



Prof. Vincent M. Rotello – Senior Advisor: Meet editorial board expert for Applied NanoMedicine

Prof. Vincent Rotello is the Charles A. Goessmann Professor of Chemistry and a University Distinguished Professor at the University of Massachusetts at Amherst. He received his B.S. in Chemistry in 1985 from Illinois Institute of Technology, and his Ph. D. in 1990 in Chemistry from Yale University. He was an NSF postdoctoral fellow at Massachusetts Institute of Technology from 1990-1993, and joined the faculty at the University of Massachusetts in 1993. He has been the recipient of the NSF CAREER and Cottrell Scholar awards, as well as the Camille Dreyfus Teacher-Scholar, the Sloan Fellowships. He has received the Langmuir Lectureship (2010), the Transformational Research and Excellence in Education Award presented by Research Corporation (2016) and the Bioorganic Lectureship of the Royal Society of Chemistry (UK) (2016). The various other awards conferred to him include: Australian Nanotechnology Network Traveling Fellowship (2016), Chinese Academy of Sciences, President's International Fellowship for Distinguished Researchers (2015, 2014), Highly Cited Researcher/Most Influential Scientific Minds, Thomson Reuters (2014), Cedric Hassell Lecturer, European Symposium on Biological Chemistry (2013), University of Massachusetts System, Technology Development Award (2012), Spotlight Scholar, University of Massachusetts (2011), Edward Mack Jr. Memorial Award for Creativity in Chemistry Research, Ohio State University (2010), Langmuir Lecturer, American Chemical Society, Division of Colloid and Surface Chemistry (2010), Fellow, American Association for the Advancement of Science (2010), Outstanding Accomplishments in Research and



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Creative Activity Award, University of Massachusetts (2007), Fellow, Royal Society of Chemistry (UK) (2006), University of Massachusetts Chancellor's Medal (2006), College of Natural Sciences and Mathematics Distinguished Researcher Award (2005), Invited Professor, Ecole Normale Supérieure de Cachan (2003-2004), Samuel F. Conte University Distinguished Faculty Fellowship (1998-2000), Alfred P. Sloan Fellow (1997-2002), Camille Dreyfus Teacher-Scholar (1997), NSF CAREER Award (1996), John Burlew Award in Research, American Chemical Society, Connecticut Valley Section (1996-2001).

He is a Fellow of the American Association for the Advancement of Science (AAAS) and of the Royal Society of Chemistry (U.K.). He is currently the Editor in Chief of

Bioconjugate Chemistry, and is on the Editorial Board of Applied NanoMedicine and other international journals. His research program focuses on using synthetic organic chemistry to engineer the interface between the synthetic and biological worlds, and spans the areas of devices, polymers, and nanotechnology/bionanotechnology. He is actively involved in the area of bionanotechnology, and his research includes programs in delivery, imaging, diagnostics and nanotoxicology. Prof. Rotello is associated with journal 'Applied Nanomedicine' as Senior Advisor and Editorial Board member.

PUBLICATIONS

Prof. Rotello group has published more than 550 articles in international journals with 42644 citations. Prof. Rotello's publications has h-index of 103 and i-10 index of 403. The five most cited articles are

1. K. Saha, S.S. Agasti, C. Kim, X.N. Li, V.M. Rotello. Gold Nanoparticles in Chemical and Biological Sensing. *Chem. Rev.* **2012**, 112, 2739-2779.
2. P. Ghosh, G. Han, M. De, C. K. Kim, V.M. Rotello. Gold Nanoparticles in Delivery Applications. *Adv Drug Del. Rev.* **2008**, 60, 1307-1315.
3. M. De, P. Ghosh, V.M. Rotello. Applications of Nanoparticles in Biology. *Adv. Mat.*, **2008**, 20, 4225-4241.
4. C.M. Goodman, C.D. McCusker, T. Yilmaz, V.M. Rotello. Toxicity of gold nanoparticles functionalized with cationic and anionic side chains. *Bioconjugate chemistry* **2004**, 15 (4), 897-900.
5. A.K. Boal, F. Ilhan, J.E. DeRouchey, T. Thurn-Albrecht, T.P. Russell, V.M. Rotello. Self-assembly of nanoparticles into structured spherical and network aggregates. *Nature*, **2000**, 404 (6779), 746.

The most recent articles include

1. W.J. Peveler, R.F. Landis, M. Yazdani, J.W. Day, R. Modi, C.J. Carmalt, W.M. Rosenberg, V.M. Rotello. A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. *Advanced Materials*, **2018**.
2. D.A. Wood, Z-W. Sarah, I.K. Torres, Y-W. Lee, L-S. Wang, Z. Jiang, G.M. Lazaro, S-Y. Wang, A.A. Rodal, M.F. Hagan, V.M. Rotello, A.D. Dinsmore. Nanoparticles Binding to Lipid Membranes: from Vesicle-Based Gels to Vesicle Inversion and Destruction. *Soft Condensed Matter* arXiv:1805.04214v1
3. Y. Geng, H.L. Goel, N.B. Le, T. Yoshii, R. Mout, G.Y. Tonga, J.J. Amante, A.M. Mercurio, V.M. Rotello. Rapid phenotyping of cancer stem cells using multichannel nanosensor arrays. *Nanomedicine* **2018**.
4. R.F. Landis, C-S. Li, A. Gupta, Y-W. Lee, M. Yazdani, N. Ngernyuan, I. Altinbasak, S. Mansoor, M.A.S. Khichi, A. Sanyal, V.M. Rotello. Biodegradable Nanocomposite Antimicrobials for the Eradication of Multidrug-Resistant Bacterial Biofilms without Accumulated Resistance. *J. Am. Chem. Soc.*, **2018**, 140 (19), 6176-6182.
5. S. Huo, Y. Jiang, Z. Jiang, R.F. Landis, X-J. Liang, V.M. Rotello. Stable and Oxidant Responsive Zwitterionic Nanoclusters. *Nanoscale* **2018**, 10, 7382-7386.

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