



Search here...

[Login](#)[Register](#)[Cart \(0\)](#)

Current Nanoscience

[Editor-in-Chief](#)

ISSN (Print): 1573-4137

ISSN (Online): 1875-6786

[Back](#) [Journal](#) [Subscribe](#)[General Review Article](#)

Schiff Base Metal Complexes Precursor for Metal Oxide Nanomaterials: A Review

Author(s): [Meghshyam K. Patil](#), [Vijay H. Masand](#) and [Atish K. Maldhure*](#)

Volume 17, Issue 4, 2021

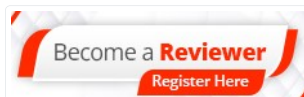
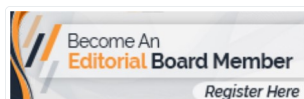
Published on: 27 November, 2020

Page: [634 - 645]

Pages: 12

DOI: [10.2174/1573413716999201127112204](https://doi.org/10.2174/1573413716999201127112204)

Price: \$65

[Purchase PDF](#)

Abstract

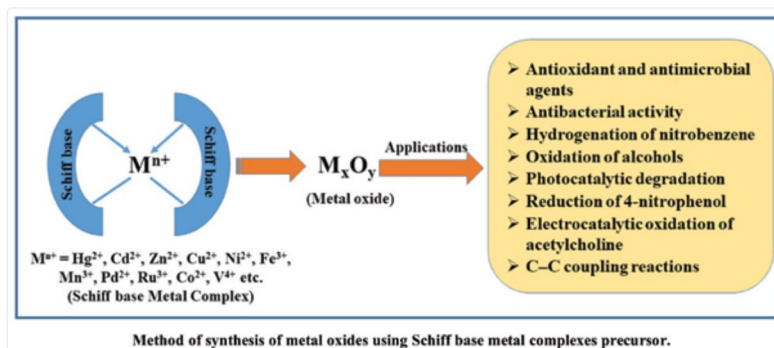
Schiff bases and their complexes are versatile compounds, which have been synthesized from the condensation of carbonyl compounds with amino compounds and exhibit a broad range of applications in biological, medicinal, catalysis, and industrial purposes. Furthermore, Schiff basemetal complexes have been used as a precursors for the synthesis of different metal oxides, which include oxides of iron, cobalt, copper, nickel, manganese, vanadium, cadmium, zinc, mercury, etc. and ferrites such as Fe_3O_4 , ZnFe_2O_4 , and ZnCo_2O_4 . These metal oxides have been utilized for several applications as a catalyst for several organic transformations and for biological activity. This review encompasses different methods of synthesis of metal oxides using Schiff base metal complexes precursor, their characterization, and various applications in detail.

Keywords: Schiff base, metal complexes, metal oxide, nanomaterial, synthesis, characterization, applications.

« Previous

Next »

Graphical Abstract



References

Mark Item

Purchase PDF

Rights & Permissions

Print

Cite

Article Metrics



PDF

46



HTML

1



11 Total citations
10 Recent citations
1.81 Field Citation Ratio
n/a Relative Citation Ratio

FIND YOUR INSTITUTION

Journal Information

> About Journal

> Editorial Board

> Current Issue

> Volumes /Issues

For Authors

For Editors

For Reviewers

Explore Articles

Open Access

For Visitors

{

© 2024 Bentham Science Publishers | [Privacy Policy](#)