

Fraser F Fleming

List of Publications by Year in descending order

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116
papers

4,342
citations

257450

24
h-index

118850

62
g-index

160
all docs

160
docs citations

160
times ranked

3720
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrile-Containing Pharmaceuticals: Efficacious Roles of the Nitrile Pharmacophore. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 7902-7917.	6.4	1,279
2	Nitrile-containing natural products. <i>Natural Product Reports</i> , 1999, 16, 597-606.	10.3	529
3	Unsaturated Nitriles: Conjugate Additions of Carbon Nucleophiles to a Recalcitrant Class of Acceptors. <i>Chemical Reviews</i> , 2003, 103, 2035-2078.	47.7	333
4	Nitrile anion cyclizations. <i>Tetrahedron</i> , 2002, 58, 1-23.	1.9	165
5	Catalytic Isonitrile Insertions and Condensations Initiated by RNC-X Complexation. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2135-2196.	4.3	122
6	Cyclic nitriles: tactical advantages in synthesis. <i>Tetrahedron</i> , 2005, 61, 747-789.	1.9	120
7	Pd-Catalyzed α -Arylation of Nitriles and Esters and β -Arylation of Unsaturated Nitriles with $\text{TMPZnCl} \cdot \text{LiCl}$. <i>Organic Letters</i> , 2011, 13, 1690-1693.	4.6	71
8	Fatty Acid Amide Biosynthesis: A Possible New Role for Peptidylglycine α -Amidating Enzyme and Acyl-Coenzyme A:Glycine N-Acyltransferase. <i>Archives of Biochemistry and Biophysics</i> , 1996, 330, 430-434.	3.0	64
9	Metalated Nitriles: Organolithium, -magnesium, and -copper Exchange of α -Halonitriles. <i>Journal of Organic Chemistry</i> , 2005, 70, 2200-2205.	3.2	58
10	C- and N-Metalated Nitriles: The Relationship between Structure and Selectivity. <i>Accounts of Chemical Research</i> , 2017, 50, 2556-2568.	15.6	42
11	Alkynenitriles: Chelation-Controlled Conjugate Additions. <i>Organic Letters</i> , 2002, 4, 659-661.	4.6	41
12	Alkyl Sulfinates: Formal Nucleophiles for Synthesizing TosMIC Analogs. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1602-1605.	2.4	40
13	α, β -Unsaturated Nitriles: Stereoselective Conjugate Addition Reactions. <i>Journal of Organic Chemistry</i> , 1997, 62, 1305-1309.	3.2	39
14	Deprotecting Dithiane-Containing Alkaloids. <i>Journal of Organic Chemistry</i> , 2001, 66, 6502-6504.	3.2	39
15	Metalated nitriles: N- and C-coordination preferences of Li, Mg, and Cu cations. <i>Chemical Communications</i> , 2013, 49, 4700.	4.1	39
16	Cyclic Oxonitriles: Synergistic Juxtaposition of Ketone and Nitrile Functionalities. <i>Synthesis</i> , 2006, 2006, 893-913.	2.3	37
17	Unsaturated Nitriles: Stereoselective MgO Eliminations. <i>Journal of Organic Chemistry</i> , 2002, 67, 3668-3672.	3.2	36
18	β -Siloxy Unsaturated Nitriles: Stereoselective Cyclizations to cis- and trans-Decalins. <i>Organic Letters</i> , 1999, 1, 1547-1550.	4.6	34

