

REVIEWS IN INORGANIC CHEMISTRY

EDITOR-IN-CHIEF

Axel Schulz, Rostock

EDITORIAL BOARD

Simon Aldridge, Oxford

Neil Burford, Victoria

Lee Cronin, Glasgow

Kim Rene Dunbar, College Station

Max Holthausen, Frankfurt/Main

Hubert Huppertz, Innsbruck

Xiaoming Liu, Jiaxing

Uwe Rosenthal, Rostock

Alexander Schiller, Jena

Stephan Schulz, Essen

Jürgen Senker, Bayreuth

Carsten von Hänisch, Marburg

Kyung Byung Yoon, Seoul

Xian-Ming Zhang, Linfen

DE GRUYTER

ABSTRACTED/INDEXED IN Baidu Scholar · Chemical Abstracts Service (CAS): CAPlus; SciFinder · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC: cnpLINKer · Dimensions · EBSCO (relevant databases) · EBSCO Discovery Service · Genamics JournalSeek · Google Scholar · Japan Science and Technology Agency (JST) · J-Gate · Journal Citation Reports/Science Edition · JournalGuide · JournalTOCs · KESLI-NDSL (Korean National Discovery for Science Leaders) · MyScienceWork · Naver Academic · Naviga (Softweco) · Paperbase · Polymer Library · Primo Central (ExLibris) · ProQuest (relevant databases) · Publons · QOAM (Quality Open Access Market) · ReadCube · Reaxys · Scilit · SCImago (SJR) · SCOPUS · Semantic Scholar · Sherpa/RoMEO · Summon (ProQuest) · TDNet · Ulrich's Periodicals Directory/ulrichsweb · WanFang Data · Web of Science: Current Contents/Physical, Chemical and Earth Sciences; Reaction Citation Index; Science Citation Index Expanded · WorldCat (OCLC) · X-MOL · Yewno Discover

The publisher, together with the authors and editors, has taken great pains to ensure that all information presented in this work (programs, applications, amounts, dosages, etc.) reflects the standard of knowledge at the time of publication. Despite careful manuscript preparation and proof correction, errors can nevertheless occur. Authors, editors and publisher disclaim all responsibility for any errors or omissions or liability for the results obtained from use of the information, or parts thereof, contained in this work.

The citation of registered names, trade names, trademarks, etc. in this work does not imply, even in the absence of a specific statement, that such names are exempt from laws and regulations protecting trademarks etc. and therefore free for general use.

ISSN 0193-4929 · e-ISSN 2191-0227

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/revic.

RESPONSIBLE EDITOR Prof. Axel Schulz, Institut für Chemie, Abteilung Anorganische Chemie, Universität Rostock, Albert-Einstein-Straße 3a, 18059 Rostock, Germany, Tel.: +49 (0)381/498-6400, E-mail: axel.schulz@uni-rostock.de

PUBLISHER Walter de Gruyter GmbH, Berlin/Boston, Genthiner Straße 13, 10785 Berlin, Germany

JOURNAL MANAGER Dr. David Sleeman, De Gruyter, Argentine Straße 13, 10785 Berlin, Germany.
E-Mail: David.Sleeman@degruyter.com

ADVERTISEMENTS e-mail: anzeigen@degruyter.com

© 2023 Walter de Gruyter GmbH, Berlin/Boston, Germany

TYPESETTING TNQ Technologies, Chennai, India

PRINTING Franz X. Stücker Druck und Verlag e.K., Ettenheim



Contents

Gabriela Soriano-Giles, Edwin A. Giles-Mazón, Nazario Lopez, Eric Reinheimer, Victor Varela-Guerrero and María F. Ballesteros-Rivas

Metal organic frameworks (MOFS) as non-viral carriers for DNA and RNA delivery: a review — 201

Linjing Hao, Tingting Zhang, Haoran Sang, Suyu Jiang, Jie Zhang and Jinghe Yang

Advances in facet-dependent photocatalytic properties of BiOCl catalyst for environmental remediation — 221

Ali Ouasri

Recent advances on structural, thermal, vibrational, optical, phase transitions, and catalysis properties of alkylendiammonium halogenometallate materials (Metal: Bi, Sb, Halogen: Cl, Br, I) — 247

Huan Su, Lai Hu, Senqiang Zhu, Jiapeng Lu, Jinyang Hu, Rui Liu and Hongjun Zhu

Transition metal complexes with strong and long-lived excited state absorption: from molecular design to optical power limiting behavior — 281

Yetzin Rodríguez Mejía, Fernando Romero Romero, Murali Venkata Basavanag Unnamatla,

Maria Fernanda Ballesteros Rivas and Victor Varela Guerrero
Metal-Organic Frameworks as bio- and heterogeneous catalyst supports for biodiesel production — 323