

Doug E Frantz

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4554434/doug-e-frantz-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	6,334 citations	38 h-index	79 g-index
85 ext. papers	7,161 ext. citations	12.1 avg, IF	6.2 L-index

#	Paper	IF	Citations
79	White phosphorus is air-stable within a self-assembled tetrahedral capsule. <i>Science</i> , 2009 , 324, 1697-9	33.3	851
78	Facile Enantioselective Synthesis of Propargylic Alcohols by Direct Addition of Terminal Alkynes to Aldehydes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1806-1807	16.4	523
77	Molecular containers in complex chemical systems. <i>Chemical Society Reviews</i> , 2015 , 44, 419-32	58.5	470
76	Functional Capsules via Subcomponent Self-Assembly. <i>Accounts of Chemical Research</i> , 2018 , 51, 2423-2436	36.3	248
75	Efficient enantioselective additions of terminal alkynes and aldehydes under operationally convenient conditions. <i>Organic Letters</i> , 2002 , 4, 2605-6	6.2	226
74	Catalytic in Situ Generation of Zn(II)-Alkynilides under Mild Conditions: A Novel CN Addition Process Utilizing Terminal Acetylenes. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11245-11246	16.4	207
73	Allosteric inhibition of hypoxia inducible factor-2 with small molecules. <i>Nature Chemical Biology</i> , 2013 , 9, 271-6	11.7	196
72	Recent Advances in the Catalytic Syntheses of Allenes: A Critical Assessment. <i>ACS Catalysis</i> , 2014 , 4, 519-528	5.2	194
71	Strategies for binding multiple guests in metal-organic cages. <i>Nature Reviews Chemistry</i> , 2019 , 3, 204-222	34.6	184
70	Enantiopure water-soluble [Fe ₄ L ₆] cages: host-guest chemistry and catalytic activity. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7958-62	16.4	172
69	Synthesis of alpha-amido ketones via organic catalysis: thiazolium-catalyzed cross-coupling of aldehydes with acylimines. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9696-7	16.4	172
68	Subcomponent self-assembly and guest-binding properties of face-capped Fe ₄ L ₄ (8+) capsules. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5110-9	16.4	149
67	Synthesis of substituted imidazoles via organocatalysis. <i>Organic Letters</i> , 2004 , 6, 843-6	6.2	143
66	An alternative polyamine biosynthetic pathway is widespread in bacteria and essential for biofilm formation in <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 9899-907	5.4	128
65	Small-molecule activation of neuronal cell fate. <i>Nature Chemical Biology</i> , 2008 , 4, 408-10	11.7	118
64	First synthesis of optically pure propargylic N-hydroxylamines by direct, highly diastereoselective addition of terminal alkynes to nitrones. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3054-6	16.4	110
63	Genetic and molecular basis of drug resistance and species-specific drug action in schistosome parasites. <i>Science</i> , 2013 , 342, 1385-9	33.3	104

62	Pd-catalyzed asymmetric hydride elimination en route to chiral allenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4970-3	16.4	102
61	Cardiogenic small molecules that enhance myocardial repair by stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6063-8	11.5	102
60	¹³ C Kinetic Isotope Effects for the Addition of Lithium Dibutylcuprate to Cyclohexenone. Reductive Elimination Is Rate-Determining. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3383-3384	16.4	95
59	Synthesis of 2,3-dihydroisoxazoles from propargylic N-hydroxylamines via Zn(II)-catalyzed ring-closure reaction. <i>Organic Letters</i> , 2000 , 2, 2331-3	6.2	88
58	Development of inhibitors of the PAS-B domain of the HIF-2 α transcription factor. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 1739-47	8.3	79
57	Recent applications of chiral allenes in axial-to-central chirality transfer reactions. <i>Tetrahedron</i> , 2015 , 71, 7-18	2.4	76
56	Selective encapsulation and sequential release of guests within a self-sorting mixture of three tetrahedral cages. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4556-60	16.4	76
55	Designed enclosure enables guest binding within the 4200 Å cavity of a self-assembled cube. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5636-40	16.4	67
54	Synthesis of substituted pyrazoles via tandem cross-coupling/electrocyclization of enol triflates and diazoacetates. <i>Journal of Organic Chemistry</i> , 2011 , 76, 5915-23	4.2	65
53	Infrared spectroscopic investigations on the metallation of terminal alkynes by Zn(OTf) ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5843-5	11.5	62
52	Peripheral Templatation Generates an M(II) 6 L4 Guest-Binding Capsule. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7958-62	16.4	59
51	Isotope Effects and the Mechanism of Chlorotrimethylsilane-Mediated Addition of Cuprates to Enones. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3288-3295	16.4	59
50	Stereoselective synthesis of acetoacetate-derived enol triflates. <i>Organic Letters</i> , 2008 , 10, 2901-4	6.2	58
49	Practical synthesis of aryl triflates under aqueous conditions. <i>Organic Letters</i> , 2002 , 4, 4717-8	6.2	55
48	Two distinct allosteric active sites regulate guest binding within a Fe/Mo ₃ cubic receptor. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7038-43	16.4	52
47	Guanidinium binding modulates guest exchange within an [M4L6] capsule. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6882-5	16.4	50
46	Enantiomerenreine wasserlösliche [Fe4L6]-Käfigverbindungen: Wirt-Gast-Chemie und katalytische Aktivität. <i>Angewandte Chemie</i> , 2013 , 125, 8116-8120	3.6	49
45	Stereoselective synthesis of a potent thrombin inhibitor by a novel P2-P3 lactone ring opening. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3620-7	4.2	46