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19	Cyclic Metalated Nitriles: Stereoselective Cyclizations to <i>cis</i> - and <i>trans</i> -Hydrindanes, Decalins, and Bicyclo[4.3.0]undecanes. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5365-5374.	2.4	33
20	Metalated Nitriles: Halogen-Metal Exchange with β -Halonitriles. <i>Organic Letters</i> , 2004, 6, 501-503.	4.6	32
21	Cyclic Nitriles: Diastereoselective Alkylations. <i>Journal of Organic Chemistry</i> , 2005, 70, 3845-3849.	3.2	31
22	C-Metalated Nitriles: Electrophile-Dependent Alkylations and Acylations. <i>Journal of Organic Chemistry</i> , 2006, 71, 1430-1435.	3.2	31
23	β -Hydroxy Unsaturated Nitriles: Chelation-Controlled Conjugate Additions. <i>Organic Letters</i> , 2000, 2, 1477-1479.	4.6	27
24	Metalated Nitriles: Internal 1,2-Asymmetric Induction. <i>Journal of Organic Chemistry</i> , 2008, 73, 2803-2810.	3.2	27
25	Cyclic Alkenenitriles: Chemoselective Oxonitrile Cyclizations. <i>Journal of Organic Chemistry</i> , 2002, 67, 9414-9416.	3.2	25
26	Nitrile Anions: Solvent-Dependent Cyclizations. <i>Journal of Organic Chemistry</i> , 2002, 67, 2885-2888.	3.2	25
27	Alkynenitriles: stereoselective chelation controlled conjugate addition-alkylations. <i>Tetrahedron</i> , 2003, 59, 5585-5593.	1.9	25
28	Hydroxy Alkenenitriles: Diastereoselective Conjugate Addition-alkylations. <i>Journal of Organic Chemistry</i> , 2003, 68, 4235-4238.	3.2	25
29	Metalated nitriles: stereodivergent cation-controlled cyclizations. <i>Tetrahedron</i> , 2008, 64, 7477-7488.	1.9	25
30	Bifunctional conjunctive reagents: 5-chloro-2-lithio-1-pentene and related substances. A methylenecyclohexane annulation method. <i>Canadian Journal of Chemistry</i> , 1993, 71, 280-286.	1.1	24
31	S_N2 displacements with main group organometallics. <i>Tetrahedron</i> , 2012, 68, 2925-2942.	1.9	24
32	Unsaturated Nitriles: Conjugate Addition-Silylation with Grignard Reagents. <i>Journal of Organic Chemistry</i> , 1997, 62, 4883-4885.	3.2	23
33	Cyclic Alkenenitriles: Synthesis, Conjugate Addition, and Stereoselective Annulation. <i>Journal of Organic Chemistry</i> , 2003, 68, 7646-7650.	3.2	23
34	Isonitrile alkylations: a rapid route to imidazo[1,5-a]pyridines. <i>Chemical Communications</i> , 2016, 52, 2111-2113.	4.1	23
35	Alkenenitriles: Annulations with β -Chloro Grignard Reagents. <i>Organic Letters</i> , 2002, 4, 2493-2495.	4.6	22
36	Metalated Nitriles: Chelation-Controlled Cyclizations to <i>cis</i> and <i>trans</i> -Hydrindanes and Decalins. <i>Journal of Organic Chemistry</i> , 2007, 72, 1431-1436.	3.2	22

