

CURRICULUM VITAE

Nguyen-Manh Duc

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QUALIFICATION 1993: Professor of Physics: Condensed Matter and Materials Science, Ministry of Education, France. 1991: Habilitation Diploma in Physics, National Centre for Scientific Research (CNRS) Grenoble. 1986: PhD in Physics, CNRS Grenoble. 1976: BS Physics, National University of Chisinau.

APPOINTMENT 2003 to Present: Senior Scientist Staff, Culham Science for Fusion Energy, United Kingdom Atomic Energy Authority (UKAEA). 1993-2003: Senior Fellow, Department of Materials, University of Oxford, UK. 1988-1992: Associated Professor, University of Grenoble 1, France. 1976-1988: Lecturer, Institute of Engineering Physics, University of Science and Technology, Hanoi, Viet Nam.

RESEARCH INTERESTS

- Theory and modelling in physics, chemistry and engineering of materials
- First-principles based electronic structure calculations; many-body problems in physics.
- Multi-scale modelling in non-equilibrium systems
- Phase stability and transformation in nuclear materials
- Point defects and dislocation in materials under irradiation
- Magnetic and mechanical properties of materials from nano to engineering scale.

RESEARCH EXPERTISE

- Principal Investigator of 14 European Projects on Nuclear Fusion Materials
- Principal Investigator of 10 International Projects on High Performance Computing
- Co-Investigator of 8 International Projects on Computational Materials Science
- Chairing International Conferences/Workshops on Computational Physics, Materials Science and Engineering including ACCMS-5 in Hanoi, Vietnam.
- Member of International Advisory Board of International Atomic Energy Agency (IAEA) working group on Models and Data for Plasma-Material Interaction in Fusion Devices.
- Founder and Member of International Advisory Board of Asian Consortium on Computational Materials Science (ACCMS), member of US TMS, MRS and UK IOP.
- Peer Review College Member of UK-EPSRC
- Peer Review members of Physical Review Letter, Physical Review, Nature Communications, Philosophical Magazine, Physical Chemistry and Chemical Physics, ACS journals, Computer Physics Communication, Computational Materials Science, Journal of Nuclear Materials....
- Publish more than 200 papers in international journals in Physics, Chemistry, Materials and Engineering Sciences, Nuclear Materials, Computational Physics and Materials Science
- Supervise 15 PhD theses in Physics, Chemistry, Materials Science, Nuclear Engineering

AWARDS

- Academic Visiting Fellow at University of Oxford from 2005 to present
- OCAMAC Fellow at Department of Materials, University of Oxford
- Visiting Professor at University Cergy-Pontoise, Paris, France
- Visiting Scientist at University of Pennsylvania, USA
- International Advisor Member of Key Lab. at VNU-HN and Visiting Professor at VNU-HCM.