



June 19, 2015: Vol. 80, Iss. 12

Content

- 1. Ni-Catalyzed C–H Functionalization in the Formation of a Complex Heterocycle: Synthesis of the Potent JAK2 Inhibitor BMS-911543**
Monica A Fitzgerald, Omid Soltani, Carolyn Wei, Dimitri Skliar, Bin Zheng, Jun Li, Jacob Albrecht, Michael Schmidt, Michelle Mahoney, Richard J. Fox, Kristy Tran, Keming Zhu, and Martin D. Eastgate
The Journal of Organic Chemistry **2015** 80 (12), 6001-6011
DOI: 10.1021/acs.joc.5b00572
- 2. Fragment Coupling and the Construction of Quaternary Carbons Using Tertiary Radicals Generated From tert-Alkyl N-Phthalimidoyl Oxalates By Visible-Light Photocatalysis**
Gregory L. Lackner, Kyle W. Quasdorf, Gerald Pratsch, and Larry E. Overman
The Journal of Organic Chemistry **2015** 80 (12), 6012-6024
DOI: 10.1021/acs.joc.5b00794
- 3. Constructing Quaternary Carbons from N-(Acyloxy)phthalimide Precursors of Tertiary Radicals Using Visible-Light Photocatalysis**
Gerald Pratsch, Gregory L. Lackner, and Larry E. Overman
The Journal of Organic Chemistry **2015** 80 (12), 6025-6036
DOI: 10.1021/acs.joc.5b00795
- 4. Synthesis of Fullerene-Fused Dioxanes/Dioxepanes: Ferric Perchlorate-Mediated One-Step Reaction of [60]Fullerene with Diols**
Xiao-Feng Zhang, Fa-Bao Li, Jun Wu, Ji-Long Shi, Zhan Liu, and Li Liu
The Journal of Organic Chemistry **2015** 80 (12), 6037-6043
DOI: 10.1021/acs.joc.5b00360
- 5. Synthesis of (+)-Antroquinonol: An Antihyperglycemic Agent**
Rohidas S. Sulake, Hsiao-Han Lin, Chia-Yu Hsu, Ching-Feng Weng, and Chinpiao Chen
The Journal of Organic Chemistry **2015** 80 (12), 6044-6051
DOI: 10.1021/acs.joc.5b00345
- 6. Oxidation of Olefins with Benzeneseleninic Anhydride in the Presence of TMSOTf**
Izabella Jastrzębska, Maja Morawiak, Joanna E. Rode, Barbara Seroka, Leszek Siergiejczyk, and Jacek W. Morzycki
The Journal of Organic Chemistry **2015** 80 (12), 6052-6061
DOI: 10.1021/acs.joc.5b00410
- 7. Hydroalumination of Ketenimines and Subsequent Reactions with Heterocumulenes: Synthesis of Unsaturated Amide Derivatives and 1,3-Diimines**
Xing Jin, Matthias Willeke, Ralph Lucchesi, Constantin-Gabriel Daniliuc, Roland Fröhlich, Birgit Wibbeling, Werner Uhl, and Ernst-Ulrich Würthwein
The Journal of Organic Chemistry **2015** 80 (12), 6062-6075
DOI: 10.1021/acs.joc.5b00466
- 8. Total Synthesis and Antimicrobial Activity of Chlorocatechelin A**
Shinji Kishimoto, Shinichi Nishimura, Masaki Hatano, Masayuki Igarashi, and Hideaki Kakeya
The Journal of Organic Chemistry **2015** 80 (12), 6076-6082
DOI: 10.1021/acs.joc.5b00532
- 9. Metal-Free Iodine-Catalyzed Direct Arylthiation of Substituted Anilines with Thiols**
Daoshan Yang, Kelu Yan, Wei Wei, Jing Zhao, Mengqi Zhang, Xuguang Sheng, Guoqing Li, Shenglei Lu, and Hua Wang
The Journal of Organic Chemistry **2015** 80 (12), 6083-6092

DOI: 10.1021/acs.joc.5b00540

10. On-Resin Conjugation of Diene–Polyamides and Maleimides via Diels–Alder Cycloaddition

Omar Brun, Xavier Elduque, Enrique Pedroso, and Anna Grandas

The Journal of Organic Chemistry **2015** *80* (12), 6093–6101

DOI: 10.1021/acs.joc.5b00592

11. Copper-Catalyzed Domino Three-Component Approach for the Assembly of 2-Aminated Benzimidazoles and Quinazolines

Lam Quang Tran, Jihui Li, and Luc Neuville

The Journal of Organic Chemistry **2015** *80* (12), 6102–6108

DOI: 10.1021/acs.joc.5b00614

12. Synthesis of Alkenylphosphonates through Palladium-Catalyzed Coupling of α -Diazo Phosphonates with Benzyl or Allyl Halides

