

# Jean-François Paquin

## List of Publications by Year in descending order

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102  
papers

5,752  
citations

109321

35  
h-index

79698

73  
g-index

138  
all docs

138  
docs citations

138  
times ranked

3899  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monofluorination of Organic Compounds: 10 Years of Innovation. <i>Chemical Reviews</i> , 2015, 115, 9073-9174.	47.7	761
2	Synthetic approaches to monofluoroalkenes. <i>Chemical Society Reviews</i> , 2011, 40, 2867.	38.1	297
3	Fluorine Transfer to Alkyl Radicals. <i>Journal of the American Chemical Society</i> , 2012, 134, 4026-4029.	13.7	297
4	Chiral [2.2.2] Dienes as Ligands for Rh(I) in Conjugate Additions of Boronic Acids to a Wide Range of Acceptors. <i>Organic Letters</i> , 2004, 6, 3873-3876.	4.6	273
5	Asymmetric Synthesis of 3,3-Diarylpropanals with Chiral Diene $\pi$ -Rhodium Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 10850-10851.	13.7	262
6	Direct C-F Bond Formation Using Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 2637-2641.	13.7	214
7	Friedel-Crafts Reaction of Benzyl Fluorides: Selective Activation of C-F Bonds as Enabled by Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13835-13839.	13.8	199
8	Enantioselective Pd-Catalyzed Allylation Reaction of Fluorinated Silyl Enol Ethers. <i>Journal of the American Chemical Society</i> , 2007, 129, 1034-1035.	13.7	177
9	Catalytic Asymmetric Synthesis with Rh $\pi$ -Diene Complexes: 1,4-Addition of Arylboronic Acids to Unsaturated Esters. <i>Organic Letters</i> , 2005, 7, 3821-3824.	4.6	150
10	Photofluorodecarboxylation of 2-Aryloxy and 2-Aryl Carboxylic Acids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10804-10807.	13.8	133
11	Activation of C-F bonds to C-C multiple bonds. <i>Chemical Communications</i> , 2018, 54, 10224-10239.	4.1	132
12	Activation of Allylic C-F bonds: Palladium-Catalyzed Allylic Amination of 3,3-Difluoropropenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1123-1127.	13.8	125
13	Organic Fluorine as a Hydrogen-Bond Acceptor: Recent Examples and Applications. <i>Synthesis</i> , 2015, 47, 306-322.	2.3	112
14	Synthesis of Monofluoroalkenes: A Leap Forward. <i>Synthesis</i> , 2018, 50, 881-955.	2.3	112
15	The Use of Fluoride as a Leaving Group: S <sub>N</sub> 2 Displacement of a C-F Bond on 3,3-Difluoropropenes with Organolithium Reagents To Give Direct Access to Monofluoroalkenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11112-11116.	13.8	111
16	Recent Advances in Radical Fluorination. <i>Synthesis</i> , 2015, 47, 2554-2569.	2.3	94
17	Influence of the Length and Charge on the Activity of $\alpha$ -Helical Amphipathic Antimicrobial Peptides. <i>Biochemistry</i> , 2017, 56, 1680-1695.	2.5	83
18	Palladium-Catalyzed Sequential Alkylation $\pi$ -Alkenylation Reactions and Their Application to the Synthesis of Fused Aromatic Rings. <i>Journal of Organic Chemistry</i> , 2001, 66, 8127-8134.	3.2	82

