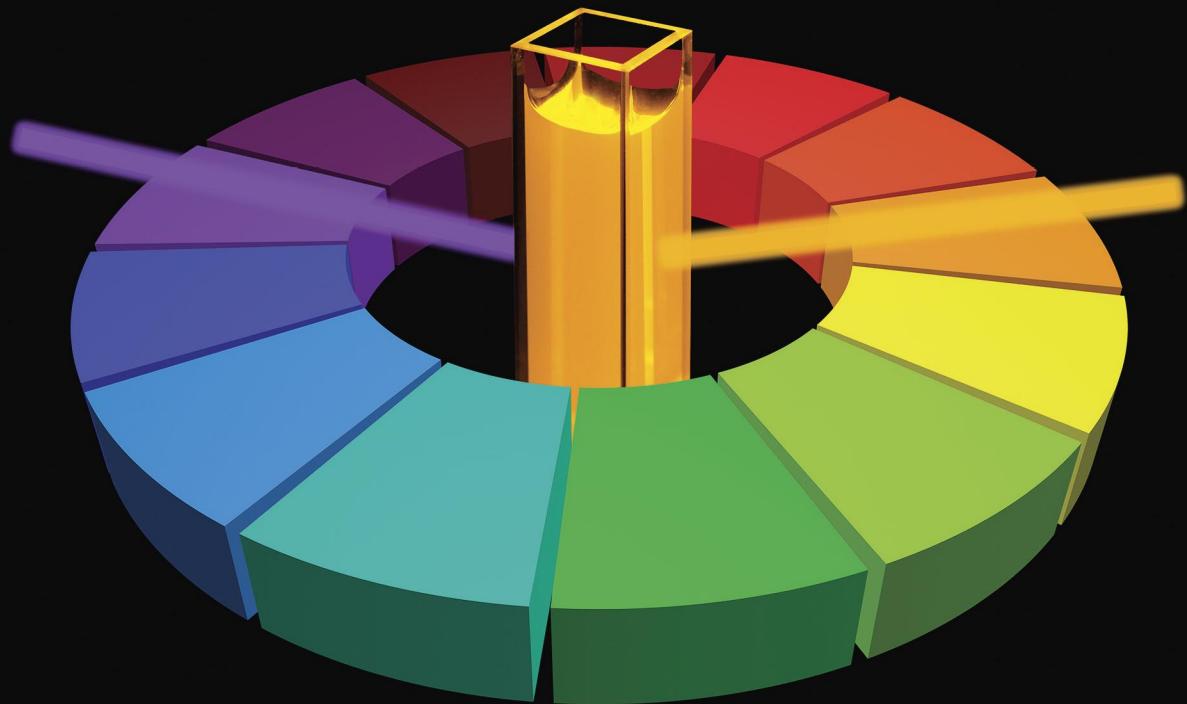
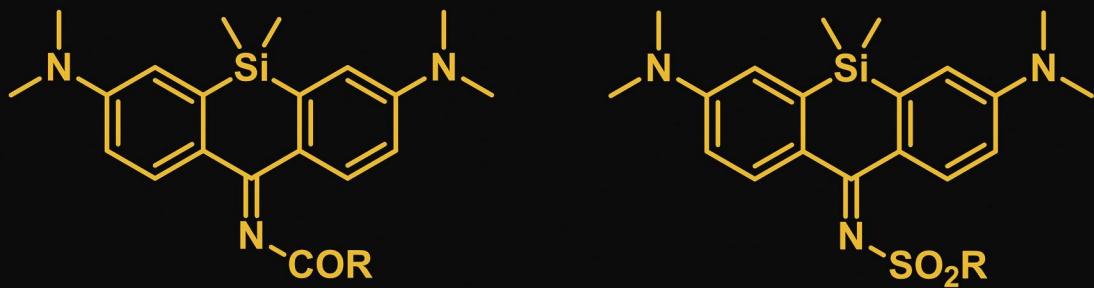


# JOC

*The Journal of Organic Chemistry*

FEBRUARY 6, 2015 VOLUME 80, NUMBER 3 [pubs.acs.org/joc](http://pubs.acs.org/joc)



ACS Publications  
Most Trusted. Most Cited. Most Read.