Yujing Zhou, Fei Ye, Xi Wang, Shuai Xu, Yan Zhang, and Jianbo Wang

The Journal of Organic Chemistry **2015** *80* (12), 6109–6118

DOI: 10.1021/acs.joc.5b00629

13. Mechanism of Photochemical O-Atom Exchange in Nitrosamines with Molecular Oxygen

Marilene Silva Oliveira, Ashwini A. Ghogare, Inna Abramova, Edyta M. Greer, Fernanda Manso Prado, Paolo Di Mascio, and Alexander Greer

The Journal of Organic Chemistry **2015** *80* (12), 6119–6127

DOI: 10.1021/acs.joc.5b00633

14. Method for the Synthesis of Phenothiazines via a Domino Iron-Catalyzed C–S/C–N Cross-Coupling Reaction

Weiye Hu and Songlin Zhang

The Journal of Organic Chemistry **2015** *80* (12), 6128–6132

DOI: 10.1021/acs.joc.5b00568

15. Nucleophilic Substitution in Reactions between Partially Hydrated Superoxide Anions and Alkyl Halides

Mauritz J. Ryding, Andrea Debnárová, Israel Fernández, and Einar Uggerud

The Journal of Organic Chemistry **2015** *80* (12), 6133–6142

DOI: 10.1021/acs.joc.5b00651

16. Synthesis of Cryptophanes with Two Different Reaction Sites: Chemical Platforms for Xenon Biosensing

Laure-Lise Chapellet, James R. Cochrane, Emilie Mari, Céline Boutin, Patrick Berthault, and Thierry Brotin

The Journal of Organic Chemistry **2015** *80* (12), 6143–6151

DOI: 10.1021/acs.joc.5b00653

17. Congeners of Pyrromethene-567 Dye: Perspectives from Synthesis, Photophysics, Photostability, Laser, and TD-DFT Theory

Kishor G. Thorat, Priyadarshani Kamble, Ramnath Mallah, Alok K. Ray, and Nagaiyan Sekar

The Journal of Organic Chemistry **2015** *80* (12), 6152–6164

DOI: 10.1021/acs.joc.5b00654

18. Regioselective Tandem [4 + 1]–[4 + 2] Synthesis of Amino-Substituted Dihydroxanthenes and Xanthenes

Ana Bornadiego, Jesús Díaz, and Carlos F. Marcos

The Journal of Organic Chemistry **2015** *80* (12), 6165–6172

DOI: 10.1021/acs.joc.5b00658

19. Arrays of Molecular Rotors with Triptycene Stoppers: Surface Inclusion in Hexagonal Tris(o-phenylenedioxy)cyclotriphosphazene

Jiří Kaleta, Paul I. Dron, Ke Zhao, Yongqiang Shen, Ivana Čísařová, Charles T. Rogers, and Josef Michl

The Journal of Organic Chemistry **2015** *80* (12), 6173–6192

DOI: 10.1021/acs.joc.5b00661

20. Bi(OTf)₃-Catalyzed Multicomponent α -Amidoalkylation Reactions

Angelika E. Schneider and Georg Manolikakes

The Journal of Organic Chemistry **2015** *80* (12), 6193-6212

DOI: 10.1021/acs.joc.5b00662

21. Nickel-Catalyzed Alkynylation of a C(sp²)-H Bond Directed by an 8-Aminoquinoline Moiety

Jun Yi, Li Yang, Chungu Xia, and Fuwei Li

The Journal of Organic Chemistry **2015** *80* (12), 6213-6221

DOI: 10.1021/acs.joc.5b00669

22. Stereochemical Course of Wittig Rearrangements of Dihydropyran Allyl Propargyl Ethers

Minoru Isobe, Wei-Chung Chang, Pei-Kang Tsou, Chatchawan Ploysuk, and Chin-Hui Yu

The Journal of Organic Chemistry **2015** *80* (12), 6222-6237

DOI: 10.1021/acs.joc.5b00678

23. Access to Six- and Seven-Membered 1,7-Fused Indolines via Rh(III)-Catalyzed Redox-Neutral C7-Selective C-H Functionalization of Indolines with Alkynes and Alkenes

