

CURRICULUM VITAE

NAME: Peter Persephonis

Current Position: Professor Emeritus

Department of Physics, University of Patras, Greece

RESEARCH INTERESTS

1. Ultrafast Experiments (picosecond and femtosecond regime).

This research area includes the followings basic experiments:

- a) Time resolved spectroscopy (femtosecond regime)
- b) Two-photon microscopy
- c) Three-dimensional optical data storage

2. Nonlinear Optics

This research area includes the following activities:

- a) Development-improvement of new techniques for measuring optical nonlinearities
- b) Study of soliton propagation in optical fibers and other media

3. Fiber optics

This research area includes the followings basic experiments:

- a) Fiber Bragg sensors
- b) Fiber lasers

4. Characterization of new materials as laser media.

This research area includes the followings basic experiments:

- a) Investigation of new conjugated polymers (or even monomers and oligomers) as laser materials in liquid form, in sol-gels and films.
- b) Manufacturing of novel lasers
- c) Spectroscopic study of photonic materials

Academic visitor at periods 1988-89 and 1995-96 at Imperial College, London UK

Book. “*Laser Physics & Technology*” (In greek language)

A. Number of publications in International Scientific Journals: 65

B.Chapters in books 2

C. Number of presentations in International Conferences : 39

D. Number of presentations in National (Greek) Conferences: 28

Heteroreferences: > 950

H-index: 18

Supervisor at PhD Dissertations 10

Master of Science Disertations 13

A. List of publications in International Scientific Journals and Books

JOURNALS

- A1.** P. Persephonis, B. Giannetas, R. Rigopoulos,
"A quadruple transmission line Nitrogen laser".
Rev. Phys. Appl. 18 pp.295-300, 1983.
- A2.** P. Persephonis, B. Giannetas, R. Rigopoulos,
"The performance of a multiple line N₂ laser".
Rev. Phys. Appl. 18 pp.731-735, 1983.
- A3.** B. Giannetas, P. Persephonis, R. Rigopoulos.
"Observations on the power of a N₂ laser".
Rev. Phys. Appl. 20 pp.671-678, 1985.
- A4.** P. Persephonis.,
"On the performance conditions of a N₂ laser".
Rev. Phys. Appl. 21 pp.609-617, 1986.
- A5.** P. Persephonis.
"A contribution to the light pulses instability of a N₂ laser".
Opt. Commun. 62 pp.265-270, 1987.
- A6.** P. Persephonis.
"The electrical behavior of a blumlein line N₂ laser",
J. Appl. Phys. 62 (7), pp.2651-2656, 1987.
- A7.** P. Persephonis, K. Vlachos, C. Georgiadis, J. Parthenios.
"The inductance of the discharge in a spark-gap".
J. Appl. Phys. 71, pp. 4755-4762, 1992.
- A8.** P. Persephonis, B. Giannetas, J. Parthenios, C. Georgiades, A. Ioannou.
"Capacitance allocation and its role in the performance of doubling circuit pulsed gas lasers: Its application to the N₂ laser".
IEEE J. Quantum Electron, 29, No. 8, pp. 2371-2378, 1993.
- A9.** P. Persephonis, B. Giannetas, C. Georgiades, J. Parthenios, A. Ioannou,

