

Publications in Refereed Scientific Journals

71. H. Arava, P. M. Derlet, J. Vijayakumar, J. Cui, N. S. Bingham, [A. Kleibert](#), and L. J. Heyderman
Computational Logic with Square Rings of Nanomagnets
Submitted (2017)
70. C. A. F. Vaz, C. Piamonteze, and [A. Kleibert](#)
Controlling the Mobility of Deposited Iron Nanoparticles by Means of a Xenon Buffer Layer
Submitted (2017)
(Corresponding Authors: C. A. F. V. and A. K.)
69. H. Cun, A. Hemmi, E. Miniussi, C. Bernard, L. H. de Lima, M. Muntwiler, B. Probst, K. Liu, D. Alexander, B. Stel, M. Lingenfelder, [A. Kleibert](#), A. Käch, G. Mette, M. Weigl, M. Schreck, J. Osterwalder, A. Radenovic, and T. Greber
Transfer of Centimeter-Sized CVD Single-Orientation Monolayer h-BN with or without Nanovoids
Submitted (2017)
68. S. Gliga, G. Hrkac, C. Donnelly, J. Büchi, [A. Kleibert](#), J. Cui, A. Farhan, E. Kirk, R. Chopdekar, Y. Masaki, N. S. Bingham, A. Scholl, R. L. Stamps, and L. J. Heyderman,
Emergent Dynamic Chirality in a Thermally Driven Artificial Spin Ratchet
Nat. Mater. **16**, 1106 (2017), DOI: 10.1107/ 10.1038/nmat5007
67. L. Artiglia, J. Edebeli, F. Orlando, S. Chen, M.-T. Lee, P. Corral-Arroyo, A. Gilgen, T. Bartels-Rausch, [A. Kleibert](#), M. Vazdar, M. Carignano, J. Francisco, P. Shepson, I. Gladich, and M. Ammann
A Surface-Stabilized Ozonide Triggers Bromide Oxidation at the Aqueous Solution-Vapor Interface
Nat. Commun. **8**, 700 (2017), DOI: 10.1038/s41467-017-00823-x
66. G. Tinti, H. Marchetto, C. A. F. Vaz, [A. Kleibert](#), M. Andrä, R. Barten, A. Bergamaschi, M. Brückner, S. Cartier, R. Dinapoli, T. Franz, E. Fröjdh, D. Greiffenberg, C. Lopez-Cuenca, C. Mezza, A. Mozzanica, F. Nolting, M. Ramilli, S. Redford, M. Ruat, Ch. Ruder, L. Schädler, Th. Schmidt, B. Schmitt, F. Schütz, X. Shi, D. Thattil, S. Vetter, and J. Zhang,
The EIGER Detector for Low Energy Electron Microscopy and Photo-Emission Electron Microscopy
J. Synchrotron Radiat. **24**, 936 (2017), DOI: 10.1107/S1600577517009109
65. A. Farhan, P. M. Derlet, L. Anghinolfi, [A. Kleibert](#), A. Scholl, and L. J. Heyderman,
Magnetic Charge and Moment Dynamics in Artificial Kagome Spin Ice
Phys. Rev. B **96**, 064409 (2017), DOI: 10.1103/PhysRevB.96.064409

64. M. Buzzi, M. Makita, L. Howald, **A. Kleibert**, B. Vodungbo, P. Maldonado, J. Raabe, N. Jaouen, H. Redlin, K. Tiedtke, P. M. Oppeneer, C. David, F. Nolting, and J. Lüning, **Single-Shot Monitoring of Ultrafast Processes via X-Ray Streaking at a Free Electron Laser** *Sci. Rep.* **7**, 7253 (2017), DOI: 10.1038/s41598-017-07069-z
63. M. Wyss, A. Mehlin, B. Gross, A. Buchter, A. Farhan, M. Buzzi, **A. Kleibert**, G. Tütüncüoğlu, F. Heimbach, A. Fontcuberta i Morral, D. Grundler, and M. Poggio, **Imaging Magnetic Vortex Configurations in Ferromagnetic Nanotubes** *Phys. Rev. B* **96**, 024423 (2017), DOI: 10.1103/PhysRevB.96.024423
62. **A. Kleibert**, A. Balan, R. Yanes, P. M. Derlet, C. A. F. Vaz, M. Timm, A. Fraile Rodríguez, A. Béché, J. Verbeeck, R. S. Dhaka, M. Radovic, U. Nowak, and F. Nolting **Direct Observation of Enhanced Magnetism in Individual Size- and Shape-Selected 3d Transition Metal Nanoparticles** *Phys. Rev. B* **95**, 195404 (2017), DOI: 10.1103/PhysRevB.95.195404 (Corresponding Author: A. K.)
61. W. Karim, C. Spreaoco, **A. Kleibert**, J. Gobrecht, J. VandeVondele, Y. Ekinici, and J. A. van Bokhoven **Catalyst Support Effects on Hydrogen Spillover** *Nature (London)* **541**, 68 (2017), DOI:10.1038/nature20782
60. G. Olivieri, A. Goel, **A. Kleibert**, D. Cvetko and M. A. Brown **Quantitative Ionization Potentials and Work Functions of Aqueous Solutions** *Phys. Chem. Chem. Phys.* **18**, 29506 (2016), DOI: 10.1039/C6CP05682B
59. S. Finizio, M. Vafae, I. Valmianski, R. M. Reeve, R. Lo Conte, **A. Kleibert**, I. K. Schuller, and M. Kläui **Control of the Magnetic Configuration of Ferromagnetic Nanostructures Across the Structural Phase Transition of Vanadium Dioxide** *IEEE Magn. Lett.* **7**, 6106604 (2016), DOI 10.1109/LMAG.2016.2605625
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57. M. A. Brown, Z. Abbas, **A. Kleibert**, R. G. Green, A. Goel, S. May, and T. M. Squires **Determination of Surface Potential and Electrical Double-Layer Structure at the Aqueous Electrolyte-Nanoparticle Interface** *Phys. Rev. X* **6**, 011007 (2016)
56. F. Orlando, A. Waldner, T. Bartels-Rausch, M. Birrer, M.-T. Lee, C. Proff, T. Huthwelker, **A. Kleibert**, J. A. van Bokhoven, and M. Ammann **The Environmental Photochemistry of Oxide Surfaces and the Nature of Frozen Salt Solutions: A New In Situ XPS Approach** *Top. Catal.* **59**, 591 (2016), DOI:10.1007/s11244-015-0515-5

