

## Reaction plus publication list

<p>"Cation-Stitching Cascade": exquisite control of terpene cyclization in cyclooctatin biosynthesis Hajime Sato, Kazuya Teramoto, Yui Masumoto, Noriyuki Tezuka, Kenta Sakai, Shota Ueda, Yusuke Totsuka, Tetsuro Shinada, Makoto Nishiyama, Chao Wang, Tomohisa Kuzuyama, &amp; Masanobu Uchiyama Sci. Rep. 2015, 5, 18471. (DOI: 10.1038/srep18471) <a href="https://www.youtube.com/watch?v=ugoGN1zLrM">https://www.youtube.com/watch?v=ugoGN1zLrM</a></p>
<p>DFT Studies on the Mechanism of the Iridium-Catalyzed Formal [4 + 1] Cycloaddition of Biphenylene with Alkenes Hideaki Takano, Natsuhiko Sugimura, Kyalo Stephen Kanyiva, &amp; Takanori Shibata ACS Omega 2017, 2, 5228. (DOI: 10.1021/acsomega.7b00403)</p>
<p>Acid-Mediated Migration of Bromide in an Antiaromatic Porphyrinoid: Preparation of Two Regioisomeric Ni(II) Bromonorcorroles Hiroyuki Kawashima, Satoru Hiroto, &amp; Hiroshi Shinokubo J. Org. Chem. 2017, 82, 10425. (DOI: 10.1021/acs.joc.7b01899)</p>
<p>Shaping Antiaromatic pi-Systems by Metalation: Synthesis of a Bowl-Shaped Antiaromatic Palladium Norcorrole Tsubasa Yonezawa, Siham A. Shafie, Satoru Hiroto, &amp; Hiroshi Shinokubo Angew. Chem. Int. Ed. 2017, 56, 11822. (DOI: 10.1002/anie.201706134)</p>
<p>Nudged elastic band method and density functional theory calculation for finding a local minimum energy pathway of p-benzoquinone and phenol fragmentation in mass spectrometry Natsuhiko Sugimura, Yoko Igarashi, Reiko Aoyama, &amp; Toshimichi Shibue Eur. J. Mass Spectrom. 2017, 23, 40. (DOI: 10.1177/1469066716688412)</p>
<p>Energy-decomposition analysis of ion-neutral complexes along reaction coordinates of unimolecular proton-transfer reaction in gas phase: Comparison between 2-butanol radical ion and protonated 2-ethoxypropane ion Natsuhiko Sugimura, Yoko Igarashi, Reiko Aoyama, &amp; Toshimichi Shibue Chem. Phys. Lett. 2017, 686, 124. (DOI: 10.1016/j.cplett.2017.08.048)</p>
<p>Theoretical study of charge-remote fragmentation along the reaction coordinate of 1,4-hydrogen elimination in the gas-phase: Energy barrier and mechanism Natsuhiko Sugimura, Yoko Igarashi, Reiko Aoyama, &amp; Toshimichi Shibue Chem. Phys. Lett. 2018, 691, 336. (DOI: 10.1016/j.cplett.2017.11.024)</p>
<p>Computational Studies on Biosynthetic Carbocation Rearrangements leading to Quiannulatene: Initial Conformation Regulates Biosynthetic Route, Stereochemistry, and Type of Skeleton Hajime Sato, Takaaki Mitsuhashi, Mami Yamazaki, Ikuro Abe, &amp; Masanobu Uchiyama Angew. Chem. Int. Ed. 2018, 130, 14968. (DOI: 10.1038/s41598-018-20916-x)</p>
<p>Theoretical Study of Sesterfisherol Biosynthesis: Computational Prediction of Key Amino Acid Residue in Terpene Synthase. Hajime Sato, Koji Narita, Atsushi Minami, Mami Yamazaki, Chao Wang, Hironori Suemune, Shingo Nagano, Takeo Tomita, Hideaki Oikawa, &amp; Masanobu Uchiyama Sci. Rep. 2018, 8, 2473. (DOI: 10.1002/anie.201807139)</p>