- "The influence of the external circuit on arc-discharge of a spark-gap: Its application to a pulsed gas laser",
IEEE J. Quantum Electron, 31, No 3, pp. 567-572, 1995.
- A10.** P. Persephonis, B. Giannetas, C. Georgiades, J. Parthenios, A. Ioannou,
"The inductance and resistance of the discharge in a pulsed gas laser",
IEEE J. Quantum Electron, 31, No 3, pp. 573-581, 1995.
- A11.** P. Persephonis, B. Giannetas, J. Parthenios, C. Georgiades, A. Ioannou.
"Optimization of the optical output in a C-to-C pulsed gas laser".
IEEE J. Quantum Electron, 31, No 6, pp. 1059-1063, 1995.
- A12.** P. Persephonis, V. Giannetas, A. Ioannou, J. Parthenios and C. Georgiades.
"The time dependent Resistance and Inductance of the Electric Discharges in Pulsed Gas Lasers".
IEEE J. Quantum Electron, 31, No 10, pp. 1779-1783, 1995.
- A13.** P. Persephonis, V. Giannetas, J. Parthenios, A. Ioannou and C. Georgiades.
"The electric behavior of a Capacity-Transfer-Type Pulsed Gas Laser".
Jpn J. Appl Phys, 34, No 10, (Part 1), pp. 5801-5806, 1995.
- A14.** P. Persephonis, V. Giannetas, A. Ioannou, J. Parthenios and C. Georgiades.
"Time history of the resistance and inductance in a pulsed electric discharge".
Jpn J. Appl Phys, 34, No 11, (Part 1), pp. 6226-6229, 1995.
- A15.** P. Persephonis, V. Giannetas, A. Ioannou, J. Parthenios and C. Georgiades.
"The time evolution of the resistances and inductances of the discharges in a pulsed gas laser through its current waveforms".
IEEE T. Plasma Sci, 24, pp.1208-1214, 1996.
- A16.** P. Persephonis, S.V. Chernikov and J.R. Taylor.
'Cascaded cw Raman Laser Source 1.6 μ m-1.9 μ m'.
Electron lett, 32, pp.1486-1487, 1996.
- A17.** P. Persephonis, V. Giannetas, A. Ioannou, J. Parthenios and C. Georgiades.
"Reply to Comments on The time evolution of the resistances and inductances of the discharges in a pulsed gas laser through its current waveforms".
IEEE T. Plasma Sci., 25, no 4, pp. 801, August 1997.
- A18.** P. Persephonis, A. Ioannou, J. Parthenios, C. Georgiades and V. Giannetas.

- "Numerical Analysis of the electrical and optical behavior of a pulsed gas laser through time dependent resistances and inductances".
Appl. Phys. B-photo, 66, pp. 39-46, 1998.
- A19.** P. Persephonis, A. Ioannou and J. Parthenios.
"Evaluation of the method of determining the time-dependent Resistance and Inductance of a laser discharge".
Electron. Lett., 34, pp. 2030-2031, 1998.
- A20.** M. Fakis, J. Polyzos, G. Tsigaridas, J. Parthenios, A. Fragos, V. Giannetas, P. Persephonis, J. Mikroyannidis
"Novel class of pyrylium dyes with high efficiency in lasing and two-photon absorption fluorescence".
Chem. Phys. Lett. 323, pp. 111-116, 2000.
- A21.** J. Polyzos, G. Tsigaridas M. Fakis, J. Parthenios, A. Fragos, V. Giannetas, P. Persephonis, J. Mikroyannidis
"Examination of the spatial distribution of Dyes and Polymers in Thin Films by Two-Photon Microscopy".
Chemical Monthly, 132, pp. 169-175, 2001.
Also in the book "Molecular Materials and Functional Polymers", 2001 Springer-Verlag, Wien, p. 169
- A22.** M. Fakis, G. Tsigaridas, J. Polyzos, V. Giannetas, P. Persephonis, I. Spiliopoulos, J. Mikroyannidis
"Intensity dependent nonlinear absorption of pyrylium chromophores".
Chem. Phys. Lett., 342, pp. 155 – 161, 2001
- A23.** M. Fakis, J. Polyzos, G. Tsigaridas, V. Giannetas, P. Persephonis, I. Spiliopoulos, J. Mikroyannidis
"Laser action of two conjugated polymers in solution and in solid matrix. The effect of aggregates in the spontaneous and stimulated emission"
Phys. Rev. B, 65, pp. 195-203, 2002
- A 24** G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis, V. Giannetas
"Z-scan technique through beam radius measurements"
Appl. Phys. B: Lasers and Optics, 76, pp. 83 – 86, 2003
- A 25** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis
"Two – photon absorption properties of novel organic materials for three – dimensional optical memories"
Chem. Phys. Lett. , 369, pp. 264 – 268, 2003

