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About the Editor

Tuan Vo-Dinh is a Corporate Fellow, Group Leader and Director of the Center for Advanced Biomedical Photonics at Oak Ridge National Laboratory (ORNL), Oak Ridge, TN. A native of Vietnam and a naturalized US citizen, Dr. Vo-Dinh completed his high school education in Saigon (now Ho Chi Minh City) and went on to pursue his studies in Europe, where he received a PhD in biophysical chemistry in 1975 from the Swiss Federal Institute of Technology (known as ETH) in Zurich, Switzerland. His research has focused on the development of advanced technologies for the protection of the environment and the improvement of human health. His research activities involve laser spectroscopy, molecular imaging, medical diagnostics, cancer detection, chemical sensors, biosensors, biochips, nanosensors, and nanotechnology.

Dr. Vo-Dinh has published over 300 peer-reviewed scientific papers, is an author of a textbook on spectroscopy, and is the editor of four books. He holds over 28 patents, six of which have been licensed to environmental and biotech companies for commercial development. Dr. Vo-Dinh is a Fellow of the American Institute of Chemists and a Fellow of SPIE, the International Society for Optical Engineering, and serves on the editorial boards for various international journals on molecular spectroscopy, analytical chemistry, biomedical optics, and medical diagnostics. He has also served the scientific community through his participation in a wide range of governmental and industrial boards and advisory committees.

In addition, Dr. Vo-Dinh has received seven *R&D 100 Awards* for "Most Technologically Significant Advance in Research and Development" for his pioneering research and inventions of innovative technologies. These awards were for a chemical dosimeter (1981), an antibody biosensor (1987), the SERODS optical data storage system (1992), a spot test for environmental pollutants (1994), the SERS gene probe technology for DNA detection (1996), the multifunctional biochip for medical diagnostics and pathogen detection (1999), and the Ramits Sensor (2003). He also received the *Gold Medal Award,* Society for Applied Spectroscopy (1988); the *Languedoc-Roussillon Award* (France, 1989); the *Scientist of the Year Award*, ORNL (1992); the *Thomas Jefferson Award*, Martin Marietta Corporation (1992); and two *Awards for Excellence in Technology Transfer*, Federal Laboratory Consortium (1995, 1986), the *Inventor of the Year Award*, Tennessee Inventors Association (1996); the Lockheed Martin *Technology Commercialization Award* (1998), The *Distinguished Inventors Award,* UT-Battelle (2003), and the *Distinguished Scientist of the Year Award*, ORNL (2003). In 1997 Dr. Vo-Dinh was presented the *Exceptional Services Award* for distinguished contribution to a Healthy Citizenry from the U.S. Department of Energy.