , 2013, 7, 634-638.	15.6	773
2	The added value of small-molecule chirality in technological applications. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	465
3	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, 9743-9746.	6.6	387
4	SIRT Inhibitors Induce Cell Death and p53 Acetylation through Targeting Both SIRT1 and SIRT2. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 844-855.	1.9	372
5	Induction of Circularly Polarized Electroluminescence from an Achiral Light-Emitting Polymer via a Chiral Small-Molecule Dopant. <i>Advanced Materials</i> , 2013, 25, 2624-2628.	11.1	365
6	Arylazopyrazoles: Azoheteroarene Photoswitches Offering Quantitative Isomerization and Long Thermal Half-Lives. <i>Journal of the American Chemical Society</i> , 2014, 136, 11878-11881.	6.6	310
7	Tuning Azoheteroarene Photoswitch Performance through Heteroaryl Design. <i>Journal of the American Chemical Society</i> , 2017, 139, 1261-1274.	6.6	244
8	Nonmetal Catalyzed Hydrogenation of Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2014, 136, 15813-15816.	6.6	218
9	Designing effective σ -frustrated Lewis pair TM hydrogenation catalysts. <i>Chemical Society Reviews</i> , 2017, 46, 5689-5700.	18.7	170
10	Persistence and activation of malaria hypnozoites in long-term primary hepatocyte cultures. <i>Nature Medicine</i> , 2014, 20, 307-312.	15.2	160
11	On the Promise of Photopharmacology Using Photoswitches: A Medicinal Chemist's Perspective. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 11436-11447.	2.9	146
12	Inverting the Handedness of Circularly Polarized Luminescence from Light-Emitting Polymers Using Film Thickness. <i>ACS Nano</i> , 2019, 13, 8099-8105.	7.3	145
13	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. <i>ACS Nano</i> , 2017, 11, 8329-8338.	7.3	136
14	The Development of a Selective Cyclin-Dependent Kinase Inhibitor That Shows Antitumor Activity. <i>Cancer Research</i> , 2009, 69, 6208-6215.	0.4	135
15	Pathways to increase the dissymmetry in the interaction of chiral light and chiral molecules. <i>Chemical Science</i> , 2021, 12, 8589-8602.	3.7	127
16	Arylazopyrazoles for Long-Term Thermal Energy Storage and Optically Triggered Heat Release below 0 Å°C. <i>Journal of the American Chemical Society</i> , 2020, 142, 8688-8695.	6.6	121
17	Small-molecule histone methyltransferase inhibitors display rapid antimalarial activity against all blood stage forms in <i>Plasmodium falciparum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16708-16713.	3.3	117
18	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, 10218-10222.	7.2	113

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19	Facile Protocol for Water-Tolerant σ -Frustrated Lewis Pair-Catalyzed Hydrogenation. <i>ACS Catalysis</i> , 2015, 5, 5540-5544.	5.5	110
20	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 222-227.	7.2	108
21	Chaetocin is a nonspecific inhibitor of histone lysine methyltransferases. <i>Nature Chemical Biology</i> , 2013, 9, 136-137.	3.9	95
22	ICEC0942, an Orally Bioavailable Selective Inhibitor of CDK7 for Cancer Treatment. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 1156-1166.	1.9	93
23	A high throughput screen for next-generation leads targeting malaria parasite transmission. <i>Nature Communications</i> , 2018, 9, 3805.	5.8	92
24	Defining the Mechanism of Action and Enzymatic Selectivity of Psammaplin A against Its Epigenetic Targets. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1731-1750.	2.9	89
25	A Novel Pyrazolo[1,5- <i>a</i>]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, 8508-8522.	2.9	84
26	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14738-14742.	7.2	78
27	Toward Photopharmacological Antimicrobial Chemotherapy Using Photoswitchable Amidohydrolase Inhibitors. <i>ACS Infectious Diseases</i> , 2017, 3, 152-161.	1.8	74
28	Natural optical activity as the origin of the large chiroptical properties in π -conjugated polymer thin films. <i>Nature Communications</i> , 2020, 11, 6137.	5.8	73
29	N-Heterocyclic Carbene Mediated Activation of Tetravalent Silicon Compounds: A Critical Evaluation. <i>Chemistry - A European Journal</i> , 2010, 16, 12286-12294.	1.7	69
30	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, 1706-1709.	2.4	66