- A26** G. Tsigaridas, M. Fakis, I. Polyzos, M. Tsiouri, P. Persephonis, and V. Giannetas
“Z-scan analysis for near-Gaussian beams through Hermite-Gaussian decomposition”,
J. Opt. Soc. Am. B, 20, pp. 670–676, 2003
- A27** M. Fakis, G. Tsigaridas, I. Polyzos, V. Giannetas, P. Persephonis
“Conjugated polymer in isolated and aggregated chain environments studied by
amplified spontaneous emission”
Phys. Rev. B 68 , pp. 035203 , 2003
- A28** G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis, V. Giannetas
“Z-scan technique for elliptic Gaussian beams”
Appl. Phys. B: Lasers and Optics 77, pp. 71-75, 2003
- A29** G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis, V. Giannetas
“Z-scan analysis for high-order nonlinearities through Gaussian decomposition”
Opt. Commun. 225, pp. 253-268, 2003
- A30** P. Karastatiris, J. Mikroyannidis, I. Spiliopoulos, M. Fakis, P. Persephonis
“Luminescent poly(phenylene vinylene) derivatives with m – terphenyl or 2,6-
diphenylpyridine kinked segments along the main chain: Synthesis, characterization
and stimulated emission”
J. Polym. Sci. Part A: Polym. Chem. 42, pp. 2214-2224, 2004
- A.31** D. Anastopoulos, G. Tsigaridas, P. Persephonis, V. Giannetas, I. Spiliopoulos, P.
Karastatiris, J. Mikroyannidis
“Electro-optic characterization of two novel organic materials in thin polymeric films”
Chem. Phys. Lett. 390, pp. 98-103, 2004
- A32** M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas and P. Persephonis
“Excited state dynamics of a partially conjugated polymer studied by femtosecond
fluorescence upconversion spectroscopy”
Chem. Phys. Lett. 394, pp. 372-396, 2004
- A.33** M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas, P. Persephonis, I. Spiliopoulos, J.
Mikroyannidis
“Dual Amplified Spontaneous Emission and laser action from a model oligo
(phenylene vinylene). Comparison with the corresponding polymer”
Opt. Mater. 27, pp. 503-507, 2004
- A34** G. Tsigaridas, A. Fragos, I. Polyzos, M. Fakis, A. Ioannou, V. Giannetas, and
P. Persephonis

- “Evolution of near-soliton initial profiles in nonlinear wave equations through their Backlund transforms”
Chaos, Soliton. Fract. 23, pp. 1841-1854, 2005
- A35** J. Mikroyannidis, P. Persephonis, V. Giannetas
“Poly(fluorene)s and poly(*p*-phenylene)s with pyrenyltriazine segments: synthesis and photophysics”
Synthetic Metals. 148, pp.293-299, 2005
- A36** D. Anastopoulos, M. Fakis, I. Polyzos, G. Tsigaridas, P. Persephonis and V. Giannetas
“Study of the isotropic and anisotropic fluorescence of two oligothiophenes by femtosecond time-resolved spectroscopy”
J Phys Chem B. 109, pp. 9476-9481, 2005.
- A37** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas and P. Persephonis
“Three photon induced photobleaching in a three-dimensional memory material”
Opt. Lett. 30, pp. 2654-2656, 2005.
It has been selected for the November 2005 issue of “Virtual Journal of Ultrafast Science
- A38** G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis and V. Giannetas
“On the measurement of high-order refractive nonlinearities through the Z-scan technique”
MMN 2004 International Conference, Athens, Greece (Nov. 2004), J. Phys: Conf. Series, vol. 10, pp. 242-245, 2005
- A39** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis and J. Mikroyannidis
“High-order photobleaching of pyrylium salts under two-photon excitation”
MMN 2004 International Conference, Athens, Greece (Nov. 2004), J. Phys: Conf. Series, vol. 10, pp. 234-237, 2005
- A40** M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas and P. Persephonis
“The effect of aggregates on the decay dynamics of a conjugated polymer studied by femtosecond time resolved spectroscopy”
MMN 2004 International Conference, Athens, Greece (Nov. 2004), J. Phys: Conf. Series, vol. 10, pp. 238-241, 2005
- A41** D. Anastopoulos, M. Fakis, I. Polyzos, G. Tsigaridas, G. Mousdis, P. Persephonis and V. Giannetas
“Time-resolved spectroscopy of oligothiophenes using the femtosecond fluorescence upconversion technique”