[www.acs.org](http://www.acs.org)

February 6, 2015 Volume 80, Issue 3 Pages 1291-2036

## Content

### 1. High-Spin Organic Molecules

Nolan M. Gallagher, Arnon Olankitwanit, and Andrzej Rajca  
*The Journal of Organic Chemistry* 2015 80 (3), 1291-1298  
DOI: 10.1021/jo502505r

### 2. Small-Molecule Fluorophores with Large Stokes Shifts: 9-Iminopyronin Analogues as Clickable Tags

Peter Horváth, Peter Šebej, Tomáš Šolomek, and Petr Klán  
*The Journal of Organic Chemistry* 2015 80 (3), 1299-1311  
DOI: 10.1021/jo502213t

### 3. Salinipostins A–K, Long-Chain Bicyclic Phosphotriesters as a Potent and Selective Antimalarial Chemotype

Christopher J. Schulze, Gabriel Navarro, Daniel Ebert, Joseph DeRisi, and Roger G. Linington  
*The Journal of Organic Chemistry* 2015 80 (3), 1312-1320  
DOI: 10.1021/jo5024409

### 4. Why Are Organotin Hydride Reductions of Organic Halides So Frequently Retarded? Kinetic Studies, Analyses, and a Few Remedies

K. U. Ingold and Vincent W. Bowry  
*The Journal of Organic Chemistry* 2015 80 (3), 1321-1331  
DOI: 10.1021/jo502710a

### 5. Regioselective Oxidative Trifluoromethylation of Imidazoheterocycles via C(sp<sup>2</sup>)–H Bond Functionalization

Kamarul Monir, Avik Kumar Bagdi, Monoranjan Ghosh, and Alakananda Hajra  
*The Journal of Organic Chemistry* 2015 80 (3), 1332-1337  
DOI: 10.1021/jo502928e

### 6. “Catch-and-Release” of HNO with Pyrazolones

Daryl A. Guthrie, Anthony Ho, Cyrus G. Takahashi, Anthony Collins, Matthew Morris, and John P. Toscano  
*The Journal of Organic Chemistry* 2015 80 (3), 1338-1348  
DOI: 10.1021/jo502330w

### 7. Curtailing the Hydroxylaminobarbituric Acid–Hydantoin Rearrangement To Favor HNO Generation

Daryl A. Guthrie, Saghar Nourian, Cyrus G. Takahashi, and John P. Toscano  
*The Journal of Organic Chemistry* 2015 80 (3), 1349-1356  
DOI: 10.1021/jo5023316

### 8. Cu(II)-Promoted Methanolysis of N,N-Bis(2-picoly)carbamates: Rate-Limiting Metal Ion Delivery of Coordinated Alcoholate Nucleophile Followed by Fast Partitioning of a Tetrahedral Intermediate

Alexei A. Neverov, Luana Cimpean, Valerie Chiykowski, Tyler Vance, and R. Stan Brown  
*The Journal of Organic Chemistry* 2015 80 (3), 1357-1364  
DOI: 10.1021/jo5026496

### 9. Highly Stereocontrolled Synthesis of trans-2,6-Disubstituted-5-methyl-3,6-dihydropyrans: Stereoselective Synthesis of the Bicyclic Core of Penostatin B

D. Srinivas Reddy, Birakishore Padhi, and Debendra K. Mohapatra  
*The Journal of Organic Chemistry* 2015 80 (3), 1365-1374  
DOI: 10.1021/jo502101u

### 10. Rearrangement of Quinoxalin-2-ones When Exposed to Enamines Generated in Situ from Ketones and Ammonium Acetate: Method for the Synthesis of 1-(Pyrrolyl)benzimidazolones

Vakhid A. Mamedov, Nataliya A. Zhukova, Tat'yana N. Beschastnova, Victor V. Syakaev, Dmitry B. Krivolapov, Ekaterina V. Mironova, Anastasiya I. Zamaletdinova, Il'dar Kh. Rizvanov, and Shamil K. Latypov  
*The Journal of Organic Chemistry* 2015 80 (3), 1375-1386

DOI: 10.1021/jo502135d

**11. On the Reaction of Diaminocarbenes with Aroylimines**

Igor V. Shevchenko, Kostiantyn V. Turcheniuk, Andrey A. Kirilchuk, Jerzy Leszczynski, and Alexander B. Rozhenko

*The Journal of Organic Chemistry* 2015 80 (3), 1387-1394

DOI: 10.1021/jo502155j

**12. Planar Homotropenylum Cation: A Transition State with Reversed Aromaticity**

Christopher M. Gibson, Remco W. A. Havenith, Patrick W. Fowler, and Leonardus W. Jenneskens

*The Journal of Organic Chemistry* 2015 80 (3), 1395-1401

DOI: 10.1021/jo502179k

**13. Quinine-Derived Thiourea and Squaramide Catalyzed Conjugate Addition of  $\alpha$ -Nitrophosphonates to Enones: Asymmetric Synthesis of Quaternary  $\alpha$ -Aminophosphonates**

Kalisankar Bera and Irishi N. N. Namboothiri

*The Journal of Organic Chemistry* 2015 80 (3), 1402-1413

DOI: 10.1021/jo502332r

**14. Studies on the Formal [3 + 2] Cycloaddition of Aziridines with Alkenes for the Synthesis of 1-Azaspiroalkanes**

Elodie Martinand-Lurin, Raymond Gruber, Pascal Retailleau, Paul Fleurat-Lessard, and Philippe Dauban

