

Refereed journal articles

1. F. Meinerzhagen, L. Breuer, H. Bukowska, M. Bender, D. Severin, M. Herder, H. Lebius, **M. Schleberger**, A. Wucher
A new setup for the investigation of swift heavy ion induced particle emission and surface modifications
Rev. Sci. Instr. (2016)
2. Ochedowski, O. Lehtinen, U. Kaiser, A. Turchanin, B. Ban-d'Etat, H. Lebius, M. Karlusic, M. Jaksic, **M. Schleberger**,
Nanostructuring graphene by dense electronic excitation
Nanotechnology 26, 465302 (2015)
3. M. Mishra, F. Meinerzhagen, **M. Schleberger**, D. Kanjilal, and T. Mohanty
Swift Heavy Ion Induced Optical and Electronic Modifications of Graphene-TiO₂ Nanocomposites.
J. Phys. Chem. 119, 21270 (2015)
4. M. Karlušić, R. Kozubek, H. Lebius, B. Ban d'Etat, R.A. Wilhelm, M. Buljan, Z. Siketić, F. Scholz, T. Meisch, M. Jakšić, S. Bernstorff, **M. Schleberger** and B. Šantić
Response of GaN to energetic ion irradiation: conditions for ion track formation
J. Phys. D: Appl. Phys. 48, 325304 (2015)
5. M. Staiger, R. Gillen, N. Scheuschner, O. Ochedowski, F. Kampmann, **M. Schleberger**, C. Thomsen, J. Maultzsch
Splitting of the monolayer out-of-plane A₁' Raman mode in few-layer WS₂
Phys. Rev. B 91, 195419 (2105)
6. E. Gruber, E. Lattouf, L. Bergen, P. Salou, C. Grygiel, Y.Y. Wang, O. Ochedowski, A. Benyagoub, D. Levavasseur, J. Rangama, H. Lebius, B. Ban-d'Etat, **M. Schleberger**, F. Aumayr
Studies of surface nanostructure formation due to swift heavy ion irradiation under grazing incidence
Journal of Physics Conference Series, 635 (2015) 032001
7. F. Herziger, Ch. Tyborski, O. Ochedowski, **M. Schleberger**, J. Maultzsch
Double-resonant LA phonon scattering in defective graphene and carbon nanotubes
Phys. Rev. B 90, 245431 (2014)
8. O. Ochedowski, H. Bukowska, V.M. Freire Soler, L. Bröckers, B. Ban-d'Etat, H. Lebius, **M. Schleberger**
Folding two dimensional crystals by swift heavy ion irradiation
Nucl. Instr. Meth. B 340 (2014) 39
9. R. Kozubek, O. Ochedowski, I. Zagoranskiy, M. Karlusic, and **M. Schleberger**
Application of HOPG and CVD graphene as ion beam detectors
Nucl. Instr. Meth. B 340 (2014) 81
10. O. Ochedowski, B. Kleine Bussmann, **M. Schleberger**
Graphene on Mica - Intercalated Water Trapped for Life
Sci. Rep. 4 (2014) 6003