MMN 2004 International Conference, Athens, Greece (Nov. 2004), J. Phys: Conf. Series, vol. 10, pp. 230-233, 2005

- A42** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis, and J. Mikroyannidis
“Substituent effect on the Photobleaching of Pyrylium salts under ultra-short pulsed illumination.”
J Phys Chem B. 110, pp 2593-2597, 2006
- A43** D. Anastopoulos, M. Fakis, V. Giannetas, P. Persephonis and J. Mikroyannidis
“Excitation energy transfer in a cationic water-soluble conjugated *co*-polymer studied by time resolved anisotropy and fluorescence dynamics”
Chem. Phys. Lett. 421, pp 205-209, 2006
- A44** G. Tsigaridas, I. Polyzos, P. Persephonis and V. Giannetas
“A novel approach for analyzing open Z-scan experiments
Opt. Commun, 266. pp 284-289, 2006
- A45** M. Fakis, D. Anastopoulos, V. Giannetas, P. Persephonis and J. Mikroyannidis
"Femtosecond time resolved fluorescence dynamics of a cationic water-soluble poly(fluorenevinylene-*co*-phenylenevinylene)"
J Phys Chem B. 110, pp 12926-12931, 2006
- A46** M. Fakis, D. Anastopoulos, V. Giannetas, P. Persephonis
Influence of aggregates and solvent's aromaticity on the emission of conjugated polymers”
J Phys Chem B. 110. pp 24897-24902, 2006
- A47** D. Anastopoulos, M. Fakis, G. Mousdis, V. Giannetas, P. Persephonis
“Fluorescence and anisotropy dynamics of a –CHO substituted terthiophene”
Synth Met. 157 pp 30-34, 2007
- A48** Ioannis Ftilis, Mihalis Fakis, Ioannis Polyzos, Vassilis Giannetas, Peter Persephonis, Panagiotis Vellis, John Mikroyannidis,
“A two-photon absorption study of fluorene and carbazole derivatives. The role of the central core and the solvent polarity.”
Chem. Phys. Letts. 447. pp 300-304, 2007
- A49** G. Tsigaridas, I. Polyzos, V. Giannetas and P. Persephonis
“Compensation of nonlinear absorption in a soliton communication system”
Chaos, Soliton. Fract. 35, pp. 151-160, 2008

- A50** I. Ftilis, M. Fakis, I. Polyzos, V. Giannetas, P. Persephonis, J. Mikroyannidis,
"Strong two-photon absorption and photophysical properties of symmetrical
chromophores with electron accepting edge substituents"
J. Phys. Chem. A. 112. pp 4742-4748, 2008
- A51** M. Fakis, I. Ftilis, S. Stefanatos, P. Vellis, J. Mikroyannidis, V. Giannetas, P.
Persephonis
"Photophysics and two-photon absorption of a series of quadrupolar and tribranched
molecules. The role of the edge substituent",
Dyes Pigments. 81. pp 63-68, 2009
- A52** M. Fakis, V. Gianneta, P. Persephonis, V. Giannetas and A. G. Nassiopoulou
"Photoluminescence in the blue spectral region from fluorene molecules embedded in
porous anodic alumina thin films on silicon"
Accepted for publication in opt. mater
- A53** P. Jha, Y.Luo, I. Polyzos, P. Persephonis and H. Agren
"Two and three photon absorption of organic ionic pyrylium based materials"
J. Chem. Phys. 130, p 174312 (2009)
- A54** M. Fakis, V. Gianneta F. Zacharatos P. Persephonis, V. Giannetas, and A. G.
Nassiopoulou,
Photoluminescence properties of porous silicon/fluorene dye composites
Materials Science and Engineering B 165, p. 252-255 (2009)
- A55** G. Tsigaridas, P. Persephonis and V. Giannetas,
"Effects of nonlinear absorption on the Z-scan technique through beam dimension
measurements",
Materials Science and Engineering B 165, p. 182-185 (2009)
- A56** I. TrantakisI, M. Fakis, S. Tragoulias, T. Christopoulos, P. Persephonis, V Giannetas,
P. Ioannou
"Ultrafast Fluorescence Dynamics of Sybr Green I/DNA Complexes"
Chem. Phys. Letts. 485 p 187-190 (2010)
- A57** Veronika Hrobáriková, Peter Hrobárik, Peter Gajdoš, Ioannis Ftilis, Mihalis Fakis,
Peter Persephonis and Pavol Zahradník.
"Benzothiazole-Based Fluorophores of Donor-pi-Acceptor-pi-Donor Type Displaying
High Two-Photon Absorption"
J. Org. Chem. 75 p 3053 (2010)