*The Journal of Organic Chemistry* 2015 80 (3), 1414-1426

DOI: 10.1021/jo502333j

**15. Carbohydrate Receptors Combining Both a Macrocyclic Building Block and Flexible Side Arms as Recognition Units: Design, Syntheses, and Binding Studies**

Jan Lippe and Monika Mazik

*The Journal of Organic Chemistry* 2015 80 (3), 1427-1439

DOI: 10.1021/jo502335u

**16. Hydroxyamination of Olefins Using Br-N-(CO<sub>2</sub>Me)<sub>2</sub>**

Michael R. Kuszpit, Matthew B. Giletto, Corey L. Jones, Travis K. Bethel, and Jetze J. Tepe

*The Journal of Organic Chemistry* 2015 80 (3), 1440-1445

DOI: 10.1021/jo502369d

**17. Merging Asymmetric Henry Reaction with Organocatalytic Cascade Reaction for the Construction of a Chiral Indolizidine Alkaloid Skeleton**

Yirong Zhou, Qin Yang, Jian Shen, Xin Chen, Yiyuan Peng, and Yuefa Gong

*The Journal of Organic Chemistry* 2015 80 (3), 1446-1456

DOI: 10.1021/jo502379v

**18. Regioselective Direct C-3 Arylation of Imidazo[1,2-a]pyridines with Aryl Tosylates and Mesylates Promoted by Palladium–Phosphine Complexes**

Pui Ying Choy, Kwan Chak Luk, Yinuo Wu, Chau Ming So, Lai-lai Wang, and Fuk Yee Kwong

*The Journal of Organic Chemistry* 2015 80 (3), 1457-1463

DOI: 10.1021/jo502386w

**19. Synthesis of 4-Quinolones via a Carbonylative Sonogashira Cross-Coupling Using Molybdenum Hexacarbonyl as a CO Source**

Linda Åkerbladh, Patrik Nordeman, Matyas Wejdemark, Luke R. Odell, and Mats Larhed

*The Journal of Organic Chemistry* 2015 80 (3), 1464-1471

DOI: 10.1021/jo502400h

**20. Base-Mediated Cascade Rearrangements of Aryl-Substituted Diallyl Ethers**

Jolene P. Reid, Catherine A. McAdam, Adam J. S. Johnston, Matthew N. Grayson, Jonathan M. Goodman, and Matthew J. Cook

*The Journal of Organic Chemistry* 2015 80 (3), 1472-1498

DOI: 10.1021/jo502403n

**21. Propargyl 1,2-Orthoesters for a Catalytic and Stereoselective Synthesis of Pyrimidine Nucleosides**

Boddu Venkateswara Rao, Sujit Manmode, and Srinivas Hotha

*The Journal of Organic Chemistry* 2015 80 (3), 1499-1505

DOI: 10.1021/jo502413z

**22. Copper-Catalyzed C(sp<sup>3</sup>)-OH Cleavage with Concomitant C–C Coupling: Synthesis of 3-Substituted Isoindolinones**

H. Surya Prakash Rao and A. Veera Bhadra Rao

*The Journal of Organic Chemistry* 2015 80 (3), 1506-1516

DOI: 10.1021/jo502446k

**23. Pd-Catalyzed Direct C–H Bond Sulfenylation of Azobenzenes with Arylsulfonyl Chlorides**

Duo Zhang, Xiuling Cui, Qianqian Zhang, and Yangjie Wu  
*The Journal of Organic Chemistry* 2015 80 (3), 1517-1522

DOI: 10.1021/jo502451k

**24. Synthesis and Properties of the Strained Alkene Perfluorobicyclo[2.2.0]hex-1(4)-ene**

Christopher P. Junk, Yigang He, Yin Zhang, Joshua R. Smith, Rolf Gleiter, Steven R. Kass, Jerry P. Jasinski, and David M. Lemal  
*The Journal of Organic Chemistry* 2015 80 (3), 1523-1532

DOI: 10.1021/jo502456h

**25. Integrated Ugi-Based Assembly of Functionally, Skeletally, and Stereochemically Diverse 1,4-Benzodiazepin-2-ones**

Jhonny Azuaje, José M. Pérez-Rubio, Vicente Yaziji, Abdelaziz El Maatougui, José Carlos González-Gomez, Víctor M. Sánchez-Pedregal, Armando Navarro-Vázquez, Christian F. Masaguer, Marta Teijeira, and Eddy Sotelo  
*The Journal of Organic Chemistry* 2015 80 (3), 1533-1549

DOI: 10.1021/jo502382q

**26. Silver-Mediated Radical Cyclization of Alkynoates and  $\alpha$ -Keto Acids Leading to Coumarins via Cascade Double C–C Bond Formation**