55. W. Karim, [A. Kleibert](#), U. Hartfelder, A. Balan, J. Gobrecht, J. A. van Bokhoven, and Y. Ekinici
Size-Dependent Redox Behavior of Iron Observed by In Situ Single Nanoparticle Spectro-Microscopy on Well-Defined Model Systems
Sci. Rep. **6**, 18818 (2016), DOI:10.1038/srep18818
54. A. Buchter, R. Wölbing, M. Wyss, O. F. Kieler, T. Weimann, J. Kohlmann, A. B. Zorin, D. Rüffer, F. Matteini, G. Tütüncüoğlu, F. Heimbach, [A. Kleibert](#), A. Fontcuberta i Morral, D. Grundler, R. Kleiner, D. Koelle, and M. Poggio
Magnetization Reversal of an Individual Exchange Biased Permalloy Nanotube
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53. G. Olivieri, A. Goel, [A. Kleibert](#), and M. A. Brown
Effect of X-Ray Spot Size on Liquid Jet Photoelectron Spectroscopy
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50. M. A. Brown, M.-T. Lee, [A. Kleibert](#), M. Ammann, and J. B. Giorgi
Ion Spatial Distributions at the Air- and Vacuum–Aqueous K₂CO₃ Interfaces
J. Phys. Chem. C **119**, 4976 (2015)
49. A. B. Redondo, I. Jordan, I. Ziazadeh, [A. Kleibert](#), J. B. Giorgi, S. May, Z. Abbas, and M. A. Brown
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Antiferromagnetic Coupling of Cr–Porphyrin to a Bare Co Substrate
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46. C. A. F. Vaz, A. Balan, F. Nolting, and **A. Kleibert**
In Situ Magnetic and Electronic Investigation of the Early Stage Oxidation of Fe Nanoparticles Using X-Ray Photo-Emission Electron Microscopy
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(Corresponding Author: A. K.)
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Controlling the Dimensionality of On-Surface Coordination Polymers via Endo- or Exoligation
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44. A. Farhan, **A. Kleibert**, P. M. Derlet, L. Anghinolfi, A. Balan, R. V. Chopdekar, M. Wyss, S. Gliga, F. Nolting, and L. J. Heyderman
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(Corresponding Authors: A. K. and L. J. H.)
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40. A. Balan, P. M. Derlet, A. Fraile Rodríguez, J. Bansmann, R. Yanes, U. Nowak, **A. Kleibert**, and F. Nolting
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35. M. A. Brown, N. Duyckaerts, A. B. Redondo, I. Jordan, F. Nolting, **A. Kleibert**, M. Ammann, H. J. Woerner, J. A. van Bokhoven, and Z. Abbas
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Book Contributions

1. J. Bansmann, **A. Kleibert**, H. Bettermann, and M. Getzlaff
In-Flight and Post-Deposition Manipulation of Mass-Filtered Nanoparticles Under Soft-Landing Conditions
Gas Aggregation Synthesis of Nanoparticles, Edited by Yves Huttel (Wiley-VCH Verlag GmbH & Co. KGaA., Weinheim, 2017), p. 323.

Other Publications

2. **A. Kleibert**, A. Fraile Rodríguez, A. Voitkans, J. Bansmann, L. J. Heyderman, and F. Nolting
Discovering Size-Dependent Spin Structures in Iron Nanoparticles using Soft X-Ray Microscopy
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