

Publikations of Dr. Annika Bande

Peer-Reviewed

10. A. Bande, F. M. Pont, P. Dolbundalchok, K. Gokhberg and L. S. Cederbaum, "Interatomic Coulombic Electron Capture in Atomic, Molecular, and Quantum Dot Systems", *EPJ Web Conf.* **84**, 07002 (2015).
9. F. M. Pont, A. Bande, L. S. Cederbaum, "Electron-Correlation Driven Capture and Release in Double Quantum Dots", *Phys. Rev. B* **88**, 241304(R), 1-5 (2013).
8. A. Bande, "Electron Dynamics of Interatomic Coulombic Decay in Quantum Dots Induced by a Laser Field", *J. Chem. Phys.* **138**, 214104, 1-11 (2013).
7. A. Bande, F. M. Pont, P. Dolbundalchok, K. Gokhberg and L. S. Cederbaum, "Electron Dynamics of Interatomic Coulombic Decay in Quantum Dots: Singlet Initial State", *EPJ Web Conf.* **41**, 04031, 1-3 (2013).
6. A. Bande, K. Gokhberg, L. S. Cederbaum, "Dynamics of interatomic Coulombic decay in quantum dots", *J. Chem. Phys.* **135**, 144112, 1-13 (2011).
5. A. Bande, H. Nakashima, und H. Nakatsuji, "LiH potential energy curves for ground and excited states with the free complement local Schrödinger equation method", *Chem. Phys. Lett.* **496**, 347-350 (2010).
4. A. Bande und J. Michl, "Conformational dependence of σ -electron delocalization in linear chains: permethylated oligosilanes", *Chem. Eur. J.* **15**, 8504-8517 (2009).
3. A. Bande und A. Lüchow, "Vanadium oxide compounds with quantum Monte Carlo", *Phys. Chem. Chem. Phys.* **10**, 3371-3376 (2008).
2. A. Bande und A. Lüchow, "Rydberg states with quantum Monte Carlo" in *Advances in Quantum Monte Carlo*, edited by J. B. Anderson, S. M. Rothstein (American Chemical Society, Washington, DC, 2007), 43-54.
1. A. Bande, A. Lüchow, F. Della Sala, und A. Görling, "Rydberg states with quantum Monte Carlo", *J. Chem. Phys.* **124**, 114114-1 - 114114-6 (2006).

Other Scientific Publications

3. A. Bande, K. Gokhberg, N. Moiseyev, and L. S. Cederbaum, "Electron Dynamics of Interatomic Coulombic Decay in Quantum Dots", *J. Phys.: Conf. Ser.* **388**, 152026 (2012).
2. A. Bande, "Excited states and transition metal compounds with quantum Monte Carlo", Dissertation, RWTH Aachen, URL: <http://darwin.bth.rwth-aachen.de/opus3/volltexte/2008/2123/>, (2007).
1. A. Bande, „Die FN-DMC-Methode: Benchmark-Rechnungen, Rydberg-Zustände und Knotenhyperflächen“, Diplomarbeit, RWTH Aachen, (2004).

Planned Publications

3. P. Dolbundalchok, A. Bande, "Control of quantum dot interatomic Coulombic decay", *in Vorbereitung*.
2. D. Antic, D. W. Rooklin, A. Bande, and J. Michl, "Electronic Excitation in Helical Permethylated Oligosilanes", *in Vorbereitung*.
1. F. M. Pont, A. Bande, and L. S. Cederbaum, "Electron-correlation driven capture and release in double quantum dots", *in Vorbereitung*.

Science-Related Publications

2. A. Bande, „Bewegte Elektronen auf neuen Wegen: Verleihung des Freigeist-Fellowships an Annika Bande“, *Neues vom JSPS Club* **57**, 5 (2014).
1. A. Bande, „Physikochemikerinnen vernetzen“, *Nachr. Chem.* **62**, 1235 (2014).