

Content

- 1. Heterometallic Effects in Trinuclear Complexes Supported by p-Terphenyl Diphosphine Ligands**
Kyle T. Horak, Sibio Lin, Jonathan Rittle, and Theodor Agapie
Organometallics **2015** 34 (18), 4429-4432
DOI: 10.1021/acs.organomet.5b00579
- 2. C \equiv C* Cyclometalated Platinum(II) Complexes with Dibenzofuranyl-1,2,4-triazol-5-ylidene Ligands: Synthesis, Characterization, and Photoluminescent Properties**
Mario Tenne, Stefan Metz, Gerhard Wagenblast, Ingo Münster, and Thomas Strassner
Organometallics **2015** 34 (18), 4433-4440
DOI: 10.1021/acs.organomet.5b00136
- 3. Enantioselective Alkynylation of Aldehydes by Mixed Aggregates of 3-Aminopyrrolidine Lithium Amides and Lithium Acetylides**
Gabiella Barozzino-Consiglio, Yi Yuan, Catherine Fressigné, Anne Harrison-Marchand, Hassan Oulyadi, and Jacques Maddaluno
Organometallics **2015** 34 (18), 4441-4450
DOI: 10.1021/acs.organomet.5b00647
- 4. Charge Transfer Properties of Benzo[b]thiophene Ferrocenyl Complexes**
Alessandro Donoli, Annalisa Bisello, Roberta Cardena, Marco Crisma, Laura Orian, and Saverio Santi
Organometallics **2015** 34 (18), 4451-4463
DOI: 10.1021/acs.organomet.5b00191
- 5. Air-Stable NNS (ENENES) Ligands and Their Well-Defined Ruthenium and Iridium Complexes for Molecular Catalysis**
Pavel A. Dub, Brian L. Scott, and John C. Gordon
Organometallics **2015** 34 (18), 4464-4479
DOI: 10.1021/acs.organomet.5b00432
- 6. Highly Selective Detection of H⁺ and OH⁻ with a Single-Emissive Iridium(III) Complex: A Mild Approach to Conversion of Non-AIEE to AIEE Complex**
Parvej Alam, Gurpreet Kaur, Amrit Sarmah, Ram Kinkar Roy, Angshuman Roy Choudhury, and Inamur Rahaman Laskar
Organometallics **2015** 34 (18), 4480-4490
DOI: 10.1021/acs.organomet.5b00447
- 7. Synthesis, Structure, DNA/Protein Binding, and Anticancer Activity of Some Half-Sandwich Cyclometalated Rh(III) and Ir(III) Complexes**
Sujay Mukhopadhyay, Rakesh Kumar Gupta, Rajendra Prasad Paitandi, Nishant Kumar Rana, Gunjan Sharma, Biplob Koch, Love Karan Rana, Maninder Singh Hundal, and Daya Shankar Pandey
Organometallics **2015** 34 (18), 4491-4506
DOI: 10.1021/acs.organomet.5b00475
- 8. Anticancer Activity and Autophagy Involvement of Self-Assembled Arene-Ruthenium Metallacycles**
Abhishek Dubey, Yong Joon Jeong, Jae Ho Jo, Sangkook Woo, Dong Hwan Kim, Hyunuk Kim, Se Chan Kang, Peter J. Stang, and Ki-Whan Chi
Organometallics **2015** 34 (18), 4507-4514
DOI: 10.1021/acs.organomet.5b00512

