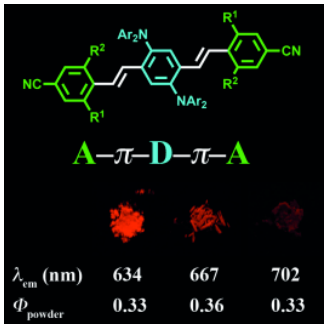
List of Publications

Youhei Takeda

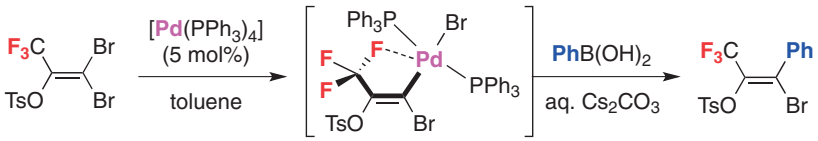
As of March 31, 2012

Original Papers

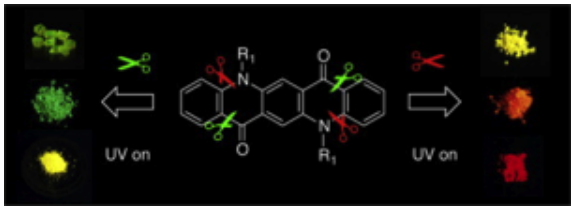
1. "1,4-Bis(diarylamino)-2,5-bis(4-cyanophenylethenyl)benzenes: Fluorophores Exhibiting Efficient Red and Near-Infrared Emissions in Solid State"
   Shimizu, M.; Kaki, R.; Takeda, Y.; Hiyama, T.; Nagai, N.; Yamagishi, H.; Furutani, H.
   Angew. Chem., Int. Ed. **2012**, *Early View* [DOI: 10.1002/anie.201108943]
   http://onlinelibrary.wiley.com/doi/10.1002/anie.201108943/abstract



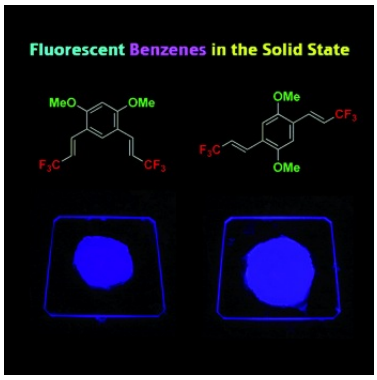
2. "Mechanistic Study on the Palladium-catalyzed Stereoselective Cross-coupling Reaction of 1,1-Dibromo-3,3,3-trifluoro-2-tosyloxypropene"
   Shimizu, M.; Takeda, Y.; Hiyama, T.
   Bull. Chem. Soc. Jpn. **2011**, *12*, 1339–1341. [DOI: 10.1246/bcsj.20110240]
   http://www.jstage.jst.go.jp/article/bcsj/advpub/0/advpub_1111210383/_article
   BCSJ "*Selected Papers*" of the issue (December, 2011).



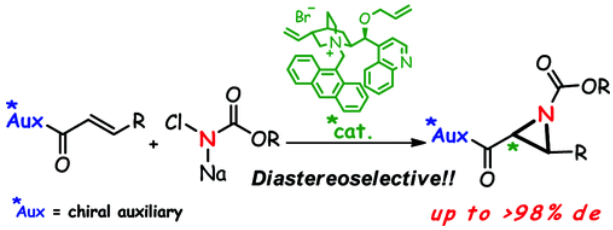
3. "Twisting Strategy Applied to *N*,*N*-Diorganoquinacridones Leads to Organic Chromophores Exhibiting Efficient Solid-state Fluorescence"
   Shimizu, M.; Asai, Y.; Takeda, Y.; Yamatani, A.; Hiyama, T.
   Tetrahedron Lett. **2011**, *52*, 4084–4089. [DOI: 10.1016/j.tetlet.2011.05.087]
   http://www.sciencedirect.com/science/article/pii/S004040391100846X



4. “Synthesis and Photophysical Properties of Dimethoxybis(3,3,3-trifluoropropen-1-yl)benzenes: Compact Chromophores Exhibiting Violet Fluorescence in the Solid State”
Shimizu, M.; Takeda, Y.; Higashi, M.; Hiyama, T.
Chem. Asian. J. **2011**, *6*, 2536–2544. [DOI: 10.1002/asia.201100176]
http://onlinelibrary.wiley.com/doi/10.1002/asia.201100176/abstract



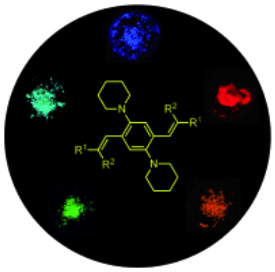
5. “Diastereoselective Aziridination of Chiral Electron-deficient Olefins with *N*-Chloro-*N*-sodio-carbamates Catalyzed by Chiral Quaternary Ammonium Salts”
Murakami, Y.; Takeda, Y.; Minakata, S.
J. Org. Chem. **2011**, *76*, 6277–6285. [DOI: 10.1021/jo2010632]
http://pubs.acs.org/doi/abs/10.1021/jo2010632