31	The Discovery of a Highly Selective 5,6,7,8-tetrahydrobenzo[4,5]thieno[2,3- <i>d</i>]pyrimidin-4(3- <i>H</i>)-one SIRT2 Inhibitor that is Neuroprotective in an in vitro Parkinson's Disease Model. <i>ChemMedChem</i> , 2015, 10, 69-82.	1.6	64
32	Dual EZH2 and EHMT2 histone methyltransferase inhibition increases biological efficacy in breast cancer cells. <i>Clinical Epigenetics</i> , 2015, 7, 84.	1.8	61
33	Porphyrazines: Designer Macrocycles by Peripheral Substituent Change. <i>Australian Journal of Chemistry</i> , 2008, 61, 235.	0.5	60
34	Highly Efficient Inverted Circularly Polarized Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39471-39478.	4.0	60
35	Ring-Opening Metathesis Polymer Sphere-Supported seco-Porphyrazines: \approx 100% Efficient and Recyclable Photooxygenation Catalysts. <i>Journal of Organic Chemistry</i> , 2006, 71, 724-729.	1.7	59
36	Dual wavelength asymmetric photochemical synthesis with circularly polarized light. <i>Chemical Science</i> , 2015, 6, 3853-3862.	3.7	58

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37	[7]-Helicene: a chiral molecular tweezer for silver(i) salts. Dalton Transactions, 2012, 41, 8238.	1.6	55
38	On the Histone Lysine Methyltransferase Activity of Fungal Metabolite Chaetocin. Journal of Medicinal Chemistry, 2013, 56, 8616-8625.	2.9	54
39	Photoswitchable basicity through the use of azoheteroarenes. Chemical Communications, 2016, 52, 4521-4524.	2.2	54
40	A combinatorial approach to improving the performance of azoarene photoswitches. Beilstein Journal of Organic Chemistry, 2019, 15, 2753-2764.	1.3	53
41	High Responsivity Circular Polarized Light Detectors based on Quasi Two-Dimensional Chiral Perovskite Films. ACS Nano, 2022, 16, 2682-2689.	7.3	53
42	Perspectives on natural product epigenetic modulators in chemical biology and medicine. Natural Product Reports, 2013, 30, 605.	5.2	52
43	Thienopyrimidinone Based Sirtuin-2 (SIRT2)-Selective Inhibitors Bind in the Ligand Induced Selectivity Pocket. Journal of Medicinal Chemistry, 2017, 60, 1928-1945.	2.9	49
44	An unusual oxidative rearrangement of [7]-helicene. Tetrahedron Letters, 2012, 53, 1108-1111.	0.7	48
45	A computational exploration of the crystal energy and charge-carrier mobility landscapes of the chiral [6]helicene molecule. Nanoscale, 2018, 10, 1865-1876.	2.8	48
46	UV-Sensitive Wearable Devices for Colorimetric Monitoring of UV Exposure. Advanced Optical Materials, 2020, 8, 1901969.	3.6	46
47	Histone Methyltransferase Inhibitors Are Orally Bioavailable, Fast-Acting Molecules with Activity against Different Species Causing Malaria in Humans. Antimicrobial Agents and Chemotherapy, 2015, 59, 950-959.	1.4	43
48	Synthesis of porphyrazine-octaamine, hexamine and diamine derivatives. Tetrahedron, 2005, 61, 6115-6130.	1.0	42
49	Direct Reductive Amination of Carbonyl Compounds Catalyzed by a Moisture Tolerant Tin(IV) Lewis Acid. Advanced Synthesis and Catalysis, 2018, 360, 1066-1071.	2.1	41
50	500-Fold Amplification of Small Molecule Circularly Polarised Luminescence through Circularly Polarised FRET. Angewandte Chemie, 2021, 133, 224-229.	1.6	41
51	Clean and efficient synthesis of O-silylcarbamates and ureas in supercritical carbon dioxide. Chemical Communications, 2008, , 2152.	2.2	40
52	Chemical Z/E Isomer Switching of Arylazopyrazoles Using Acid. ChemPhotoChem, 2019, 3, 372-377.	1.5	39
53	Current limitations and future opportunities for epigenetic therapies. Future Medicinal Chemistry, 2012, 4, 425-446.	1.1	38
54	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, 2129-2132.	1.0	36

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55	Efficient Electrocatalytic Switching of Azoheteroarenes in the Condensed Phases. <i>Journal of the American Chemical Society</i> , 2021, 143, 15250-15257.	6.6	36
56	Versatile Catalytic Hydrogenation Using A Simple Tin(IV) Lewis Acid. <i>Angewandte Chemie</i> , 2016, 128, 14958-14962.	1.6	35
57	Enantioselective reduction of <i>N</i> -alkyl ketimines with frustrated Lewis pair catalysis using chiral borenium ions. <i>Chemical Communications</i> , 2019, 55, 7077-7080.	2.2	35
58	Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness. <i>Advanced Materials</i> , 2021, 33, e2004115.	11.1	35
59	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.	4.6	34
60	Identification of 2,4-diamino-6,7-dimethoxyquinoline derivatives as G9a inhibitors. <i>MedChemComm</i> , 2014, 5, 1821-1828.	3.5	34