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37	Alkenenitriles: Conjugate Additions of Alkyl Iodides with a Silica-Supported Zinc-Copper Matrix in Water. <i>Journal of Organic Chemistry</i> , 2007, 72, 6961-6969.	3.2	22
38	Grignard Reagents: Alkoxide-Directed Iodine-Magnesium Exchange at sp ³ Centers. <i>Organic Letters</i> , 2007, 9, 4507-4509.	4.6	22
39	Oxonitriles: Multicomponent Grignard Addition-Alkylations. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1126-1129.	13.8	21
40	Tin(IV)-catalyzed lactonization of β -Hydroxy trifluoroethyl esters. <i>Tetrahedron Letters</i> , 1993, 34, 3515-3518.	1.4	20
41	Unsaturated Nitriles: A Domino Ozonolysis-Aldol Synthesis of Highly Reactive Oxonitriles. <i>Journal of Organic Chemistry</i> , 1997, 62, 3036-3037.	3.2	20
42	Hydroxylated β,β -Unsaturated Nitriles: Stereoselective Synthesis. <i>Journal of Organic Chemistry</i> , 2001, 66, 2171-2174.	3.2	20
43	β -Hydroxy- β,β -alkenenitriles: Chelation-Controlled Conjugate Additions. <i>Journal of Organic Chemistry</i> , 2002, 67, 5953-5956.	3.2	20
44	Alkenenitriles: Zn-Cu Promoted Conjugate Additions of Alkyl Iodides in Water. <i>Organic Letters</i> , 2006, 8, 1557-1559.	4.6	20
45	Allylic and Allenic Halide Synthesis via NbCl ₅ - and NbBr ₅ -Mediated Alkoxide Rearrangements. <i>Journal of Organic Chemistry</i> , 2009, 74, 7294-7299.	3.2	20
46	Preparation of Functionalized Alkylmagnesium Derivatives Using an I/Mg-Exchange. <i>Organic Letters</i> , 2008, 10, 1187-1189.	4.6	19
47	Arylthio-Metal Exchange of β -Arylthioalkenenitriles. <i>Organic Letters</i> , 2014, 16, 62-65.	4.6	19
48	Metalated isocyanides: formation, structure, and reactivity. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6467-6482.	2.8	19
49	α,β -Unsaturated Nitriles: An Efficient Conjugate Addition with Potassium Benzeneselenolate and Potassium Benzenesulfenylate. <i>Journal of Organic Chemistry</i> , 1995, 60, 4299-4301.	3.2	18
50	Sulfinylnitriles: Sulfinyl-Metal Exchange-Alkylation Strategies. <i>Chemistry - A European Journal</i> , 2013, 19, 2023-2029.	3.3	18
51	Unsaturated Nitriles: Precursors for a Domino Ozonolysis-Aldol Synthesis of Oxonitriles. <i>Journal of Organic Chemistry</i> , 1999, 64, 2830-2834.	3.2	17
52	β,β -Unsaturated nitriles: preparative MgO elimination. <i>Tetrahedron Letters</i> , 2000, 41, 8847-8851.	1.4	17
53	Cyclohexanecarbonitriles: Assigning Configurations at Quaternary Centers from ¹³ C NMR CN Chemical Shifts. <i>Journal of Organic Chemistry</i> , 2009, 74, 3551-3553.	3.2	17
54	β -Halonitriles: Domino Cyclizations to Oxa- and Carbocyclic Nitriles. <i>Journal of Organic Chemistry</i> , 2003, 68, 3943-3946.	3.2	16

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55	Alkenyl Isocyanide Conjugate Additions: A Rapid Route to β -Carbolines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4310-4313.	13.8	16
56	β -Siloxy unsaturated nitriles: stereodivergent cyclizations to cis- and trans-decalins. <i>Tetrahedron</i> , 2003, 59, 737-745.	1.9	15
57	Oxonitriles: A Grignard Addition-Acylation Route to Enamides. <i>Organic Letters</i> , 2006, 8, 4903-4906.	4.6	15
58	Metalated Nitriles: Internal 1,2-Asymmetric Induction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7098-7100.	13.8	15
59	Cyclic Nitriles: Stereodivergent Addition-Alkylation-Cyclization to <i>cis</i> - and <i>trans</i> -Abietanes. <i>Journal of Organic Chemistry</i> , 2008, 73, 3674-3679.	3.2	15
60	Direct Conversion of Aldehydes and Ketones to Allylic Halides by a NbX ₅ -[3,3] Rearrangement. <i>Synlett</i> , 2009, 2009, 1077-1080.	1.8	15
61	Nitrile Alkylations through Sulfinyl-Metal Exchange. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11790-11793.	13.8	15
62	Chemoselective Alkylations with <i>N</i> - and <i>C</i> -Metalated Nitriles. <i>Organic Letters</i> , 2015, 17, 4906-4909.	4.6	15
63	Metalated Nitriles: Electrophile-Dependent Alkylations. <i>Organic Letters</i> , 2005, 7, 447-449.	4.6	14
64	β - and γ -Hydroxynitriles: diastereoselective electrophile-dependent alkylations. <i>Tetrahedron</i> , 2013, 69, 366-376.	1.9	13
65	Unsaturated Oxo-Nitriles: Stereoselective, Chelation-Controlled Conjugate Additions. <i>Journal of Organic Chemistry</i> , 1999, 64, 8568-8575.	3.2	12
66	Metalated Nitriles: Cation-Controlled Cyclizations. <i>Organic Letters</i> , 2007, 9, 2733-2736.	4.6	12
67	Cyclic Oxonitriles: Stereodivergent Grignard Addition-Alkylations. <i>Journal of Organic Chemistry</i> , 2007, 72, 5270-5275.	3.2	12
68	Asmic Isocyanide [3 + 2] Cascade to Dihydrooxazoles and Dihydroimidazoles. <i>Journal of Organic Chemistry</i> , 2020, 85, 9153-9160.	3.2	12
69	Palladium(0)-catalyzed conversion of vinyl trifluoromethanesulfonates into β , γ -unsaturated nitriles. <i>Canadian Journal of Chemistry</i> , 1993, 71, 1867-1872.	1.1	11
70	Enantioselective Installation of Quaternary Centers in Cyclic Oxonitriles. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6679-6686.	2.4	11
71	Isocyano Enones: Addition-Cyclization Cascade to Oxazoles. <i>Organic Letters</i> , 2016, 18, 3062-3065.	4.6	11
72	Unsaturated Nitriles: Optimized Coupling of the Chloroprene Grignard Reagent with β -Bromonitriles. <i>Journal of Organic Chemistry</i> , 1997, 62, 7890-7891.	3.2	10

