MANCHESTER 1824
The University of Manchester

Prof Aimin Song

Professor of Nanoelectronics

Affiliations:
School of Electrical & Electronic Engineering **/ School of Electrical & Electronic Engineering**

Email: A.Song@manchester.ac.uk

Phone: 0161-3064762

Full contact details
ORCID: 0000-0001-6550-518X

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Biography

Professor Aimin Song received PhD degree from the Chinese Academy of Sciences in 1995. After three years of fellowships at University of Glasgow and University of Munich by the Royal Society and Alexander von Humboldt foundation, he worked at the Nanometre Consortium, Lund University as a Guest Lecturer before moving to Manchester as a Lecturer in 2002. He became Professor of Nanoelectronics in 2006. His research is focused on novel nanoelectronic devices and printable thin-film electronics. His work has led to awards

including "Researcher of the Year" Distinguished Achievement Medal of the University of Manchester and a Royal Society Brian Mercer Feasibility Award. The potential of practical applications of the nanodevices for printable electronics and energy harvesting have motivated a number of commercialization activities including 15 patents/patent applications and a spin-out company. The novel device concepts that he developed have been further studied in two EU Framework projects. His research has been published in Nature Communications, Physical Review Letters, NanoLetters, Nanoscale, etc, and has also generated a number of media reports.

His PhD students have also received a number of very prestigious awards for their successful research, including a Rolls Royce Prize (£1,000) at the UK Parliament, Distinguished Achievement Medal for "Postgraduate Student of the Year" of the University of Manchester, "Best Output (Publication) Award" of the University of Manchester, Outstanding Non-Governmentally Financed Ph.D. Students Abroad Award ($5,000) for Chinese students (twice), a number of Best Conference Paper Awards, etc.

Qualifications

MSc, PhD, FIET, FERA, SMIEEE

Memberships of committees and professional bodies

- Chartered Engineer
- ERA fundation
- IEEE
- IET

Areas of expertise

TK Electrical engineering. Electronics Nuclear engineering - semiconductors, nanoelectronics, microwave , wearable electronics, terahertz, power electronics

QC Physics - condensed matter physics, Nanostructures

Research Networks and Beacons

Data Science Institute

Related information

Publications

A high speed PE-ALD ZnO Schottky diode rectifier with low interface-state density

Research output: Contribution to journal › Article

Low Voltage Operation of IGZO Thin Film Transistors Enabled by Ultrathin Al_2O_3 Gate Dielectric

Research output: Contribution to journal › Article

Cu_2O epitaxial films with domain structures prepared on Y-stabilized ZrO_2 substrates by pulsed laser deposition

Research output: Contribution to journal › Article

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Projects

Nano-rectennas for heat-to-electricity conversion. Graphene (PROJECT)

Project: Research

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Student theses

Design and Simulation of Planar Electronic Nanodevices for Teraherz and Memory Applications

UoM administered thesis: Phd

METAL-OXIDE-BASED ELECTRONIC DEVICES

UoM administered thesis: Phd

Novel Electronic Nanodevices Operating in the Terahertz Region

UoM administered thesis: Phd

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+44 (0) 161 306 6000

Contact details

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The University of Manchester
Oxford Rd
Manchester
M13 9PL
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