BARDEHLE PAGENBERG Team

Wenwen Mao

Dr. rer. nat. (Physics)

Patent Engineer

Oficina Munich
Idiomas: German, English, Chinese, Japanese

wenwen.mao@bardehle.de

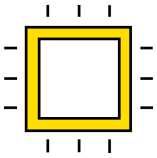
Dr. Wenwen Mao has a strong international and technical background, having studied and worked in Germany, China, Japan, Singapore, and Korea. With her training in condense matter physics and high-performance computing, she is particularly suited for technology-driven cases involving advanced materials, semiconductor physics, optics, and software-based innovations.

Dr. Wenwen Mao's work draws on empathetic, patient, and detail-oriented communication. To work smoothly across cultures with clients, experts, and colleagues, she also translates complex technical content into clear, practical, and decision-oriented input for legal strategies.

Áreas Legales

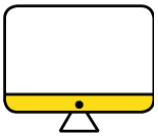
Patent Valuation	Patent Litigation
Patent Prosecution	Oppositions and Nullity
Unitary Patent	

Industrias



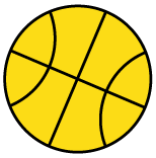
Semiconductor Technology

Medical Devices

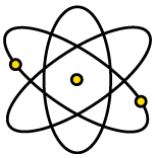


Software, IT & Computer Technology

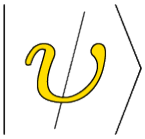
Telecommunications



Sports



Physics



Quantum Technologies

Publications

- Wenwen Mao, Shunsuke A. Sato, Angel Rubio. Nonlinear current injection in hexagonal boron nitride using linearly polarized light in a deeply off-resonant regime, Advanced Optical Materials 12 (22), 2400651 (2024).
- Wenwen Mao, Shunsuke A. Sato, Angel Rubio. Enhancement of high-order harmonic generation in graphene by mid-infrared and terahertz fields, Phys. Rev. B 109 (4), 045421 (2024).
- Kotaro Nakagawa, Wenwen Mao, Shunsuke A. Sato, Hideki Hirori. Hot electron effect on high order harmonic generation from graphene modulated by THz electric pulse fields, APL Photonics 9, 076107 (2024).
- Wenwen Mao, Shunsuke A. Sato, Angel Rubio. THz-induced high-order harmonic generation and nonlinear transport in graphene, Phys. Rev. B 106, 024313 (2022).
- Ofer Neufeld, Wenwen Mao, Hannes Hübener, Nicolas Tancogne-Dejean, Shunsuke A. Sato, Umberto De Giovannini, Angel Rubio. Time- and angle-resolved photoelectron spectroscopy of strong-field light-dressed solids: Prevalence of the adiabatic band picture, Phys. Rev. Research 4, 033101 (2022).
- Wenwen Mao, Li-Hua Lu, You-Quan Li. Quantum model for understanding protein misfolding behavior – phase diagram and manual intervention, Sci. China Phys. Mech. Astron. 64, 260011 (2021).
- Wenwen Mao, Li-Hua Lu, Yong-Yun Ji, You-Quan Li. Quantum Intelligence on Protein Folding Pathways, Chinese Phys. B 29, 018702 (2020).

Lectures & Seminars

- Contributed Talks at ATTO2NANO Workshop – Ultrafast modeling of condensed matter across time scales, CECAM-HQ-EPFL, Lausanne, Switzerland, 2024.
- Contributed Talks at APS March Meeting, Las Vegas, USA. 2023.
- Contributed Talks at DPG (German Physical Society) Fall Meeting, Regensburg, Germany, 2022.

Memberships

Dr. Wenwen Mao is a member of the German Physical Society (DPG) and the American Physical Society (APS).

Curriculum Vitae

2026 - Hoy	Patent Engineer and Trainee Patent Attorney at BARDEHLE PAGENBERG in Munich, Germany
2025	Visiting Scientist, Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea
2023	Visiting Scientist, Surface Physics State Key Laboratory, Institute of Physics, Chinese Academy of Sciences, Beijing, China
2023	Visiting Scientist, Center for Computational Sciences, University of Tsukuba and Kyoto University, Japan
2020 - 2024	Doctoral Researcher, Max Planck Institute for the Structure and Dynamics of Matter (MPSD) & Center for Free-Electron Laser Science (CFEL), Hamburg, Germany
2020 - 2024	Ph.D in Condense Matter Physics, International Max Planck Research School for Ultrafast Imaging & Structural Dynamics (IMPRS UFAST) & University of Hamburg
2018	Visiting Student Researcher at Centre for Quantum Technologies (CQT), National University of Singapore
2017 - 2020	M.Sc in Theoretical Physics, Zhejiang University, Hangzhou, China
2016 - 2020	Student Researcher at Center of Modern Physics, Zhejiang University, Hangzhou, China
2012 - 2016	B. Eng in Biosystems Engineering, Zhejiang University, Hangzhou, China