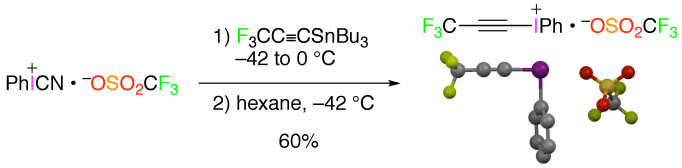
6. “Generation of Nitrile Oxides from Oximes Using *t*-BuOI and Their Cycloaddition”
Minakata, S.; Okumura, S.; Nagamachi, T.; Takeda, Y.
Org. Lett. **2011**, *13*, 2966–2969. [DOI: 10.1021/ol2010616]
http://pubs.acs.org/doi/abs/10.1021/ol2010616
Ranked in *“the top 20 most downloaded articles”* of May 2011.

7. “New Preparation and Synthetic Reactions of 3,3,3-Trifluoropropynyllithium, -borate and -stannane: Facile Synthesis of Trifluoromethylated Allenes, Arylacetylenes and Enynes”
Shimizu, M.; Higashi, M.; Takeda, Y.; Murai, M.; Jiang, G.; Asai, Y.; Nakao, Y.; Shirakawa, E.; Hiyama, T.
Future Med. Chem. **2009**, *1*, 921–945. [DOI: 10.4155/fmc.09.69]
http://www.future-science.com/doi/abs/10.4155/fmc.09.69

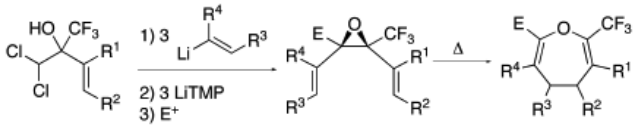
8. “1,4-Bis(alkenyl)-2,5-dipiperidinobenzenes: Minimal Fluorophores Exhibiting Highly Efficient Emission in the Solid State”
   Shimizu, M.; Takeda, Y.; Higashi, M.; Hiyama, T.
   Angew. Chem., Int. Ed. **2009**, *48*, 3653–3656. [DOI: 10.1002/anie.200900963]
   http://onlinelibrary.wiley.com/doi/10.1002/anie.200900963/abstract
   Highlighted in “*Noteworthy Chemistry*” May 4, 2009.
   Highlighted in *Synfacts* **2009**, 734.
   Highlighted in *Biotechnol. J.* **2009**, *4*, 791–792.



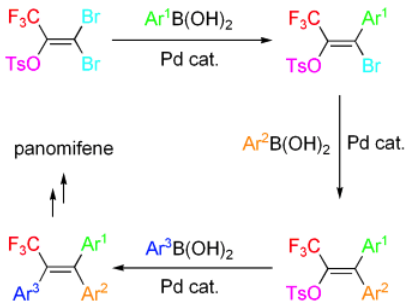
9. “Preparation, Structure, and Diels–Alder Reaction of Phenyl(trifluoromethanesulfonate)-(3,3,3-trifluoropropynyl)-λ^3-iodane”
   Shimizu, M.; Takeda, Y.; Hiyama, T.
   Chem. Lett. **2008**, *37*, 1304–1305. [DOI: 10.1246/cl.2008.1304]
   http://www.jstage.jst.go.jp/article/cl/37/12/37_1304/_article



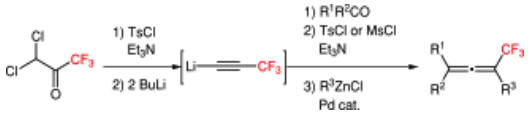
10. “Stereoselective Preparation and Cope Rearrangement of 2-CF_3-*Cis*-2,3-bis(alkenyl)oxiranes: A Facile Route to 2-CF_3-Substituted Oxacycles”
    Shimizu, M.; Fujimoto, T.; Liu, X.; Takeda, Y.; Hiyama, T.
    Heterocycles **2008**, *76*, 329–351. [DOI: 10.3987/COM-08-S(N)13]
    http://www.heterocycles.jp/library/abstract.php?article=3162



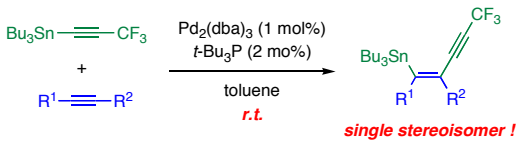
11. “Straightforward Synthesis of CF_3-Substituted Triarylethenes by Stereoselective Threefold Cross-coupling Reactions”
    Takeda, Y.; Shimizu, M.; Hiyama, T.
    Angew. Chem., Int. Ed. **2007**, *46*, 8659–8661. [DOI: 10.1002/anie.200703759]
    http://onlinelibrary.wiley.com/doi/10.1002/anie.200703759/abstract
    Highlighted in *Synfacts* **2008**, 172.



