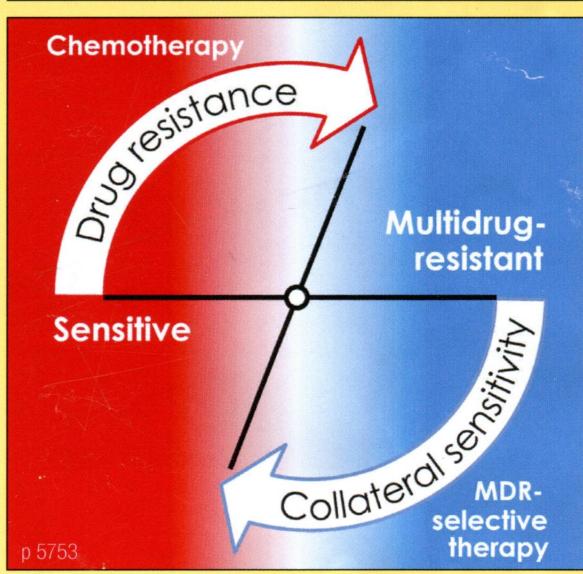
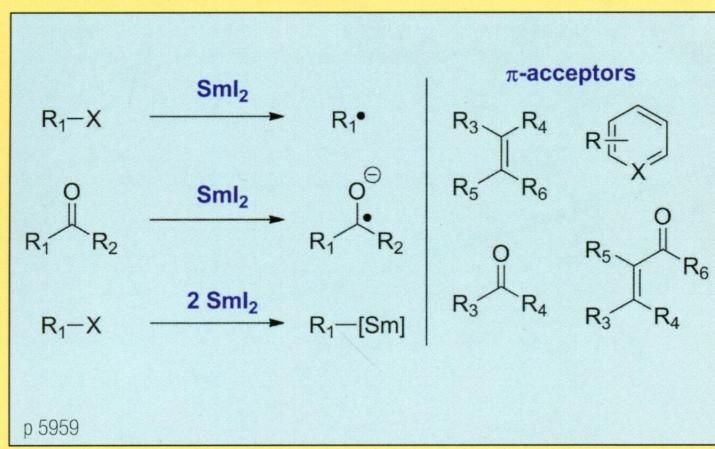
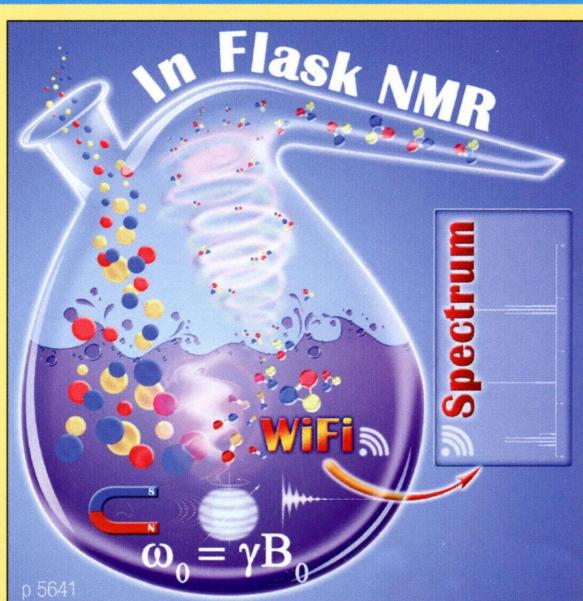


ПИ
С 51/2 R

CHEMICAL REVIEWS

JUNE 11, 2014

VOLUME 114 NUMBER 11 pubs.acs.org/CR



ACS Publications
Most Trusted. Most Cited. Most Read.

www.acs.org

Reviews

5611

[dx.doi.org/10.1021/cr400573b](https://doi.org/10.1021/cr400573b)**Aprotic and Aqueous Li–O₂ Batteries**

Jun Lu, Li Li, Jin-Bum Park, Yang-Kook Sun,* Feng Wu,* and Khalil Amine*

5641

[dx.doi.org/10.1021/cr400063g](https://doi.org/10.1021/cr400063g)**Miniaturization of NMR Systems: Desktop Spectrometers, Microcoil Spectroscopy, and “NMR on a Chip” for Chemistry, Biochemistry, and Industry**

Sergey S. Zalesskiy, Ernesto Danieli, Bernhard Blümich,* and Valentine P. Ananikov*

5695

[dx.doi.org/10.1021/cr4006473](https://doi.org/10.1021/cr4006473)**Metal–Organic Frameworks for Air Purification of Toxic Chemicals**

Jared B. DeCoste* and Gregory W. Peterson*

5728

[dx.doi.org/10.1021/cr400623d](https://doi.org/10.1021/cr400623d)**Advances in Plasmonic Technologies for Point of Care Applications**

Onur Tokel, Fatih Inci, and Utkan Demirci*

5753

[dx.doi.org/10.1021/cr4006236](https://doi.org/10.1021/cr4006236)**Targeting the Achilles Heel of Multidrug-Resistant Cancer by Exploiting the Fitness Cost of Resistance**

Gergely Szakács,* Matthew D. Hall, Michael M. Gottesman, Ahcène Boumendjel, Remy Kachadourian, Brian J. Day, Hélène Baubichon-Cortay, and Attilio Di Pietro*

5775

[dx.doi.org/10.1021/cr400291c](https://doi.org/10.1021/cr400291c)**Metal Complex Catalysis in the Synthesis of Spirocyclic Compounds**

Vladimir A. D'yakonov,* Ol'ga A. Trapeznikova, Armin de Meijere, and Usein M. Dzhemilev

5815

[dx.doi.org/10.1021/cr400401e](https://doi.org/10.1021/cr400401e)**Discovery, Synthesis, and Structure–Activity Relationships of Conotoxins**

Kalyana B. Akondi, Markus Muttenthaler, Sébastien Dutertre, Quentin Kaas, David J. Craik,* Richard J. Lewis,* and Paul F. Alewood*

5848

[dx.doi.org/10.1021/cr400689s](https://doi.org/10.1021/cr400689s)

Single Electron Transfer in Radical Ion and Radical-Mediated Organic, Materials and Polymer Synthesis

Na Zhang, Shampa R. Samanta, Brad M. Rosen, and Virgil Percec*

5959

[dx.doi.org/10.1021/cr400685r](https://doi.org/10.1021/cr400685r)

Cross-Coupling Reactions Using Samarium(II) Iodide

Michał Szostak,* Neal J. Fazakerley, Dixit Parmar, and David J. Procter*

6040

[dx.doi.org/10.1021/cr400341h](https://doi.org/10.1021/cr400341h)

Safe Clinical Use of Carbon Nanotubes as Innovative Biomaterials

Naoto Saito,* Hisao Haniu, Yuki Usui, Kaoru Aoki, Kazuo Hara, Seiji Takanashi, Masayuki Shimizu, Nobuyo Narita, Masanori Okamoto, Shinsuke Kobayashi, Hiroki Nomura, Hiroyuki Kato, Naoyuki Nishimura, Seiichi Taruta, and Morinobu Endo

Additions and Corrections

6080

[dx.doi.org/10.1021/cr5002194](https://doi.org/10.1021/cr5002194)

Correction to Fluorescence and Phosphorescence from Higher Excited States of Organic Molecules

Takao Itoh*