

Prof. Stelios Tzortzakis

Publications list (updated 1/2014)

- [1] **D. G. Papazoglou, D. Abdollahpour, and S. Tzortzakis**
"Ultrafast electron and material dynamics following femtosecond filamentation induced excitation of transparent solids" **Invited**
Appl. Phys. A. online (2014)
- [2] **M. Massaouti and S. Tzortzakis**
"Controlling laser filamentation induced strong THz fields" **Invited**
Chin. J. of Phys. in press (2014)
- [3] **M. Bellec, G. Nikolopoulos and S. Tzortzakis**
"State Transfer Hamiltonians in Photonic Lattices", Book chapter in "Quantum State Transfer and Network Engineering", Springer, p. 223-245 (2014)
- [4] **P. Panagiotopoulos, D. G. Papazoglou, A. Couairon, and S. Tzortzakis**
"Sharply autofocused ring-Airy beams transforming into nonlinear intense light bullets"
Nature Communications **4**, 2622 (2013)
- [5] **M. Massaouti, C. Daskalaki, A. Gorodetsky, A. D. Koulouklidis, and S. Tzortzakis**
"Detection of Harmful Residues in Honey Using Terahertz Time-Domain Spectroscopy"
Appl. Spectrosc. **67**, 1264-1269 (2013)
- [6] **S. Suntsov, D. Abdollahpour, D. G. Papazoglou, P. Panagiotopoulos, A. Couairon, and S. Tzortzakis**
"Tailoring femtosecond laser pulse filamentation using plasma photonic lattices"
Appl. Phys. Lett. **103**, 021106 (2013)
- [7] **M. Massaouti, A. A. Basharin, M. Kafesaki, M. F. Acosta, R. I. Merino, V. M. Orera, E. N. Economou, C. M. Soukoulis, S. Tzortzakis**
"Eutectic epsilon-near-zero metamaterial terahertz waveguides"
Opt. Lett. **38**, 1140-1142 (2013)
- [8] **K. Stamataki, V. Papadakis, M. A. Everest, S. Tzortzakis, B. Loppinet, and T. P. Rakitzis**
"Monitoring adsorption and sedimentation using evanescent-wave cavity ringdown ellipsometry"
Appl. Opt. **52**, 1086-1093(2013)
- [9] **M. Kafesaki, N. H. Shen, S. Tzortzakis, and C. M. Soukoulis**
"Optically switchable and tunable terahertz metamaterials through photoconductivity"
J. Opt. **14**, 114008 (2012)
- [10] **M. Bellec, G. M. Nikolopoulos, and S. Tzortzakis**
"Faithful communication Hamiltonian in photonic lattices"
Opt. Lett. **37**, 4504-4506 (2012)
- [11] **M. Bellec, P. Panagiotopoulos, D. G. Papazoglou, N. K. Efremidis, A. Couairon, and S. Tzortzakis**

