



Dr. David R. Smith is the James B. Duke Distinguished Professor of the Electrical and Computer Engineering Department at Duke University, where he also serves as Director for the Center for Metamaterial and Integrated Plasmonics. Dr. Smith is also the Founding Director of the Metamaterials Commercialization Center at Intellectual Ventures in Bellevue, Washington. Dr. Smith received his Ph.D. in 1994 in Physics from UCSD. Dr. Smith's research interests include the theory, simulation and

characterization of unique electromagnetic structures, including photonic crystals, metamaterials and plasmonic nanostructures. Smith has over 300 publications in the area of metamaterials, and more than 70 patents and patent filings. Smith and his colleagues demonstrated the first left-handed (or negative index) metamaterial at microwave frequencies in 2000. In 2006, Smith and colleague Sir John Pendry reported a new electromagnetic design approach, now termed *transformation optics*, and suggested the possibility of a metamaterial "invisibility" cloak. Smith's group subsequently demonstrated a metamaterial "invisibility cloak" at microwave frequencies later in 2006. In 2005, Dr. Smith was part of a five-member team that received the Descartes Research Prize, awarded by the European Union, for their contributions to metamaterials and other novel electromagnetic materials. In 2006, Dr. Smith was selected as one of the "Scientific American 50." Since 2009, Dr. Smith has continually been named a "Citation Laureate" by Clarivate Analytics/Web of Science for having among the most number of highly cited papers in the field of Physics. Dr. Smith is a co-recipient of the McGroddy Prize for New Materials, awarded by the American Physical Society, for "the discovery of metamaterials" (2013). In 2016, Dr. Smith was elected to the National Academy of Inventors. Dr. Smith has recently been active in transitioning metamaterial concepts for commercialization, being a co-founder of Evolv Technology, Echodyne Corporation, Pivotal Commware, and advisor to Kymeta Corporation—all companies devoted to developing metamaterial products.