

## Stefan Jakobs – selected publications

### Original articles

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**Nature Biotech.**, 26, 1035-1040.

Schmidt, R., Wurm, C.A., Jakobs, S., Engelhardt, J., Egner, A., and Hell, S.W. (2008). Spherical nanosized focal spot unravels the interior of cells.

**Nature Methods**, 5, 539-544.

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**Nature Methods**, 5, 943-945.

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**Biophysical J.**, 95, 2989-2997.

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**Optics Express**, 16, 21093 – 21104.

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**Proc. Natl. Acad. Sci. USA** 104, 13005-13009.

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**Biochemical J.**, 402, 35-42.

Eggeling, C., Hilbert, M., Bock, H., Ringemann, C., Hofmann, M., Stiel, A.C., Andresen, M., Jakobs, S., Egner, A., Schönle, A., and Hell, S.W. (2007). Reversible photoswitching enables single-molecule fluorescence fluctuation spectroscopy at high molecular concentration.

**Microscopy Research and Technique** 70, 1003-1009

Bock, H., Geisler, C., Wurm, C.A., von Middendorff, C., Jakobs, S., Schönle, A., Egner, A., Hell, S.W. and Eggeling, C. (2007). Two-color far-field fluorescence nanoscopy based on photoswitchable emitters.

**Appl. Phys. B** 88, 161-165.

Egner, A., Geisler, C., von Middendorff, C., Bock, H., Wenzel, D., Medda, R., Andresen, M., Stiel, A.C., Jakobs, S., Eggeling, C., Schönle, A. and Hell, S.W. (2007). Fluorescence nanoscopy in whole cells by asynchronous localization of photoswitching emitters.

**Biophysical J.** 93, 3285-3290.

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**Nature Methods** 3, 721-723.

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**J. Cell Science** 119, 3098-3106.

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**Biophys. J.** *87*, 4146-4152.

Dyba, M., Jakobs, S. and Hell, S.W. (2003). Immunofluorescence stimulated emission depletion microscopy.

**Nature Biotech.** *21*, 1303-1304.

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**Appl. Phys. A** *77*, 859-860.

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**FEBS Lett.** 479, 131-135.

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**Proc. Natl. Acad. Sci. USA** 97, 8206-8210.

## Reviews and book chapters

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**Biochim. Biophys. Acta - Mol. Cell. Res.**, 1763, 561-575

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**In: Selective probes and tags to study biomolecular function in vivo.** Editor: L. Miller.  
Wiley-VCH, Weinheim, Germany.

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**In: Handbook of Biological Confocal Microscopy.** 2. Edition. Editor: J. B. Pawley. Plenum Press, New York.