- "Observation and optical tailoring of photonic lattice filaments"*
Phys. Rev. Lett. **109**, 113905 (2012) [*Highlighted in [Physics](#)*]
- [12] **D. Faccio, G. Tamosauskas, E. Rubino, J. Darginavicius, D. G. Papazoglou, S. Tzortzakis, A. Couairon, and A. Dubietis**
"Cavitation dynamics and directional micro-bubble ejection induced by intense femtosecond laser pulses in liquids"
Phys. Rev. E **86**, 036304 (2012)
- [13] **P. Panagiotopoulos, D. Abdollahpour, A. Lotti, A. Couairon, D. Faccio, D. G. Papazoglou, and S. Tzortzakis**
"Nonlinear propagation dynamics of finite-energy Airy beams"
Phys. Rev. A **86**, 013842 (2012)
- [14] **E. K. Efremidis, D. G. Papazoglou, and S. Tzortzakis**
"Linear and nonlinear waves in surface and wedge index potentials"
Opt. Lett. **37**, 1874-1876 (2012)
- [15] **D. Faccio, E. Rubino, A. Lotti, A. Couairon, A. Dubietis, G. Tamosauskas, D. G. Papazoglou, and S. Tzortzakis**
"Nonlinear light-matter interaction with femtosecond high-angle Bessel beams"
Phys. Rev. A **85**, 033829 (2012)
[*Highlighted in the Virtual Journal of Ultrafast Science, April 2012*]
- [16] **G. Filippidis, M. Massaouti, A. Selimis, E. Gualda, J. M. Manceau, and S. Tzortzakis**
"Nonlinear imaging and THz diagnostic tools in the service of Cultural Heritage"
Appl. Phys. A **106**, 257-26 (2012) [*Highlighted in the [Heritage Portal](#)*]
- [17] **M. Massaouti, J. M. Manceau, A. Selimis, and S. Tzortzakis**
"An intense tunable femtosecond gas-plasma THz source: application in spectroscopic studies of polycyclic aromatic hydrocarbons"
J. Mol. Struct. **1006**, 28-33 (2011)
- [18] **Daryoush Abdollahpour, Dimitrios G. Papazoglou, and Stelios Tzortzakis**
"Four-dimensional visualization of single and multiple laser filaments using in-line holographic microscopy"
Phys. Rev. A **84**, 053809 (2011)
[*Highlighted in the Virtual Journal of Ultrafast Science, December 2011*]
- [19] **George Stegeman, Mark Kuzyk, Dimitris G. Papazoglou, and Stelios Tzortzakis**
"Off-resonance and non-resonant dispersion of Kerr nonlinearity for symmetric molecules"
Opt. Express **19**, 22486-22495 (2011)
- [20] **A. Lotti, D. Faccio, A. Couairon, D. G. Papazoglou, P. Panagiotopoulos, D. Abdollahpour, and S. Tzortzakis**
"Stationary nonlinear Airy beams"
Phys. Rev. A **84**, 021807(R) (2011)
[*Highlighted in the Virtual Journal of Ultrafast Science, September 2011*]
- [21] **D. Abdollahpour, S. Suntsov, D. G. Papazoglou, and S. Tzortzakis**
"Measuring easily electron plasma densities in gases produced by ultrashort lasers and filaments"
Opt. Express **19**, 16866-16871 (2011)
[*Highlighted in the Virtual Journal of Ultrafast Science, October 2011*]

- [22] **D. G. Papazoglou and S. Tzortzakis**
"Physical mechanisms of fused silica restructuring and densification after femtosecond laser excitation"
 Opt. Mater. Express **1**, 625-632 (2011)
- [23] **P. Panagiotopoulos, A. Couairon, N.K. Efremidis, D. G. Papazoglou, and S. Tzortzakis**
"Intense dynamic bullets in a periodic lattice"
 Opt. Express **19**, 10057-10062 (2011)
[Highlighted in the Virtual Journal of Ultrafast Science, July 2011]
- [24] **M. A. Everest, V. M. Papadakis, K. Stamataki, S. Tzortzakis, B. Loppinet, and T. P. Rakitzis**
"Evanescent-Wave Cavity Ring-Down Ellipsometry"
 J. Phys. Chem. Lett. **2**, 1324-1327 (2011)
- [25] **D. G. Papazoglou, E. K. Efremidis, D. N. Christodoulides, and S. Tzortzakis**
"Observation of abruptly autofocusing waves"
 Opt. Lett. **36**, 1842-1844 (2011)
[Top 2 downloaded paper of Optics Letters in May 2011]
- [26] **G. Stegeman, D. G. Papazoglou, R. Boyd, and S. Tzortzakis**
"Nonlinear birefringence due to non-resonant, higher-order Kerr effect in isotropic media"
 Opt. Express **19**, 6387-6399 (2011)
[Highlighted in the Virtual Journal of Ultrafast Science, May 2011]
- [27] **N.-H. Shen, M. Massaouti, M. Gokkavas, J.-M. Manceau, E. Ozbay, M. Kafesaki, T. Koschny, S. Tzortzakis, C. M. Soukoulis**
"Optically implemented broadband blue-shift switch in the terahertz regime"
 Phys. Rev. Lett. **106**, 037403 (2011)
- [28] **D. Abdollahpour, S. Suntsov, D. G. Papazoglou and S. Tzortzakis**
"Spatio-temporal Airy light bullets in the linear and nonlinear regimes"
 Phys. Rev. Lett. **105**, 253901 (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, January 2011]
- [29] **P. Panagiotopoulos, N.K. Efremidis, D. G. Papazoglou, A. Couairon and S. Tzortzakis**
"Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices"
 Phys. Rev. A **82**, 061803(R) (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, January 2011]
- [30] **J.-M. Manceau, P. A. Loukakos and S. Tzortzakis**
"Direct acoustic phonon excitation by intense and ultrashort THz pulses"
 Appl. Phys. Lett. **97**, 251904 (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, January 2011]
- [31] **J.-M. Manceau, M. Massaouti and S. Tzortzakis**
"Coherent control of THz pulses polarization from femtosecond laser filaments in gases"
 Opt. Express **18**, 18894-18899 (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, December 2010]
- [32] **J.-M. Manceau, M. Massaouti and S. Tzortzakis**
"Strong terahertz emission enhancement via femtosecond laser filament concatenation in air"

