

**Prof. Dr. G. Jakob, publication list
scientific journals:**

Years: [2017](#), [2016](#), [2015](#), [2014](#), [2013](#), [2012](#), [2011](#), [2010](#),
[2009](#), [2008](#), [2007](#), [2006](#), [2005](#), [2004](#), [2003](#), [2002](#), [2001](#), [2000](#),
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- 208) **Terahertz spectroscopy for all-optical spintronic characterization of the spin-Hall-effect metals Pt, W and Cu₈₀Ir₂₀**
T.S. Seifert, N.M. Trinh, O. Gueckstock, S.M. Rouzegar, L. Nadvornik, S. Jaiswal, G. Jakob, V.V. Temnov, M. Muenzenberg, M. Wolf, M. Kläui, and T. Kampfrath,
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- 207) **Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy**
Tom Seifert, Samridh Jaiswal, Joseph Barker, Sebastian T. Weber, Ilya Razdolski, Joel Cramer, Oliver Gueckstock, Sebastian Maehrlein, Lukas Nadvornik, Shun Watanabe, Chiara Ciccarelli, Alexey Melnikov, Gerhard Jakob, Markus Münzenberg, Sebastian T.B. Goennenwein, Georg Woltersdorf, Baerbel Rethfeld, Piet W. Brouwer, Martin Wolf, Mathias Kläui, Tobias Kampfrath,
Nature Commun. **9**, 2899 (2018); [doi: 10.1038/s41467-018-05135-2](https://doi.org/10.1038/s41467-018-05135-2)
- 206) **Magnetic Exchange Interaction in Nitronyl Nitroxide Radical-Based Single Crystals of 3d Metal Complexes: A Combined Experimental and Theoretical Study,**
Pramod Bhatt, Kubandiran Kolanji, Anela Ivanova, Arvind Yogi, Gerhard Jakob, Mayuresh D. Mukadam, Seikh Mohammad Yusuf, and Martin Baumgarten,
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- 205) **Complex THz and DC inverse spin Hall effect in YIG/Cu_{1-x}Ir_x bilayers across a wide concentration range,**
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- 204) **Combined Experimental and Theoretical Investigation of Heating Rate on Growth of Iron Oxide Nanoparticles**
Hamed Sharifi Dehsari, Maziar Heidari, Anielen Halda Ribeiro, Wolfgang Tremel, Gerhard Jakob, Davide Donadio, Raffaello Potestio, and Kamal Asadi,
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- 203) **Effect of precursor concentration on size evolution of iron oxide nanoparticles,**
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- 202) **Alloy-like behaviour of the thermal conductivity of nonsymmetric superlattices**
Emigdio Chavez Angel, Paulina Komar, and Gerhard Jakob,
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- 201) **Temperature dependence of the non-local spin Seebeck effect in YIG/Pt nanostructures**
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- 200) **Investigation of the Dzyaloshinskii-Moriya interaction and room temperature skyrmions in W/CoFeB/MgO thin films and microwires**
S. Jaiswal, K. Litzius, I. Lemes, F. Büttner, S. Finizio, J. Raabe, M. Weigand, K. Lee, J. Langer, B. Ocker, G. Jakob, G. S. D. Beach, and M Kläui
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- 199) **Probing ultrafast changes of a vertical spin density profile with resonant XUV**
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- 198) **Synergy of Miniemulsion and Solvothermal Conditions for the Low Temperature Crystallization of Magnetic Nanostructured Transition Metal Ferrites**
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- 197) **Ultrabroadband single-cycle terahertz pulses with peak fields of 300 kV cm⁻¹ from a metallic spintronic emitter**
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- 196) **Reconstruction of an effective magnon mean free path distribution from spin Seebeck measurements in thin films**
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- 195) **CADEM - Calculate X-ray Diffraction of Epitaxial Multilayers**
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- 194) **Influence of Thickness and Interface on the Low-Temperature Enhancement of the Spin Seebeck Effect in YIG Films**
Er-Jia Guo, Joel Cramer, Andreas Kehlberger, Ciaran A. Ferguson, Donald A. MacLaren, Gerhard Jakob, and Mathias Kläui
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- 193) **Quantitative analysis of magnetization reversal in Ni thin films on unpoled and poled (011) [PbMg_{1/3}Nb_{2/3}O₃]_{0.68}–[PbTiO₃]_{0.32} piezoelectric substrates**
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- 192) **Tailoring of the electrical and thermal properties using ultra-short period non-symmetric superlattices**
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- 191) **Modification of magnetic anisotropy in Ni thin films by poling of (011) PMN-PT piezosubstrates**
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- 190) **Efficient metallic spintronic emitters of ultrabroadband terahertz radiation**
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- 189) **Influence of the MgO barrier thickness on the lifetime characteristics of magnetic tunneling junctions for sensors**
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- 187) **The effect of interface roughness on exchange bias in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ - BiFeO_3 heterostructures**
Mehran Vafaei, Simone Finizio, Hakan Deniz, Dietrich Hesse, Hartmut Zabel, Gerhard Jakob, and Mathias Kläui
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- 186) **Origin of the spin Seebeck effect in compensated ferrimagnets**
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- 165) **Direct observation of temperature dependent magnetic domain structure of the multiferroic La_{0.66}Sr_{0.34}MnO₃/BiFeO₃ bilayer system by x-ray linear dichroism- and x-ray magnetic circular dichroism-photoemission electron microscopy, microscopy,**
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- 162) **Exchange bias effect in the martensitic state of Ni-Co-Mn-Sn film**
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- 161) **Extraordinary Hall effect in Pt- or Ni-based multilayer stacks with strong perpendicular magnetic anisotropy**
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