Kelu Yan, Daoshan Yang, Wei Wei, Fen Wang, Yuanyuan Shuai, Qiannan Li, and Hua Wang  
*The Journal of Organic Chemistry* 2015 80 (3), 1550-1556

DOI: 10.1021/jo502474z

**27. Electronic vs Steric Effects on the Stability of Anionic Species: A Case Study on the Ortho and Para Regioisomers of Organofullerenes**

Wei-Wei Chang, Zong-Jun Li, Fa-Gui He, Tao Sun, and Xiang Gao  
*The Journal of Organic Chemistry* 2015 80 (3), 1557-1563

DOI: 10.1021/jo502475w

**28. Integrated Cross-Coupling Strategy for an  $\alpha$ -Carboline-Based Aurora B Kinase Inhibitor**

Masahiro Mineno, Misayo Sera, Tsuyoshi Ueda, Hideya Mizufune, Atsuhiko Zanka, Colin O'Bryan, Jason Brown, and Nick Scorah  
*The Journal of Organic Chemistry* 2015 80 (3), 1564-1568

DOI: 10.1021/jo502489x

**29. Stereoselective Synthesis of (+)-Loline Alkaloid Skeleton**

Kelsey E. Miller, Anthony J. Wright, Margaret K. Olesen, M. Todd Hovey, and Jonathan R. Scheerer  
*The Journal of Organic Chemistry* 2015 80 (3), 1569-1576

DOI: 10.1021/jo502493e

**30. Synthesis of gem-Difluoromethylenated Polycyclic Cage Compounds**

Chonticha Masusai, Darunee Soorukram, Chutima Kuhakarn, Patoomratana Tuchinda, Chaveng Pakawatchai, Saowanit Saithong, Vichai Reutrakul, and Manat Pohmakotr  
*The Journal of Organic Chemistry* 2015 80 (3), 1577-1592

DOI: 10.1021/jo502501v

**31. Metal-Free, One-Pot, Sequential Protocol for Transforming  $\alpha,\beta$ -Epoxy Ketones to  $\beta$ -Hydroxy Ketones and  $\alpha$ -Methylene Ketones**

Eietsu Hasegawa, Saki Arai, Eiji Tayama, and Hajime Iwamoto  
*The Journal of Organic Chemistry* 2015 80 (3), 1593-1600

DOI: 10.1021/jo5025249

**32. General Strategy for the Synthesis of B1 and L1 Prostanoids: Synthesis of Phytoprostanes (RS)-9-L1-PhytoP, (R)-9-L1-PhytoP, (RS)-16-B1-PhytoP, and (RS)-16-L1-PhytoP**

Ruggero Beretta, Mirko Giambelli Gallotti, Umberto Pennè, Alessio Porta, Juan Fernando Gil Romero, Giuseppe Zanoni, and Giovanni Vidari  
*The Journal of Organic Chemistry* 2015 80 (3), 1601-1609

DOI: 10.1021/jo502538b

**33. A Scalable, Nonenzymatic Synthesis of Highly Stereopure Difunctional C4 Secondary Methyl Linchpin Synthons**

Shekar Mekala and Roger C. Hahn

*The Journal of Organic Chemistry* 2015 80 (3), 1610-1617

DOI: 10.1021/jo5025392

**34. Conformational Flexibility of Fused Tetracenedione Propellers Obtained from One-Pot Reductive Dimerization of Acetylenic Quinones**

Sergei F. Vasilevsky, Denis S. Baranov, Victor I. Mamatyuk, Dmitry S. Fadeev, Yurii V. Gatilov, Aleksandr A. Stepanov, Nadezhda V. Vasilieva, and Igor V. Alabugin

*The Journal of Organic Chemistry* 2015 80 (3), 1618-1631

DOI: 10.1021/jo502543b

**35. TMSI-Promoted Vinylogous Michael Addition of Siloxyfuran to 2-Substituted Chromones: A General Approach for the Total Synthesis of Chromanone Lactone Natural Products**

Jie Liu, Zhanchao Li, Pei Tong, Zhixiang Xie, Yuan Zhang, and Ying Li

*The Journal of Organic Chemistry* 2015 80 (3), 1632-1643

DOI: 10.1021/jo502571r

**36. Copper(I)-Catalyzed Regioselective Amination of N-Aryl Imines Using TMSN<sub>3</sub> and TBHP: A Route to Substituted Benzimidazoles**

Devulapally Mahesh, Pradeep Sadhu, and Tharmalingam Punniyamurthy

*The Journal of Organic Chemistry* 2015 80 (3), 1644-1650

DOI: 10.1021/jo502574u

**37. Development of an Asymmetric Synthesis of a Chiral Quaternary FLAP Inhibitor**

Keith R. Fandrick, Jason A. Mulder, Nitinchandra D. Patel, Joe Gao, Michael Konrad, Elizabeth Archer, Frederic G. Buono, Adil Duran, Rolf Schmid, Juergen Daeubler, Jean-Nicolas Desrosiers, Xingzhong Zeng, Sonia Rodriguez, Shengli Ma, Bo Qu, Zhibin Li, Daniel R. Fandrick, Nelu Grinberg, Heewon Lee, Todd Bosanac, Hidenori Takahashi, Zhidong Chen, Alessandra Bartolozzi, Peter Nemoto, Carl A. Busacca, Jinhua J. Song, Nathan K. Yee, Paige E. Mahaney, and Chris H. Senanayake