- Opt. Lett. **35**, 2424-2426 (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, November 2010]
- [33] **D. G. Papazoglou, S. Suntsov, D. Abdollahpour and S. Tzortzakis**
 "Tunable intense Airy beams and tailored femtosecond laser filaments"
 Phys. Rev. A **81**, 061807(R) (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, July 2010]
- [34] **S. Suntsov, D. Abdollahpour, D. G. Papazoglou and S. Tzortzakis**
 "Filamentation produced third harmonic in air via plasma enhanced third-order susceptibility"
 Phys. Rev. A **81**, 033817 (2010)
[Highlighted in the Virtual Journal of Ultrafast Science, April 2010]
- [35] **J.-M. Manceau, N.-H. Shen, M. Kafesaki, C. M. Soukoulis, S. Tzortzakis**
 "Dynamic response of metamaterials in the terahertz regime: Blueshift tunability and broadband phase modulation"
 Appl. Phys. Lett. **96**, 021111 (2010)
- [36] **J.-M. Manceau, A. Averchi, F. Bonaretti, D. Faccio, P. Di Trapani, A. Couairon and S. Tzortzakis**
 "Terahertz pulse emission optimization from tailored femtosecond laser pulse filamentation in air"
 Opt. Lett. **34**, 2165-2167 (2009)
[Highlighted in the Virtual Journal of Ultrafast Science, August 2009]
- [37] **S. Suntsov, D. Abdollahpour, D. G. Papazoglou and S. Tzortzakis**
 "Femtosecond laser induced plasma diffraction gratings in air"
 Appl. Phys. Lett. **94**, 251104 (2009)
- [38] **D. Abdollahpour, P. Panagiotopoulos, M. Turconi, O. Jedrkiewicz, D. Faccio, P. Di Trapani, A. Couairon, D. G. Papazoglou and S. Tzortzakis**
 "Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams"
 Opt. Express **17**, 5052-5057 (2009)
[Highlighted in the Virtual Journal of Ultrafast Science, May 2009]
- [39] **S. Suntsov, D. Abdollahpour, D. G. Papazoglou and S. Tzortzakis**
 "Efficient third-harmonic generation through tailored IR femtosecond laser pulse filamentation in air"
 Opt. Express **17**, 3190-3195 (2009)
[Highlighted in the Virtual Journal of Ultrafast Science, April 2009]
- [40] **A. Averchi, D. Faccio, E. Rubino, H. Valtna Lukner, P. Panagiotopoulos, P. A. Loukakos, S. Tzortzakis, A. Couairon, P. Di Trapani**
 "Linear X-wave generation by means of Cross Phase Modulation in Kerr media"
 Opt. Lett. **33**, 3028-3030 (2008)
- [41] **D. Faccio, M. Clerici, A. Averchi, A. Lotti, O. Jedrkiewicz, A. Dubietis, G. Tamosauskas, A. Couairon, F. Bragheri, D. Papazoglou, S. Tzortzakis, P. Di Trapani**
 "Few-cycle laser-pulse collapse in Kerr media: The role of group-velocity dispersion and X-wave formation"
 Phys. Rev. A **78**, 033826 (2008)
[Highlighted in the Virtual Journal of Ultrafast Science, October 2008]
- [42] **D. G. Papazoglou and S. Tzortzakis**
 "In-line holographic microscopy for the characterization of ultrafast laser

