

## Synergistic Activities and Awards:

- Indian Institute of Technology - Bombay, **Distinguished Alumnus Award** (2019).
- **Highly Cited Researchers list** (Top 1% by citations) - Clarivate Analytics (2018).
- Rensselaer School of Engineering **Excellence in Research** Award (2017).
- Elected **Fellow** of the American Society of Mechanical Engineers (**ASME**) (2016).
- **ASME Gustus L. Larson Memorial Award** for Excellence in Research (2015).
- Appointed **Associate Editor of CARBON (Elsevier)** (2010-present).
- Appointed **Editorial Board Member** of Energy Storage Materials (2015-present)
- **Electrochemical Society's SES Young Investigator Award** for Excellence in Research (2009).
- **Keynote Address** at the 2<sup>nd</sup> International Conference on Nanomechanics and Nanocomposites, Beijing, China, October 10-13 (2010).
- **Keynote Address** at the 1<sup>st</sup> International Conference on Design and Reliability of Mechanical Systems (iCDRMS), Pune, India (2015).
- **Chair of the Steering Committee** for collaboration between the USA National Science Foundation (NSF) and its German counterpart (Deutsche Forschungsgemeinschaft- DFG). (2008-2009)
- **Technical Chair of the NSF-DFG Research Conference** on Nanoscience and Nanotechnology, New York City, October 15-17, (2009).
- **Early Career Award** from Rensselaer Polytechnic Institute (2005).
- **Technical Chair** of the characterization of nano-composites track at the ASME Multifunctional Nanocomposites Conference, University of Hawaii at Manoa, 20-22 October (2006).
- United States **National Science Foundation's CAREER Award** (2004)
- AHS **Francois-Xavier Bagnoud Award** for Excellence in Research (2004)
- **Invited Talks** at several international conferences including the International Conference on Nanoscience & Nanotechnology (ICONSAT), Calcutta (2003), Materials Research Society (MRS) Spring Meeting, San Francisco (2005), American

Vacuum Society (AVS) Meeting, San Jose, (2009), TMS Annual Meeting, San Francisco (2009), ICONSAT, Mumbai (2010), MRS Fall Meeting, Boston (2010), 2<sup>nd</sup> International Conference on Nanomechanics and Nanocomposites, Beijing, China, (2010). ICONSAT-Hyderabad (2012), TMS Annual Meeting, Orlando (2012), BAMN, South Korea (2013), ACS National Meeting, Indianapolis (2013), 3<sup>rd</sup> international Conference on Nanomechanics & Nanocomposites, Hong Kong (2014), Argonne National Laboratory- Exploring the Flatland of 2D Materials, Chicago (2015), TMS Annual Meeting, San Diego (2016), 2D Materials Symposium, Orlando (2017), 34<sup>th</sup> International Battery Seminar, Fort Lauderdale (2017), 35<sup>th</sup> International Battery Seminar, Fort Lauderdale (2018), ACS Spring Meeting, Orlando (2019) and the MRS Spring Meeting, Phoenix (2019).

- **Referee** for 50+ journals including [Science](#), [Science Advances](#), [Nature](#), [Nature Materials](#), [Nature Physics](#), [Nature Chemistry](#), [Nature Energy](#), [Nature Communications](#), [Proceedings of the National Academy of Sciences](#), Joule, Advanced Materials, Small, Advanced Functional Materials, Nano Letters, Angewandte Chemie International Edition, ACS Nano, Physical Review Letters, Applied Physics Letters, Physical Review B., Journal of Physical Chemistry B, Chemistry of Materials and JACS among others.

### **Sample Media Reports and Magazine Articles**

- Over 500 Reports citing Koratkar's work have appeared in top media outlets including Nature News, NY times, USA today, MSNBC, Scientific American, Popular Science, Popular Mechanics, the Indian Express, Wikipedia and the US News and World Report.
- Koratkar has been interviewed by BBC Radio and Northeast Public Radio and by CBS and ABC TV News in Albany, NY.
- The USA National Science Foundation has also issued three Press Releases based on his work in nano-composites, Lithium-ion batteries and graphene.

*Few sample media reports are given below:*

- (1) "Water + acid + graphene = power", [Nature](#), Volume: 476, Page: 255, Date published: (18 August 2011), doi:10.1038/476255f (Research Highlight)
- (2) "Nanorods make boiling better", Published by [Nature](#) in their News Section (doi:10.1038/news.2008.935), July 4, 2008.
- (3) "Nanorods enhance boiling", [BBC Radio's Science in Action Program](#), July 4, 2008.
- (4) "Pot boiler: a new, faster way to heat water", [Scientific American](#), July 8, 2008.

- (5) “Carbon nanotube 'shock absorbers' excel at dampening vibration”, Press Release issued by the [National Science Foundation](#), January 2005.
- (6) “Leap in sniffing: nanotubes can name that gas”, [New York Times](#), Aug 19, 2003.
- (7) “Handheld bioterror detectors in the works”, Article in [USA Today](#), July 7, 2003.
- (8) “Nanoscoops' Could Spark New Generation of Electric Automobile Batteries”, [US News and World Report](#), January 5, 2011.
- (9) “Potassium Metal Batteries Are Almost As Good As Lithium-Ion”, [Popular Mechanics](#), March 4, 2020.
- (10) “Graphene-coated sensors to strike oil”, [MSNBC](#), July 2011.
- (11) “Miracle Material”, Press release by the [National Science Foundation](#), May 19, 2011.
- (12) “Nanoscoops Could Spark New Generation of Electric Automobile Batteries”, Press release issued by the [National Science Foundation](#), January 4, 2011.
- (13) “Graphene’s other transparency”, [Nature Asia-Pacific](#), January 23, 2012.
- (14) “Graphene Foam Sensors Cheaply Detect Trace Particles in Air Better Than Current Technology”, [Popular Science](#), 23<sup>rd</sup> November, 2011.
- (15) “Controlling the movement of water through nanotube membranes”, [Wikipedia](#), the free encyclopedia, 2007.
- (16) “New way to create fast-charging lithium-ion batteries discovered”, Article in the [Indian Express](#), April, 2019.