Michelle M Francl

List of Publications by Year
in descending order

88 papers	10,760 citations	304368 22 h-index	110170 64 g-index
90 all docs	90 docs citations	90 times ranked	10814 citing authors

#	Article	IF	Citations
1	Cabinet of curiosities. Nature Chemistry, 2021, 13, 294-295.	6.6	0
2	Hearing voices. Nature Chemistry, 2021, 13, 615-617.	6.6	0
3	Molecular backstories. Nature Chemistry, 2021, 13, 923-924.	6.6	0
4	Poetic licence. Nature Chemistry, 2021, 13, 3-4.	6.6	0
5	Postcards from the past. Nature Chemistry, 2020, 12, 4-6.	6.6	0
6	The invisible college. Nature Chemistry, 2020, 12, 582-583.	6.6	0
7	A unit of revolution. Nature Chemistry, 2020, 12, 879-880.	6.6	0
8	A chemistâ€™s cup of tea. Nature Chemistry, 2020, 12, 319-320.	6.6	0
9	From Permission to Poise. ACS Symposium Series, 2020, , 15-28.	0.5	0
10	Sleeping with your science. Nature Chemistry, 2019, 11, 863-864.	6.6	0
11	Isotopic enrichment. Nature Chemistry, 2019, 11, 101-102.	6.6	1
12	Double vision. Nature Chemistry, 2019, 11, 597-598.	6.6	6
13	The weight of water. Nature Chemistry, 2019, 11, 284-285.	6.6	2
14	Ephemeral elements. Nature Chemistry, 2019, 11, 2-4.	6.6	1
15	Making molecular monsters. Nature Chemistry, 2018, 10, 1-2.	6.6	14
16	Atomic women. Nature Chemistry, 2018, 10, 373-375.	6.6	3
17	Itâ€™s alive!. Nature Chemistry, 2018, 10, 993-994.	6.6	1
18	Talking to Paulingâ€™s ghost. Nature Chemistry, 2018, 10, 688-689.	6.6	1

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19	Identity crisis. Nature Chemistry, 2017, 9, 606-607.	6.6	0
20	It figures. Nature Chemistry, 2017, 9, 501-502.	6.6	0
21	Chemists boldly go. Nature Chemistry, 2017, 9, 4-5.	6.6	2
22	A brief history of water. Nature Chemistry, 2016, 8, 897-898.	6.6	1
23	Strangers to fiction. Nature Chemistry, 2016, 8, 636-637.	6.6	0
24	Through the eyes of a chemist. Nature Chemistry, 2016, 8, 1-2.	6.6	39
25	Changing chemistry by degrees. Nature Chemistry, 2016, 8, 289-290.	6.6	0
26	Chemical doublespeak. Nature Chemistry, 2015, 7, 533-534.	6.6	3
27	Scents and sensibility. Nature Chemistry, 2015, 7, 265-266.	6.6	7
28	The enlightenment of chemistry. Nature Chemistry, 2015, 7, 761-762.	6.6	5
29	A molecule with a ring to it. Nature Chemistry, 2015, 7, 6-7.	6.6	9
30	Attack of the clones. Nature Chemistry, 2014, 6, 267-268.	6.6	0
31	Laughing matter. Nature Chemistry, 2014, 6, 1-2.	6.6	42
32	Seeding crystallography. Nature Chemistry, 2014, 6, 842-844.	6.6	13
33	The write stuff. Nature Chemistry, 2014, 6, 555-556.	6.6	0
34	Take a number. Nature Chemistry, 2013, 5, 725-726.	6.6	2
35	Tangible assets. Nature Chemistry, 2013, 5, 147-148.	6.6	3
36	How to counteract chemophobia. Nature Chemistry, 2013, 5, 439-440.	6.6	22

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37	Naming names. Nature Chemistry, 2012, 4, 956-957.	6.6	3
38	Homemade chemists. Nature Chemistry, 2012, 4, 687-687.	6.6	4
39	Zen and the art of molecules. Nature Chemistry, 2012, 4, 142-144.	6.6	5
40	Chemical abstractions. Nature Chemistry, 2012, 4, 427-428.	6.6	0
41	Spellbound by books. Nature Chemistry, 2011, 3, 651-652.	6.6	0
42	A quantum of history. Nature Chemistry, 2011, 3, 902-903.	6.6	0
43	Sex and the citadel of science. Nature Chemistry, 2011, 3, 670-673.	6.6	2
44	Neolexia. Nature Chemistry, 2011, 3, 417-418.	6.6	1
45	Blogging on the sidelines. Nature Chemistry, 2011, 3, 183-184.	6.6	3
46	Men of mystery. Nature Chemistry, 2010, 2, 68-70.	6.6	1
47	Staging science. Nature Chemistry, 2010, 2, 338-339.	6.6	1
48	Urban legends of chemistry. Nature Chemistry, 2010, 2, 600-601.	6.6	5
49	Selling science. Nature Chemistry, 2010, 2, 999-1000.	6.6	0
50	Table manners. Nature Chemistry, 2009, 1, 97-98.	6.6	5
51	Stretching topology. Nature Chemistry, 2009, 1, 334-335.	6.6	20
52	Mapping the two cultures. Nature Chemistry, 2009, 1, 591-592.	6.6	0
53	Walking the Tightrope: Teaching the Timeless Fundamentals in the Context of Modern Physical Chemistry. ACS Symposium Series, 2007, , 253-267.	0.5	2
54	The Pluses and Minuses of Mapping Atomic Charges to Electrostatic Potentials. Reviews in Computational Chemistry, 2007, , 1-31.	1.5	27