- induced perturbations in transparent media*
Appl. Phys. Lett. **93**, 041120 (2008)
- [43] **D. Faccio, A. Lotti, M. Kolesik, J.V. Moloney, S. Tzortzakis, A. Couairon, P. Di Trapani**
"Spontaneous emergence of pulses with constant carrier-envelope phase in femtosecond filamentation"
Opt. Express **16**, 11103-11114 (2008)
[Highlighted in the Virtual Journal of Ultrafast Science, October 2008]
- [44] **D. Faccio, M. Clerici, A. Averchi, O. Jedrkiewicz, S. Tzortzakis, D. Papazoglou, F. Bragheri, L. Tartara, A. Trita, S. Henin, I. Cristiani, A. Couairon, P. Di Trapani**
"Kerr-induced spontaneous Bessel beam formation in the regime of strong two-photon absorption"
Opt. Express **16**, 8213-8218 (2008)
[Highlighted in the Virtual Journal of Ultrafast Science, September 2008]
- [45] **J.-M. Manceau, A. Nevin, C. Fotakis, and S. Tzortzakis**
"Terahertz time domain spectroscopy for the analysis of cultural heritage related materials"
Appl. Phys. B Rapid Commun. **90**, 365-368 (2008)
- [46] **D. Faccio, A. Averchi, A. Lotti, P. Di Trapani, A. Couairon, D. G. Papazoglou, and S. Tzortzakis**
"Ultrashort Laser Pulse Filamentation and X Wave Formation in Air"
Opt. Express **16**, 1565-1570 (2008)
[Highlighted in the Virtual Journal of Ultrafast Science, March 2008]
- [47] **D. G. Papazoglou, I. Zergioti, and S. Tzortzakis**
"Plasma strings from ultraviolet laser filaments drive permanent structural modifications in fused silica"
Opt. Lett. **32**, 2055-2057 (2007)
[Highlighted in the Virtual Journal of Ultrafast Science, September 2007]
- [48] **I. Zergioti, K. D. Kyrkis, D. G. Papazoglou, S. Tzortzakis**
"Ultraviolet fs laser pulse filamentation in fused silica: the role of the plasma strings in the creation of permanent structural modifications"
Appl. Surf. Sci. **253**, 7865-7868 (2007)
- [49] **S. Bastiani-Ceccotti, N. Kontogiannopoulos, J.-R. Marquès, S. Tzortzakis, L. Lecherbourg, F. Thais, I. Matsushima, O. Peyrusse, C. Chenais-Popovics**
"Analysis of the X-ray and time-resolved XUV emission of laser produced Xe and Kr plasmas"
High Energy Density Phys. **3**, 20-27 (2007)
- [50] **S. Tzortzakis, D. Anglos, D. Gray**
"Ultraviolet sub-picosecond laser filaments enable remote LIBS analysis with potential applications in the monitoring of sculpture and monuments"
Opt. Lett. **31**, 1139-1141 (2006)
[Highlighted in the Virtual Journal of Ultrafast Science, July 2006]
- [51] **S. Bastiani-Ceccotti, S. Tzortzakis, J.-R. Marquès, N. Kontogiannopoulos, L. Lecherbourg, F. Thais, I. Matsushima, O. Peyrusse, C. Chenais-Popovics**
"X and time-resolved XUV emission of laser produced Xe and Kr plasmas"
J. de Phys. IV **133**, 957-962 (2006)
- [52] **S. Tzortzakis, D. G. Papazoglou, I. Zergioti**
"Long-range filamentary propagation of sub-picosecond ultraviolet laser pulses"

in fused silica".

Opt. Lett. **31**, 796-798 (2006)

[Highlighted in the Virtual Journal of Ultrafast Science, June 2006]

