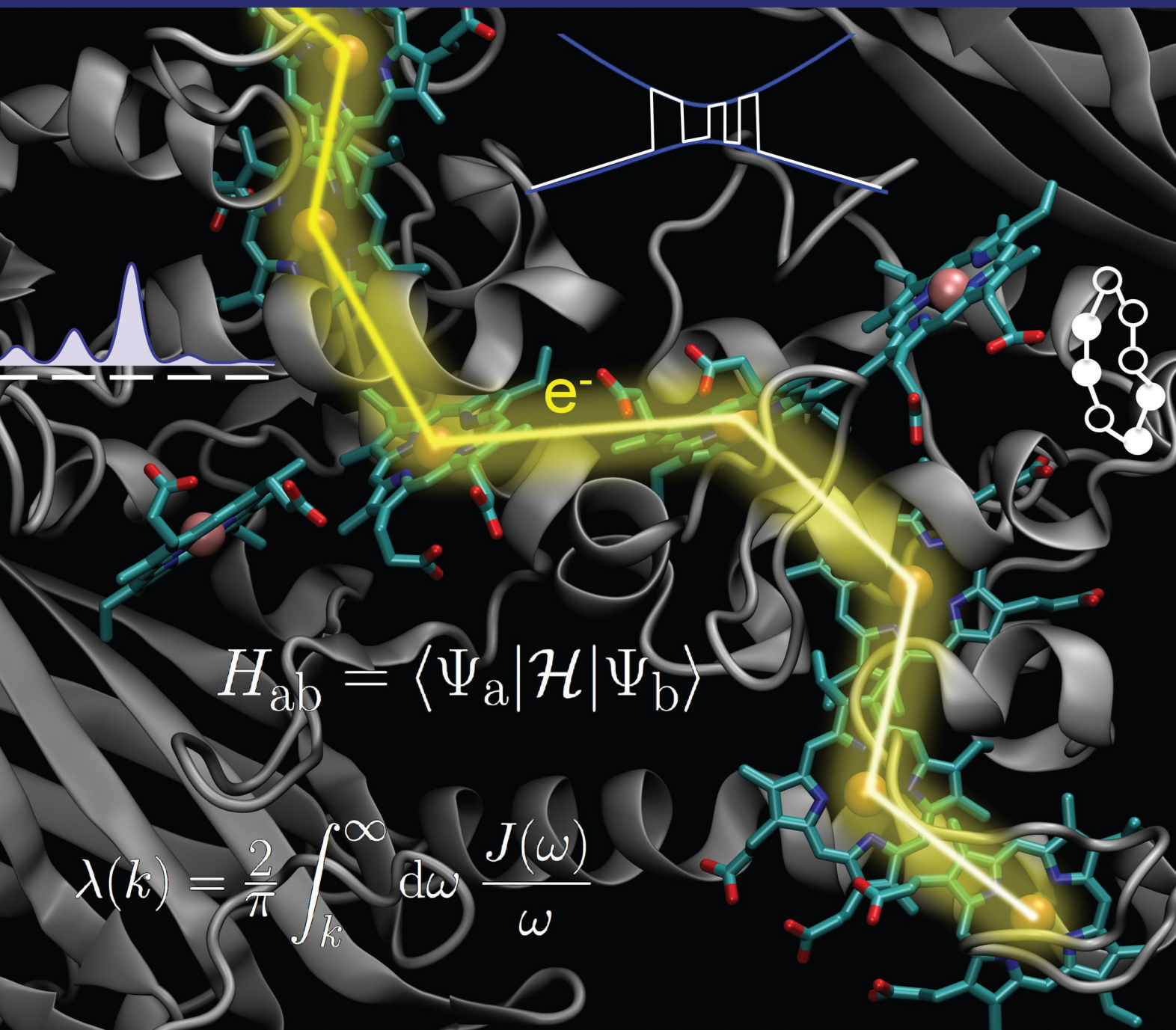


# CHEMICAL REVIEWS

OCTOBER 28, 2015

VOLUME 115 NUMBER 20

pubs.acs.org/CR



ACS Publications  
Most Trusted. Most Cited. Most Read.

www.acs.org

# CHEMICAL REVIEWS

October 28, 2015: Vol. 115, Iss. 20

## Content

- 1. Recent Advances in the Theory and Molecular Simulation of Biological Electron Transfer Reactions**  
Jochen Blumberger  
*Chemical Reviews* **2015** *115* (20), 11191-11238  
DOI: 10.1021/acs.chemrev.5b00298
- 2. Nonbiaryl and Heterobiaryl Atropisomers: Molecular Templates with Promise for Atropselective Chemical Transformations**  
Elango Kumarasamy, Ramya Raghunathan, Mukund P. Sibi, and J. Sivaguru  
*Chemical Reviews* **2015** *115* (20), 11239-11300  
DOI: 10.1021/acs.chemrev.5b00136
- 3. Harnessing the Synergistic and Complementary Properties of Fullerene and Transition-Metal Compounds for Nanomaterial Applications**  
Maria A. Lebedeva, Thomas W. Chamberlain, and Andrei N. Khlobystov  
*Chemical Reviews* **2015** *115* (20), 11301-11351  
DOI: 10.1021/acs.chemrev.5b00005
- 4. UV, Blue, Green, Yellow, Red, and Small: Newest Developments on Eu<sup>2+</sup>-Doped Nanophosphors**  
Huayna Terraschke and Claudia Wickleder  
*Chemical Reviews* **2015** *115* (20), 11352-11378  
DOI: 10.1021/acs.chemrev.5b00223
- 5. Protic Ionic Liquids: Evolving Structure–Property Relationships and Expanding Applications**  
Tamar L. Greaves and Calum J. Drummond  
*Chemical Reviews* **2015** *115* (20), 11379-11448  
DOI: 10.1021/acs.chemrev.5b00158
- 6. Pursuing the Crystallization of Mono- and Polymetallic Nanosized Crystalline Inorganic Compounds by Low-Temperature Wet-Chemistry and Colloidal Routes**  
Stefano Diodati, Paolo Dolcet, Maurizio Casarin, and Silvia Gross  
*Chemical Reviews* **2015** *115* (20), 11449-11502  
DOI: 10.1021/acs.chemrev.5b00275
- 7. Carbene Ligands in Surface Chemistry: From Stabilization of Discrete Elemental Allotropes to Modification of Nanoscale and Bulk Substrates**  
Aleksandr V. Zhukhovitskiy, Michelle J. MacLeod, and Jeremiah A. Johnson  
*Chemical Reviews* **2015** *115* (20), 11503-11532  
DOI: 10.1021/acs.chemrev.5b00220
- 8. Flow Batteries: Current Status and Trends**  
Grigorii L. Soloveichik  
*Chemical Reviews* **2015** *115* (20), 11533-11558  
DOI: 10.1021/cr500720t