*The Journal of Organic Chemistry* 2015 80 (3), 1651-1660

DOI: 10.1021/jo502550h

**38. The Effect of HSAB on Stereoselectivity: Copper- and Gold-Catalyzed 1,3-Phosphatyloxy and 1,3-Halogen Migration Relay to 1,3-Dienes**

Jingxing Jiang, Cheng Hou, Shidong Zhang, Zihong Luan, Cunyuan Zhao, and Zhuofeng Ke

*The Journal of Organic Chemistry* 2015 80 (3), 1661-1671

DOI: 10.1021/jo502600j

**39. Reduction of Functionalized Tertiary Phosphine Oxides with BH<sub>3</sub>**

Sylwia Sowa, Marek Stankevič, Anna Szmigierska, Hanna Małuszyńska, Anna E. Kozioł, and K. Michał Pietrusiewicz

*The Journal of Organic Chemistry* 2015 80 (3), 1672-1688

DOI: 10.1021/jo502623g

**40. Atropisomerism in Amidinoquinoxaline N-Oxides: Effect of the Ring Size and Substituents on the Enantiomerization Barriers**

Jimena E. Díaz, Nicolas Vanthuyne, Hélène Rispaud, Christian Roussel, Daniel Vega, and Liliana R. Orelli

*The Journal of Organic Chemistry* 2015 80 (3), 1689-1695

DOI: 10.1021/jo502626f

**41. Mechanistic Insights into the Vanadium-Catalyzed Achmatowicz Rearrangement of Furfurol**

Yining Ji, Tamas Benkovics, Gregory L. Beutner, Chris Sfouggatakis, Martin D. Eastgate, and Donna G. Blackmond

*The Journal of Organic Chemistry* 2015 80 (3), 1696-1702

DOI: 10.1021/jo502641d

**42. Dehydrative Thiolation of Allenols: Indium vs Gold Catalysis**

S. Webster, P. C. Young, G. Barker, G. M. Rosair, and A.-L. Lee

*The Journal of Organic Chemistry* 2015 80 (3), 1703-1718

DOI: 10.1021/jo502648w

**43. Scalable, Chromatography-Free Synthesis of Alkyl-Tethered Pyrene-Based Materials. Application to First-Generation “Archipelago Model” Asphaltene Compounds**

Colin Diner, David E. Scott, Rik R. Tykwinski, Murray R. Gray, and Jeffrey M. Stryker

*The Journal of Organic Chemistry* 2015 80 (3), 1719-1726

DOI: 10.1021/jo502650m

**44. N-Heterocyclic Carbene-Catalyzed Diastereoselective and Enantioselective Reaction of 2-Aroylvinylcinnamaldehydes with  $\alpha,\beta$ -Unsaturated Imines: Complete Control and Switch of Diastereoselectivity by N-Substituents of Catalysts**

Zi-Tian Wang, Yuan Zhao, Zhan-Yong Wang, and Ying Cheng  
*The Journal of Organic Chemistry* 2015 80 (3), 1727-1734  
DOI: 10.1021/jo502668c

**45. Enantioselective Approach to Polycyclic Polyprenylated Acylphloroglucinols via Catalytic Asymmetric Intramolecular Cyclopropanation**

Yuta Uetake, Masahiro Uwamori, and Masahisa Nakada  
*The Journal of Organic Chemistry* 2015 80 (3), 1735-1745  
DOI: 10.1021/jo5026699

**46. Investigation of Anion- $\pi$  Interactions Involving Thiophene Walls Incorporated Calix[4]pyrroles**

Chinthapalli Dinesh Kumar, Katukuri Sirisha, Devendra Kumar Dhaked, Pulipati Lokesh, Akella V. S. Sarma, Prasad V. Bharatam, Srinivas Kantevari, and Prabhakar Sripadi  
*The Journal of Organic Chemistry* 2015 80 (3), 1746-1753  
DOI: 10.1021/jo502673c

**47. Fluorine-Decoupled Carbon Spectroscopy for the Determination of Configuration at Fully Substituted, Trifluoromethyl- and Perfluoroalkyl-Bearing Carbons: Comparison with  $^{19}\text{F}$ - $^1\text{H}$  Heteronuclear Overhauser Effect Spectroscopy**