- [53] **R. Ackermann, G. Méchain, G. Méjean, R. Bourayou, M. Rodriguez, K. Stelmaszczyk, J. Kasparian, J. Yu, E. Salmon, S. Tzortzakis, Y.-B. André, J.-F. Bourrillon, L. Tamin, J.-P. Cascelli, C. Campo, C. Davoise, A. Mysyrowicz, R. Sauerbrey, L. Wöste, J.-P. Wolf**
"Influence of negative leader propagation on the triggering and guiding of high voltage discharges by laser filaments"
Appl. Phys. B **82**, 561-566 (2006)
- [54] **D. Balis, V. Amiridis, S. Kazadzis, A. Papayannis, G. Tsaknakis, S. Tzortzakis, N. Kalivitis, M. Vrekoussis, M. Kanakidou, N. Mihalopoulos, G. Chourdakis, S. Nickovic, C. Pérez, J. Baldasano, M. Drakakis**
"Optical characteristics of desert dust over the east Mediterranean during summer: A case study"
Ann. Geophys. **24**, 807-821 (2006)
- [55] **S. Tzortzakis, P. Audebert, P. Renaudin, S. Bastiani-Ceccotti, J.P. Geindre, C. Chenais-Popovics, V. Nagels, S. Gary, R. Shepherd, F. Girard, I. Matsushima, O. Peyrusse, J.-C. Gauthier**
"Time- and space-resolved X-ray absorption spectroscopy of aluminum irradiated by a subpicosecond high-power laser"
JQSRT **99**, 614-626 (2006)
- [56] **D. G. Papazoglou, I. Zergioti, S. Tzortzakis, G. Sgouros, G. Maravelias, S. Christopoulos, C. Fotakis**
"Sub-picosecond ultraviolet laser-filamentation-induced bulk modifications in fused silica"
Appl. Phys. A Rapid Commun. **81**, 241-244 (2005)
- [57] **P. Audebert, P. Renaudin, S. Bastiani-Ceccotti, J.-P. Geindre, C. Chenais-Popovics, S. Tzortzakis, V. Nagels-Silvert, R. Shepherd, I. Matsushima, S. Gary, F. Girard, O. Peyrusse, J.-C. Gauthier**
"Picosecond Time-Resolved Absorption Spectroscopy of Ultrafast Aluminum Plasmas"
Phys. Rev. Lett. **94**, 025004 (2005)
[Highlighted in the Virtual Journal of Ultrafast Science, February 2005]
- [58] **N. Kortsalioudakis, M. Tatarakis, N. Vakakis, S. Moustazis, M. Franco, B. Prade, A. Mysyrowicz, N. Papadogiannis, A. Couairon, and S. Tzortzakis**
"Enhanced harmonic conversion efficiency in the self-guided propagation of femtosecond ultraviolet laser pulses in Argon"
Appl. Phys. B **80**, 211 - 214 (2005)
- [59] **S. Bastiani-Ceccotti, P. Audebert, P. Renaudin, C. Chenais-Popovics, JP. Geindre, S. Tzortzakis, V. Nagels, R. Shepherd, I. Matsushima, S. Gary, F. Girard, O. Peyrusse, JC. Gauthier**
"X absorption spectra in femtosecond plasmas"
J. de Phys. IV **127**, 125-129 (2005)
- [60] **G. Méchain, C.D'Amico, Y.-B. André, S. Tzortzakis, M. Franco, B. Prade, A. Mysyrowicz, A. Couairon, E. Salmon and R. Sauerbrey**
"Range of plasma filaments created in air by a multi-terawatt femtosecond laser"
Opt. Commun. **247**, 171-180 (2005)

Publications list (up to 2004)

- [61] **G. Méchain, A. Couairon, Y.-B. Andre, C. D'Amico, M. Franco, B. Prade, S. Tzortzakis, A. Mysyrowicz, R. Sauerbrey**
"Long range self-channelling of infrared laser pulses in air: a new propagation regime without ionization"
Appl. Phys. B **79**, 379–382 (2004)
- [62] **S. Tzortzakis, G. Tsaknakis, A. Papayannis, A. Serafetinides**
"Investigation of the spatial profile of Stimulated Raman Scattering beams in D₂ and H₂ gases using a pulsed Nd:YAG laser at 266 nm"
Appl. Phys. B **79**, 71-76 (2004)
- [63] **G. Méchain, S. Tzortzakis, B. Prade, M. Franco, A. Mysyrowicz, B. Leriche**
"Calorimetric detection of THz radiation from femtosecond filaments in air"
App. Phys. B Rapid Commun. **77**, 707-709 (2003)
- [64] **A. Couairon, G. Méchain, S. Tzortzakis, M. Franco, B. Lamouroux, B. Prade, A. Mysyrowicz**
"Propagation of twin laser pulses in air and concatenation of plasma strings produced by femtosecond infrared filaments"
Opt. Commun. **225**, 177-192 (2003)
- [65] **S. Tzortzakis, G. Méchain, G.-B. Patalano, M. Franco, B. Prade, A. Mysyrowicz**
"Concatenation of Femtosecond Infrared Filaments in Air"
App. Phys. B Rapid Commun. **76**, 609–612 (2003)
- [66] **L. Sudrie, A. Couairon, M. Franco, B. Lamouroux, B. Prade, S. Tzortzakis, and A. Mysyrowicz**
"Femtosecond laser induced damages and filamentary propagation in fused silica"
Phys. Rev. Lett. **89**, 186601 (2002)
[Highlighted in the Virtual Journal of Ultrafast Science, November 2002]
- [67] **S. Tzortzakis, G. Méchain, G.-B. Patalano, Y.-B. André, M. Franco, B. Prade, A. Mysyrowicz, J.-M. Munier, M. Gheudin, G. Beaudin, P. Encrenaz**
"Coherent subterahertz radiation from Femtosecond infrared filaments in air"
Opt. Lett. **27**, 1944 (2002)
- [68] **A. Couairon, S. Tzortzakis, L. Bergé, M. Franco, B. Prade, and A. Mysyrowicz**
"Infrared femtosecond light filaments in air: simulations and experiments"
J. Opt. Soc. Am. B **19**, 1117 (2002)
[Highlighted in the Virtual Journal of Ultrafast Science, June 2002]
- [69] **S. Tzortzakis, L. Sudrie, M. Franco, B. Prade, A. Mysyrowicz, A. Couairon, and L. Bergé**
"Self-guided propagation of ultrashort IR laser pulses in fused silica"
Phys. Rev. Lett. **87**, 213902 (2001)
[Highlighted in Physical Review Focus, November 2001]
- [70] **S. Tzortzakis, B. Prade, M. Franco, A. Mysyrowicz, S. Hüller, and P. Mora**
"Femtosecond Laser-guided Electric Discharge in Air"
Phys. Rev. E **64**, 57401 (2001).

