

# Peter Fristrup

## List of Publications by Year in descending order

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70  
papers

3,534  
citations

94381

37  
h-index

138417

58  
g-index

83  
all docs

83  
docs citations

83  
times ranked

4452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic and mechanistic studies in enantioselective allylic substitutions catalysed by palladium complexes of a modular class of axially chiral quinazoline-containing ligands. <i>Tetrahedron</i> , 2020, 76, 130780.	1.0	8
2	Vanadium-catalyzed Deoxydehydration of Glycerol Without an External Reductant. <i>ChemCatChem</i> , 2018, 10, 769-778.	1.8	34
3	Enolonium Species-umpoled Enolates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2599-2603.	7.2	84
4	New Motifs in Deoxydehydration: Beyond the Realms of Rhenium. <i>Chemistry - A European Journal</i> , 2017, 23, 10235-10243.	1.7	58
5	Synthetic Applications and Mechanistic Studies of the Hydroxide-Mediated Cleavage of Carbon-Carbon Bonds in Ketones. <i>Journal of Organic Chemistry</i> , 2017, 82, 5890-5897.	1.7	7
6	Enolonium Species-umpoled Enolates. <i>Angewandte Chemie</i> , 2017, 129, 2643-2647.	1.6	39
7	Chemical Editing of Macrocyclic Natural Products and Kinetic Profiling Reveal Slow, Tight-Binding Histone Deacetylase Inhibitors with Picomolar Affinities. <i>Biochemistry</i> , 2017, 56, 5134-5146.	1.2	29
8	Manganese-catalyzed Cross-coupling of Aryl Halides and Grignard Reagents by a Radical Mechanism. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4758-4764.	1.2	14
9	Frontispiece: New Motifs in Deoxydehydration: Beyond the Realms of Rhenium. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
10	The Manganese-catalyzed Cross-coupling Reaction and the Influence of Trace Metals. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5269-5274.	1.2	13
11	Mechanistic Investigation of Molybdate-catalysed Transfer Hydrodeoxygenation. <i>Chemistry - A European Journal</i> , 2016, 22, 16621-16631.	1.7	20
12	Dehydrogenative Synthesis of Carboxylic Acids from Primary Alcohols and Hydroxide Catalyzed by a Ruthenium N-Heterocyclic Carbene Complex. <i>Journal of Organic Chemistry</i> , 2016, 81, 9931-9938.	1.7	62
13	Theoretical Assessment of Fluorinated Phospholipids in the Design of Liposomal Drug-Delivery Systems. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9661-9671.	1.2	4
14	Shape-selective Valorization of Biomass-derived Glycolaldehyde using Tin-containing Zeolites. <i>ChemSusChem</i> , 2016, 9, 3054-3061.	3.6	31
15	Shape-selective Valorization of Biomass-derived Glycolaldehyde using Tin-containing Zeolites. <i>ChemSusChem</i> , 2016, 9, 3022-3022.	3.6	5
16	Observations on the Influence of Precursor Conformations on Macrocyclization Reactions. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1533-1540.	1.2	2
17	Investigating the Sensitivity of NAD <sup>+</sup> -dependent Sirtuin Deacylation Activities to NADH. <i>Journal of Biological Chemistry</i> , 2016, 291, 7128-7141.	1.6	91
18	Tin-containing silicates: identification of a glycolytic pathway via 3-deoxyglucosone. <i>Green Chemistry</i> , 2016, 18, 3360-3369.	4.6	56

