



Endohedral Metallofullerenes: Basics and Applications

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Knowledge on endohedral metallofullerenes (EMFs) has increased dramatically during the last decade. Numerous research findings have been reported, making it an opportune time to provide a systematic update on EMFs.

Endohedral Metallofullerenes: Basics and Applications presents the most comprehensive review on all aspects of EMFs including their generation, extraction and isolation, structural issues, theories, intrinsic properties, chemical behaviors, and potential applications. In this book, the editors have collected an impressive amount of information regarding this family of a truly *sui generis* form of matter.

The book's authors were chosen for their specific expertise in EMF research and have been gathered from top research groups from around the world. Graduate students, newcomers to the field, and experienced researchers alike will find this book a highly useful reference on the topic.



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Editorial Review

About the Author

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Xing Lu is a professor at Huazhong University of Science and Technology and is supported by The National Thousand Talents Program of China. He received his PhD from Peking University and worked as a COE postdoctoral fellow at Nagoya University in Japan. Dr. Lu's research interests lie in the rational design and facile generation of novel hybrid carbon materials with applications in energy storage/conversion and biology. He has published more than 60 scientific papers and has received the Osawa Award from the Fullerenes and Nanotubes Research Society of Japan.

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Alan L. Balch is a Distinguished Professor of Chemistry at the University of California, Davis. He earned a BA in chemistry from Cornell University and a PhD from Harvard University. Dr. Balch's research interests include synthetic and structural studies of fullerenes and endohedral fullerenes, examination of metal-metal bonding and its effects on luminescence of transition metal complexes, and supramolecular chemistry in crystals. He has received the F. Albert Cotton Award in Synthetic Inorganic Chemistry from the American Chemical Society and is a Fellow of both the American Chemical Society and the American Association for the Advancement of Science.

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Takeshi Akasaka is a former professor at Niigata University and University of Tsukuba in Japan. He is now a professor emeritus of University of Tsukuba and a senior researcher at the Foundation for Advancement of International Science in Japan. Dr. Akasaka's research interests include the organic chemistry of

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