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19	Enabling Nucleophilic Substitution Reactions of Activated Alkyl Fluorides through Hydrogen Bonding. <i>Organic Letters</i> , 2013, 15, 2210-2213.	4.6	82
20	Unexpected effect of the fluorine atom on the optimal ligand-to-palladium ratio in the enantioselective Pd-catalyzed allylation reaction of fluorinated enol carbonates. <i>Chemical Communications</i> , 2008, , 3251.	4.1	70
21	Synthesis of 1,3,4-oxadiazoles from 1,2-diacylhydrazines using [Et <sub>2</sub> NSF <sub>2</sub> ]BF <sub>4</sub> as a practical cyclodehydration agent. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 988-993.	2.8	66
22	Synthesis of Monofluoroalkenes via the Activation of Allylic C-F Bonds: A Novel Route to $\beta^2$ -Aminofluoroalkenes Using Pd-Catalyzed Allylic Amination Reactions of 3,3-Difluoropropenes. <i>Synlett</i> , 2011, 2011, 289-293.	1.8	63
23	Palladium-Catalyzed Sequential Alkylation $\rightarrow$ Alkenylation Reactions. Application to the Synthesis of 2-Substituted-4-Benzoxepines and 2,5-Disubstituted-4-Benzoxepines. <i>Journal of Organic Chemistry</i> , 2002, 67, 3972-3974.	3.2	61
24	Stereocontrolled Approach to Bromofluoroalkenes and Their Use for the Synthesis of Tri- and Tetrasubstituted Fluoroalkenes. <i>Organic Letters</i> , 2009, 11, 681-684.	4.6	59
25	S <sub>N</sub> <sup>2</sup> Reaction of Allylic Difluorides with Lithium Amides and Thiolates. <i>Organic Letters</i> , 2012, 14, 5888-5891.	4.6	59
26	Recent progress in the racemic and enantioselective synthesis of monofluoroalkene-based dipeptide isosteres. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2637-2658.	2.2	55
27	Use of 5,5-(Dimethyl)- <i>i</i> -Pr-PHOX as a Practical Equivalent to <i>t</i> -Bu-PHOX in Asymmetric Catalysis. <i>Organic Letters</i> , 2009, 11, 2201-2204.	4.6	51
28	Stereoselective Synthesis of Both Stereoisomers of $\beta^2$ -Fluorostyrene Derivatives from a Common Intermediate. <i>Organic Letters</i> , 2011, 13, 1568-1571.	4.6	49
29	Regioselective Gold-Catalyzed Hydration of CF <sub>3</sub> - and SF <sub>5</sub> -alkynes. <i>Organic Letters</i> , 2019, 21, 3866-3870.	4.6	45
30	Design, Synthesis, and Applications of Potential Substitutes of <i>t</i> -Bu-Phosphinooxazoline in Pd-Catalyzed Asymmetric Transformations and Their Use for the Improvement of the Enantioselectivity in the Pd-Catalyzed Allylation Reaction of Fluorinated Allyl Enol Carbonates. <i>Journal of Organic Chemistry</i> , 2012, 77, 317-331.	3.2	42
31	Gold-Catalyzed Hydrofluorination of Internal Alkynes Using Aqueous HF. <i>Organic Letters</i> , 2019, 21, 9024-9027.	4.6	40
32	Synthesis of 2-oxazolines and related N-containing heterocycles using [Et <sub>2</sub> NSF <sub>2</sub> ]BF <sub>4</sub> as a cyclodehydration agent. <i>Tetrahedron Letters</i> , 2012, 53, 4121-4123.	1.4	39
33	Recent Advances in the Synthesis of Acyl Fluorides. <i>Synthesis</i> , 2021, 53, 653-665.	2.3	34
34	Stereocontrolled Access to Unsymmetrical 1,1-Diaryl-2-fluoroethenes. <i>Organic Letters</i> , 2009, 11, 5406-5409.	4.6	33
35	Halogenation of Primary Alcohols Using a Tetraethylammonium Halide/[Et <sub>2</sub> NSF <sub>2</sub> ]BF <sub>4</sub> Combination. <i>Organic Letters</i> , 2012, 14, 5428-5431.	4.6	33
36	Synthesis and growth inhibition activity of fluorinated derivatives of tamoxifen. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 1712-1715.	2.2	33