- A58** I. Ftilis, M. Fakis, J. Polyzos, V. Giannetas, P. Persephonis
"Two-photon polymerization of a diacrylate using fluorene photoinitiators-sensitizers"
J Photoch Photobio A: Chem. 215 p. 25–30 (2010)
- A59** M. Fakis, E. Stathatos, G. Tsigaridas, V. Giannetas, P. Persephonis
"Femtosecond Decay and Electron Transfer Dynamics of the Organic Sensitizer
D149 and Photovoltaic Performance in Quasi-Solid State Dye-Sensitized Solar Cells"
J. Phys. Chem. C 115 p. 13429-13437 (2011)
- A60** Hrobarik, Peter; Hrobarikova, Veronika; Sigmundova, Ivica; Zahradnik, Pavol; Fakis,
Mihalis; Polyzos, Ioannis; Persephonis, Peter
"Benzothiazoles with Tunable Electron-Withdrawing Strength and Reverse Polarity:
A Route to Triphenylamine-Based Chromophores with Enhanced Two-Photon
Absorption"
J Org Chem 76 P. 8726–8736 (2011)
- A61** Mihalis Fakis, Peter Hrobárik, Elias Stathatos, Vassilis Giannetas, Peter Persephonis
‘A time resolved fluorescence and quantum chemical study of the solar cell sensitizer
D149’
Dyes and Pigments, 96, p. 304-312. (2013)
- A62** M. Fakis, M. Dori, E. Stathatos, Hsien-Hsin Chou, Yung-Sheng Yen, Jiann T’suen
Lin, V. Giannetas, P. Persephonis
“Electron injection in TiO₂ films and quasi-solid state solar cells sensitized with a dipolar
fluorene organic dye”
. J. Photochem. Photobiol. A: Chem. 251 p 18–24 (2013)
- A63.** M. Dori, K. Seintis, E. Stathatos, G. Tsigaridas, T.-Y. Lin, J. T. Lin, M. Fakis, V.
Giannetas, P. Persephonis
«Electron injection studies on TiO₂ nanocrystalline films sensitized with fluorene dyes
and photovoltaic characterization. The effect of co-adsorption of a bile acid derivative.”
Chem. Phys. Lett. 563 p 63-69 (2013)
- A64** Georgios Tsigaridas Dimitrios Polyzos, Athanassios Ioannou, Mihalis Fakis, Peter
Persephonis,
Theoretical and experimental study of refractive index sensors based on etched fiber
Bragg gratings
Sensors & Actuators: A. Physical. 209 p 9-15 (2014)
- A65** Hrobarik, Peter; Hrobarikova, Veronika; Semak, Vladislav; Kasak, Peter; Rakovsky,

Erik; Polyzos, Ioannis; Fakis, Mihalis; Persephonis, Peter
"Quadrupolar Benzobisthiazole-Cored Arylamines as Highly Efficient Two-Photon
Absorbing Fluorophores
Accepted organic letters

