

## Joachim O. Rädler

Date of birth: November 15, 1962  
Address: Center for NanoScience (CeNS) and Fakultät für Physik,  
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### Academic education

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1983-1989	Studies of physics at the University of Bonn and the TU München
1986-1987	One-Year-Scholarship at Cambridge UK, research at the Cavendish Institute: M. Phil. degree
April 1990	Diploma in physics, Technische Universität München
September 1993	Ph. D. in physics with Prof. E. Sackmann, Technische Universität München
July 1999	Habilitation in experimental physics, Technische Universität München

### Academic career

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1996-2000	Scientific assistant, TU München
2000-2001	Senior scientist and group leader at the Max-Planck Institute for Polymer Research in Mainz.
Since 2001	Professor (C4) for Experimental Physics (Soft Condensed Matter and Biological Physics), Ludwig-Maximilians-Universität München

### Scientific visits

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1998	Post-doctoral research with Prof. C. R. Safinya, Materials Research Laboratory, UC Santa Barbara
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### Scientific interests

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Self-organization of biological macromolecules and membranes; Structural research on soft condensed matter using X-ray scattering; Synthetic gene transfer systems; Transport in complex fluids; Wetting and biofunctionalization of solid surfaces

### Scientific distinctions

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Member of the board of the *Center for NanoScience CeNS*  
Coordinator of the Marie-Curie Training Network "Colloidal and Interfacial Properties of Synthetic Nucleic Acid Complexes"; Chair of the Bachelor/Master coordination commission for the Natural Sciences of the LMU; Spokesperson of the PhD-Elite Program *NanoBioTechnology*; Coordinator of the Focus Research Area "Biofunctionalized Surfaces and Cell-Substrate Interaction" within the excellence cluster *NIM*; Cofounder and member of the advisory board of the start-up company *integrated biodiagnostics* (ibidi).

### Editorial boards

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EPJE

## Selected publications

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1. Engelke, H and **Rädler, JO** (2009) Diffusion and molecular binding in crowded vesicle solutions measured by fluorescence correlation spectroscopy. *Soft Matter* vol. 5 (21) pp. 4283.
2. Schlagberger X, Bayer J, **Rädler JO** and Netz RR (2006) Diffusion of a single semiflexible charged polymer. *Europhys. Lett.*, 76(2), 346-352.
3. Hochrein M, Leierseder J, Golubovic L, **Rädler JO** "DNA localization and stretching on periodically microstructured lipid membranes" (2006) *PRL*, 96 (3): Art. No. 038103
4. Guttenberg Z, Rathgeber A, Keller S, **Rädler JO**, Wixforth A, Kostur M, Schindler M, Talkner P (2004) Flow Profiling of a surface acoustic wave nanopump *Physical Review E*, 70, 056311.
5. Rusu L, Gambhir A, McLaughlin S, **Rädler JO** (2004) Fluorescence Correlation Spectroscopy Studies of Peptide and Protein Binding to Phospholipid Vesicles *Biophys.J.* 87 (2)