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55	CF3 Rotation in 3-(Trifluoromethyl)phenanthrene. X-ray Diffraction and ab Initio Electronic Structure Calculations. Journal of Physical Chemistry A, 2006, 110, 3954-3960.	1.1	27
56	Chapter 15 Crossing the Line: Stochastic Models in the Chemistry Classroom. Annual Reports in Computational Chemistry, 2005, 1, 215-220.	0.9	1
57	An ab initio molecular orbital study of the reduction of carbonyls by alkylaluminum complexes. Journal of Molecular Graphics and Modelling, 2005, 24, 195-202.	1.3	3
58	An Introduction to Statistical Mechanics. Journal of Chemical Education, 2005, 82, 175.	1.1	1
59	Exploring Exotic Kinetics: An Introduction to the Use of Numerical Methods in Chemical Kinetics. Journal of Chemical Education, 2004, 81, 1535.	1.1	2
60	Ab initio MO study of the symmetrical and asymmetrical isomers of bridging alkynylaluminum and alkynylberyllium dimers. International Journal of Quantum Chemistry, 2003, 95, 806-809.	1.0	0
61	Nuclear Spinâ^'Spin Coupling via Nonbonded Interactions. 8.1 The Distance Dependence of Through-Space Fluorineâ^'Fluorine Coupling. Journal of the American Chemical Society, 2000, 122, 4108-4116.	6.6	117
62	Transition States for the Carboalumination of Alkenes and Alkynes. Organometallics, 1999, 18, 3913-3920.	1.1	25
63	Beyond CHELP: improved potential derived charges for sugars. Glycoconjugate Journal, 1997, 14, 501-505.	1.4	9
64	Charges fit to electrostatic potentials. II. Can atomic charges be unambiguously fit to electrostatic potentials?. , 1996, 17, 367-383.		146
65	Competing Câ€“Br and Câ€“C bond fission following 1[n(O),Ï€*(C=O)] excitation in bromoacetone: Conformation dependence of nonadiabaticity at a conical intersection. Journal of Chemical Physics, 1994, 100, 3463-3475.	1.2	35
66	NMR and molecular modeling study of active and inactive taxol analogues in aqueous and nonaqueous solution. Canadian Journal of Chemistry, 1994, 72, 252-260.	0.6	49
67	AMPAC 4.5. Journal of Chemical Information and Computer Sciences, 1994, 34, 1025-1025.	2.8	0
68	NMR and molecular modeling study of the conformations of taxol and of its side chain methylester in aqueous and non-aqueous solution.. Tetrahedron, 1993, 49, 6545-6560.	1.0	111
69	Transition states for hydroalumination of alkenes and alkynes: ab initio molecular orbital studies. Organometallics, 1993, 12, 1608-1615.	1.1	17
70	Distance dependence of nonadiabaticity in the branching between Câ€“Br and Câ€“Cl bond fission following 1[n(O),Ï€*(C=O)] excitation in bromopropionyl chloride. Journal of Chemical Physics, 1993, 99, 4479-4494.	1.2	42
71	Theoretical investigation of aluminum-oxygen .pi.-bonding in 3- and 4-coordinate aluminum alkoxides. Journal of the American Chemical Society, 1991, 113, 39-43.	6.6	62
72	1-Oxabicyclobutonium ions can intervene in epoxycarbinyl and 3-oxetanyl solvolyses. Journal of the American Chemical Society, 1990, 112, 3535-3539.	6.6	23

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73	.pi.-Complexes of alkenes to trivalent aluminum. Organometallics, 1990, 9, 2430-2436.	1.1	30
74	The nitrogen (N4) molecule and its metastability. The Journal of Physical Chemistry, 1990, 94, 526-528.	2.9	59
75	Phosphoranes: multiple bonding and substituent effects. Journal of the American Chemical Society, 1988, 110, 3723-3728.	6.6	33
76	Isomers of nitric acid and chlorine nitrate. The Journal of Physical Chemistry, 1988, 92, 5352-5357.	2.9	61
77	Stability of rotational transition structures in amides and thioamides. The Journal of Physical Chemistry, 1987, 91, 2716-2721.	2.9	24
78	Atomic charges derived from electrostatic potentials: A detailed study. Journal of Computational Chemistry, 1987, 8, 894-905.	1.5	984
79	Role of Active Site Residues and Solvation in RNase A. Annals of the New York Academy of Sciences, 1986, 471, 295-298.	1.8	12
80	Anionic hyperconjugation. Tetrahedron, 1985, 41, 499-506.	1.0	15
81	Polarization corrections to electrostatic potentials. The Journal of Physical Chemistry, 1985, 89, 428-433.	2.9	97
82	Representation of electron densities. 1. Sphere fits to total electron density surfaces. Journal of the American Chemical Society, 1984, 106, 563-570.	6.6	68
83	Conformational preferences in Mo2L6 complexes. Inorganic Chemistry, 1984, 23, 24-26.	1.9	8
84	Hyperconjugation and the structures of metal carbenes. Organometallics, 1983, 2, 281-286.	1.1	36
85	Structure of the Tebbe reagent. An intramolecular complex?. Organometallics, 1983, 2, 457-459.	1.1	20
86	Conformational preferences in transition-metal carbenes. Organometallics, 1983, 2, 815-818.	1.1	30
87	Self-consistent molecular orbital methods. 24. Supplemented small split-valence basis sets for second-row elements. Journal of the American Chemical Society, 1982, 104, 5039-5048.	6.6	1,148
88	Selfâ€consistent molecular orbital methods. XXIII. A polarizationâ€type basis set for secondâ€row elements. Journal of Chemical Physics, 1982, 77, 3654-3665.	1.2	7,209