

# Accepted Manuscript

Review

Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes

Seungwoo Hong, Yong-Min Lee, Kallol Ray, Wonwoo Nam

PII: S0010-8545(16)30193-X

DOI: <http://dx.doi.org/10.1016/j.ccr.2016.07.006>

Reference: CCR 112289

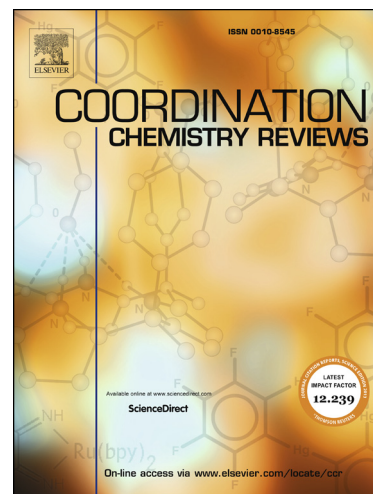
To appear in: *Coordination Chemistry Reviews*

Received Date: 10 May 2016

Accepted Date: 8 July 2016

Please cite this article as: S. Hong, Y.-M. Lee, K. Ray, W. Nam, Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes, *Coordination Chemistry Reviews* (2016), doi: <http://dx.doi.org/10.1016/j.ccr.2016.07.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



# Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes

Seungwoo Hong <sup>a</sup>, Yong-Min Lee <sup>a</sup>, Kallol Ray <sup>b,\*</sup>, Wonwoo Nam <sup>a,\*</sup>

<sup>a</sup> Department of Bioinspired Chemistry, Department of Chemistry and Nano Science, Ewha Womans University, Seoul 03760, Korea

<sup>b</sup> Department of Chemistry, Humboldt-Universität zu Berlin, Brook Taylor Strasse 2, 12489 Berlin, Germany•

E-mail: kallol.ray@chemie.hu-berlin.de, wwnam@ewha.ac.kr

## Contents

1. Introduction
2. O<sub>2</sub>-activation by mononuclear nonheme iron complexes
  - 2.1. Factors affecting dioxygen activation reactions
  - 2.2. Autocatalytic O<sub>2</sub>-activation
  - 2.3. Photochemical O<sub>2</sub>-activation
3. O<sub>2</sub>-activation by copper complexes
4. O<sub>2</sub>-activation by chromium complexes
5. Conclusion

Acknowledgement

References

Download English Version:

<https://daneshyari.com/en/article/5150930>

Download Persian Version:

<https://daneshyari.com/article/5150930>

[Daneshyari.com](https://daneshyari.com)