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73	Metalated Nitrile and Enolate Chlorinations. <i>Organic Letters</i> , 2010, 12, 2810-2813.	4.6	10
74	Cyclohexylcarbonitriles: Diastereoselective Arylations with $\text{TMPZnCl}\cdot\text{LiCl}$. <i>Journal of Organic Chemistry</i> , 2012, 77, 7671-7676.	3.2	10
75	Sulfone-Metal Exchange and Alkylation of Sulfonylnitriles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7257-7260.	13.8	10
76	Oxazole Synthesis by Sequential Asmic-Ester Condensations and Sulfanyl-Lithium Exchange-Trapping. <i>Organic Letters</i> , 2021, 23, 1500-1503.	4.6	10
77	Conversion of enol trifluoromethanesulphonates into $\hat{1},\hat{1}^2$ -unsaturated nitriles. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 756-757.	2.0	9
78	Total synthesis of the trans-clerodane diterpenoid ($\hat{A}\pm$)-stephalic acid. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1665-1667.	2.0	9
79	Metalated Nitriles: Internal 1,3-Asymmetric Induction. <i>European Journal of Organic Chemistry</i> , 2008, 2009, NA-NA.	2.4	9
80	$\hat{1}^3$ -Hydroxynitrile Alkylations: Electrophile-Dependent Stereoselectivity. <i>Organic Letters</i> , 2010, 12, 3030-3033.	4.6	9
81	Transmissive Olefination Route to Putative $\hat{a}\epsilon$ -Morinol $\hat{l}\hat{a}\epsilon$ -Lignans. <i>Journal of Organic Chemistry</i> , 2012, 77, 3651-3657.	3.2	9
82	Electrophile-Dependent Alkylations of Lithiated 4-Alkoxyalk-4-enenitriles. <i>Journal of Organic Chemistry</i> , 2018, 83, 2753-2762.	3.2	9
83	Asmic: An Exceptional Building Block for Isocyanide Alkylations. <i>Organic Letters</i> , 2018, 20, 5910-5913.	4.6	9
84	Enantioselective Synthesis of Cyclic, Quaternary Oxonitriles. <i>Journal of Organic Chemistry</i> , 2010, 75, 7092-7098.	3.2	8
85	Cyclic Alkenenitriles: Copper-Catalyzed Deconjugative $\hat{1}\pm$ -Alkylation. <i>Journal of Organic Chemistry</i> , 2016, 81, 4098-4102.	3.2	8
86	Asmic Isocyanide-Nitrile Isomerization-Alkylations. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4644-4648.	2.4	7
87	Isocyanide Purification: C-2 Silica Cleans Up a Dirty Little Secret. <i>Synthesis</i> , 2019, 51, 2122-2127.	2.3	7
88	Dithiopyranthione Synthesis, Spectroscopy, and an Unusual Reactivity with DDQ. <i>Journal of Heterocyclic Chemistry</i> , 2013, 50, 879-886.	2.6	6
89	No Small Change: Simultaneously Introducing Cooperative Learning and Microscale Experiments in an Organic Lab Course. <i>Journal of Chemical Education</i> , 1995, 72, 719.	2.3	5
90	Flood Prevention by Recirculating Condenser Cooling Water. <i>Journal of Chemical Education</i> , 2001, 78, 946.	2.3	4

