

**Publications by**  
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Last updated:  
Thursday, July 06, 2017



## A) Publications listed in the Science Citation Index

1. L. Mairhofer, S. Eibenberger, J. P. Cotter, M. Romirer, A. Shayeghi, M. Arndt  
*Quantum-assisted metrology of neutral vitamins in the gas-phase*  
**Angew. Chem. Int. Ed.** Accepted online: 9 June 2017 DOI: 10.1002/anie.201704916
2. J. Schätti, U. Sezer, S. Pedalino, J. P. Cotter, M. Arndt\*, M. Mayor and V. Köhler\*  
*Tailoring the volatility and stability of oligopeptides*  
**J. Mass Spectrom.** 2017 (in press) DOI: 10.1002/jms.3959
3. J. Rodewald, P. Haslinger, N. Dörre, B.A. Stickler, A. Shayeghi, K. Hornberger, M. Arndt  
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**Appl. Phys. B** 123,3 (2017); DOI 10.1007/s00340-016-6573-y
4. U. Sezer, P. Geyer, M. Kriegleder, M. Debiossac, A. Shayeghi, M. Arndt, F. Lukas, M. Mayor  
*Selective photodissociation of tailored molecular tags as a tool for quantum optics,*  
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5. C. Knobloch, B. A. Stickler, C. Brand, M. Sclafani, Y. Lilach, T. Juffmann, O. Cheshnovsky, K. Hornberger and M. Arndt  
*On the role of the electric dipole moment in the diffraction of biomolecules at nanomechanical gratings*  
**Prog. Phys.**, 1–8 (2016); DOI: 10.1002/prop.201600025
6. S. Kuhn, A. Kosloff, B. A. Stickler, F. Patolsky, K. Hornberger, M. Arndt, and J. Millen  
*Full Rotational Control of Levitated Silicon Nanorods*  
**Optica** 4, 356-360 (2017); DOI: doi.org/10.1364/OPTICA.4.000356
7. B. A. Stickler, S. Nimmrichter, L. Martinetz, S. Kuhn, M. Arndt, K. Hornberger  
*Ro-Translational Cavity Cooling of Dielectric Rods and Disks*  
**Phys. Rev. A** 94, 033818, (2016); DOI: 10.1103/PhysRevA.94.033818
8. P. Geyer, U. Sezer, J. Rodewald, L. Mairhofer, N. Dörre, P. Haslinger, S. Eibenberger, C. Brand and M. Arndt  
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**Phys. Scr.** 91, 063007-063019 (2016); DOI: 10.1088/0031-8949/91/6/063007
9. W.P. Schleich, et al.  
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10. C. Brand, M. Sclafani, C. Knobloch, Y. Lilach, T. Juffmann, J. Kotakoski, C. Mangler, A. Winter, A. Turchanin, J. Meyer, O. Cheshnovsky, M. Arndt  
*An atomically thin matter-wave beam splitter*  
**Nature Nanotechnology** 10, 845 - 848 (2015); DOI: 10.1038/nnano.2015.179  
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11. Markus Arndt & Christian Brand  
*Interference of atomic clocks*  
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12. C. Brand, J. Fiedler, T. Juffmann, M. Sclafani, C. Knobloch, S. Scheel, Y. Lilach, O. Cheshnovsky, M. Arndt  
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15. J. Kotakoski, C. Brand, Y. Lilach, O. Cheshnovsky, C. Mangler, M. Arndt, and J. C. Meyer  
*Towards two-dimensional all-carbon heterostructures via ion beam patterning of single-layer graphene*  
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16. J. P. Cotter, S. Eibenberger, L. Mairhofer, X. Cheng, P. Asenbaum, M. Arndt; K. Walter, S. Nimmrichter, K. Hornberger  
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17. U. Sezer, L. Wörner, J. Horak, L. Felix, J. Tüxen, C. Götz, A. Vaziri, M. Mayor, and M. Arndt  
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19. J. Espigulé-Pons, C. Götz, A. Vaziri, M. Arndt  
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20. N. Dörre, P. Haslinger, J. Rodewald, P. Geyer and M. Arndt,  
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22. C. Emary, J. P. Cotter, M. Arndt  
*Testing macroscopic realism through high-mass interferometry.*  
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23. L. Felix, U. Sezer, M. Arndt, and M. Mayor,  
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