



Dr. Rajender S. Varma – Senior Editorial Advisor and Associate Editor: Meet our expert for Journal of Materials NanoScience

Prof. Rajender (Raj) S. Varma was born in India. He did Ph.D., from Delhi University in 1976. After postdoctoral research at Robert Robinson Laboratories, Liver-pool, UK, he was faculty member at Baylor College of Medicine and Sam Houston State University prior to joining US Environmental Protection Agency (EPA) in 1999 with affiliation at Palacky University, Olomouc, Czech Republic (2014). He has over 45 years of experience in management of multi-disciplinary technical programs and is extensively involved in sustainable aspects of chemistry that includes, development of environmentally benign methods using alternate energy input using microwaves, ultrasound, photochemistry and mechano-chemistry and efficient technologies for the sustainable remediation of contaminants in the environment. Lately, he has focused on greener approaches to assembly of nanomaterials and sustainable applications of magnetically retrievable nanocatalysts in benign media. Dr. Varma has received numerous awards: Office of Research and Development (ORD) Sustainability Award (2015) from US EPA; Silver Medal for Superior Service-EPA for outstanding scientific and leadership contributions establishing EPA as a pioneering organization in Green Chemistry (2013), Visionary of the Year Award - Green Technology for Environment (2009), among others. He is on editorial advisory board of international journals and has published over 465 scientific papers and awarded 16 US Patents, 8 books, 27 book chapters and 3 encyclopedia contributions



with over ~ 33,000 citations (H -Index 100).

PUBLICATIONS

Selected from ~465 Peer-reviewed Papers, 7 Books, 28 Book Chapters and 3 Encyclopedia contributions; (~388 Presentations in National and International meetings).

- J. Kou, J. Wang, W. Sun, C. Lu, Z. Xuand, R.S. Varma. Selective Enhancement in Heterogeneous Photocatalytic Transformations. *Chemical Reviews*, **2017**, 117, 1445-1514.
- S. Varma, R.B. Nasir Baig, M.N. Nadagouda, C. Len, R.S. Varma. Sustainable Pathway to Furanics from Biomass via Heterogeneous Organo-Catalysis. *Green Chemistry*, **2017**, 19:164-168.
- R.S. Varma. Greener and Sustainable Trends in Synthesis of Organics and Nanomaterials. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5866-5878.
- M.B. Gawande, A. Goswami, F.-X. Felpin, T. Asefa, X. Huang, R. Silva, X. Zou, R. Zboril, R.S. Varma. Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. *Chemical Reviews*, 2016, 116, 3722-3811.

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Cite as: *J. Mat. NanoSci.*, 2018, 5(1), i-ii.

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- S. Verma, R.B. Nasir Baig, M.N. Nadagouda, R.S. Varma. Visible Light Mediated Upgrading of Biomass to Biofuel. *Green Chemistry*, **2016**, 18, 1327-1333.
- R.B. Nasir Baig, S. Verma, M.N. Nadagouda, R.S. Varma. A Photoactive Bimetallic Framework for Direct Aminoforylation of Nitroarenes. *Green Chemistry*, **2016**, 18, 1019-1022.
- V.K. Sharma, J. Filip, R. Zboril, R.S. Varma. Natural Inorganic Nanoparticles – Formation, Fate, and Toxicity in the Environment. *Chemical Society Reviews*, **2015**, 44, 8410-8423.
- M.B. Gawande, A. Goswami, T. Asefa, H. Guo, A.V. Biradar, D.-L. Peng, R. Zboril, R.S. Varma. Core-Shell Nanoparticles: Synthesis and Applications in Catalysis and Electrocatalysis. *Chemical Society Reviews*, **2015**, 44, 7540-7590.
- V.K. Sharma, R. Zboril, R.S. Varma. Ferrates: Greener Oxidants with Multimodal Action in Water Treatment Technologies. *Accounts of Chemical Research*, **2015**, 48, 182-191.
- R.B. Nasir Baig, M.N. Nadagouda, R.S. Varma. Magnetic Retrievable Catalysts for Asymmetric Synthesis. *Coordination Chemistry Reviews*, **2015**, 287, 137-156.
- R. Prucek, J. Tuček, J. Kolařík, I. Hušková, J. Filip, R.S. Varma, V.K. Sharma, R. Zboril. Ferrate (VI)-Prompted Removal of Metals in Aqueous Media: Mechanistic Delineation of Enhanced Efficiency via Metal Entrenchment in Magnetic Oxides. *Environmental Science and Technology*, **2015**, 49, 2319-2327.
- M.B. Gawande, S. Shelke, R. Zboril, R.S. Varma. Microwave-Assisted Chemistry: Synthetic Applications for Rapid Assembly of Nanomaterials and Organics. *Accounts of Chemical Research*, 2014, 47, 1338-1348.
- R.S. Varma. Journey on Greener Pathways: From the use of Alternate Energy Inputs and Benign Reaction Media to Sustainable Applications of Nano-Catalysts in Synthesis and Environmental Remediation. *Green Chemistry*, **2014**, 16, 2027-2041.
- M. Khatami, H.Q. Aljani, M.S. Nejad, R.S. Varma. Core@ shell Nanoparticles: Greener Synthesis Using Natural Plant Products. *Applied Sciences*, **2018**, 8(3), 411.

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