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91	Alkenenitrile Transmissive Olefination: Synthesis of the Putative Lignan "Morinol", <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6843-6846.	2.4	4
92	Metalated Nitriles: S _N i and S _N i ² Installation of Contiguous Quaternary "Tertiary and Quaternary" Quaternary Centers. <i>Chemistry - A European Journal</i> , 2013, 19, 8746-8750.	3.3	4
93	Direct Conversion of Nitriles into Alkene "nitriles". <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14770-14773.	13.8	4
94	Acetonitrile "Hexane Extraction Route to Pure Sulfonium Salts. <i>ACS Omega</i> , 2020, 5, 13384-13388.	3.5	4
95	Improved Labelling Methods for C9-2H-Retronecine. <i>Heterocycles</i> , 1994, 38, 135.	0.7	4
96	Metalated nitriles: S _N i ² cyclizations with a propargylic electrophile. <i>Tetrahedron Letters</i> , 2015, 56, 3216-3219.	1.4	3
97	Sulfone "Metal Exchange and Alkylation of Sulfonylnitriles. <i>Angewandte Chemie</i> , 2017, 129, 7363-7366.	2.0	2
98	Electrophile "Directed Diastereoselective Oxonitrile Alkylations. <i>Chemistry - A European Journal</i> , 2018, 24, 2850-2853.	3.3	2
99	Diastereoselective Electrophile "Directed Alkylations. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2093-2106.	2.4	2
100	One-step synthesis of imidazoles from Asmic (anisylsulfanylmethyl isocyanide). <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 1499-1502.	2.2	2
101	Copper-Catalyzed Conjugate Additions to Isocyanoalkenes. <i>Journal of Organic Chemistry</i> , 2022, 87, 488-497.	3.2	1
102	Oxidative DMSO Cyclization Cascade to Bicyclic Hydroxyketonitriles. <i>Journal of Organic Chemistry</i> , 2022, 87, 6097-6104.	3.2	1
103	1 ³ -Hydroxy-1,2-alkenenitriles: Chelation-Controlled Conjugate Additions.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
104	Cyclic Alkenenitriles: Chemoselective Oxonitrile Cyclizations.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
105	Hydroxy Alkenenitriles: Diastereoselective Conjugate Addition "Alkylations.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
106	Alkynenitriles: Stereoselective Chelation Controlled Conjugate Addition "Alkylations.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
107	Cyclic Alkenenitriles: Synthesis, Conjugate Addition, and Stereoselective Annulation.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
108	Oxonitriles: Multicomponent Grignard Addition-Alkylations.. <i>ChemInform</i> , 2004, 35, no.	0.0	0

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109	Metalated Nitriles: Halogen-Metal Exchange with α -Halonitriles.. ChemInform, 2004, 35, no.	0.0	0
110	Sink Inserts for Flood Prevention. Journal of Chemical Education, 2004, 81, 1344.	2.3	0
111	Cyclic Nitriles: Tactical Advantages in Synthesis. ChemInform, 2005, 36, no.	0.0	0
112	Metalated Nitriles: Electrophile-Dependent Alkylations.. ChemInform, 2005, 36, no.	0.0	0
113	Metalated Nitriles: Organolithium, -magnesium, and -copper Exchange of α -Halonitriles.. ChemInform, 2005, 36, no.	0.0	0
114	Cyclic Nitriles: Diastereoselective Alkylations.. ChemInform, 2005, 36, no.	0.0	0
115	Direct Conversion of Nitriles into Alkene α -Nitriles. Angewandte Chemie, 2016, 128, 14990-14993.	2.0	0
116	Alkenyl Isocyanide Conjugate Additions: A Rapid Route to β -Carbolines. Angewandte Chemie, 2017, 129, 4374-4377.	2.0	0