

Naphthalene diimides: perspectives and promise

Sheshanath V. Bhosale,* Mohammad Al Kobaisi, Ratan W. Jadhav, Pranay P. Morajkar,^a Lathe A. Jones and Subi George

Chem. Soc. Rev., 2021, Advance Article, <https://doi.org/10.1039/D0CS00239A>

Review article published in Chemical Society Review having impact factor 54.564 by Prof. Sheshanath Bhosale group entitled "[Naphthalene diimides: perspectives and promise](#)", with his student Mr. Ratan W. Jadhav and colleague Dr. Pranay Morajkar. This is an excellent achievement for the Goa University by means of encouragement for young faculty but also young faculty should think outside of box to work in the different areas.

In this article, Prof. Bhosale has outline recent development of naphthalene diimides (NDIs) from 2016-to present referring using >560 references, he has given the depth of development of NDI is various field such as including supramolecular chemistry, sensing, host–guest complexes for molecular switching devices, such as catenanes and rotaxanes, ionchannels, catalysis, and medicine and as non-fullerene accepters in solar cells, due to all NDIs possess high electron affinity, good charge carrier mobility, and excellent thermal and oxidative stability, making them promising candidates. This review not only give breakthrough in the field but excellent platform for young Indian minds (Scientist) to work in this field Due to the tools and background that the field now has as its disposal, the authors feel that this breakthrough will not be too far away. Overall, this review will assist a wide range of readers and researchers including chemists, physicists, biologists, medicinal chemists and materials scientists in understanding the scope for development and applicability of NDI dyes in their respective fields and of the status of emerging applications.

[Professor Sheshanath V. Bhosale](#) currently working at School of Chemical Sciences, Goa University, as a UGC-FRP Professor. After receiving PhD from Berlin Germany, 2 years Postdoc at Switzerland having Roche Foundation Fellowship. Then he also worked at Monash Univrsity, Australia for 5 years and RMIT University, Australia for 6 years as ARC-Future Fellowship.



Mr Ratan W. Jadhav, he is pursuing his PhD degree under Prof. Sheshanath V. Bhosale at the School of Chemical Sciences, Goa University, Goa, having NET-JRF fellowship. He has recently been promoted to senior research fellow under UGC-NET.



[Dr Pranay P. Morajkar](#) is currently working as Assistant Professor of Physical Chemistry at SCS, GU since 2014. He has a Ph.D. from University of Science & Technology Lille1 (France) and served as a CNRS Post-doctoral Research Associate at LRGP, Nancy France and visiting Post-doctoral Research Scientist at Khalifa University, U.A.E. His research work on the subject "Nanostructured Materials for Energy and Environmental Applications" is duly acknowledged with the award of Early Career Research Award by DST-SERB, UGC-BSR and Indo-European S&T Cooperation 2017 DST-INNO-INDIGO major research grants.