11. J. Hopster, R. Kozubek, B. Ban-d'Etat, S. Guillous, H. Lebius, **M. Schleberger**
Damage in graphene due to electronic excitation induced by highly charged ions
2D Materials 1, 1011011 (2014)
12. O. Ochedowski, O. Osmani, M. Schade, B. Kleine Bussmann, B. Ban-d'Etat, H. Lebius, and **M. Schleberger**
Graphitic nanostripes in SiC surfaces created by swift heavy ion irradiation
Nature Communications 5, 3913 (2014)
13. M. Temmen, O. Ochedowski, **M. Schleberger**, M. Reichling, T. Bollmann
Hydration layers trapped between graphene and a hydrophilic substrate
New J. Physics 16, 053039 (2014)
14. D. Klar, S. Bhandary, A. Candini, L. Joly, P. Ohresser, S. Klyatskaya, **M. Schleberger**, M. Ruben, M. A ronte, O. Eriksson, B. Sanyal, and H. Wende
Field-regulated switching of the magnetization of Co-porphyrin on graphene
Phys. Rev. B 89, 144411 (2014)
15. O. Ochedowski, K. Marinov, N. Scheuschner, A. Poloczek, B. Kleine Bussmann, J. Maultzsch, **M. Schleberger**
Effect of Contaminations and Surface Preparation on the Work Function of Single Layer MoS₂
Beilstein J. Nanotechnol. 5, 291 (2014)
16. N. Scheuschner, O. Ochedowski, A.-M. Kaulitz, R. Gillen, **M. Schleberger**, and J. Maultzsch
Photoluminescence of freestanding single- and few-layer MoS₂
Phys. Rev. B 89, 125406 (2014)
17. O. Osmani, N. Medvedev, J.I. Juaristi, **M. Schleberger**, B. Rethfeld
Transient metal-like electrical conductivity in swift heavy ion irradiated insulators
Nucl. Instrum. Meth. B 317, 72 (2013)
18. J. Hopster, R. Kozubek, J. Krämer, V. Sokolovsky, and **M. Schleberger**
Ultra-thin MoS₂ irradiated with highly charged ions
Nucl. Instrum. Meth. B 317, 165 (2013)
19. Ochedowski, S. Akcöltekin, B. Ban d'Etat, H. Lebius, and **M. Schleberger**
Detecting swift heavy ion irradiation effects with graphene
Nucl. Instrum. Meth. B 314, 18 (2013)
20. M. Temmen, O. Ochedowski, B. Kleine Bussmann, **M. Schleberger**, Michael Reichling, T. Bollmann.
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21. M.C. Ridgway, T. Bierschenk, R. Giulian, B. Afra, M.D. Rodriguez, L.L. Araujo, A.P. Byrne, N. Kirby, O.H. Pakarinen, F. Djurabekova, K. Nordlund, **M. Schleberger**, O. Osmani, N. Medvedev, B. Rethfeld and P. Kluth
Tracks and voids in amorphous Ge induced by swift heavy ion irradiation
Phys. Rev. Lett. 110 (2013) 245502

22. O. Ochedowski, K. Marinov, G. Wilbs, G. Keller, N. Scheuschner, D. Severin, M. Bender, J. Maultzsch, F. J. Tegude and **M. Schleberger**
Radiation hardness of graphene and MoS₂ field effect devices against swift heavy ion irradiation
J. Appl. Phys. 113, 214306 (2013)
23. O. Ochedowski, B. Kleine Bussmann, B. Ban d'Etat, H. Lebius and **M. Schleberger**
Manipulation of the graphene surface potential by ion irradiation
Appl. Phys. Lett. 102, 153103 (2013)
24. N. Scheuschner, O. Ochedowski, **M. Schleberger** and J. Maultzsch.
Resonant Raman profile and μ -photoluminescence of atomically thin layers of molybdenum disulfide
Phys. Stat. Sol. B 249, No. 12 (2012) 2644
25. O. Ochedowski, G. Begall, N. Scheuschner, J. Maultzsch, **M. Schleberger**.
Graphene on Si(111)7x7.
Nanotechnology 23 (2012) 405708
26. O. Osmani, I. Alzaher, T. Peters, B. Ban d'Etat, A. Cassimi, H. Lebius, I. Monnet, N. Medvedev, B. Rethfeld and **M. Schleberger**.
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Nucl. Instrum. Methods B 282 (2012) 43
27. T. Peters, I. Alzaher, B. Ban d'Etat, A. Cassimi, I. Monnet, H. Lebius and **M. Schleberger**.
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28. B. Kleine Bußmann, K. Marinov, O. Ochedowski, N. Scheuschner, and **M. Schleberger**.
Electronic characterization of single-layer MoS₂ sheets exfoliated on SrTiO₃.
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Laser cleaning of exfoliated graphene.
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30. O. Osmani, N. Medvedev, **M. Schleberger** and B. Rethfeld.
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31. F. Aumayr, S. Facsko, A. El Said, C. Trautmann and **M. Schleberger**.
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32. B. Kleine Bußmann, O. Ochedowski and **M. Schleberger**.
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Nanotechnology 22 (2011) 265703
33. H. Bukowska, F. Meinerzhagen, S. Akcöltekin, O. Ochedowski, M. Neubert, V. Buck and **M. Schleberger**.
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34. J. Hopster, D. Diesing, A. Wucher and **M. Schleberger**.
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35. S. Akcöltekin, H. Bukowska, E. Akcöltekin, H. Lebius and **M. Schleberger**.
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Scholarly Book Chapters

1. A.R. Bachmann, S. Speller, J. Manske, **M. Schleberger**, A. Nürmann, W. Heiland
Structural and Magnetic Properties of Co-Cu Film Systems
The Physics of Low Dimensional Systems, Ed.: J. L. Moran – Lopez. Plenum Press, New York, 2001
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