

List of Publications (Heejin Kim)

(26) A Catalyst-Free Flow Amination of Functional Organolithium Reagents

Kim, H.; Yonekura, Y.; Yoshida, J.

Angew. Chem. Int. Ed. **2018**, *57*, in press.

(25) Very Fast Reactions and Extreme Conditions (Chapter 7)

Kim, H.; Yoshida, J.

Science of Synthesis: Flow Chemistry in Organic Synthesis, Thieme, **2018**, in press.

(24) Control of Tandem Isomerizations: Flow-Assisted Reactions of *o*-Lithiated Aryl Benzyl Ethers

Lee, H. -J.; Kim, H.; Yoshida, J.; Kim, D. -P.

Chem. Commun. **2018**, *54*, 547–550.

(23) “Impossible” Chemistries Based on Flow and Micro

Yoshida, J.; Kim, H.; Nagaki, A.

J. Flow. Chem. **2017**, *7*, 60–64.

(22) フローマイクロリアクターの化学業界の動向

Kim, H.; Nagaki, A.; Yoshida, J.

「フローマイクロ合成の実用化への展望」シーエムシー出版, **2017**, 206–210.

(21) Harnessing [1,4]-, [1,5]-, and [1,6]-Anionic Fries-type Rearrangements by Reaction Time Control in Flow

Kim, H.; Inoue, K.; Yoshida, J.

Angew. Chem. Int. Ed. **2017**, *56*, 7863–7866.

Selected as Very Important Paper (VIP)

Highlighted in Chemistry Views Highlight (<http://www.chemistryviews.org/>)

Highlighted in Synfacts. (*Synfacts* **2017**, *13*, 856.)

(20) Submillisecond Organic Synthesis: Outpacing Fries Rearrangement through Microfluidic Rapid Mixing

Kim, H.; Min, K. -I; Inoue, K.; Im, D. J.; Kim, D. -P.; Yoshida, J.

Science, **2016**, 352, 691–694.

Highlighted in Newspapers (*Nikkan Kogyo Shimbun, Nanotech Japan, SJN News, Herald corp, Yonhapnews, BBS News, Edaily, Hankookilbo, Dongailbo, News-one, IT News, etc*)

Highlighted in TV News (*YTN Science, Korea*

http://science.ytn.co.kr/program/program_view.php?s_mcd=0082&s_hcd=&key=201605091108421171)

Highlighted in Kyoto University News

(*http://www.kyoto-u.ac.jp/en/research/research_results/2016/160506_1.html*)

Highlighted in Science Japan (*<http://sciencemag.jp/science>*)

Highlighted in Chem-Station (*<http://www.chem-station.com/blog/2016/06/micro-flow-reactor2.html>*)

Highlighted in Angew. Chem. Int. Ed. (*Angew. Chem. Int. Ed.* **2016**, ASAP)

Highlighted in Japanese Scientists in Science 2016

Candidate for ‘The Top 10 Science News 2016 in Korea’

(19) Multilayered film microreactors fabricated by one-step thermal bonding technique with high reproducibility and their applications

Min, K. -I; Kim, J. -O; Kim, H.; Im, D. J.; Kim, D. -P.

Lab Chip **2016**, 16, 977–983.

Selected as Cover Picture.

(18) Flow-Assisted Synthesis of [10]Cycloparaphenylene through Serial Microreactions under Mild Conditions

Kim, H.; Lee, H. -J.; Kim, D. -P.

Angew. Chem. Int. Ed. **2016**, 55, 1422–1426.

Selected as Cover Picture.

(17) マイクロ流路を利用した空間的反応集積化

Yoshida, J.; Kim, H.; Nagaki, A.

化学と工業, **2016**, *69*, 117–119.

(16) フラッシュケミストリー フラスコではできない合成化学をめざして

Yoshida, J.; Nagaki, A.; Kim, H.; Ichinari, D.

Kagaku, **2015**, *70*, 19–24.

(15) Integrated One-Flow Synthesis of Heterocyclic Thioquinazolinones via Serial Microreactions of Two Organolithium Intermediates

Kim, H.; Lee, H. –J.; Kim, D. –P.

Angew. Chem. Int. Ed. **2015**, *54*, 1877.

(14) A Monolithic and Flexible Fluoropolymer Film Microreactor for Organic Synthesis Applications

Kim, J. –O.; Kim, H.; Ko, D. –H.; Min, K. –I.; Im, D. J.; Park, S.; Kim, D. –P.