Appi Reddy Mandhapati, Takayuki Kato, Takahiko Matsushita, Bashar Ksebat, Andrea Vasella, Erik C. Böttger, and David Crich  
*The Journal of Organic Chemistry* 2015 80 (3), 1754-1763  
DOI: 10.1021/jo502677a

**48. Oxidative Coupling of Dichalcogenides with Sodium Sulfinates via Copper-Catalyzed Cleavage of S-S and Se-Se Bonds**

Nobukazu Taniguchi  
*The Journal of Organic Chemistry* 2015 80 (3), 1764-1770  
DOI: 10.1021/jo5026805

**49. Synthesis of Enantiomerically Pure Lignin Dimer Models for Catalytic Selectivity Studies**

Costyl N. Njiojob, Jennifer L. Rhinehart, Joseph J. Bozell, and Brian K. Long  
*The Journal of Organic Chemistry* 2015 80 (3), 1771-1780  
DOI: 10.1021/jo502685k

**50.  $\gamma$ -Trimethylsilylcyclobutyl Carbocation Stabilization**

Xavier Creary, Anna Heffron, Gabrielle Going, and Mariana Prado  
*The Journal of Organic Chemistry* 2015 80 (3), 1781-1788  
DOI: 10.1021/jo502691t

**51. Copper-Catalyzed One-Pot Synthesis of 1,2,4-Triazoles from Nitriles and Hydroxylamine**

Hao Xu, Shuang Ma, Yuanqing Xu, Longxiang Bian, Tao Ding, Xiaomin Fang, Wenkai Zhang, and Yanrong Ren  
*The Journal of Organic Chemistry* 2015 80 (3), 1789-1794  
DOI: 10.1021/jo502709t

**52. Ring Contraction of 2,5-Dihydrobenzo[f][1,2,5]thiadiazepine 1,1-Dioxides: Access to 4H-Benz[b][1,4]thiazine 1,1-Dioxides**

Veronika Fülopová, Anna Krchňáková, Eva Schütznerová, Jaroslav Zajíček, and Viktor Krchňák  
*The Journal of Organic Chemistry* 2015 80 (3), 1795-1801  
DOI: 10.1021/jo502713k

**53. Solvent and Ligand Effects Associated with the Rh(II)-Catalyzed Reactions of  $\alpha$ -Diazo-Substituted Amido Esters**

Albert Padwa and Yan Zou  
*The Journal of Organic Chemistry* 2015 80 (3), 1802-1808  
DOI: 10.1021/jo502725d

**54. Understanding “On-Water” Catalysis of Organic Reactions. Effects of H<sup>+</sup> and Li<sup>+</sup> Ions in the Aqueous Phase and Nonreacting Competitor H-Bond Acceptors in the Organic Phase: On H<sub>2</sub>O versus on D<sub>2</sub>O for Huisgen Cycloadditions**

Richard N. Butler and Anthony G. Coyne  
*The Journal of Organic Chemistry* 2015 80 (3), 1809-1817

DOI: 10.1021/jo502732y

**55. Mild Rh(III)-Catalyzed C7-Allylation of Indolines with Allylic Carbonates**

Jihye Park, Neeraj Kumar Mishra, Satyasheel Sharma, Sangil Han, Youngmi Shin, Taejoo Jeong, Joa Sub Oh, Jong Hwan Kwak, Young Hoon Jung, and In Su Kim

*The Journal of Organic Chemistry* 2015 80 (3), 1818-1827

DOI: 10.1021/jo502733q

**56. Synthesis, Optical Properties, and Electronic Structures of Nucleobase-Containing π-Conjugated Oligomers**

Raghida Bou Zerdan, Pamela Cohn, Egle Puodziukynaitė, Matthew B. Baker, Maud Voisin, Céline Sarun, and Ronald K. Castellano

*The Journal of Organic Chemistry* 2015 80 (3), 1828-1840

DOI: 10.1021/jo502773g

**57. Catalyst-Controlled Chemoselective Reaction of 3-Indolylmethanols with Cyclic Enaminones Leading to C2-Functionalized Indoles**

Xin Li, Wei Tan, Yu-Xin Gong, and Feng Shi

*The Journal of Organic Chemistry* 2015 80 (3), 1841-1848

DOI: 10.1021/jo502782b

**58. Selective Binding Affinity between Quaternary Ammonium Cations and Water-Soluble Calix[4]resorcinarene**

Meiling Hong, Ying-Ming Zhang, and Yu Liu

*The Journal of Organic Chemistry* 2015 80 (3), 1849-1855

DOI: 10.1021/jo502825z

**59. A Synthetic Approach to N-Aryl Carbamates via Copper-Catalyzed Chan-Lam Coupling at Room Temperature**

Soo-Yeon Moon, U. Bin Kim, Dan-Bi Sung, and Won-Suk Kim

*The Journal of Organic Chemistry* 2015 80 (3), 1856-1865

DOI: 10.1021/jo502828r

**60. Synthesis of (±)-Aureol by Bioinspired Rearrangements**

Antonio Rosales, Juan Muñoz-Bascón, Esther Roldán-Molina, Nazaret Rivas-Bascón, Natalia M. Padial, Roman Rodríguez-Maecker, Ignacio Rodríguez-García, and J. Enrique Oltra

