

## Publications in Refereed Scientific Journals

72. L. Baldrati, A. Ross, T. Niizeki, R. Ramos, J. Cramer, O. Gomonay, M. Filianina, T. Savchenko, D. Heinze, **A. Kleibert**, E. Saitoh, J. Sinova, and M. Kläui  
**Full Angular Dependence of the Spin Hall and Ordinary Magnetoresistance in Epitaxial Antiferromagnetic NiO(001)/Pt Thin Films**  
Submitted (2017)
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**  
**Enhanced mobility of iron nanoparticles deposited onto a xenon-buffered substrate**  
J. Magn. Magn. Mat., Accepted (2018)  
(Corresponding Authors: C. A. F. V. and A. K.)
69. H. Cun, A. Hemmi, E. Miniussi, C. Bernard, B. Probst, K. Liu, D. Alexander, **A. Kleibert**, G. Mette, M. Weini, M. Schreck, J. Osterwalder, A. Radenovic, and T. Greber  
**Transfer of Centimeter-Sized Single-Orientation Monolayer h-BN with or without Nanovoids**  
Nano Lett., Accepted (2018), DOI: 10.1021/acs.nanolett.7b04752
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. Spreafico, **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
58. T. Hajiri, S. Finizio, M. Vafae, Y. Kuroki, H. Ando, H. Sakakibara, **A. Kleibert**, L. Howald, F. Kronast, K. Ueda, H. Asano, and M. Kläui **Magnetization Reversal of the Domain Structure in the Anti-Perovskite Nitride Co<sub>3</sub>FeN Investigated by High-Resolution X-Ray Microscopy** J. Appl. Phys. **119**, 183901 (2016)
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. Ruffer, 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**  
Phys. Rev. B **92**, 214432 (2015)
53. G. Olivieri, A. Goel, **A. Kleibert**, and M. A. Brown  
**Effect of X-Ray Spot Size on Liquid Jet Photoelectron Spectroscopy**  
J. Synchrotron Radiat. **22**, 1528 (2015), DOI:10.1107/S1600577515016306  
(Corresponding Authors: A. K. and M. A. B.)
52. A. Balan, A. Fraile Rodríguez, C. A. F. Vaz, **A. Kleibert**, and F. Nolting  
**Effect of Substrate Interface on the Magnetism of Supported Iron Nanoparticles**  
Ultramicroscopy **159**, 513 (2015), DOI:10.1016/j.ultramic.2015.05.008.  
(Corresponding Author: A. K.)
51. M.-T. Lee, M. A. Brown, S. Kato, **A. Kleibert**, A. Tuerler, and M. Ammann  
**Competition between Organics and Bromide at the Aqueous Solution–Air Interface as Seen from Ozone Uptake Kinetics and X-Ray Photoelectron Spectroscopy**  
J. Phys. Chem. A **119**, 4600 (2015)
50. M. A. Brown, M.-T. Lee, **A. Kleibert**, M. Ammann, and J. B. Giorgi  
**Ion Spatial Distributions at the Air- and Vacuum-Aqueous K<sub>2</sub>CO<sub>3</sub> 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  
**Nanoparticle-Induced Charge Redistribution of the Air-Water Interface**  
J. Phys. Chem. C **119**, 2661 (2015)
48. J. Pruyne, M.-T. Lee, C. Fábri, A. Redondo, **A. Kleibert**, M. Ammann, M. A. Brown, and M. Krisch  
**Liquid–Vapor Interface of Formic Acid Solutions in Salt Water: A Comparison of Macroscopic Surface Tension and Microscopic in Situ X-Ray Photoelectron Spectroscopy Measurements**  
J. Phys. Chem. C **118**, 29350 (2014)

47. J. Girovsky, K. Tarafder, C. Wäckerlin, J. Nowakowski, D. Siewert, T. Hählen, A. Wäckerlin, **A. Kleibert**, N. Ballav, T. A. Jung, and P. M. Oppeneer  
**Antiferromagnetic Coupling of Cr-Porphyrin to a Bare Co Substrate**  
Phys. Rev. B **90**, 220404(R) (2014)
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**  
Phys. Chem. Chem. Phys. **16**, 26624 (2014)  
(Corresponding Author: A. K.)