Xuan Wang, Huanyu Tang, Huijin Feng, Yuanchao Li, Yaxi Yang, and Bing Zhou

The Journal of Organic Chemistry **2015** *80* (12), 6238-6249

DOI: 10.1021/acs.joc.5b00684

24. Synthesis of ¹¹C-Labeled Thiamine and Fursultiamine for in Vivo Molecular Imaging of Vitamin B1 and Its Prodrug Using Positron Emission Tomography

Hisashi Doi, Aya Mawatari, Masakatsu Kanazawa, Satoshi Nozaki, Yukihiro Nomura, Takahito Kitayoshi, Kouji Akimoto, Masaaki Suzuki, Shinji Ninomiya, and Yasuyoshi Watanabe

The Journal of Organic Chemistry **2015** *80* (12), 6250-6258

DOI: 10.1021/acs.joc.5b00685

25. Selective Secondary Face Modification of Cyclodextrins by Mechanosynthesis

Stéphane Menuel, Bertrand Doumert, Sébastien Saitzek, Anne Ponchel, Laurent Delevoye, Eric Monflier, and Frédéric Hapiot

The Journal of Organic Chemistry **2015** *80* (12), 6259-6266

DOI: 10.1021/acs.joc.5b00697

26. Chiral Recognition Studies of α -(Nonfluoro-tert-butoxy)carboxylic Acids by NMR Spectroscopy

Anikó Nemes, Tamás Csóka, Szabolcs Béni, Viktor Farkas, József Rábai, and Dénes Szabó

The Journal of Organic Chemistry **2015** *80* (12), 6267-6274

DOI: 10.1021/acs.joc.5b00706

27. Pd-Catalyzed Diamination of 1,2,4-Triazinyl Complexant Scaffolds

Serene Tai, Evan J. Dover, Sydney V. Marchi, and Jesse D. Carrick

The Journal of Organic Chemistry **2015** *80* (12), 6275-6282

DOI: 10.1021/acs.joc.5b00710

28. Palladium-Catalyzed Alkynylation of Morita-Baylis-Hillman Carbonates with (Triisopropylsilyl)acetylene on Water

Yangxiong Li, Li Liu, Delong Kong, Dong Wang, Weichun Feng, Tao Yue, and Chaojun Li

