



EMERGING DOMAINS OF MATERIAL SCIENCE

First Edition

Dr. Ratindra Gautam

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Editor

Dr. Ratindra Gautam

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Preface

Emerging Domains of Material Science is oriented towards interdisciplinary studies and application of material science. The recent advances have explored several other dimensions in different areas of the science and engineering. This book inarticulate the emerging fields of material science and their application in different areas. It also discusses the currently ongoing research which includes the materials used in batteries, treatment of emerging pollutants, biofuels and radioactive waste treatment. The amalgamation of traditional application of materials for conducting polymers and the trending green synthesis/ biosynthesis is also focused on the computational aspect of material sciences. .

I am thankful to Thanuj International Publishers who readily accepts and publish this subject. I sincerely thank and express my gratitude to the authors for their articles, namely Dr. C.K. Kaithwas, Dr. D. K. Rao, Er. Anurag Singh, Er. U.C. Verma, Er. Naveen Patel, Dr. Asheesh Kumar, Dr. Surya Pratap Goutam, Prof. Devesh Kumar, Er. Dhananjai Rai, Er. Sauhardra Ojha, Er. Ashwani Kumar Sonkar, Er. Amresh Kumar Yadav, Dr. Vinod Kumar Chaudhary, Er. Atul Sharma, Er. Prince Poddar, Er. Akhilesh Kumar, Er. Bipin Prajapati, Er. Manvendra Pratap Singh, Er. Janendra Pratap, Ms. Shivani Chaudhary, Dr. Udai Bhan Singh, Er. Amit Singh, Er. Kanhaiya Lal Pandey, Er. Piyush Rai, Er. Mohd. Zafar Ali Khan, Er. Atul Sharma, Dr. Priyanka Srivastava, Dr. Utkarsh Kumar and Dr. Toton Haldar. I would specially mention Dr. Utkarsh Kumar, Dr. Toton Haldar and Ms. Shivani Chaudhary for their efforts and hard work that they have put in the technical help in editing this book.

Note: Authors of the book chapters are solely responsible for the idea and context of the book

About Editor



Dr. Ratindra Gautam is currently working as Assistant Professor in Institute of Engineering and Technology, Department of Applied Science, Dr. R.M.L. Avadh University, Faizabad (Ayodhya), Uttar Pradesh, India. He served as an Assistant Professor in the Department of Isabella Thoburn College, Lucknow for two years. He has completed his Ph.D.in Physics from Babasaheb Bhimrao Ambedkar University, Lucknow. He has 5 years of teaching experience in U.G and P.G classes, and published 3 book chapters and 10 research papers. He did his M. Sc (Gold Medalist) from Babasaheb Bhimrao Ambedkar University and his B. Sc (Electronics) is from University of Lucknow. He qualified CSIR-UGC NET in 2012, 2013 and CSIR-UGC JRF in 2014.

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