- 9. Synthesis of New Chiral Bidentate Isonitrile–Acyclic Diaminocarbene Palladium(II) Compounds and Their Catalytic Activity**
Matthias Knorn, Eugen Lutsker, and Oliver Reiser
Organometallics **2015** *34* (18), 4515-4520
DOI: 10.1021/acs.organomet.5b00516
- 10. Knölker-Type Iron Complexes Bearing an N-Heterocyclic Carbene Ligand: Synthesis, Characterization, and Catalytic Dehydration of Primary Amides**
Saravanakumar Elangovan, Samuel Quintero-Duque, Vincent Dorcet, Thierry Roisnel, Lucie Norel, Christophe Darcel, and Jean-Baptiste Sortais
Organometallics **2015** *34* (18), 4521-4528
DOI: 10.1021/acs.organomet.5b00553
- 11. Phenoxy-Linked Mesoionic Triazol-5-ylidenes as Platforms for Multinuclear Transition Metal Complexes**
Daniel Mendoza-Espinosa, Rodrigo González-Olvera, Guillermo E. Negrón-Silva, Deyanira Angeles-Beltrán, Oscar R. Suárez-Castillo, Alejandro Álvarez-Hernández, and Rosa Santillan
Organometallics **2015** *34* (18), 4529-4542
DOI: 10.1021/acs.organomet.5b00571
- 12. Bimetallic N-Heterocyclic Carbene Rh(I) Complexes: Probing the Cooperative Effect for the Catalyzed Hydroelementation of Alkynes**
Vera Diachenko, Michael J. Page, Mark R. D. Gatus, Mohan Bhadbhade, and Barbara A. Messerle
Organometallics **2015** *34* (18), 4543-4552
DOI: 10.1021/acs.organomet.5b00594
- 13. Synthesis of Bis(NHC)-Based CNC-Pincer Rare-Earth-Metal Amido Complexes and Their Application for the Hydrophosphination of Heterocumulenes**
Xiaoxia Gu, Lijun Zhang, Xiancui Zhu, Shaowu Wang, Shuangliu Zhou, Yun Wei, Guangchao Zhang, Xiaolong Mu, Zeming Huang, Dongjing Hong, and Feng Zhang
Organometallics **2015** *34* (18), 4553-4559
DOI: 10.1021/acs.organomet.5b00628
- 14. Low-Valent Iron Carbonyl Complexes with a Tripodal Carbene Ligand**
Anne K. Hickey, Chun-Hsing Chen, Maren Pink, and Jeremy M. Smith
Organometallics **2015** *34* (18), 4560-4566
DOI: 10.1021/acs.organomet.5b00646
- 15. Synthesis and Structure of Chromium(VI) Nitrido Cyclopentadienyl Complexes**
Brennan S. Billow, Ross D. Bemowski, Stephen A. DiFranco, Richard J. Staples, and Aaron L. Odom
Organometallics **2015** *34* (18), 4567-4573
DOI: 10.1021/acs.organomet.5b00661
- 16. Mechanistic Insights in the Exchange of Arylthiolate Groups in Aryl(arylthiolato)palladium Complexes Supported by a Dippe Ligand**
Lloyd Munjanja, William W. Brennessel, and William D. Jones
Organometallics **2015** *34* (18), 4574-4580
DOI: 10.1021/acs.organomet.5b00662
- 17. $\kappa^3(\text{P,C,C})$ -Allylphosphane Iridium(III) and Rhodium(III) Complexes: Preparation and Reactivity toward Nucleophilic Reagents**
Irene Sánchez-Sordo, Sara Martínez de Salinas, Josefina Díez, Elena Lastra, and M. Pilar Gamasa
Organometallics **2015** *34* (18), 4581-4590
DOI: 10.1021/acs.organomet.5b00665
- 18. One-Pot Synthesis of 1,3-Bis(phosphinomethyl)arene PCP/PNP Pincer Ligands and Their Nickel Complexes**
Wei-Chun Shih and Oleg V. Ozerov
Organometallics **2015** *34* (18), 4591-4597
DOI: 10.1021/acs.organomet.5b00671

19. Tetracarbonyl(trifluoromethyl)cobalt(I) [Co(CO)₄(CF₃)] as a Precursor to New Cobalt Trifluoromethyl and Difluorocarbene Complexes

Daniel J. Harrison, Alex L. Daniels, Iliia Korobkov, and R. Tom Baker

Organometallics **2015** *34* (18), 4598-4604

DOI: 10.1021/acs.organomet.5b00674

20. Metallathiacrown Ethers: Synthesis and Characterization of Transition-Metal Complexes Containing α,ω -Bis(phosphite)-Polythioether Ligands and an Evaluation of Their Soft Metal Binding Capabilities

Justin R. Martin, Aaron L. Lucius, and Gary M. Gray

Organometallics **2015** *34* (18), 4605-4617

DOI: 10.1021/acs.organomet.5b00693

21. Pd-Catalyzed Highly Enantioselective Synthesis of Planar Chiral Ferrocenylpyridine Derivatives

De-Wei Gao, Chao Zheng, Qing Gu, and Shu-Li You

Organometallics **2015** *34* (18), 4618-4625

DOI: 10.1021/acs.organomet.5b00730

22. Selective Aromatic C–H Hydroxylation Enabled by η^6 -Coordination to Iridium(III)

Erica M. D'Amato, Constanze N. Neumann, and Tobias Ritter

Organometallics **2015** *34* (18), 4626-4631

DOI: 10.1021/acs.organomet.5b00731