The Journal of Organic Chemistry **2015** *80* (12), 6283-6290

DOI: 10.1021/acs.joc.5b00728

29. Microwave-Assisted Copper-Catalyzed Four-Component Tandem Synthesis of 3-N-Sulfonylamidine Coumarins

Govindarasu Murugavel and Tharmalingam Punniyamurthy

The Journal of Organic Chemistry **2015** *80* (12), 6291-6299

DOI: 10.1021/acs.joc.5b00738

- 30. Stereoselective Wittig Olefination as a Macrocyclization Tool. Synthesis of Large Carbazolophanes**
Damian Myśliwiec, Tadeusz Lis, Janusz Gregoliński, and Marcin Stępień
The Journal of Organic Chemistry **2015** *80* (12), 6300-6312
DOI: 10.1021/acs.joc.5b00745
- 31. How Microsolvation Numbers at Li Control Aggregation Modes, sp²-Stereoinversion, and NMR Coupling Constants 2J_{H,H} of H₂C=C in α-(2,6-Dimethylphenyl)vinyllithium**
Rudolf Knorr, Claudia Behringer, Ernst Lattke, Ulrich von Roman, and Monika Knittl
The Journal of Organic Chemistry **2015** *80* (12), 6313-6322
DOI: 10.1021/acs.joc.5b00762
- 32. Copper-Catalyzed Electrophilic Amination of Organoaluminum Nucleophiles with O-Benzoyl Hydroxylamines**
Shuangliu Zhou, Zhiyong Yang, Xu Chen, Yimei Li, Lijun Zhang, Hong Fang, Wei Wang, Xiancui Zhu, and Shaowu Wang
The Journal of Organic Chemistry **2015** *80* (12), 6323-6328
DOI: 10.1021/acs.joc.5b00767
- 33. Synthesis of Energetic Nitrocarbamates from Polynitro Alcohols and Their Potential as High Energetic Oxidizers**
Quirin J. Axthammer, Burkhard Krumm, and Thomas M. Klapötke
The Journal of Organic Chemistry **2015** *80* (12), 6329-6335
DOI: 10.1021/acs.joc.5b00655
- 34. CaCl₂, Bisoxazoline, and Malonate: A Protocol for an Asymmetric Michael Reaction**
Kristin Lippur, Sandra Kaabel, Ivar Järving, Kari Rissanen, and Tõnis Kanger
The Journal of Organic Chemistry **2015** *80* (12), 6336-6341
DOI: 10.1021/acs.joc.5b00769
- 35. Synthesis of 2-Arylpyridopyrimidinones, 6-Aryluracils, and Tri- and Tetrasubstituted Conjugated Alkenes via Pd-Catalyzed Enolic C–O Bond Activation–Arylation**
Sankar K. Guchhait and Garima Priyadarshani
The Journal of Organic Chemistry **2015** *80* (12), 6342-6349
DOI: 10.1021/acs.joc.5b00771
- 36. N-Heterocyclic Carbene-Catalyzed Oxidative Annulations of α,β-Unsaturated Aldehydes with Hydrazones: Selective Synthesis of Optically Active 4,5-Dihydropyridazin-3-ones and Pyridazin-3-ones**
Jian-Hui Mao, Zi-Tian Wang, Zhan-Yong Wang, and Ying Cheng
The Journal of Organic Chemistry **2015** *80* (12), 6350-6359
DOI: 10.1021/acs.joc.5b00784
- 37. Design and Synthesis of Fluorinated Amphiphile as ¹⁹F MRI/Fluorescence Dual-Imaging Agent by Tuning the Self-Assembly**
Shaowei Bo, Cong Song, Yu Li, Weijiang Yu, Shizhen Chen, Xin Zhou, Zhigang Yang, Xing Zheng, and Zhong-Xing Jiang
The Journal of Organic Chemistry **2015** *80* (12), 6360-6366
DOI: 10.1021/acs.joc.5b00810
- 38. Enantioselective Synthesis of β-Arylamines via Chiral Phosphoric Acid-Catalyzed Asymmetric Reductive Amination**
Kyung-Hee Kim, Chun-Young Lee, and Cheol-Hong Cheon
The Journal of Organic Chemistry **2015** *80* (12), 6367-6374
DOI: 10.1021/acs.joc.5b00812
- 39. Selective Pinacol Coupling on Regeneratable Supported Acids in Sole Water**
Nicolas Sotto, Muriel Billamboz, Carole Chevrin-Villette, and Christophe Len
The Journal of Organic Chemistry **2015** *80* (12), 6375-6380

DOI: 10.1021/acs.joc.5b00837

- 40. Reductive Alkylation of α -Keto Imines Catalyzed by PTSA/FeCl₃: Synthesis of Indoles and 2,3'-Biindoles**
P. Seetham Naidu, Sinki Kolita, Meenakshi Sharma, and Pulak J. Bhuyan
The Journal of Organic Chemistry **2015** 80 (12), 6381-6390
DOI: 10.1021/acs.joc.5b00533
- 41. Synthesis of Sulfoximine Carbamates by Rhodium-Catalyzed Nitrene Transfer of Carbamates to Sulfoxides**
Marina Zenzola, Robert Doran, Renzo Luisi, and James A. Bull
The Journal of Organic Chemistry **2015** 80 (12), 6391-6399
DOI: 10.1021/acs.joc.5b00844
- 42. PPh₃-HBr-DMSO: A Reagent System for Diverse Chemoselective Transformations**
Kanchan Mal, Amanpreet Kaur, Fazle Haque, and Indrajit Das
The Journal of Organic Chemistry **2015** 80 (12), 6400-6410
DOI: 10.1021/acs.joc.5b00846
- 43. Nitrogen Stereodynamics and Complexation Phenomena as Key Factors in the Deprotonative Dynamic Resolution of Alkylideneaziridines: A Spectroscopic and Computational Study**
Leonardo Degennaro, Luisa Pisano, Giovanna Parisi, Rosmara Mansueto, Guy J. Clarkson, Michael Shipman, and Renzo Luisi
The Journal of Organic Chemistry **2015** 80 (12), 6411-6418
DOI: 10.1021/acs.joc.5b00848
- 44. Pd-Catalyzed Regioselective Alkoxy carbonylation of 1-Alkenes Using a Lewis Acid [SnCl₂ or Ti(OiPr)₄] and a Phosphine**
Manuel Amézquita-Valencia, George Achonduh, and Howard Alper
The Journal of Organic Chemistry **2015** 80 (12), 6419-6424
DOI: 10.1021/acs.joc.5b00851
- 45. Revising the Role of a Dioxirane as an Intermediate in the Uncatalyzed Hydroperoxidation of Cyclohexanone in Water**
Elena Rozhko, Stefania Solmi, Fabrizio Cavani, Angelo Albini, Paolo Righi, and Davide Ravelli
The Journal of Organic Chemistry **2015** 80 (12), 6425-6431
DOI: 10.1021/acs.joc.5b00861
- 46. Mn-Mediated Radical-Ionic Annulations of Chiral N-Acylhydrazones**
Kara A. Slater and Gregory K. Friestad
The Journal of Organic Chemistry **2015** 80 (12), 6432-6440
DOI: 10.1021/acs.joc.5b00863
- 47. A Lithium Amide Protected Against Protonation in the Gas Phase: Unexpected Effect of LiCl**
Denis Lesage, Gabriella Barozzino-Consiglio, Romain Duwald, Catherine Fressigné, Anne Harrison-Marchand, Kym F. Faull, Jacques Maddaluno, and Yves Gimbert
The Journal of Organic Chemistry **2015** 80 (12), 6441-6446
DOI: 10.1021/acs.joc.5b00875
- 48. Synthesis of Luffarin L and 16-epi-Luffarin L Using a Temporary Silicon-Tethered Ring-Closing Metathesis Reaction**
Aitor Urosa, Isidro S. Marcos, David Díez, José M. Padrón, and Pilar Basabe
The Journal of Organic Chemistry **2015** 80 (12), 6447-6455
DOI: 10.1021/acs.joc.5b00876
- 49. Base Mediated Synthesis of Alkyl-aryl Ethers from the Reaction of Aliphatic Alcohols and Unsymmetric Diaryliodonium Salts**
Sunil K. Sundalam and David R. Stuart
The Journal of Organic Chemistry **2015** 80 (12), 6456-6466
DOI: 10.1021/acs.joc.5b00907
- 50. Asymmetric Total Synthesis of Bioactive Natural Lipid Mycalol**