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19	Triangular prism-shaped $\beta$ -peptoid helices as unique biomimetic scaffolds. <i>Nature Communications</i> , 2015, 6, 7013.	5.8	72
20	In situ Spectroscopic Investigation of the Rhenium-Catalyzed Deoxydehydration of Vicinal Diols. <i>ChemCatChem</i> , 2015, 7, 1184-1196.	1.8	21
21	Rhenium-Catalyzed Deoxydehydration of Diols and Polyols. <i>ChemSusChem</i> , 2015, 8, 767-775.	3.6	102
22	Oxidative Umpolung $\alpha$ -Alkylation of Ketones. <i>Organic Letters</i> , 2015, 17, 282-285.	2.4	52
23	Tin-containing Silicates: Alkali Salts Improve Methyl Lactate Yield from Sugars. <i>ChemSusChem</i> , 2015, 8, 613-617.	3.6	131
24	DFT Study of the Molybdenum-Catalyzed Deoxydehydration of Vicinal Diols. <i>Chemistry - A European Journal</i> , 2015, 21, 3435-3442.	1.7	38
25	Resolution and Determination of the Absolute Configuration of a Twisted Bis-Lactam Analogue of Tröger's Base: A Comparative Spectroscopic and Computational Study. <i>Journal of Organic Chemistry</i> , 2015, 80, 8142-8149.	1.7	11
26	Kinetic Isotope Effects (KIE) and Density Functional Theory (DFT): A Match Made in Heaven?. <i>Synlett</i> , 2015, 26, 508-513.	1.0	20
27	Molybdenum-Catalyzed Conversion of Diols and Biomass-Derived Polyols to Alkenes Using Isopropyl Alcohol as Reductant and Solvent. <i>ACS Catalysis</i> , 2015, 5, 3638-3647.	5.5	78
28	Spectroscopic Characterization of a Monomeric, Cyclopentadienyl-Based Rhenium(V) Dioxo Complex. <i>Inorganic Chemistry</i> , 2015, 54, 11031-11036.	1.9	10
29	Methyl Effect in Azumamides Provides Insight Into Histone Deacetylase Inhibition by Macrocycles. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9644-9657.	2.9	20
30	A short designed semi-aromatic organic nanotube synthesis, chiroptical characterization, and host properties. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8930-8941.	1.5	2
31	Synergy between experimental and theoretical methods in the exploration of homogeneous transition metal catalysis. <i>Dalton Transactions</i> , 2014, 43, 11093-11105.	1.6	21
32	Molybdenum-Catalyzed Deoxydehydration of Vicinal Diols. <i>ChemSusChem</i> , 2014, 7, 425-428.	3.6	72
33	Mechanistic investigation of the one-pot formation of amides by oxidative coupling of alcohols with amines in methanol. <i>Catalysis Today</i> , 2013, 203, 211-216.	2.2	17
34	Nicotinamide Phosphoribosyltransferase Inhibitors, Design, Preparation, and Structure-Activity Relationship. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 9071-9088.	2.9	32
35	Exploring the conformational and reactive dynamics of biomolecules in solution using an extended version of the glycine reactive force field. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15062.	1.3	111
36	Synthesis of an Orthogonal Topological Analogue of Helicene. <i>Chemistry - A European Journal</i> , 2013, 19, 14963-14969.	1.7	6

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37	Mechanistic Investigation of Palladium-Catalyzed Allylic C-H Activation. <i>ACS Catalysis</i> , 2013, 3, 294-302.	5.5	79
38	<i>cis</i> and <i>trans</i> Amide Bond Rotamers in $\beta^2$ -Peptoids and Peptoids: Evaluation of Stereoelectronic Effects in Backbone and Side Chains. <i>Journal of the American Chemical Society</i> , 2013, 135, 2835-2844.	6.6	122
39	Mechanistic Investigation of the Ruthenium-HeterocyclicCarbene-Catalyzed Amidation of Amines with Alcohols. <i>Chemistry - A European Journal</i> , 2012, 18, 15683-15692.	1.7	66
40	Mechanistic investigation of the iridium-catalysed alkylation of amines with alcohols. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2569.	1.5	61
41	One-pot synthesis of amides by aerobic oxidative coupling of alcohols or aldehydes with amines using supported gold and base as catalysts. <i>Chemical Communications</i> , 2012, 48, 2427.	2.2	96
42	Gold Nanoparticle-Catalyzed Formation of Nitrogen-containing Compounds From Mechanistic Understanding to Synthetic Exploitation. <i>ChemCatChem</i> , 2012, 4, 1037-1047.	1.8	22
43	Palladium Catalyzed Allylic C-H Alkylation: A Mechanistic Perspective. <i>Molecules</i> , 2011, 16, 951-969.	1.7	74
44	Structure-Based Prediction of Subtype Selectivity of Histamine H <sub>3</sub> Receptor Selective Antagonists in Clinical Trials. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 3262-3274.	2.5	37
45	$\beta^3$ and $\beta^1$ -Lactams through Palladium-Catalyzed Intramolecular Allylic Alkylation: Enantioselective Synthesis, NMR Investigation, and DFT Rationalization. <i>Chemistry - A European Journal</i> , 2011, 17, 2885-2896.	1.7	36
46	Metal-Free Dehydration of Glucose to 5-(Hydroxymethyl)furfural in Ionic Liquids with Boric Acid as a Promoter. <i>Chemistry - A European Journal</i> , 2011, 17, 1456-1464.	1.7	177
47	Target enzyme mutations are the molecular basis for resistance towards pharmacological inhibition of nicotinamide phosphoribosyltransferase. <i>BMC Cancer</i> , 2010, 10, 677.	1.1	48
48	Enantioselective $\beta^3$ -Lactam Synthesis via Palladium-Catalyzed Intramolecular Asymmetric Allylic Alkylation. <i>Synlett</i> , 2009, 2009, 1441-1444.	1.0	3
49	Toward Efficient Palladium-Catalyzed Allylic C-H Alkylation. <i>Chemistry - A European Journal</i> , 2009, 15, 9632-9636.	1.7	98
50	Mechanistic Study of the sPLA <sub>2</sub> -Mediated Hydrolysis of a Thio-ester Pro Anticancer Ether Lipid. <i>Journal of the American Chemical Society</i> , 2009, 131, 12193-12200.	6.6	57
51	Mechanistic Investigation of the Gold-catalyzed Aerobic Oxidation of Alcohols. <i>Catalysis Letters</i> , 2008, 120, 184-190.	1.4	82
52	Direct determination of absolute configuration: a vibrational circular dichroism study on dimethyl-substituted phenyloxiranes synthesized by Shi epoxidation. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 133-142.	0.5	8
53	Unusual Selectivity-Determining Factors in the Phosphine-Free Heck Arylation of Allyl Ethers. <i>Organometallics</i> , 2008, 27, 3187-3195.	1.1	28
54	Combined Experimental and Theoretical Mechanistic Investigation of the Barbier Allylation in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2008, 73, 3228-3235.	1.7	60