- [71] **S. Tzortzakis, B. Lamouroux, A. Chiron, S. D. Moustazis, D. Anglos, M. Franco, B. Prade, and A. Mysyrowicz**
"Femtosecond and picosecond ultraviolet laser filaments in air: experiments and simulations"
Opt. Commun. **197**, 131 (2001)
- [72] **S. Tzortzakis, L. Bergé, A. Couairon, M. Franco, B. Prade, and A. Mysyrowicz**
"Break-up and fusion of self-guided femtosecond light pulses in air"
Phys. Rev. Lett. **86**, 5470 (2001).
[Highlighted in Physics Today, August 2001]
- [73] **S. Tzortzakis, B. Lamouroux, A. Chiron, M. Franco, B. Prade, A. Mysyrowicz, and S. D. Moustazis**
"Non-linear propagation of sub-picosecond UV laser pulses in air"
Opt. Lett. **25**, 1270 (2000)
- [74] **J. Kasparian, R. Sauerbrey, D. Mondelain, S. Niedermeier, J. Yu, J.-P. Wolf, Y.-B. André, M. Franco, B. Prade, S. Tzortzakis, A. Mysyrowicz, M. Rodriguez, H. Wille, L. Wöste**
"Infrared extension of the supercontinuum generated by femtosecond terawatt laser pulses propagating in the atmosphere"
Opt. Lett. **25**, 1397 (2000)
- [75] **S. Tzortzakis, B. Prade, M. Franco, and A. Mysyrowicz**
"Time-evolution of the plasma channel at the trail of a self-guided IR femtosecond laser pulse in air"
Opt. Commun. **181**, 123 (2000)
- [76] **N. Del Fatti, C. Voisin, M. Achermann, S. Tzortzakis, D. Christofilos, and F. Vallée**
"Nonequilibrium Electron Dynamics in Noble metals"
Phys. Rev. B **61**, 16956 (2000)
- [77] **S. Tzortzakis, M. A. Franco, Y.-B. André, A. Chiron, B. Lamouroux, B. S. Prade, and A. Mysyrowicz**
"Formation of a conducting channel in air by self-guided femtosecond laser pulses"
Phys. Rev. E **60**, R3505 (1999)
- [78] **N. Del Fatti, S. Tzortzakis, C. Voisin, C. Flytzanis, and F. Vallée**
"Time resolved Investigation of the Acoustic Mode Oscillations in Silver Nanoparticles"
Physica B **263-264**, 54-56 (1999)
- [79] **S. Couris, E. Koudoumas, S. Tzortzakis, and S. Leach**
"Transient Population and Electronic Polarization Nonlinear Optical Responses of Fullerenes in Solution"
Adv. Chem. Phys. Fuller. **5**, 225-237 (1997).