

Leupyrin

Angewandte Chemie, International Edition Total Syntheses

Biomimetic Total Synthesis of (-)-Penibruguieramine A Using Memory of Chirality and Dynamic Kinetic Resolution

Palladium-Catalyzed Decarbonylative Dehydration for the Synthesis of α -Vinyl Carbonyl Compounds and Total Synthesis of (-)-Aspewentins A, B, and C

Pentafulvene for the Synthesis of Complex Natural Products: Total Syntheses of (\pm)-Pallambins A and B

Enantioselective Total Synthesis of (-)-Hosieine A

10-Step Asymmetric Total Synthesis and Stereochemical Elucidation of (+)-Dragmacidin D

Total Synthesis and Structural Revision of Antibiotic CJ-16,264

1 Total Synthesis of Limonin

Isolation and Total Synthesis of Kirkamide, an Aminocyclitol from an Obligate Leaf Nodule Symbiont

Total Synthesis of Diterpenoid Steenkrotin A

A Modular Approach to the Total Synthesis of Tunicamycins

Catalytic Asymmetric Total Synthesis of (-)-Galanthamine and (-)-Lycoramine

A Concise and Scalable Strategy for the Total Synthesis of Dictyodendrin B Based on Sequential C-H Functionalization

2 Total Synthesis of Schilancitrilactones B and C

3 Total Synthesis of Trioxacarcin DC-45-A2

4 Total Synthesis of Ramonanins A-D

Total synthesis of albicidin: A lead structure from *xanthomonas albilineans* for potent antibacterial gyrase inhibitors

Total synthesis and biological evaluation of the antibiotic lysocin E and its enantiomeric, epimeric, and N-demethylated analogues

Total Synthesis of Leucosceptroids A and B

Short, Enantioselective Total Synthesis of Chatancin

Total Synthesis of Indole Alkaloid Alsmaphorazine D

Total Synthesis, Stereochemical Reassignment, and Biological Evaluation of (-)-Lyngbyaloside B

Total Synthesis and Structural Revision of (+)-Uprolide G Acetate

Total Synthesis of Ascospiroketal A Through a AgI-Promoted Cyclization Cascade

Enantioselective, Protecting-Group-Free Total Synthesis of Sarpagine Alkaloids-A Generalized Approach

Total Synthesis of the Tiacuminicin B (Lipiarmycin A3/Fidaxomicin) Aglycone

Total Synthesis of (-)-Caprazamycin A

Nobel Prize in Chemistry Topics

- _____ 1950 Cycloadditions
- _____ 1953 Macromolecules
- _____ 1954 Chemical bonding and structure
- _____ 1955 Bioorganic sulfur compounds
- _____ 1963 Polymerization catalysts
- _____ ~~1965 Organic synthesis~~
- _____ 1967 Flash photolysis
- _____ ~~+ 1969 Conformational isomerism~~
- _____ 1973 Organometallic sandwich compounds
- _____ ~~1975 Stereochemistry~~
- _____ 1976 Chemical bonding and structure
- _____ 1979 Boron reagents
- _____ 1979 Phosphorous reagents
- _____ 1981 Mechanistic models for chemical reactions
- _____ 1984 Chemical synthesis on a solid support
- _____ 1987 Host–guest chemistry
- _____ 1990 Retrosynthesis
- ① ~~* 1994 Carbocations~~
- _____ 1996 Fullerenes
- _____ 2000 Conductive polymers
- ③ 2001 Oxidations
- _____ 2001 Reductions
- _____ 2005 Metathesis reactions
- _____ 2010 Cross-coupling reactions

(+)-Zincophorin Methyl Ester *J. Am. Chem. Soc.* **2015** *137* (28), 8900

Yaku'amides A and B *J. Am. Chem. Soc.* **2015** *137* (29), 9443

Shishijimicin A *J. Am. Chem. Soc.* **2015** *137* (27), 8716

(-)-Nodulisporic Acid D *J. Am. Chem. Soc.* **2015** *137* (22), 7095

(+)-Muironolide A *J. Am. Chem. Soc.* **2015** *137* (18), 5907

Gelsemoxonine *J. Am. Chem. Soc.* **2015** *137* (18), 6084

Paspaline *J. Am. Chem. Soc.* **2015** *137* (15), 4968

Leupyrrin A1 *J. Am. Chem. Soc.* **2015** *137* (12), 4086

(-)-Calyciphylline N *J. Am. Chem. Soc.* **2015** *137* (10), 3510

Legionaminic Acid *J. Am. Chem. Soc.* **2015** *137* (8), 2848

(+)-Sibirinine *J. Am. Chem. Soc.* **2015** *137* (3), 1040

trans-Clerodane *J. Am. Chem. Soc.* **2015** *137* (2), 660; **2015** *137* (14), 4874

(-)-Maoecrystal V *J. Am. Chem. Soc.* **2014** *136* (51), 17750

Hongoquercin B *J. Am. Chem. Soc.* **2014** *136* (49), 17013

(+)-Aszonalenin and (-)-Brevicompanine B *J. Am. Chem. Soc.* **2014** *136* (48), 16756

Rubriflordilactone A *J. Am. Chem. Soc.* **2014** *136* (47), 16477

Viridicatumtoxin B *J. Am. Chem. Soc.* **2014** *136* (34), 12137

Tetrahydrolipstatin *J. Am. Chem. Soc.* **2014** *136* (30), 10814

(+)-Ileabethoxazole *J. Am. Chem. Soc.* **2014** *136* (24), 8829

(-)-Lepenine *J. Am. Chem. Soc.* **2014** *136* (18), 6598

(±)-Sorbiterrin A *J. Am. Chem. Soc.* **2014** *136* (9), 3374

(-)-Calyciphylline N *J. Am. Chem. Soc.* **2014** *136* (3), 870