61	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, 11868-11875.	1.7	31
62	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.	2.2	31
63	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.	1.6	30
64	Inhibitor Selectivity for Cyclin-Dependent Kinase-7: A Structural, Thermodynamic, and Modelling Study. <i>ChemMedChem</i> , 2017, 12, 372-380.	1.6	29
65	Diaryl ether synthesis in supercritical carbon dioxide in batch and continuous flow modes. <i>Chemical Communications</i> , 2008, , 4780.	2.2	28
66	Thioester derivatives of the natural product psammaplin A as potent histone deacetylase inhibitors. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 81-88.	1.3	28
67	Strongly Circularly Polarized Crystalline and Phase Emission from Poly(9,9-dioctylfluorene)-Based Deep-Blue Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100066.	3.6	28
68	Porphyrazines as Molecular Scaffolds: Flexible Syntheses of Novel Multimetallic Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 3686-3694.	1.9	27
69	New synthetic strategies towards psammaplin A, access to natural product analogues for biological evaluation. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 659-662.	1.5	27
70	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.	1.6	27
71	The antimalarial screening landscape "looking beyond the asexual blood stage. <i>Current Opinion in Chemical Biology</i> , 2019, 50, 1-9.	2.8	27
72	Highly Selective High-Speed Circularly Polarized Photodiodes Based on π -Conjugated Polymers. <i>Advanced Optical Materials</i> , 2022, 10, 2101044.	3.6	27

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73	Development of Diaminoquinazoline Histone Lysine Methyltransferase Inhibitors as Potent Blood-Stage Antimalarial Compounds. <i>ChemMedChem</i> , 2014, 9, 2360-2373.	1.6	26
74	Histone lysine methyltransferase structure activity relationships that allow for segregation of G9a inhibition and anti-Plasmodium activity. <i>MedChemComm</i> , 2017, 8, 1069-1092.	3.5	24
75	An S-shaped double helicene showing both multi-resonance thermally activated delayed fluorescence and circularly polarized luminescence. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4861-4870.	2.7	23
76	ROM Polymerization-Capture-Release Strategy for the Chromatography-Free Synthesis of Novel Unsymmetrical Porphyrazines. <i>Journal of Organic Chemistry</i> , 2005, 70, 2793-2802.	1.7	22
77	The design and synthesis of novel IBiox N-heterocyclic carbeneligands derived from substituted amino-indanols. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 512-515.	1.5	22
78	Development of a cyclin-dependent kinase inhibitor devoid of ABC transporter-dependent drug resistance. <i>British Journal of Cancer</i> , 2013, 109, 2356-2367.	2.9	22
79	One-Pot Formation of Allylic Chlorides from Carbonyl Derivatives. <i>Organic Letters</i> , 2008, 10, 4919-4922.	2.4	21
80	The discovery of novel 10,11-dihydro-5H-dibenz[b,f]azepine SIRT2 inhibitors. <i>MedChemComm</i> , 2012, 3, 373.	3.5	21
81	Development of a Photo-Cross-Linkable Diaminoquinazoline Inhibitor for Target Identification in <i>Plasmodium falciparum</i> . <i>ACS Infectious Diseases</i> , 2018, 4, 523-530.	1.8	20
82	TRPswitch—A Step-Function Chemo-optogenetic Ligand for the Vertebrate TRPA1 Channel. <i>Journal of the American Chemical Society</i> , 2020, 142, 17457-17468.	6.6	20
83	Dual G9A/EZH2 Inhibition Stimulates Antitumor Immune Response in Ovarian High-Grade Serous Carcinoma. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 522-534.	1.9	20
84	ROM Polymerization—Capture—Release: Application to the Synthesis of Unsymmetrical Porphyrzinedithiols and Peripherally Metalated Derivatives. <i>Journal of Organic Chemistry</i> , 2005, 70, 5086-5091.	1.7	18
85	The transcriptional repressor REV-ERB as a novel target for disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127395.	1.0	18
86	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13542-13547.	7.2	18
87	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, 11646-11655.	1.7	17
88	Highly Ligand Efficient and Selective N-(Thioethyl)picolinamide Histone Deacetylase Inhibitors Inspired by the Natural Product Psammaphlin...A. <i>ChemMedChem</i> , 2013, 8, 149-156.	1.6	17
89	Kinetic method for the large-scale analysis of the binding mechanism of histone deacetylase inhibitors. <i>Analytical Biochemistry</i> , 2014, 460, 39-46.	1.1	17
