

Professor Sir Konstantin NOVOSELOV
Tan Chin Tuan Centennial Professor
With effect from August 2019

Professor
Department of Material Science and Engineering
Faculty of Engineering
National University of Singapore

Member
National Academy of Sciences, USA



Professor Sir Konstantin 'Kostya' Novoselov FRS was born in Russia in August 1974. He has both British and Russian citizenship. He is best known for isolating graphene at The University of Manchester in 2004, and is an expert in condensed matter physics, mesoscopic physics and nanotechnology. Every year since 2014 Kostya Novoselov is included in the list of the most highly cited researchers in the world. He was awarded the Nobel Prize for Physics in 2010 for his achievements with graphene. Kostya holds the position of Tan Chin Tuan Centennial Professor at the National University of Singapore. He is also part-time Langworthy Professor of Physics and the Royal Society Research Professor at The University of Manchester.

He graduated from the Moscow Institute of Physics and Technology, and undertook his PhD studies at the University of Nijmegen in the Netherlands before moving to The University of Manchester in 2001. Later Professor Novoselov joined the National University of Singapore in 2019. Professor Novoselov has published more than 350 peer-reviewed research papers. He was awarded with numerous prizes, including Nicholas Kurti Prize (2007), International Union of Pure and Applied Science Prize (2008), MIT Technology Review young innovator (2008), Europhysics Prize (2008), Bragg Lecture Prize from the Union of Crystallography (2011), the Kohn Award Lecture (2012), Leverhulme Medal from the Royal Society (2013), Onsager medal (2014), Carbon medal (2016), Dalton medal (2016), Otto Warburg Prize (2019) among many others. He was knighted in the 2012 New Year Honours.

Research

Research field - Condensed matter physics; Mesoscopic transport, superconductivity and ferromagnetism; Nanostructures and Nanofabrication; Graphene and other two-dimensional crystals

Professor Kostya Novoselov is an established physicist, specialising in the area of condensed matter physics, mesoscopic physics and nanotechnology. He has broad research interests from mesoscopic phenomena in ferromagnets and superconductors to electronic properties of two-dimensional (2D) electron gas in GaAs/AlGaAs heterostructures and graphene. He also has got a vast background in nanofabrication and nanotechnology.

Professor Novoselov has published over 350 papers (mainly as the leading or the corresponding author) with more than 25 papers in Nature and Science, more than 45 Nature Physics, Nature Materials, Nature Nanotechnology and Nature Communications papers and 16 Physical Review Letters.

Professor Novoselov's two papers in *Science* 2004 and *Nature* 2005 are the most cited papers on graphene and "have opened up a fast-moving front" (according to ISI's *Essential Science Indicators*SM). The *Science* paper was also included into the top 100 most cited papers of all time among all subjects.

Every year since 2014 Kostya Novoselov is included in the list of the most highly cited researchers. He was also named among the 17 hottest researchers world-wide - "individuals who have published the greatest number of hot papers during 2012-2013".

Professor Novoselov made into a shortlist of scientists with multiple hot papers for the years 2007-2008 (shared second place with 13 hot papers) and 2009 (5th place with 12 hot papers).