

Handbook of Porphyrin Science (Volumes 31-35): With Applications to Chemistry, Physics, Materials Science, Engineering, Biology and Medicine

By Karl M Kadish

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This is the seventh set of Handbook of Porphyrin Science.


Porphyrins, phthalocyanines and their numerous analogue and derivatives are materials of tremendous importance in chemistry, materials science, physics, biology and medicine. They are the red color in blood (heme) and the green in leaves (chlorophyll); they are also excellent ligands that can coordinate with almost every metal in the Periodic Table. Grounded in natural systems, porphyrins are incredibly versatile and can be modified in many ways; each new modification yields derivatives, demonstrating new chemistry, physics and biology, with a vast array of medicinal and technical applications.

As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields, the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis, chemistry, physicochemical and medical properties and applications of polypyrrole macrocycles. Professors Karl Kadish, Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins, each having his own separate area of expertise in the field. Between them, they have published over 1500 peer-reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines. In assembling the new volumes of this unique handbook, they have selected and attracted the very best scientists in each sub-discipline as contributing authors.

This handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up-to-date works by world-renowned experts in the field. Complete with hundreds of figures, tables and structural formulas, and thousands of literature citations, all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential, major reference source for many years to come.

Readership: Chemists, physicists, material scientists, polymer scientists, spectroscopists, electrochemists, electronics and photonics engineers, biochemists, biophysicists, medicinal chemists and clinicians.

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Editorial Review

From the Inside Flap

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About the Author

Karl M Kadish is a Hugh Roy and Lillie Cranz Cullen University Professor at the University of Houston. He received his PhD from Pennsylvania State University and was a postdoctoral fellow at the University of New Orleans and a Charge de Recherche at the University of Paris VI. Dr Kadish's research interests are in analytical chemistry, porphyrin chemistry, chemistry and electrochemistry of biological compounds, redox reactions of metal complexes, spectroelectrochemistry and fullerene chemistry. He has published over 540 research papers and edited or co-edited 70 books. Dr Kadish has been the Editor-in-Chief of the Journal of Porphyrins and Phthalocyanines since 2003 and has also served as President of the Society of Porphyrins and Phthalocyanines since 2000.

Kevin M Smith is the LSU Foundation James C. Bolton Distinguished Professor of Chemistry in Louisiana State University. Dr. Smith has received the Corday-Morgan Medal and Prize from the Royal Society of Chemistry, UK, the Alfred Bader Award in Bioorganic or Bioorganic Chemistry from the American Chemical Society, USA, and the Robert Burns Woodward Career Achievement Award from the Society of Porphyrins and Phthalocyanines. He has more than 750 publications, has edited or coedited 57 books on the topics of porphyrins and related molecules, and has been awarded eight patents.

Roger Guilard is Professor of Chemistry at the University of Burgundy in France. He received his PhD from the University of Dijon and was a postdoctoral fellow at the University of Basel and Darmstadt. He has been the recipient of the Coordination Chemistry Award from the French Chemical Society and of two Awards from the French Academy of Sciences. He received the "Grand Prix de l'Académie des Sciences", "Prix Gaz de France" in 2001 and the "Robert Burns Woodward Career Award in Porphyrin Chemistry" in

2010. He was elected as a fellow of the European Academy of Sciences in 2011. He has published over 450 papers and reviews and has been awarded 22 patents in the area of heterocyclic chemistry, organometallic chemistry and coordination chemistry. He has contributed to the creation of two specialized chemical companies in the synthesis of macrocycles. He edited and co-edited 52 books which are devoted to the topics of porphyrins and related molecules.

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