Subhendu Das, Tapan Kumar Kuilya, and Rajib Kumar Goswami

The Journal of Organic Chemistry **2015** 80 (12), 6467-6489

DOI: 10.1021/acs.joc.5b00972

51. Whole-Cell Mediated 11 β -Hydroxylation on the Basic Limonoid Skeleton by *Cunninghamella echinulata*

Saikat Haldar, Fayaj A. Mulani, Thiagarayaselvam Aarthi, and Hirekodathakallu V. Thulasiram

The Journal of Organic Chemistry **2015** 80 (12), 6490-6495

DOI: 10.1021/acs.joc.5b00417

52. (Diacetoxyiodo)benzene-Mediated Reaction of Ethynylcarbinols: Entry to α,α' -Diacetoxy Ketones and Glycerol Derivatives

Qing-Rong Liu, Cheng-Xue Pan, Xiao-Pan Ma, Dong-Liang Mo, and Gui-Fa Su

The Journal of Organic Chemistry **2015** 80 (12), 6496-6501

DOI: 10.1021/acs.joc.5b00740

53. Synthesis and Resolution of Substituted [5]Carbohelicenes

Kazuteru Usui, Kosuke Yamamoto, Takashi Shimizu, Mieko Okazumi, Biao Mei, Yosuke Demizu, Masaaki Kurihara, and Hiroshi Suemune

The Journal of Organic Chemistry **2015** 80 (12), 6502-6508

DOI: 10.1021/acs.joc.5b00759

54. Synthesis of Spirocyclic Pyrazolones by Oxidative C–N Bond Formation

Javier Agejas and Laura Ortega

The Journal of Organic Chemistry **2015** 80 (12), 6509-6514

DOI: 10.1021/acs.joc.5b00796

55. Cycloisomerization of Conjugated Trienones and Isomeric 2H-Pyrans: Unified Strategy toward Cyclopenta[b]furans

Martín J. Riveira, Gastón N. Quiroga, Ernesto G. Mata, Vincent Gandon, and Mirta P. Mischne

The Journal of Organic Chemistry **2015** 80 (12), 6515-6519

DOI: 10.1021/acs.joc.5b00818

56. Inverted Carbon Geometries: Challenges to Experiment and Theory

Matthias Bremer, Harald Untenecker, Pavel A. Gunchenko, Andrey A. Fokin, and Peter R. Schreiner

The Journal of Organic Chemistry **2015** 80 (12), 6520-6524

DOI: 10.1021/acs.joc.5b00845