

Publications by
Univ. Prof. Dr. Markus Arndt

Quantum Nanophysics Group

Vienna Center for Quantum Science & Technology, VCQ

Faculty of Physics, University of Vienna

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A) Publications listed in the Science Citation Index

1. B. A. Stickler, B. Papendell, S. Kuhn, J. Millen, M. Arndt, and K. Hornberger, *Orientational quantum revivals of nanoscale rotors*, **arXiv:1803.01778v1 (2018)**
2. J. Rodewald, N. Dörre, A. Grimaldi, P. Geyer, L. Felix, M. Mayor, A. Shayeghi and M. Arndt *Isotope-selective high-order interferometry with large organic molecules in free fall* **New J. Phys. advanced online (2018)**, doi.org/10.1088/1367-2630/aaade2
3. S. Kuhn, G. Wachter, F. Wieser, J. Millen, M. Schneider, J. Schalko, U. Schmid, M. Trupke, & M Arndt *Nanoparticle detection in an open-access silicon microcavity* **Appl. Phys. Lett. 111, 253107 (2017)**, DOI: 10.1063/1.5008492, arxiv.org/abs/1712.01533, **Editor's Pick**
4. S. Kuhn, B. A. Stickler, A. Kosloff, F. Patolsky, K. Hornberger, M. Arndt and J. Millen *Optically driven ultra-stable nanomechanical rotor* **Nature Comm. 8 (1) (2017)** DOI: 10.1038/s41467-017-01902-9 **Highlighted by Phys.Org**
5. C. Brand, B.A. Stickler, C. Knobloch, A. Shayeghi, K. Hornberger, M. Arndt *Conformer-selection by matter-wave interference* **arXiv:1710.01035 (2017)**
6. J. P. Cotter, C. Brand, C. Knobloch, Y. Lilach, O. Cheshnovsky, M. Arndt *In search of multipath interference using large molecules* **Scienc Adv. 3, e1602478 (2017)**, DOI: 10.1126/sciadv.1602478 **Highlighted in PhysicsWold, PhysOrg**
7. 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. 56, 6 (2017)**; DOI: 10.1002/ange.201704916 German Version: **Angew. Chem. 129, 7 (2017)**. DOI: 10.1002/ange.201704916 **Highlighted in Chemistry Views, HealthMediciNet, ProPhysik**
8. L. Gallego, U. Sezer, M. Arndt, M. Mayor *Long-pulse laser launch and ionization of tailored large neutral silver nanoparticles with atomic mass assignment* **Nanoscale 9, 9175-9180 (2017)**; DOI: 10.1039/c7nr03297n
9. 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. 52, 550-556 (2017)** DOI: 10.1002/jms.3959
10. J. Rodewald, P. Haslinger, N. Dörre, B.A. Stickler, A. Shayeghi, K. Hornberger, M. Arndt *New avenues for matter-wave-enhanced spectroscopy*, **Appl. Phys. B 123,3 (2017)**; DOI 10.1007/s00340-016-6573-y
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