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37	Quinazoline-4-piperidine sulfamides are specific inhibitors of human NPP1 and prevent pathological mineralization of valve interstitial cells. <i>British Journal of Pharmacology</i> , 2015, 172, 4189-4199.	5.4	33
38	Faster initiation in the Friedel-Crafts reaction of benzyl fluorides using trifluoroacetic acid as activator. <i>Journal of Fluorine Chemistry</i> , 2016, 190, 1-6.	1.7	33
39	Diastereoselective Palladium-Catalyzed Formate Reduction of Allylic Carbonates en Route to Polypropionate Systems. <i>Journal of Organic Chemistry</i> , 2006, 71, 1924-1933.	3.2	32
40	Synthesis of Acyl Fluorides from Carboxylic Acids Using NaF-Assisted Deoxofluorination with XtalFluor-E. <i>Journal of Organic Chemistry</i> , 2020, 85, 10253-10260.	3.2	32
41	Palladium-catalyzed sequential alkylation-alkenylation reactions: application towards the synthesis of polyfunctionalized fused aromatic rings. <i>Tetrahedron</i> , 2005, 61, 6283-6297.	1.9	31
42	Synthesis of Nitriles from Aldoximes and Primary Amides Using XtalFluor-E. <i>Synthesis</i> , 2015, 47, 3758-3766.	2.3	31
43	In situ activation of benzyl alcohols with XtalFluor-E: formation of 1,1-diarylmethanes and 1,1,1-triarylmethanes through Friedel-Crafts benzylation. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2243-2246.	2.8	27
44	Revised mechanistic explanation for the alcohol-promoted amination of benzylic fluorides under highly concentrated conditions: Computational and experimental evidence on a model substrate. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 113-119.	1.7	27
45	Introduction of the 4,4,4-Trifluorobut-2-ene Chain Exploiting a Regioselective Tsuji-Trost Reaction Catalyzed by Palladium Nanoparticles. <i>Organic Letters</i> , 2015, 17, 1770-1773.	4.6	27
46	Palladium-catalyzed synthesis of monofluoroalkenes from 3,3-difluoropropenes using dimethylmalonate and derivatives as nucleophiles. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2376-2384.	2.8	27
47	Photoinitiated anti-Hydropentafluorosulfanylation of Terminal Alkynes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	27
48	Triol-promoted activation of C-F bonds: Amination of benzylic fluorides under highly concentrated conditions mediated by 1,1,1-tris(hydroxymethyl)propane. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2451-2456.	2.2	26
49	Incorporating a Monofluoroalkene into the Backbones of Short Peptides: Evaluating the Impact on Local Hydrophobicity. <i>ChemBioChem</i> , 2019, 20, 1817-1826.	2.6	26
50	Synthesis of novel substituted pyrimidine derivatives bearing a sulfamide group and their in vitro cancer growth inhibition activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 299-302.	2.2	24
51	Silver-Promoted Synthesis of 5-[(Pentafluorosulfanyl)methyl]-2-oxazolines. <i>Organic Letters</i> , 2018, 20, 7257-7260.	4.6	24
52	Synthesis of isocyanides through dehydration of formamides using XtalFluor-E. <i>Tetrahedron Letters</i> , 2015, 56, 461-464.	1.4	23
53	Direct Esterification of Carboxylic Acids with Perfluorinated Alcohols Mediated by XtalFluor-E. <i>Organic Letters</i> , 2016, 18, 6468-6471.	4.6	23
54	Highly regioselective gold-catalyzed formal hydration of propargylic gem-difluorides. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9830-9836.	2.8	23