<p>Theoretical Molecular Design of Hexasilabenzene Analogues Aiming for the Thermodynamic and Kinetic Stabilization Taiji Nakamura &amp; Takako Kudo Comput. Theor. Chem. 2018, 1123, 61. (DOI: 10.1016/j.comptc.2017.11.008)</p>
<p>Synthesis and Structure of a Stable Bis(methylene)-lambda4-sulfane Koh Sugamata, Daisuke Hashizume, Yuko Suzuki, Takahiro Sasamata, &amp; Shigeru Ishii Chem. Eur. J. 2018, 24, 6922 (DOI: 10.1002/chem.201800828)</p>
<p>Construction of a pentacyclic ring system of isoryanodane diterpenoids by SmI2-mediated transannular cyclization Masaki Koshimizu, Masanori Nagatomo, &amp; Masayuki Inoue Tetrahedron 2018, 74, 3384. (DOI: 10.1016/j.tet.2018.03.061)</p>
<p>Convergent Total Synthesis of Asimicin via Decarbonylative Radical Dimerization Takahiro Kawamata, Akinori Yamaguchi, Masanori Nagatomo, &amp; Masayuki Inoue Chem. Eur. J. 2018, 24, 18907. (DOI: 10.1002/chem.201805317)</p>
<p>Convergent Synthesis of Taxol Skeleton via Decarbonylative Radical Coupling Reaction Hiroaki Matoba, Takahiro Watanabe, Masanori Nagatomo, &amp; Masayuki Inoue Org. Lett. 2018, 20, 7554. (DOI: 10.1021/acs.orglett.8b03302)</p>
<p>Physicochemical Prediction of Metabolite Fragmentation in Tandem Mass Spectrometry Wataru Tanaka &amp; Masanori Arita Mass Spectrom. (Tokyo) 2018, 7, A0066 (DOI: 10.5702/massspectrometry. A0066)</p>
<p>1,2-Diazacyclopentane-3,5-diyl Diradicals: Electronic Structure and Reactivity Shohei Yoshidomi &amp; Manabu Abe J. Am. Chem. Soc. 2019, 141, 3920. (DOI: 10.1021/jacs.8b12254)</p>
<p>Ni(II) 10-Phosphacorrole: A Porphyrin Analogue Containing Phosphorus at the Meso Position Hiroto Omori, Satoru Hiroto, Youhei Takeda, Heike Fliegl, Satoshi Minakata, &amp; Hiroshi Shinokubo J. Am. Chem. Soc. 2019, 141, 4800. (DOI: 10.1021/jacs.8b13169)</p>
<p>Iron-Catalyzed Cross Coupling of Aryl Chlorides with Alkyl Grignard Reagents: Synthetic Scope and Fe(II)/Fe(IV) Mechanism Supported by X-ray Absorption Spectroscopy and Density Functional Theory Calculations Ryosuke Agata, Hikaru Takaya, Hiroshi Matsuda, Naoki Nakatani, Katsuhiko Takeuchi, Takahiro Iwamoto, Takuji Hatakeyama, &amp; Masaharu Nakamura Bull. Chem. Soc. Jpn. 2019, 92, 381. (DOI: 10.1246/bcsj.20180333)</p>
<p>Highly Planar and Completely Insulated Oligothiophenes: Effects of pi-Conjugation on Hopping Charge Transport Yutaka Ie, Yuji Okamoto, Takuya Inoue, Saori Tone, Takuji Seo, Yasushi Honda, Shoji Tanaka, See Kei Lee, Tatsuhiko Ohto, Ryo Yamada, Hirokazu Tada, &amp; Yoshio Aso J. Phys. Chem. Lett. 2019, 10, 3197. (DOI: 10.1021/acs.jpcllett.9b00747)</p>
<p>Brønsted Acid-Initiated Formal [1,3]-Rearrangement Dictated by beta-Substituted Ene-Aldimines Chanantida Jongwohan, Yasushi Honda, Toshiyasu Suzuki, Takeshi Fujinami, Kiyohiro Adachi, &amp; Norie Momiyama Org. Lett. 2019, 21, 4991. (DOI: 10.1021/acs.orglett.9b01533)</p>