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### <Original Papers>

- 1) T. Fujita,\* R. Morioka, T. Fukuda, N. Suzuki, J. Ichikawa,\* “Acid-Mediated Intermolecular C–F/C–H Cross-Coupling of 2-Fluorobenzofurans with Arenes: Synthesis of 2-Arylbenzofurans,” *Chem. Commun.*, **57**, 8500–8503 (2021).
- 2) T. Fujita,\* N. Shoji, N. Yoshikawa, J. Ichikawa,\* “Helicene synthesis by Brønsted acid-catalyzed cycloaromatization in HFIP [(CF<sub>3</sub>)<sub>2</sub>CHOH],” *Beilstein J. Org. Chem.*, **17**, 396–403 (2021).
- 3) T. Fujita, M. Takeishi, J. Ichikawa, “Copper-Catalyzed [3 + 2] Annulation of Azides with a (Difluorovinyl)zinc Complex, Fluoroacetylene Equivalent,” *Org. Lett.*, **22**, 9253–9257 (2020).
- 4) R. Morioka, T. Fujita, J. Ichikawa, “Facile Synthesis of 2-Fluorobenzofurans: 5-*endo*-trig Cyclization of β,β-Difluoro-*o*-hydroxystyrenes,” *Helvetica Chim. Acta*, **103**, e2000159 (2020).
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- 8) T. Fujita, M. Hattori, M. Matsuda, R. Morioka, T. C. Jankins, M. Ikeda, J. Ichikawa, “Nucleophilic 5-*endo-trig* cyclization of 2-(trifluoromethyl)allylic metal enolates and enamides: Synthesis of tetrahydrofurans and pyrrolidines bearing *exo*-difluoromethylene units,” *Tetrahedron*, **75**, 36–46 (2019).
- 9) T. Fujita, R. Morioka, T. Arita, J. Ichikawa, “sp<sup>3</sup> Carbon–Fluorine Bond Activation in 2,2-Difluorohomoallylic Alcohols via Nucleophilic 5-*endo-trig* Cyclisation: Synthesis of 3-Fluorinated Furan Derivatives,” *Chem. Commun.*, **54**, 12938–12941 (2018). Highlighted as **Back Cover Picture**: *Chem. Commun.*, **54**, 12938 (2018).
- 10) T. Fujita, N. Konno, Y. Watabe, T. Ichitsuka, A. Nagaki, J. Yoshida, J. Ichikawa, “Flash Generation and Borylation of 1-(Trifluoromethyl)vinyllithium toward Synthesis of α-(Trifluoromethyl)styrenes,” *J. Fluorine Chem.*, **207**, 72–76 (2018).
- 11) T. Fujita, R. Kinoshita, T. Takanohashi, N. Suzuki, J. Ichikawa, “Ring-size-selective construction of fluorine-containing carbocycles via intramolecular iodoarylation of 1,1-difluoro-1-alkenes,” *Beilstein, J. Org. Chem.*, **13**, 2682–2689 (2017).
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- 21) T. Fujita, T. Arita, T. Ichitsuka, J. Ichikawa, "Catalytic Defluorinative [3 + 2] Cycloaddition of Trifluoromethylalkenes with Alkynes via Reduction of Nickel(II) Fluoride Species," *Dalton Trans.*, **44**, 19460–19463 (2015).
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- 23) T. Ichitsuka, T. Fujita, J. Ichikawa, "Nickel-Catalyzed Allylic C(sp<sup>3</sup>)–F Bond Activation of Trifluoromethyl Groups via Fluorine Elimination: Synthesis of Difluoro-1,4-dienes," *ACS Catal.*, **5**, 5947–5950 (2015).
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- 28) T. Fujita, M. Ikeda, M. Hattori, K. Sakoda, J. Ichikawa, “Nucleophilic 5-*endo-trig* Cyclization of 3,3-Difluoroallylic Metal Enolates and Enamides: Facile Synthesis of Ring-Fluorinated Dihydroheteroles,” *Synthesis*, **46**, 1493–1505 (2014).
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- 33) T. Fujita, Y. Matsuo, E. Nakamura, “Synthesis of Tetradeca- and Pentadeca(organo)-[60]fullerenes Containing Unique Photo- and Electroluminescent  $\pi$ -Conjugated Systems,” *Chem. Mater.*, **24**, 3972–3980 (2012).
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- 35) T. Fujita, T. Ichitsuka, K. Fuchibe, J. Ichikawa, “Facile Synthesis of  $\beta,\beta$ -Difluorostyrenes via the Negishi Coupling of Thermally Stable 2,2-Difluorovinyl Zinc–TMEDA Complex,” *Chem. Lett.*, **40**, 986–988 (2011).
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- 38) I. Paterson, G. J. Naylor, T. Fujita, E. Guzmán, A. E. Wright, "Total Synthesis of a Library of Designed Hybrids of the Microtubule-Stabilising Anticancer Agents Taxol, Discodermolide and Dictyostatin," *Chem. Commun.*, **46**, 261–263 (2010).
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#### <Reviews/Books>

- 1) 渕辺耕平, 藤田健志, 市川淳士, 「有機半導体材料としてのピンポイントフッ素化PAH」月刊『化学工業』「特集／フッ素化学による新技術開発」, 化学工業社, 2019年8月号, pp 48–55.
- 2) T. Fujita, K. Fuchibe, J. Ichikawa, "Transition Metal-Mediated and -Catalyzed C–F Bond Activation via Fluorine Elimination," *Angew. Chem. Int. Ed.*, **58**, 390–402 (2019).
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- 6) 藤田健志, 市川淳士, 「フッ素化学入門 2015 – フッ素化合物の合成法」, 三共出版, pp 112–115, 172–175, 178–181, 193–199 (2015).
- 7) T. Fujita, J. Ichikawa, "Syntheses, Properties, and Applications of Fluorinated Isoquinolines"

in “Fluorine in Heterocyclic Chemistry Volume 2,” V. Nenajdenko Ed., Springer, pp 181–210 (2014).

**<Commentary>**

- 1) 藤田健志, 「フッ素に“+”が乗った!?’ 月刊『化学』「2013 年の化学: 注目の論文」, 化学同人, 2014 年 3 月号, pp 62–63.

**<Patents>**

- 1) 市川淳士, 藤田健志, 高橋一光, 「1, 1, 1, 3, 3, 3-ヘキサフルオロプロパン-2-オールと脂肪族炭化水素系溶媒を用いた二相系反応媒体」, 特開 2018-145123 (2018).
- 2) 中村栄一, 松尾豊, 藤田健志, 「単分子トランジスタおよび単分子トランジスタに用いるフラーレン誘導体」, 特開 2008-288421 (2008).