90	Multigram Synthesis of a Water-Soluble Porphyrzine and Derived seco-Porphyrzine Labeling Agents. <i>Organic Letters</i> , 2007, 9, 5291-5294.	2.4	16

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91	Tricyclic-isoxazolidine analogues via intramolecular 1,3-dipolar cycloaddition reactions of nitrones. <i>Tetrahedron</i> , 2010, 66, 2761-2767.	1.0	16
92	Calcium-mediated stereoselective reduction of $\hat{1},\hat{2}$ -epoxy ketones. <i>Tetrahedron Letters</i> , 2014, 55, 5511-5514.	0.7	14
93	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.	2.7	14
94	Direct NHC-catalysed redox amidation using CO ₂ for traceless masking of amine nucleophiles. <i>Chemical Communications</i> , 2016, 52, 11638-11641.	2.2	13
95	On the factors influencing the chiroptical response of conjugated polymer thin films. <i>Chemical Communications</i> , 2021, 57, 9914-9917.	2.2	13
96	A "push"pull" tropylium-fused aminoporphyrazine. <i>Tetrahedron</i> , 2009, 65, 9690-9693.	1.0	12
97	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.	1.3	12
98	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.	2.9	11
99	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.	1.4	11
100	Enhancing hole carrier injection <i>via</i> low electrochemical doping on circularly polarized polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9512-9520.	2.7	11
101	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, 5251-5253.	2.2	10
102	The antimalarial efficacy and mechanism of resistance of the novel chemotype DDD01034957. <i>Scientific Reports</i> , 2021, 11, 1888.	1.6	10
103	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.	0.7	9
104	Effective macrophage delivery using RAFT copolymer derived nanoparticles. <i>Polymer Chemistry</i> , 2018, 9, 131-137.	1.9	9
105	Best practices in the measurement of circularly polarised photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10452-10463.	2.7	9
106	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, 5418-5423.	1.5	8
107	Thermodynamics of ligand binding to histone deacetylase like amidohydrolase from <i>Bordetella/Alcaligenes</i> . <i>Journal of Molecular Recognition</i> , 2014, 27, 160-172.	1.1	7
108	Chiroptical Studies on Brevianamide B: Vibrational and Electronic Circular Dichroism Confronted. <i>Journal of Organic Chemistry</i> , 2015, 80, 3359-3367.	1.7	7

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109	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.	1.6	7
110	Stoichiometric C-H arylation of tricarbonyl(arene)chromium complexes bearing pyridine directing groups. <i>Dalton Transactions</i> , 2013, 42, 5615.	1.6	6
111	ortho-Substituted 1,8-Diarylnaphthalenes: Conformational Thermodynamics and Kinetics. <i>Synlett</i> , 2013, 24, 2365-2369.	1.0	6
112	Glycosylated Nanoparticles Derived from RAFT Polymerization for Effective Drug Delivery to Macrophages. <i>ACS Applied Bio Materials</i> , 2020, 3, 5775-5786.	2.3	6
113	Synthesis of sterically encumbered C10-arylated benzo[h]quinolines using ortho-substituted aryl boronic acids. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 31-34.	1.5	5
114	Synthetic studies on the reverse antibiotic natural products, the nybomycins. <i>MedChemComm</i> , 2019, 10, 1438-1444.	3.5	3
115	Serendipitous synthesis of trimetallic porphyrine triads. <i>Tetrahedron Letters</i> , 2009, 50, 5178-5181.	0.7	2
116	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.	0.1	0
117	PROFILE: Early Excellence in Physical Organic Chemistry. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 545-545.	0.9	0
118	Editorial. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 2919-2920.	1.4	0
119	Chiral Materials: Fullerene Desymmetrization as a Means to Achieve Single-Enantiomer Electron Acceptors with Maximized Chiroptical Responsiveness (<i>Adv. Mater.</i> 1/2021). <i>Advanced Materials</i> , 2021, 33, 2170007.	11.1	0
120	Photochemical Probe Identification of a Small-Molecule Inhibitor Binding Site in Hedgehog Acyltransferase (HHAT)**. <i>Angewandte Chemie</i> , 2021, 133, 13654-13659.	1.6	0
121	Catalytic activity of HDAC8 and HDAC11. <i>FASEB Journal</i> , 2010, 24, 463.7.	0.2	0
122	Correction to Inverting the Handedness of Circularly Polarized Luminescence from Light-Emitting Polymers Using Film Thickness. <i>ACS Nano</i> , 2022, 16, 9962-9963.	7.3	0