CHAPTERS IN BOOKS

- B1** M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas, and P. Persephonis
"Novel materials for laser action and two-photon absorption fluorescence. New
experimental technique for measuring nonlinear refractive indices"
Book, Recent Res. Devel. Applied Phys., **7** (2004)
- B2** I. Polyzos, M. Fakis, G. Tsigaridas, V. Giannetas, and P. Persephonis
"Photo-physics involved in the excitation of pyrylium salts under ultra-short pulsed
illumination"
Book. "Trends in Optical Materials Research", Nova Publishers Inc, NY 11788
pp113-135 (2007)

C. List of presentations in International Conferences

- C1.** P. Persephonis, B. Giannetas and R. Rigopoulos.
"Calculation of the Ambipolar Diffusion coefficient through lasing action in gases".
Proceedings of the International Conference "Laser Technologies in Industry".
Porto-Portugal (June 1988), SPIE Vo. 952 808-814 (1988).
- C2.** Persephonis and B. Giannetas
"Light output instabilities in pulsed gas lasers".
Proceedings of the International Conference "New Laser Technologies and Applications".
Ancient Olympia Greece (June 1988). Italian Physical Society p. 477-486 (1988).
- C3.** P. Persephonis, B. Giannetas, J. Parthenios and C. Georgiades.
"Electrical discharges investigation in pulsed gas lasers"
Proceedings of the International Congress "Optical Science & Engineering " ECO 4. The
Hague, The Netherlands (March 1991) SPIE Vol.1503, pp 185-191, 1991.
- C4.** J. Parthenios, C.Georgiadis, P. Persephonis, B. Giannetas.
"Determination of time dependent parameters on pulsed gas lasers".
Proceedings of the 1st General Conference of the Balkan Physical Union. Thessaloniki,
Greece, (September 1991), Vol.II pp.79-681, 1991.

- C5.** P. Persephonis, B. Giannetas, J. Parthenios, C. Georgiades, A. Ioannou.
 "A method of measuring currents in pulsed gas lasers".
 Proceedings of the '9th International Symposium on Gas Flow and Chemical lasers', GCL
 Elounda Crete, Greece (September 1992), SPIE vol. 1810, pp. 191-195, 1993.
- C6.** P. Persephonis, B. Giannetas, A. Ioannou, J. Parthenios, C. Georgiades.
 "Determination of the electrical characteristics of the discharges in a pulsed gas laser
 through its current waveforms".
 Proceedings of the '10th International Symposium on Gas flow and Chemical lasers', GCL.
 Friedrichshafen, Germany (September 1994), SPIE vol 2502, pp. 440-445, 1995.
- C7.** P. Persephonis, A. Ioannou, J. Parthenios, C. Georgiades and V. Giannetas.
 "The time evolution of the electric characteristics of a laser discharge through their
 waveforms of the voltage and the current".
 Proceedings of the '5th International Conference on Industrial Lasers @ Laser
 Applications', ILLA Moscow, Russia (June 1995), SPIE, vol 2713, pp.187-193, 1996,
Invited paper.
- C8.** P. Persephonis, A. Ioannou, J. Parthenios.
 "The finding of the time dependent resistance and inductance of the laser discharge in a
 pulsed gas laser through their waveforms of the voltage and the current".
 Proceedings of the '11th International Symposium on Gas Flow and Chemical Lasers and
 High Power Laser Conference', Edinburg ,U.K (1August 1996), SPIE, vol 3092, pp. 659-
 662, 1997.
- C9.** P. Persephonis.
 "A cw laser at 1.6-1.9 μ m through cascaded Fiber Raman".
 Proceedings of the 2nd GR-I International Conference on "New Laser Technologies and
 Applications", Ancient Olympia, Greece, (June 1997), SPIE vol 3423, pp. 65-67, 1998.
- C10.** P. Persephonis, V. Giannetas, C. Georgiades, J. Parthenios and A. Ioannou.
 "The electrical characteristics of a discharge in a pulsed gas laser".
 Proceedings of the '2nd GR-I International Conference on New Laser Technologies and
 Applications', Ancient Olympia, Greece (June 1997), SPIE, vol 3423, pp. 72-77, 1998.
- C11.** P. Persephonis, J. Parthenios, A. Ioannou and V. Giannetas.
 "The role of the capacitances in the performance of a pulsed gas laser. An application to the
 N₂ laser".
 Proceedings of the GCL HPL 98 XII International Symposium on Gas Flow and Chemical
 Lasers - High Power Laser Conference, St. Petersburg, Russia, (September 1998) SPIE, vol
3574, pp. 630-636, 1998.