Lab on a Chip. **2014**, *14*, 4270.

(13) Pressure-tolerant Polymer Microfluidic Device Fabricated by Simultaneous Solidification-Bonding Method and Flash Chemistry Application

Ren, W.; Kim, H.; Lee, H. –J.; Wang, J.; Wang, H.; Kim, D. –P.

Lab on a Chip. **2014**, *14*, 4263.

(12) Desktop Chemical Factory

Kim, D. –P.; Kim, K. –R.; Kim, H.

Encyclopedia of Microfluidics and Nanofluidics (Springer Science & Business Media, New-York, **2014**)

(11) Synthesis of Functionalized Aryl Fluorides Using Organolithium Chemistry in Flow Microreactors

Nagaki, A.; Uesugi, Y.; Kim, H.; Yoshida, J.

Chem. Asian J. **2013**, *8*, 705.

(10) Functionalization of Organotrifluoroborates via Cu-Catalyzed C–N Coupling Reaction

Lee, J. –H.; Kim, H.; Kim, T.; Song, J. H.; Kim, W. –S.; Ham, J.

Bull. Korean Chem. Soc. **2012**, *34*, 42.

(09) Anti-Human Rhinoviral Activity of Polybromocatechol Compounds Isolated from the Rhodophyta, *Neorhodomela aculeata*

Park S. –H.; Song, J. –H.; Kim, T.; Shin, W. –S.; Park, G. M.; Lee, S.; Kim, Y. –J.; Choi, P.; Kim, H.; Kim, H. –S.; Kwon, D. –H.; Choi, H. J.; Ham, J.

Marine Drugs **2012**, *10*, 2222.

(08) Flash Synthesis of TAC-101 and Its Analogues from 1,3,5-Tribromobenzene Using Integrated Flow Microreactor Systems

Nagaki, A.; Imai, K.; Kim, H.; Yoshida, J.

RSC Adv. **2011**, *1*, 758.

(07) A Flow-Microreactor Approach to Protecting-Group-Free Synthesis Using Organolithium Compounds

Kim, H.; Nagaki, A.; Yoshida, J.

Nature Commun. **2011**, *2*, 264.

Highlighted in Nature Asia

(<http://www.natureasia.com/ja-jp/ncomms/abstracts/35028>)

Highlighted in Kyoto University News

(http://www.kyoto-u.ac.jp/static/ja/news_data/h/h1/news6/2011/110530_1.htm)

(06) Green and Sustainable Chemical Synthesis Using Flow Microreactors

Yoshida, J.; Kim, H.; Nagaki, A.

ChemSusChem **2011**, *4*, 331.

Selected as Cover Picture.

(05) A Flow Microreactor System Enables Organolithium Reactions without Protecting Alkoxy carbonyl Groups

Nagaki, A.; Kim, H.; Moriwaki, Y.; Matsuo, C.; Yoshida, J.

Chem. Eur. J. **2010**, *16*, 11167.

(04) Generation and Reaction of Cyano-Substituted Aryllithium Compounds Using Microreactors

Nagaki, A.; Kim, H.; Usutani, H.; Matsuo, C.; Yoshida, J.

Org. Biomol. Chem. **2010**, *8*, 1212.

Highlighted in Synfacts. (Synfacts 2010, 6, 582.)

(03) Nitro-Substituted Aryl Lithium Compounds in Microreactor Synthesis: Switch between Kinetic and Thermodynamic Control

Nagaki, A.; Kim, H.; Yoshida, J.

Angew. Chem. Int. Ed. **2009**, *48*, 8063.

(02) Aryllithium Compounds Bearing Alkoxy carbonyl Groups. Generation and Reactions Using a Microflow System

Nagaki, A.; Kim, H.; Yoshida, J.

Angew. Chem. Int. Ed. **2008**, *47*, 7833.

(01) Integrated Micro Flow Synthesis Based on Sequential Br–Li Exchange Reactions of *p*-, *m*-, and *o*-Dibromobenzenes

Nagaki, A.; Tomida, Y.; Usutani, H.; Kim, H.; Takabayashi, N.; Nokami, T.; Okamoto, H.; Yoshida, J.

Chem. Asian J. **2007**, *2*, 1513.

Awards

- Student Presentation Award from the Chemical Society of Japan. **2010**
- Student Poster Award from the International Symposium on Integrated Synthesis. **2010**

· Poster Award from the Chemical Society of Korea. **2017**