45. A. Shchyrba, C. Wäckerlin, J. Nowakowski, S. Nowakowska, J. Björk, S. Fatayer, J. Girovsky, T. Nijs, S. Martens, **A. Kleibert**, M. Stöhr, N. Ballav, T. A. Jung, and L. Gade  
**Controlling the Dimensionality of On-Surface Coordination Polymers via Endo- or Exoligation**  
J. Am. Chem. Soc. **136**, 9355 (2014)
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  
**Thermally Induced Magnetic Relaxation in Building Blocks of Artificial Kagome Spin Ice**  
Phys. Rev. B **89**, 214405 (2014)  
(Corresponding Authors: A. K. and L. J. H.)
43. **A. Kleibert**, A. Balan, A. Fraile Rodríguez, and F. Nolting  
**Investigating Individual Fe<sub>50</sub>Co<sub>50</sub> Alloy Nanoparticles Using X-Ray Photo-Emission Electron Microscopy**  
J. Phys. Conf. Series **521**, 012003 (2014)
42. J. Girovsky, M. Buzzi, C. Wäckerlin, D. Siewert, J. Nowakowski, P. M. Oppeneer, F. Nolting, T. A. Jung, **A. Kleibert**, and N. Ballav  
**Investigating Magneto-Chemical Interactions at Molecule-Substrate Interfaces by X-Ray Photo-Emission Electron Microscopy**  
Chem. Commun. **50**, 5190 (2014)  
(Invited Article, Corresponding Authors: A. K. and N. B.)
41. I. Jordan, A. B. Redondo, M. A. Brown, D. Fodor, M. Staniuk, **A. Kleibert**, H. J. Wörner, J. B. Giorgi, and J. A. van Bokhoven  
**Non-Uniform Spatial Distribution of Tin Oxide (SnO<sub>2</sub>) Nanoparticles at the Air-Water Interface**  
Chem. Commun. **50**, 4242 (2014)
40. A. Balan, P. M. Derlet, A. Fraile Rodríguez, J. Bansmann, R. Yanes, U. Nowak, **A. Kleibert**, and F. Nolting  
**Direct Observation of Magnetic Metastability in Individual Iron Nanoparticles**  
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39. C. Wäckerlin, P. Maldonado, L. Arnold, A. Shchyrba, J. Girovsky, J. Nowakowski, Md. Ehesan Ali, T. Hählen, M. Baljovic, D. Siewert, **A. Kleibert**, K. Müllen, P. M. Oppeneer, T. A. Jung, and N. Ballav  
**Magnetic Exchange Coupling of a Synthetic Co(II)-Complex to a Ferromagnetic Ni Substrate**  
 Chem. Commun. **49**, 10736 (2013)  
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38. A. Farhan, P. M. Derlet, **A. Kleibert**, A. Balan, R. V. Chopdekar, M. Wyss, J. Perron, A. Scholl, F. Nolting, and L. J. Heyderman  
**Direct Observation of Thermal Relaxation in Artificial Spin Ice**  
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37. M. A. Brown, A. B. Redondo, I. Jordan, N. Duyckaerts, M.-T. Lee, M. Ammann, F. Nolting, **A. Kleibert**, T. Huthwelker, J.-P. Mächler, M. Birrer, J. Honegger, R. Wetter, H. J. Wörner, and J. A. van Bokhoven  
**A New Endstation at the Swiss Light Source for Ultraviolet Photoelectron Spectroscopy, X-Ray Photoelectron Spectroscopy, and X-Ray Absorption Spectroscopy Measurements of Liquid Solutions**  
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36. A. Farhan, P. M. Derlet, **A. Kleibert**, A. Balan, R. V. Chopdekar, M. Wyss, L. Anghinolfi, F. Nolting and L. J. Heyderman  
**Exploring Hyper-Cubic Energy Landscapes in Thermally Active Finite Artificial Spin-Ice Systems**  
 Nat. Phys. **9**, 375 (2013)
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  
**Effect of Surface Charge Density on the Affinity of Oxide Nanoparticles for the Vapor–Water Interface**  
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34. C. Wäckerlin, K. Tarafder, J. Girovsky, J. Nowakowski, T. Hählen, A. Shchyrba, D. Siewert, **A. Kleibert**, F. Nolting, P. M. Oppeneer, N. Ballav, and T. A. Jung  