44	An improved method for the bromination of metalated haloarenes via lithium, zinc transmetalation: a convenient synthesis of 1,2-dibromoarenes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2188-91	4.2	44
43	Regulated expression of pH sensing G Protein-coupled receptor-68 identified through chemical biology defines a new drug target for ischemic heart disease. <i>ACS Chemical Biology</i> , 2012 , 7, 1077-83	4.9	43
42	Directed Phase Transfer of an FeL Cage and Encapsulated Cargo. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2176-2179	16.4	39
41	Multisite Binding of Drugs and Natural Products in an Entropically Favorable, Heteroleptic Receptor. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9087-9095	16.4	38
40	Iron-Catalyzed Stereoselective Cross-Coupling Reactions of Stereodefined Enol Carbamates with Grignard Reagents. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6689-93	16.4	38
39	Palladium-catalyzed elimination/isomerization of enol triflates into 1,3-dienes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6128-32	16.4	38
38	Targeting native adult heart progenitors with cardiogenic small molecules. <i>ACS Chemical Biology</i> , 2012 , 7, 1067-76	4.9	36
37	Otherwise Unstable Structures Self-Assemble in the Cavities of Cuboctahedral Coordination Cages. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11502-11509	16.4	33
36	Fluorometric Recognition of Nucleotides within a Water-Soluble Tetrahedral Capsule. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4200-4204	16.4	32
35	Metal and Organic Templates Together Control the Size of Covalent Macrocycles and Cages. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12147-12158	16.4	31
34	Allylboration of Alkenes with Allyldihaloboranes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9986-9987	16.4	29
33	Designed Enclosure Enables Guest Binding Within the 4200 B Cavity of a Self-Assembled Cube. <i>Angewandte Chemie</i> , 2015 , 127, 5728-5732	3.6	28
32	An -Symmetric 5-Fold Interlocked [2]Catenane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10267-10272	16.4	27
31	Process Development of a Potent Bradykinin 1 Antagonist. <i>Organic Process Research and Development</i> , 2009 , 13, 519-524	3.9	27
30	Small-molecule blocks malignant astrocyte proliferation and induces neuronal gene expression. <i>Differentiation</i> , 2011 , 81, 233-42	3.5	26
29	Quantified structural speciation in self-sorted Coll6L cage systems. <i>Chemical Science</i> , 2018 , 9, 1925-1930	9.4	24
28	Synchronized aromaticity as an enthalpic driving force for the aromatic Cope rearrangement. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16139-42	16.4	22
27	Guest Binding Drives Host Redistribution in Libraries of Co L Cages. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11369-11373	16.4	21