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55	Synthesis and biological evaluation of novel quinazoline-4-piperidinesulfamide derivatives as inhibitors of NPP1. <i>European Journal of Medicinal Chemistry</i> , 2018, 147, 130-149.	5.5	22
56	Electron donor-acceptor (EDA)-complex enabled SF <sub>5</sub> Cl addition on alkenes and alkynes. <i>Journal of Fluorine Chemistry</i> , 2021, 243, 109734.	1.7	22
57	Hydrogen-Bond-Promoted Friedel-Crafts Reaction of Secondary Propargylic Fluorides: Preparation of 1-Alkyl-1-aryl-2-alkynes. <i>Synlett</i> , 2017, 28, 2823-2828.	1.8	21
58	Hydrofluorination of Alkenes: A Review. <i>Chemistry - an Asian Journal</i> , 2021, 16, 563-574.	3.3	21
59	Amine-borane complex-initiated SF <sub>5</sub> Cl radical addition on alkenes and alkynes. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 3069-3077.	2.2	21
60	Synthesis of monofluoroalkenes using a Pt-catalyzed amination reaction of cyclic 3,3-difluoropropenes with secondary aliphatic amines. <i>Journal of Fluorine Chemistry</i> , 2015, 174, 81-87.	1.7	20
61	Exploiting a Difference in Leaving Group Ability: An Approach to $\beta^2$ -Substituted Monofluoroalkenes Using <i>gem</i> -Chlorofluoropropenes. <i>Organic Letters</i> , 2016, 18, 1852-1855.	4.6	20
62	Diastereoselective Palladium-Catalyzed Formate Reduction of Allylic Carbonates as a New Entry into Propionate Units. <i>Organic Letters</i> , 2003, 5, 3391-3394.	4.6	19
63	Direct allylation of benzyl alcohols, diarylmethanols, and triarylmethanols mediated by XtalFluor-E. <i>Tetrahedron Letters</i> , 2017, 58, 442-444.	1.4	19
64	Evaluation of the compatibility of pentafluorosulfanyl chloride with various solvents and additives. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 70-74.	1.7	19
65	Gold Heterocyclic Carbene Catalysts for the Hydrofluorination of Alkynes Using Hydrofluoric Acid: Reaction Scope, Mechanistic Studies and the Tracking of Elusive Intermediates. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	19
66	Deoxofluorination Reactions Using N,N-Disubstituted Aminodifluorosulfonium Tetrafluoroborate Salts. <i>Journal of Fluorine Chemistry</i> , 2013, 153, 57-60.	1.7	18
67	Amide Formation Using In Situ Activation of Carboxylic Acids with [Et <sub>2</sub> NSF <sub>2</sub> ] <sub>2</sub> BF <sub>4</sub> . <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4325-4331.	2.4	18
68	Exploiting 3,3-Difluoropropenes for the Synthesis of Monofluoroalkenes. <i>Synlett</i> , 2016, 27, 821-830.	1.8	18
69	Eliminative Deoxofluorination Using XtalFluor-E: A One-Step Synthesis of Monofluoroalkenes from Cyclohexanone Derivatives. <i>Organic Letters</i> , 2017, 19, 3604-3607.	4.6	17
70	Stereochemical outcomes of $\text{C}^{\text{F}}$ activation reactions of benzyl fluoride. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 106-113.	2.2	15
71	Monofluoroalkene isotopomers as a <sup>19</sup> F...NMR Label for the Peptide Backbone: Synthesis and Evaluation in Membrane-Bound PGLa and (KIGAKI) <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2020, 26, 1511-1517.	3.3	14
72	Thiourea-Catalyzed $\text{C}^{\text{F}}$ Bond Activation: Amination of Benzylic Fluorides. <i>Chemistry - A European Journal</i> , 2020, 26, 10620-10625.	3.3	14