*The Journal of Organic Chemistry* 2015 80 (3), 1866-1870

DOI: 10.1021/jo502841u

**61. Controllable and Stepwise Synthesis of Soluble Ladder-Conjugated Bis(Perylene Imide) Fluorenebisimidazole as a Multifunctional Optoelectronic Material**

Lingcheng Chen, Kaichen Zhang, Changquan Tang, Qingdong Zheng, and Yi Xiao

*The Journal of Organic Chemistry* 2015 80 (3), 1871-1877

DOI: 10.1021/jo5028529

**62. Systematic Strategy for Designing Immidazolium Containing Precursors To Produce N-Heterocyclic Carbenes: A DFT Study**

Kyung Yup Baek, Ji Hye Jo, Jong Hun Moon, Juyoung Yoon, and Jin Yong Lee

*The Journal of Organic Chemistry* 2015 80 (3), 1878-1886

DOI: 10.1021/jo502891z

**63. Light and Chemically Driven Molecular Machines Showing a Unidirectional Four-State Switching Cycle**

Gebhard Haberhauer, Christoph Burkhardt, Sascha Woitschetzki, and Christoph Wölper

*The Journal of Organic Chemistry* 2015 80 (3), 1887-1895

DOI: 10.1021/acs.joc.5b00026

**64. δ,ε-Unsaturated α,β-Diamino Acids as Building Blocks for the Asymmetric Synthesis of Diverse α,β-Diamino Acids**

Nemai Saha, Bhaskar Chatterjee, and Shital K. Chattopadhyay

*The Journal of Organic Chemistry* 2015 80 (3), 1896-1904

DOI: 10.1021/jo5022162

**65. A Mechanistic Study of Thioester Hydrolysis with Heavy Atom Kinetic Isotope Effects**

John F. Marlier, Emily J. Fogle, Richard L. Redman, Anthony D. Stillman, Matthew A. Denison, and Lori I. Robins

*The Journal of Organic Chemistry* 2015 80 (3), 1905-1908

DOI: 10.1021/jo502472m

**66. Fast Pyrolysis of 13C-Labeled Cellobioses: Gaining Insights into the Mechanisms of Fast Pyrolysis of Carbohydrates**

John C. Degenstein, Priya Murria, McKay Easton, Huaming Sheng, Matt Hurt, Alex R. Dow, Jinshan Gao, John J. Nash, Rakesh Agrawal, W. Nicholas Delgass, Fabio H. Ribeiro, and Hilkka I. Kenttämaa  
*The Journal of Organic Chemistry* 2015 80 (3), 1909-1914  
DOI: 10.1021/jo5025255

**67. A Convergent Approach to the Total Synthesis of Telmisartan via a Suzuki Cross-Coupling Reaction between Two Functionalized Benzimidazoles**

Alex D. Martin, Ali R. Siamaki, Katherine Belecki, and B. Frank Gupton  
*The Journal of Organic Chemistry* 2015 80 (3), 1915-1919  
DOI: 10.1021/jo5025333

**68. General Method for the Preparation of Active Esters by Palladium-Catalyzed Alkoxy carbonylation of Aryl Bromides**

Angelina M. de Almeida, Thomas L. Andersen, Anders T. Lindhardt, Mauro V. de Almeida, and Troels Skrydstrup  
*The Journal of Organic Chemistry* 2015 80 (3), 1920-1928  
DOI: 10.1021/jo5025464

**69. Cross-Dehydrogenative Coupling of Azoles with  $\alpha$ -C(sp<sup>3</sup>)–H of Ethers and Thioethers under Metal-Free Conditions: Functionalization of H–N Azoles via C–H Activation**

Hariprasad Aruri, Umed Singh, Sumit Sharma, Satish Gudup, Mukesh Bhogal, Sanjay Kumar, Deepika Singh, Vivek K. Gupta, Rajni Kant, Ram A. Vishwakarma, and Parvinder Pal Singh  
*The Journal of Organic Chemistry* 2015 80 (3), 1929-1936  
DOI: 10.1021/jo502477r

**70. Nucleophilic and Electrophilic Double Aroylation of Chalcones with Benzils Promoted by the Dimsyl Anion as a Route to All Carbon Tetrasubstituted Olefins**

Daniele Ragno, Olga Bortolini, Giancarlo Fantin, Marco Fogagnolo, Pier Paolo Giovannini, and Alessandro Massi  
*The Journal of Organic Chemistry* 2015 80 (3), 1937-1945  
DOI: 10.1021/jo502582e

