Rational Fabrication of Multifunctional Nanomaterials for Energy and Nanomedicine Applications and Elucidation of their Structure-Activity Relationships

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Short Biosketch: Professor Tewodros (Teddy) Asefa completed his BSc degree at Addis Ababa University, Ethiopia, with distinction in 1992. He then pursued his MSc as a Fulbright fellow in 1998 at the Department of Chemistry and the Institute for Lasers, Photonics and Biophotonics (ILPB) at the State University of New York (SUNY) at Buffalo, USA. Teddy then went to Toronto to complete his Ph.D. at the University of Toronto, Canada, in 2002 with Professor Geoffrey A. Ozin. While at Toronto, he co-invented new classes of nanocomposite materials called Periodic Mesoporous Organosilicas (PMOs) that have drawn a wide range of interest worldwide. He was then an invited Miller Fellowship nominee by Professor Peidong Yang at the University of California at Berkeley and a post-doctoral fellow at McGill University in Canada with Professor R. Bruce Lennox. He served for four years as an Assistant Professor of Chemistry at



Syracuse University, before joining Rutgers University at New Brunswick, where he currently serves as a joint Full Professor in the Department of Chemistry and Chemical Biology and the Department of Chemical and Biochemical Engineering. His group at Rutgers is involved in the development of synthetic methods to a wide array of functional nanomaterials and the investigation of their potential applications in catalysis, nanomedicine, solar-cells, and environmental remediation. He held NSF CAREER Award, was the National Science Foundation American Competitiveness Fellow (NSF ACI) Fellow in 2010, is a recipient of multiple federal and local research grants and also serves as a panelist for several federal and international agencies. He holds several patents, co-edited a book on Nanocatalysis (for Wiley) in 2013, and published over 170+ peer-reviewed scientific papers and 10 book chapters. He Google-Scholar citation record currently stands at over 13,700 with an h-Index of 52.