

List of Publications

1. M. Socaciu, M. Ursache, C. Șarpe-Tudoran, V. Călian, G. Brătulescu, C. Șarpe-Tudoran, L. D. Socaciu: “*Electrically Controlled Birefringence in DMCBOAB Liquid Crystals*”, Rom. J. Optoelect. 5, 36-40, 1997.
2. M. Socaciu, M. Ursache, V. Călian, C. Șarpe-Tudoran, L. D. Socaciu : “*Multiple Layer Interference on TBBA-CM Liquid Crystal Mixture*”, Mol. Cryst. Liq. Cryst. 321, 125-131, 1998.
3. U. Busolt, E. Cottancin, H. Röhr, L. Socaciu, T. Leisner, L. Wöste: “*Cluster-surface interaction studied by time-resolved two-photon photoemission*”, Appl. Phys. B 68, 453-457, 1999.
4. U. Busolt, E. Cottancin, H. Röhr, L. Socaciu, T. Leisner, L. Wöste: “*Two-photon photoemission of deposited silver clusters*”, Eur. Phys. J. D 9, 523-527, 1999.
5. H. Hess, S. Kwiet, L. Socaciu, S. Wolf, T. Leisner, L. Wöste: “*The influence of the anion vibrational temperature on the fs-dynamics in a NeNePo experiment*”, Appl. Phys. B 71, 337-341, 2000.
6. U. Busolt, E. Cottancin, L. Socaciu, H. Röhr, T. Leisner, L. Wöste: “*Diffusion and aggregation of Ag_n - clusters ($n = 2-9$) on HOPG probed by fs-two-photon-photoemission*”, Eur. Phys. J. D 16, 297-300, 2001.
7. L. D. Socaciu, J. Hagen, U. Heiz, T. M. Bernhardt, T. Leisner, L. Wöste: “*Reaction mechanism for the oxidation of free silver dimers*”, Chem. Phys. Lett. 340, 282-288, 2001.

8. J. Hagen, L. D. Socaciu, M. Elijazzyfer, U. Heiz, T. M. Bernhardt, L. Wöste: “*Coadsorption of CO and O₂ on small free gold cluster anions at cryogenic temperatures: Model complexes for catalytic CO oxidation*”, Phys. Chem. Chem. Phys. 4, 1707-1709, 2002.
9. L. D. Socaciu, J. Hagen, T. M. Bernhardt, L. Wöste, U. Heiz, H. Häkkinen, U. Landman: “*Catalytic CO Oxidation by Free Au₂⁻: Experiment and Theory*”, J. Am. Chem. Soc. 125, 10437-10445, 2003.
10. J. Hagen, L. D. Socaciu, U. Heiz, T. M. Bernhardt, L. Wöste: “*Size dependent reaction kinetics of small gold clusters with carbon monoxide: Influence of internal degrees of freedom and carbonyl complex stability*”, Eur. Phys. J. D 24, 327-330, 2003.
11. L. D. Socaciu, J. Hagen, J. Le Roux, D. Popolan, T. M. Bernhardt, L. Wöste, Š. Vajda: “*Strongly cluster size dependent reaction behavior of CO with O₂ on free silver cluster anions*”, J. Chem. Phys. 120, 2078-2081, 2004.
12. J. Hagen, L. D. Socaciu, J. Le Roux, D. Popolan, T. M. Bernhardt, L. Wöste, R. Mitrić, H. Noack, V. Bonačić - Koutecký: “*Cooperative Effects in the Activation of Molecular Oxygen by Anionic Silver Clusters*”, J. Am. Chem. Soc. 126, 3442-3443, 2004.
13. A. Lindinger, J. Hagen, L. D. Socaciu, T. M. Bernhardt, L. Wöste, D. Duft, T. Leisner: “*Time-resolved explosion dynamics of H₂O droplets induced by femtosecond laser pulses*”, Appl. Optics 43, 5263-5269, 2004.
14. T. M. Bernhardt, L. D. Socaciu, J. Hagen, D. Popolan, J. Le Roux, U. Heiz, L. Wöste, “*Catalysis with small free noble metal clusters*”, in “*Clusters and Nanostructure Interfaces*”, eds. P. Jena, S. N. Khanna, B. K. Rao, World Scientific, Singapore, 2004, in press.
15. T. M. Bernhardt, J. Hagen, L. D. Socaciu, R. Mitrić, A. Heidenreich, J. Le Roux, D. Popolan, M. Vaida, L. Wöste, V. Bonačić - Koutecký, J. Jortner, “*Femtosecond time-resolved geometry relaxation and ultrafast intramolecular energy redistribution in Ag₂Au*”, submitted to ChemPhysChem, 2004.