**71. Iridium(III)-Catalyzed C-7 Selective C–H Alkynylation of Indolines at Room Temperature**

Yunxiang Wu, Yaxi Yang, Bing Zhou, and Yuanchao Li  
*The Journal of Organic Chemistry* 2015 80 (3), 1946-1951  
DOI: 10.1021/jo502596k

**72. Formal Synthesis of ( $\pm$ )-Galanthamine and ( $\pm$ )-Lycoramine Using Rh(I)-Catalyzed [(3 + 2) + 1] Cycloaddition of 1-Ene–Vinylcyclopropane and CO**

Yu Feng and Zhi-Xiang Yu  
*The Journal of Organic Chemistry* 2015 80 (3), 1952-1956  
DOI: 10.1021/jo502604p

**73. Heck Cyclization Strategy for Preparation of Erythrinan Alkaloids: Asymmetric Synthesis of Unnatural (–)-Erysotramidine from L-Tartaric Acid**

Danuta Mostowicz, Mirosław Dygas, and Zbigniew Kałuża  
*The Journal of Organic Chemistry* 2015 80 (3), 1957-1963  
DOI: 10.1021/jo5026157

**74. Electrophilic Amination of Fluoroalkyl Groups on Azodicarboxylate Derivatives**

Marius Mamone, Estelle Morvan, Thierry Milcent, Sandrine Ongeri, and Benoit Crousse  
*The Journal of Organic Chemistry* 2015 80 (3), 1964-1971  
DOI: 10.1021/jo502638y

**75. Alcohol Cross-Coupling for the Kinetic Resolution of Diols via Oxidative Esterification**

Christine Hofmann, Jan M. Schümann, and Peter R. Schreiner  
*The Journal of Organic Chemistry* 2015 80 (3), 1972-1978  
DOI: 10.1021/jo502670p

**76. Diastereoselective 1,3-Dipolar Cycloaddition of Nitrones to Donor–Acceptor Cyclopropanes Catalyzed by a Calcium(II) Complex**

Caroline M. Braun, Elizabeth A. Congdon, and Kristine A. Nolin  
*The Journal of Organic Chemistry* 2015 80 (3), 1979-1984  
DOI: 10.1021/jo502686t

**77. Organocatalytic Enantioselective Direct Vinylogous Michael Addition of  $\alpha,\beta$ -Unsaturated  $\gamma$ -Butyrolactam to  $\beta$ -Acyl Acrylates and 1,2-Diacylethylenes**

Yi-Ru Chen, Utpal Das, Meng-Hsien Liu, and Wenwei Lin

*The Journal of Organic Chemistry* 2015 80 (3), 1985-1992

DOI: 10.1021/jo5027047

**78. Brønsted Acid Catalyzed Monoalkylation of Anilines with Trichloroacetimidates**

Daniel R. Wallach, Patrick C. Stege, Jigisha P. Shah, and John D. Chisholm

*The Journal of Organic Chemistry* 2015 80 (3), 1993-2000

DOI: 10.1021/jo5027222

**79. Total Synthesis of Brazilin**

Youngeun Jung and Ikyon Kim

*The Journal of Organic Chemistry* 2015 80 (3), 2001-2005

DOI: 10.1021/jo502745j

**80. Thermally Persistent Carbonyl Nitrene: FC(O)N**

Hailong Sun, Bifeng Zhu, Zhuang Wu, Xiaoqing Zeng, Helmut Beckers, and William S. Jenks

*The Journal of Organic Chemistry* 2015 80 (3), 2006-2009

DOI: 10.1021/jo502821y

**81. A One-Pot Cascade to Protoberberine Alkaloids via Stevens Rearrangement of Nitrile-Stabilized Ammonium Ylides**

Günther Lahm, Jan-Gernot Deichmann, Anna Lisa Rauen, and Till Opatz

*The Journal of Organic Chemistry* 2015 80 (3), 2010-2016

DOI: 10.1021/jo502842s

**82. Influence of the  $-\text{CH}_2\text{X}$  Substituent on the Regioselectivity of Intramolecular meta-Photocycloaddition Reactions**

Marcus Wegmann and Thorsten Bach

*The Journal of Organic Chemistry* 2015 80 (3), 2017-2023

DOI: 10.1021/jo5028613

**83. Proline-Catalyzed Sequential syn-Mannich and [4 + 1]-Annulation Cascade Reactions To Form Densely Functionalized Pyrrolidines**

Ravindra D. Aher, B. Senthil Kumar, and Arumugam Sudalai

*The Journal of Organic Chemistry* 2015 80 (3), 2024-2031

DOI: 10.1021/jo5028886

**84. Photoredox Catalysts: Synthesis of the Bipyrazine Ligand**

Matthew D. Graaf and Kevin D. Moeller

*The Journal of Organic Chemistry* 2015 80 (3), 2032-2035

DOI: 10.1021/jo502925u