

ChemistryOpen

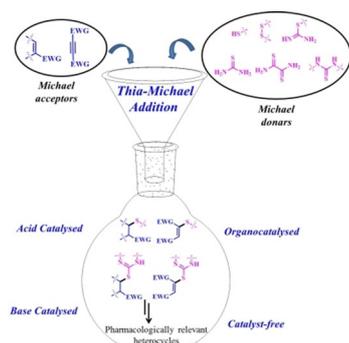
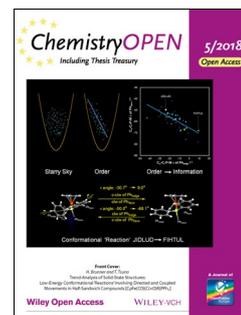
DOI: 10.1002/open.201700168

## Antitumor Agents

R. Kaczmarek, D. Korczyński, K. Królewska-Golińska, K. A. Wheeler, F. A. Chavez, A. Mikus, R. Dembinski\*

Organometallic Nucleosides: Synthesis and Biological Evaluation of Substituted Dicobalt Hexacarbonyl 2'-Deoxy-5-oxopropynyluridines

**Stressed out:** Dicobalt hexacarbonyl 5-oxopropynyl-2'-deoxyuridines and a corresponding 1,1-bis(diphenylphosphino)methane (dppm) complex are investigated. The cobalt carbonyl unit is essential to achieve a cytotoxic effect against HeLa and K562 human cancer cells in vitro; the formation of reactive oxygen species in K562 cells indicates that the mechanism of action may be related to the induction of oxidative stress.



Asian J. Org. Chem.

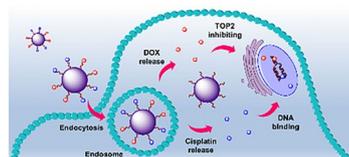
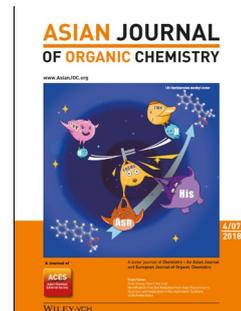
DOI: 10.1002/ajoc.201700609

## Synthetic Methods

P. Wadhwa, A. Kharbanda, A. Sharma\*

Thia-Michael Addition: An Emerging Strategy in Organic Synthesis

**The road to addition:** The advent of the thia-Michael addition reaction in organic synthesis and its ever-burgeoning applications in the fields of medicinal chemistry, catalysis, drug discovery, and materials science has been a profound scientific development. This Focus Review plots the journey of the thia-Michael addition reaction in organic synthesis, and is categorized according to catalyzed and catalyst-free thia-Michael addition reaction.



ChemNanoMat

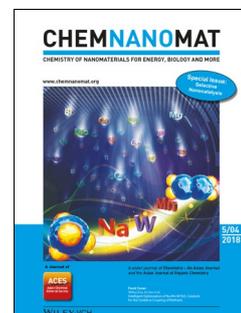
DOI: 10.1002/cnma.201700367

## Cancer Therapy

T. Feng, H. J. Chua, Y. Zhao\*

Carbon-Dot-Mediated Co-Administration of Chemotherapeutic Agents for Reversing Cisplatin Resistance in Cancer Therapy

**What's up DOX?** Cisplatin(IV) prodrug and doxorubicin (DOX) are co-loaded on full-color emissive carbon dots (CDs-Pt(IV)-DOX) through tumor intracellular environment-responsive covalent bonds to successfully reverse the resistance of cisplatin in cancer therapy.



ChemViews magazine

DOI: 10.1002/chemv.201800029

## Chemical Elements

K. Roth

New Kids on the Table: Is Element 118 a Noble Gas?

The periodic table of the elements is one of mankind's greatest discoveries in nature. Klaus Roth tells the story of the heaviest element so far, element 118, from its first synthesis to its official inclusion in the periodic table.