**Ammonia Coordination Introducing a Magnetic Moment in an On-Surface Low-Spin Porphyrin**  
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33. M. A. Brown, I. Jordan, A. B. Redondo, **A. Kleibert**, H. J. Woerner, and J. A. van Bokhoven  
**In Situ Photoelectron Spectroscopy at the Liquid/Nanoparticle Interface**  
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32. C. Wäckerlin, J. Nowakowski, M. Jaggi, D. Siewert, J. Girovsky, T. Hählen, S.-X. Liu, **A. Kleibert**, P. M. Oppeneer, F. Nolting, S. Decurtins, T. A. Jung, and N. Ballav  
**Two-Dimensional Supramolecular Electron Spin-Arrays**  
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31. L. Le Guyader, **A. Kleibert**, F. Nolting, L. Joly, P. M. Derlet, R. Pisarev, A. Kirilyuk, Th. Rasing, and A. V. Kimel  
**Dynamics of Laser-Induced Spin Reorientation in Co/SmFeO<sub>3</sub> Heterostructure**  
Phys. Rev. B **87**, 054437 (2013)
30. C. Wäckerlin, K. Tarafder, D. Chylarecka, J. Girovsky, T. Hählen, C. Iacovita, **A. Kleibert**, F. Nolting, T. A. Jung, P. M. Oppeneer, and N. Ballav  
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29. L. Le Guyader, **A. Kleibert**, A. Fraile Rodríguez, S. El Moussaoui, A. Balan, M. Buzzi, J. Raabe, and F. Nolting  
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J. Elec. Spectr. Rel. Phen. **185**, 371 (2012)
28. **A. Kleibert**, W. Rosellen, M. Getzlaff, and J. Bansmann  
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27. L. Molina, S. Lee, K. Sell, G. Barcaro, A. Fortunelli, B. Lee, S. Seifert, R. E. Winans, J. Elam, M. J. Pellin, I. Barke, V. von Oyenhausen, Yu Lei, R. J. Meyer, J. A. Alonso, A. Fraile Rodríguez, **A. Kleibert**, S. Giorgio, C. R. Henry, K.-H. Meiwes-Broer, and S. Vajda  
**Size-Dependent Selectivity and Activity of Silver Nanoclusters in the Partial Oxydation of Propylene Oxide and Acrolein: A Joint Experimental and Theoretical Study**  
Catal. Today **160**, 116 (2011)
26. C. Wäckerlin, D. Chylarecka, **A. Kleibert**, K. Müller, C. Iacovita, F. Nolting, T. A. Jung, and N. Ballav  
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25. A. Fraile Rodríguez, **A. Kleibert**, J. Bansmann, and F. Nolting  
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J. Phys. D: Appl. Phys. **43**, 474006 (2010)
24. **A. Kleibert**, F. Bulut, W. Rosellen, K.-H. Meiwes-Broer, J. Bansmann, and M. Getzlaff  
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**Magnetic Properties of Fe Nanoclusters on Cu(111) Studied with X-Ray Magnetic Circular Dichroism**  
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22. J. Bansmann, **A. Kleibert**, M. Getzlaff, A. Fraile Rodríguez, F. Nolting, C. Boeglin, and K.-H. Meiwes-Broer  
**Magnetism of 3d Transition Metal Nanoparticles on Surfaces Probed with Synchrotron Radiation – From Ensembles Towards Individual Objects**  
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21. **A. Kleibert**, A. Voitkans, and K.-H. Meiwes-Broer  
**Reflection High Energy Electron Diffraction as a Tool in Cluster Deposition Experiments**  
Phys. Status Solidi B **247**, 1048 (2010)  
(Corresponding Author: A. K.)