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73	Design, synthesis and biological evaluation studies of novel small molecule ENPP1 inhibitors for cancer immunotherapy. <i>Bioorganic Chemistry</i> , 2022, 119, 105549.	4.1	14
74	Use of XtalFluor-E as an Alternative to POCl <sub>3</sub> in the Vilsmeier-Haack Formylation of <i>D</i> -2-Glycals. <i>Journal of Organic Chemistry</i> , 2018, 83, 8731-8738.	3.2	13
75	Direct Hydrofluorination of Methallyl Alkenes Using a Methanesulfonic Acid/Triethylamine Trihydrofluoride Combination. <i>Organic Letters</i> , 2019, 21, 9759-9762.	4.6	13
76	Synthesis and properties of monofluorinated dimyristoylphosphatidylcholine derivatives: Potential fluorinated probes for the study of membrane topology. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1145-1148.	2.8	12
77	Efficient synthesis of silylated 2,2-difluorostyrene derivatives through Suzuki-Miyaura cross-coupling of 2,2-difluoro-1-iodo-1-silylethenes. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1367.	2.8	11
78	Evaluation of the effect of fluorination on the property of monofluorinated dimyristoylphosphatidylcholines. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5126-5135.	2.8	11
79	Au-catalyzed intramolecular hydroalkoxylation of gem-difluorinated alkynols. <i>Journal of Fluorine Chemistry</i> , 2018, 216, 11-23.	1.7	11
80	Synthesis of 5-(Pentafluorosulfanyl)methyl- $\gamma$ -butyrolactones via a Silver-Promoted Intramolecular Cyclization Reaction. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6655-6665.	2.4	11
81	A Radical Access to CF <sub>3</sub> - and SF <sub>5</sub> -Containing Dihydrobenzofurans and Indolines. <i>Synthesis</i> , 2017, 49, 4827-4844.	2.3	10
82	Enantioselective palladium-catalyzed addition of malonates to 3,3-difluoropropenes. <i>Tetrahedron</i> , 2018, 74, 6023-6032.	1.9	10
83	Photoinitiated anti-Hydro-pentafluorosulfanylation of Terminal Alkynes. <i>Angewandte Chemie</i> , 0, , .	2.0	10
84	Racemic and enantioselective metal-catalyzed synthesis of SF <sub>5</sub> -containing diarylmethanols. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8764-8780.	2.8	9
85	Drastic fluorine effect: complete reversal of the selectivity in the Au-catalyzed hydroalkoxylation reaction of fluorinated haloalkynes. <i>Chemical Communications</i> , 2020, 56, 5969-5972.	4.1	8
86	Progress in the synthesis of fluorinated phosphatidylcholines for biological applications. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4925-4941.	2.8	7
87	Complementary Methods for the Introduction of the <i>E</i> -(Pentafluorosulfanyl)allyl Chain onto $\alpha$ , $\beta$ , and $\gamma$ -Based Nucleophiles. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4611-4620.	2.4	6
88	Characterization of the structure, dynamics and allosteric pathways of human NPP1 in its free form and substrate-bound complex from molecular modeling. <i>Molecular BioSystems</i> , 2017, 13, 1058-1069.	2.9	6
89	A Flexible Synthetic Approach to Phosphatidylglycerols. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 6401-6407.	2.4	6
90	New insights into the influence of monofluorination on dimyristoylphosphatidylcholine membrane properties: A solid-state NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 654-663.	2.6	6

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91	Synthesis of N-(2-SF5-ethyl)amines and impact of the SF5 substituent on their basicity and lipophilicity. <i>Tetrahedron</i> , 2021, 98, 132424.	1.9	6
92	Systematic study of the reactivity of (E)-4,4,4-trifluorobut-2-en-1-yl 4-methylbenzenesulfonate towards different classes of nucleophiles. <i>Journal of Fluorine Chemistry</i> , 2015, 180, 216-221.	1.7	5
93	Hydrohalogenation of Unactivated Alkenes Using a Methanesulfonic Acid/Halide Salt Combination. <i>Synthesis</i> , 2022, 54, 1413-1421.	2.3	5
94	Bromination/desilicobromination of silylated monofluoroalkenes using tetrabutylammonium tribromide under microwave conditions. <i>Journal of Fluorine Chemistry</i> , 2013, 145, 77-80.	1.7	4
95	Novel approaches to probe the binding of recoverin to membranes. <i>European Biophysics Journal</i> , 2018, 47, 679-691.	2.2	4
96	Towards the use of monofluorinated dimyristoylphosphatidylcholines as <sup>19</sup> F NMR reporters in bacterial model membranes. <i>Journal of Fluorine Chemistry</i> , 2018, 206, 43-47.	1.7	2
97	Synthesis of an anion-binding amino acid. <i>Tetrahedron Letters</i> , 2012, 53, 409-411.	1.4	1
98	Diastereoselective Palladium-Catalyzed Formate Reduction of Allylic Carbonates as a New Entry into Propionate Units.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
99	Chiral [2.2.2] Dienes as Ligands for Rh(I) in Conjugate Additions of Boronic Acids to a Wide Range of Acceptors.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
100	Palladium-Catalyzed Sequential Alkylation-Alkenylation Reactions: Application Towards the Synthesis of Polyfunctionalized Fused Aromatic Rings.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
101	Asymmetric Synthesis of 3,3-Diarylpropanals with Chiral Diene-Rhodium Catalysts.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
102	Palladium-Catalyzed Sequential Alkylation-Alkenylation Reactions. Application to the Synthesis of 2-Substituted-4-benzoxepines and 2,5-Disubstituted-4-benzoxepines.. <i>ChemInform</i> , 2002, 33, 146-146.	0.0	0