

CURRICULUM VITAE

Family name: SU

First name: **Dangsheng**

Sex: Male

Birth day: 1 July 1961

Citizenship: Austria

Current Position: Senior Research Fellow,
Head of the Lab. of Electron Microscopy
Group Leader of the Group Microstructure

Department of Inorganic Chemistry
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- 1979-1983 Undergraduate student at the Department of Physics, Jilin University in Changchun, China
Bachelor degree in physics
- 1983-1986 Graduate student at the Department of Materials Science, Jilin University
Master degree in physics
- 1986-1991 PhD. Student at the Institute of Applied and Technical Physics, Technical University of Vienna, Austria
PhD degree in physics in April 1991, theme of the PhD.: multiple scattering of electrons in electron energy loss spectroscopy (EELS)
- 1991-1994 Post-doc at the Department of Electron Microscopy, Fritz Haber Institute of the Max-Planck Society, Berlin, Germany
Main research works: Multiple scattering of electron in thin film; Simulation of electron Compton scattering; Measurements of electron Compton scattering in a Zeiss CM 12 electron microscope; Energy-filtered electron diffraction pattern; Quantitative element analysis on transmission electron microscope; Analytical transmission electron microscopy
- 1995-1996 Postdoctoral research scientist at Hahn-Meitner-Institut GmbH, Berlin
Main research works: Structure and Morphology of colloidal metal and semiconductor particles: (Au, Ag, Pt, Ge, Si, CdBi, GeSe, AgHg, CdS, CdTe, TiO₂); TEM-characterisation of two-dimensional semiconductor materials (InSe/GaSe, InSe/Graphite) and Porous Silicon
- 1997-
31.6.1997 Research assistant at the Technical University of Vienna, Austria
Main research works: plasmon in multilayers; TEM-characterisation of semiconductor materials
- 01.07.1997 Research Staff at the Department of Physics, Abt. Kristallographie, Humboldt
30.06.1999 University of Berlin, Germany
Subjects of research works: Structural, chemical and morphological characterisations of I-III-IV₂ and III-IV semiconductor compounds for photovoltaic applications by means of transmission electron microscopy

(CTEM, HRTEM, ATEM, main research interests: orderings in ternary compounds; defect chalcopyrite materials)

01.07.1999 Research Staff in the Department of Inorganic Chemistry at the Fritz Haber Institute of the Max Planck Society, Berlin,
Group leader of the Group Microstructure in the Department of Inorganic Chemistry at the Fritz Haber Institute of the Max Planck Society, Berlin
Head of the laboratory of electron microscopy at the same institute

Coordinator of the Vanadium project and Carbon project in the Department
Coordinator of the MPG-CAS Partner Group between FHI and the Dalian Institute for Chemical Physics, Chinese Academy of Science
Coordinator of the ELCASS project (European Laboratory for Catalysis and Surface Science)
Coordinator of the EU-6 frame work project Carbon Nanotubes for Applications in Electronics, Catalysis, Composites and Nano-Biology
Coordinator of the EU-6 frame wrok project Electrocatalytic Gas-Phase Conversion of CO₂ in Confined Catalysts
Coordinator of the partner group between DICP and FHI

Subject of current research fields:

Nanocarbon as high-performance catalyst
Transition metal oxides in heterogeneous catalysis,
Synthesis and microstructure of new nanostructured materials
Combustion chemistry and automotive engine
Metal clusters and metal particles
Mechanism of heterogeneous catalytic reaction and surface chemistry
Transmission electron microscopy and electron energy-loss spectroscopy
Band structure theory and electronic structure of V-based catalysts

Publications: over 120

Patents: 2