12. "Novel Generation of 3,3,3-Trifluoropropynyllithium and Transformation of the Carbonyl Adducts to Trifluoromethyl-substituted Allenes"
    Shimizu, M.; Higashi, M.; Takeda, Y.; Jiang, G.; Murai, M.; Hiyama, T.
    Synlett **2007**, 1163–1165. [DOI: 10.1055/s-2007-977422]
    https://www.thieme-connect.com/ejournals/abstract/synlett/doi/10.1055/s-2007-977422



13. "Facile Synthesis of Trifluoromethyl-substituted Enynes: Remarkable Reactivity and Stereoselectivity of Tributyl(3,3,3-trifluoropropynyl)stannane in Carbostannylation of Alkynes"
    Shimizu, M.; Jiang, G.; Murai, M.; Takeda, Y.; Nakao, Y.; Hiyama, T.; Shirakawa, E.
    Chem. Lett. **2005**, *34*, 1700–1701. [DOI: 10.1246/cl.2005.1700]
    http://www.jstage.jst.go.jp/article/cl/34/12/34_1700/_article



Conference Proceedings

1. "Design and Synthesis of Highly Emissive Solid Fluorophores"
   Shimizu, M.; Mochida, K.; Takeda, Y.; Asai, Y.; Hiyama, T.
   Proceedings of SPIE **2009**, *7415*, 74151G. [DOI: 10.1117/12.825442]
   http://spiedigitallibrary.org/proceedings/resource/2/psisdg/7415/1/74151G_1

Patents

1. "Compositions, Methods, and Systems Comprising Fluorous-soluble Polymers"
   Swager, T. M.; Lim, J.; Takeda, Y. U.S. Pat. Appl. Serial No.: 13/213,647 (08/19/2011)

Books

1. "Heterocyclic Reagents Containing Nitrogen-Halogen Bond: Recent Applications"
   Minakata, S.; Takeda, Y.; Hayakawa J.
   Halogenated Heterocycles: Synthesis, Application and Environment, Topics in Heterocyclic Chemistry Series, Vol. 27; Iskra, J. Ed.; Springer: Berlin, 2012.

Contribution Articles

1. “マルコフニコフ則を覆す？！～逐次的触媒反応によるアルケンの位置選択的水和反応～”
   Takeda, Y. *Kagaku* **2012**, *67*(1), 65.
2. “Cheap Precursor for Arynes”
   Swager, T. M.; Takeda, Y. *Synfacts* **2011**, 154. [DOI: 10.1055/s-0030-1259251]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1259251
3. “Perfluorobenzene Captures Fullerene”
   Swager, T. M.; Takeda, Y. *Synfacts* **2011**, 148. [DOI: 10.1055/s-0030-1259252]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1259252
4. “A New Method for Hypersilyl Aromatic Compounds”
   Swager, T. M.; Takeda, Y. *Synfacts* **2011**, 34. [DOI: 10.1055/s-0030-1259153]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1259153
5. “A Versatile Synthetic Method for Silaindenes”
   Swager, T. M.; Takeda, Y. *Synfacts* **2011**, 31. [DOI: 10.1055/s-0030-1259152]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1259152
6. “A New Functionalization Method of SWCNTs through Cycloaddition”
   Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1361. [DOI: 10.1055/s-0030-1258936]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258936
7. “Highly Selective Synthesis of Dibenzo[*a*,*c*]cyclooctatetraenes”
   Swager, T. M.; Takeda, Y. *Syntfacts* **2010**, 1360. [DOI: 10.1055/s-0030-1258937]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258937
8. “Swollen-up Molecules by Fragmentation”
   Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1246. [DOI: 10.1055/s-0030-1258734]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258734
9. “Interplay of Heteroatoms”
   Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1241. [DOI: 10.1055/s-0030-1258735]
   https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258735
10. “Renaissance of Diels-Alder Reaction of Borylalkenes”
    Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1140. [DOI: 10.1055/s-0030-1258629]
    https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258629
11. “Break Symmetry, and Get Benefits”
    Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1137. [DOI: 10.1055/s-0030-1258640]
    https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1258640
12. “Low Band Gap Polymers Having Multi-Fused Heterocycles”
    Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1010. [DOI: 10.1055/s-0030-1257923]
    https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1257923
13. “Electrical Stimuli Induced Reversible Self-Assembly”
    Swager, T. M.; Takeda, Y. *Synfacts* **2010**, 1009. [DOI: 10.1055/s-0030-1257917]
    https://www.thieme-connect.com/ejournals/abstract/synfacts/doi/10.1055/s-0030-1257917