



“Gheorghe Asachi” Technical University of Iasi, Romania



EDITORIAL

A SPECIAL ISSUE ON *ENVIRONMENTAL CONCERNS IN CHINA: MONITORING, ASSESSMENT AND MANAGEMENT*

In the past thirty years of reform, China's economy and society have undergone surprising changes. Its GDP has increased from 364.5 billion RMB in 1978 to 39.8 trillion RMB in 2010, and its share of total amount of the world economy has increased significantly. In spite of rapid economic development, China has paid heavy resources and environmental costs, and severe environmental pollutions have become a bottleneck to the continuing rapid development of China's economy. The protection of environment has become an important guarantee for China's sustainable economic development, which is the inevitable choice for the construction of a resource-saving and environmentally-friendly society as well.

At present, the process of industrialization in China is still far from competition. The construction of new industrialization is having just started and China has to continue to promote industrialization under resource and environmental constraints. In the meantime, these limitations will push China to make more effective use of resources and implement clean production, as well as to speed upgrades of the labor-intensive section in the high-tech industrial chain. Thus, under the dual pressures of the change of resource conditions and the international community, it is necessary for China to study how to improve the quality of economic growth and get rid of the development pathway of low-level production and pricing strategies. This would help China to achieve higher ratios of input-output and performance-price than in the past through technological progress and innovation management.

China's economic development is inevitable to face the trend of deep globalization, and an important way to enhance its competitiveness is to enhance the rate of economic growth while reducing pollution emissions and protecting environment.

This special issue of *Environmental Engineering and Management Journal (EEMJ)* includes papers developed based on the most recent research of Chinese scientists (mainland and overseas) and their colleagues worldwide, concerning environmental monitoring and assessment and findings on feasible measures for China's environment protection and improvement.

The issue provides studies on developing synthetic decision support systems and utilizing new proposed methods in environment monitoring area. Some research on establishing models for pollution emissions evaluation, risk analysis and economic policy assessment are also presented in this issue. Thereafter, the issue gives many studies on developing feasible ways to solve the conflicts between pollution emissions and economic growth in China.

The issue also provides a good opportunity for authors to illustrate their most recent findings and practical technologies on solving China's environmental problems for the perspectives of monitoring, assessment and management. We would like this special issue to be helpful for promoting the development of China's research in the challenging field of environmental protection and management.

Lots of thanks are given to all the authors invited in this special issue. All of them are very important to enrich the diversity of perspectives and contents of this issue.

In particular, we highly appreciate the great support of **Professor Matei Macoveanu**, the **Editor-in-Chief of EEMJ**, and **Professor Maria Gavrilescu**, the

Executive Editor, for providing the opportunity to dedicate a special issue of the journal to environmental issues in China, related to monitoring, assessment and management.

We also would like to thank all the reviewers for their effort and time involved in elaborating the evaluation reports on the manuscripts accepted in this special issue as well as for their suggestions to improve the quality of each paper.

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