20. W. Rosellen, C. Kleinhans, V. Huckelkamp, F. Bulut, **A. Kleibert**, J. Bansmann, and M. Getzlaff  
**Influence of Substrate and Temperature on the Shape of Deposited Fe, Co, and FeCo Nanoparticles**  
Phys. Status Solidi B **247**, 1032 (2010)
19. S. Valencia, **A. Kleibert**, A. Gaupp, J. Ruzs, D. Legut, J. Bansmann, W. Gudat, and P. M. Oppeneer  
**Quadratic X-Ray Magneto-Optical Effect upon Reflection in a Near-Normal-Incidence Configuration at the M-Edges of 3d-Transition Metals**  
Phys. Rev. Lett. **104**, 187401 (2010)  
(Equal Contributions by S. V. and A. K.)
18. D. Chylarecka, C. Wäckerlin, T. K. Kim, K. Müller, F. Nolting, **A. Kleibert**, N. Ballav, and T. A. Jung  
**Self-Assembly and Superexchange Coupling of Magnetic Molecules on Oxygen Reconstructed Ferromagnetic Thin Film**  
J. Phys. Chem. Lett. **1**, 1408 (2010)
17. A. Fraile Rodríguez, **A. Kleibert**, J. Bansmann, A. Voitkans, L. J. Heyderman, and F. Nolting  
**Size-Dependent Spin Structures in Iron Nanoparticles**  
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(Equal Contributions by A. F. R. and A. K.)
16. **A. Kleibert**, A. Voitkans, and K.-H. Meiwes-Broer  
**Size-Dependent Alignment of Fe Nanoparticles Deposited onto W(110)**  
Phys. Rev. B **81**, 073412 (2010)  
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15. S. Vajda, S. Lee, K. Sell, I. Barke, **A. Kleibert**, V. von Oyenhausen, K.-H. Meiwes-Broer, A. Fraile Rodríguez, J. W. Elam, M. M. Pellin, B. Lee, S. Seifert, and R. E. Winans  
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14. **A. Kleibert**, J. Bansmann, and K.-H. Meiwes-Broer  
**Size-Dependent Magnetic Spin and Orbital Moments of Fe Nanoparticles Deposited onto Co/W(110)**  
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13. **A. Kleibert**, F. Bulut, R. K. Gebhardt, W. Rosellen, D. Sudfeld, J. Passig, J. Bansmann, K.-H. Meiwes-Broer, and M. Getzlaff  
**Correlation of Shape and Magnetic Anisotropy of Supported Mass-Filtered Fe and FeCo Alloy Nanoparticles on W(110)**  
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(Cover Feature of Issue 44)
12. J. Bansmann, **A. Kleibert**, F. Bulut, M. Getzlaff, P. Imperia, C. Boeglin, K.-H. Meiwes-Broer  
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11. K. Sell, **A. Kleibert**, V. von Oyenhausen, and K.-H. Meiwes-Broer  
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10. **A. Kleibert**, J. Passig, K.-H. Meiwes-Broer, M. Getzlaff, and J. Bansmann  
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**X-Ray Imaging and Spectroscopy of Individual Cobalt Nanoparticles Using Photoemission Electron Microscopy**  
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**Structure, Composition and Magnetic Properties of Size-Selected FeCo Alloy Clusters on Surfaces**  
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7. J. Bansmann, M. Getzlaff, **A. Kleibert**, F. Bulut, R. K. Gebhardt, and K.-H. Meiwes-Broer  
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**The Behaviour of Nanostructured Magnetic Materials Produced by Depositing Gas-Phase Nanoparticles**  
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5. **A. Kleibert**, V. Senz, J. Bansmann, and P. M. Oppeneer  
**Thickness Dependence and Magnetocrystalline Anisotropy of the X-Ray Transverse Magneto-Optical Kerr Effect at the 2p Edges of Ultrathin Co Films on W(110)**  
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4. J. Bansmann and **A. Kleibert**  
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**Mass-Filtered Ferromagnetic Alloy Clusters on Surfaces**  
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1. V. Senz, **A. Kleibert**, and J. Bansmann  
**Transverse Magneto-Optical Kerr-Effect in the Soft X-Ray Regime of Ultrathin Iron Films and Islands on W(110)**  
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## Book Contributions

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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

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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**  
PSI Report 2010, Research Focus and Highlights – Synchrotron Light

1. **A. Kleibert** and F. Nolting  
**Magnetische Nanowelt**  
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