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55	Novofumigatonin, a New Orthoester Meroterpenoid from <i>Aspergillus novofumigatus</i> . <i>Organic Letters</i> , 2008, 10, 401-404.	2.4	38
56	Mechanistic investigation of the gold-catalyzed aerobic oxidation of aldehydes: added insight from Hammett studies and isotopic labelling experiments. <i>Chemical Communications</i> , 2008, , 2750.	2.2	56
57	On the Nature of the Intermediates and the Role of Chloride Ions in Pd-Catalyzed Allylic Alkylations: Added Insight from Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12862-12867.	1.1	46
58	The Mechanism for the Rhodium-Catalyzed Decarbonylation of Aldehydes: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 5206-5215.	6.6	180
59	Memory Effects in Palladium-Catalyzed Allylic Alkylations of $\epsilon$ -Cyclohexenyl Acetate. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2631-2640.	2.1	27
60	Vanadia-based SCR catalysts supported on tungstated and sulfated zirconia: Influence of doping with potassium. <i>Journal of Catalysis</i> , 2007, 251, 459-473.	3.1	91
61	Direct Determination of Absolute Configuration of Methyl-Substituted Phenylloxiranes: Combined Experimental and Theoretical Approach. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9123-9129.	1.1	9
62	Combining Q2MM modeling and kinetic studies for refinement of the osmium-catalyzed asymmetric dihydroxylation (AD) mnemonic. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 2182-2198.	0.8	33
63	Theoretical Evidence for Low-Ligated Palladium(0): [Pd <sup>L</sup> ] as the Active Species in Oxidative Addition Reactions. <i>Organometallics</i> , 2006, 25, 2066-2073.	1.1	174
64	Deconvoluting the Memory Effect in Pd-Catalyzed Allylic Alkylation: Effect of Leaving Group and Added Chloride. <i>Chemistry - A European Journal</i> , 2006, 12, 5352-5360.	1.7	61
65	Surprisingly Mild $\alpha$ -Enolate-Counterion-Free Pd(0)-Catalyzed Intramolecular Allylic Alkylations.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
66	Surprisingly Mild $\alpha$ -Enolate-Counterion-Free Pd(0)-Catalyzed Intramolecular Allylic Alkylations. <i>Organic Letters</i> , 2005, 7, 995-998.	2.4	48
67	Nonradical Zinc-Barbier Reaction for Diastereoselective Synthesis of Vicinal Amino Alcohols. <i>Journal of the American Chemical Society</i> , 2005, 127, 15756-15761.	6.6	67
68	Probing Competitive Enantioselective Approach Vectors Operating in the Jacobsen-Katsuki Epoxidation: A Kinetic Study of Methyl-Substituted Styrenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 13672-13679.	6.6	41
69	Reactivity and Regioselectivity in the Heck Reaction: Hammett Study of 4-Substituted Styrenes. <i>Organometallics</i> , 2004, 23, 6160-6165.	1.1	87
70	Updating the asymmetric osmium-catalyzed dihydroxylation (AD) mnemonic: Q2MM modeling and new kinetic measurements. <i>Chirality</i> , 2003, 15, 360-368.	1.3	44