26	Selective Encapsulation and Sequential Release of Guests Within a Self-Sorting Mixture of Three Tetrahedral Cages. <i>Angewandte Chemie</i> , 2014 , 126, 4644-4648	3.6	21
25	High-throughput screen for small molecule inhibitors of Mint1-PDZ domains. <i>Assay and Drug Development Technologies</i> , 2007 , 5, 769-83	2.1	21
24	Peripheral Templatation Generates an M16L4 Guest-Binding Capsule. <i>Angewandte Chemie</i> , 2016 , 128, 8090-8094	2.0	20
23	Evelynin, a cytotoxic benzoquinone-type Retro-dihydrochalcone from <i>Tacca chantrieri</i> . <i>Journal of Natural Products</i> , 2010 , 73, 1590-2	4.9	19
22	A giant ML metallo-organic helicate based on phthalocyanines as a host for electroactive molecules. <i>Chemical Communications</i> , 2018 , 54, 2651-2654	5.8	18
21	Direct Lewis Acid Catalyzed Conversion of Enantioenriched N-Acyloxazolidinones to Chiral Esters, Amides, and Acids. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14245-14261	4.2	18
20	The bat flower: a source of microtubule-destabilizing and -stabilizing compounds with synergistic antiproliferative actions. <i>Journal of Natural Products</i> , 2013 , 76, 1923-9	4.9	17
19	Development of an ex vivo lymph node explant model for identification of novel molecules active against <i>Leishmania major</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 78-87	5.9	16
18	Pd- and Ni-Based Systems for the Catalytic Borylation of Aryl (Pseudo)halides with B(OH). <i>Journal of Organic Chemistry</i> , 2020 , 85, 10334-10349	4.2	16
17	Dysregulated ribonucleoprotein granules promote cardiomyopathy in RBM20 gene-edited pigs. <i>Nature Medicine</i> , 2020 , 26, 1788-1800	50.5	16
16	Practical routes toward the synthesis of 2-halo- and 2-alkylamino-4-pyridinecarboxaldehydes. <i>Tetrahedron Letters</i> , 2001 , 42, 6815-6818	2	15
15	Ru(II)-Catalyzed Synthesis of Substituted Furans and Their Conversion to Butenolides. <i>Organic Letters</i> , 2018 , 20, 5886-5888	6.2	15
14	Cationic Alkynyl Heck Reaction toward Substituted Allenes Using BobCat: A New Hybrid Pd(0)-Catalyst Incorporating a Water-Soluble dba Ligand. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17428-17432	16.4	14
13	Guanidinium Binding Modulates Guest Exchange within an [M4L6] Capsule. <i>Angewandte Chemie</i> , 2012 , 124, 6988-6991	3.6	13
12	Carbometalations of simple alkenes with allyldibromoborane. <i>Organic Letters</i> , 1999 , 1, 485-6	6.2	12
11	Iron-Catalyzed Stereoselective Cross-Coupling Reactions of Stereodefined Enol Carbamates with Grignard Reagents. <i>Angewandte Chemie</i> , 2016 , 128, 6801-6805	3.6	11
10	Palladium-Catalyzed Elimination/Isomerization of Enol Triflates into 1,3-Dienes. <i>Angewandte Chemie</i> , 2011 , 123, 6252-6256	3.6	11
9	Fluorometric Recognition of Nucleotides within a Water-Soluble Tetrahedral Capsule. <i>Angewandte Chemie</i> , 2019 , 131, 4244-4248	3.6	9

8	Substitution effect on the regioselective halogen/metal exchange of 3-substituted 1,2,5-tribromobenzenes. <i>Tetrahedron Letters</i> , 2008 , 49, 415-418	2	8
7	Unified Approach to Substituted Allenolates via Pd-Catalyzed β -Hydride Elimination of (E)-Enol Triflates. <i>Organic Letters</i> , 2017 , 19, 5446-5449	6.2	7
6	Guest Binding Drives Host Redistribution in Libraries of Coll4L4 Cages. <i>Angewandte Chemie</i> , 2020 , 132, 11465-11469	3.6	7
5	Palladium-Catalyzed Synthesis of Alkynes via a Tandem Decarboxylation/Elimination of (E)-Enol Triflates. <i>Organic Letters</i> , 2016 , 18, 3937-9	6.2	1
4	Synthesis and Biological Evaluations of Electrophilic Steroids Inspired by the Taccalonolides. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 2534-2543	4.3	1
3	A Metal-Free Reductive N-Alkylation of Indoles with Aldehydes. <i>Organic Letters</i> , 2021 , 23, 3233-3236	6.2	1
2	An Electrophilic Natural Product Provides a Safe and Robust Odor Neutralization Approach To Counteract Malodorous Organosulfur Metabolites Encountered in Skunk Spray. <i>Journal of Natural Products</i> , 2019 , 82, 1989-1999	4.9	0
1	Innentitelbild: Peripheral Templatation Generates an M16L4 Guest-Binding Capsule (Angew. Chem. 28/2016). <i>Angewandte Chemie</i> , 2016 , 128, 7996-7996	3.6	