- C12.** M. Fakis, J. Polyzos, G. Tsigaridas, J. Parthenios, A. Fragos, V. Giannetas, P. Persephonis, J. Mikroyannidis
 “Investigation of laser performance and two photon absorption fluorescence of new pyrylium dyes”
 COST 518 “Workshop on Molecular Materials and Functional Polymers for Advanced Devices” Patras, Greece, June 22-25, 2000
- C13** D. Anastopoulos, V. Giannetas, P. Persephonis, D. Zevgolis
 “Electro-optic characterization of DR1 doped PMMA films by use of waveguide sample geometry”
 Proceedings of the International Conference of Deutsche Physikalische Gesellschaft Leipzig, March 2002
- C14** G. Tsigaridas, M.Fakis, I. Polyzos, V. Giannetas, P. Persephonis, J. Mikroyannidis
 “Z-scan technique through beam dimensions measurements”
 Proceedings of the 3rd GR-I International Conference on “NEW LASER Technologies and Applications”, Patra, Greece (Sept 2002), SPIE vol. 5131, pp. 24-28, 2003
- C15** D. Anastopoulos, G. Tsigaridas, I. Spiliopoulos, A. Ioannou, J. Mikroyannidis, P. Persephonis, D. Zevgolis V. Giannetas
 “Study of electro-optic effects in organic chromophores by use of a waveguide geometry”
 Proceedings of the 3rd GR-I International Conference on “NEW LASER Technologies and Applications”, Patra, Greece (Sept 2002), SPIE vol. 5131, pp. 43-48, 2003
- C16** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis, J. Mikroyannidis
 “Three dimensional data storage in photochromic materials based on pyrylium salts by two photon induced photobleaching”
 Proceedings of the 3rd GR-I International Conference on “NEW LASER Technologies and Applications”, Patra, Greece (Sept 2002), SPIE vol. 5131, pp. 177-181, 2003
- C17** M. Fakis, G. Tsigaridas, I. Polyzos, V. Giannetas, P. Persephonis, I. Spiliopoulos, J. Mikroyannidis
 “Two-photon and excited-state absorption of pyrylium dyes studied through the z-scan technique”
 Proceedings of the 3rd GR-I International Conference on “NEW LASER Technologies and Applications”, Patra, Greece (Sept 2002), SPIE vol. 5131, pp. 284-288, 2003
- C18** M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas, P. Persephonis, I. Spiliopoulos, J. Mikroyannidis
 “Partially conjugated poly(phenylenevinylene) as a blue emitting laser medium: The suppression of stimulated emission due to chain aggregates”

Proceedings of the 3rd GR-I International Conference on “NEW LASER Technologies and Applications”, Patra, Greece (Sept 2002), SPIE vol. 5131, pp. 323-327, 2003

- C19** G. Tsigaridas, I. Polyzos, V. Giannetas and P. Persephonis
“Effects of two-photon absorption on the propagation of optical solitons”
ICCMSE 2005 International Conference, October 2005, Loutraki (Greece)
- C20** M. Fakis, D. Anastopoulos, V. Giannetas, P. Persephonis, P. Karastatiris, I. Spiliopoulos, I. Mikroyannidis, V. Cimrová
“Photonic and electronic properties of a conjugated polymer emitting in the blue-green spectral region”
Nanotechnology in Northern Europe, NTNE 2006, May 2006, Helsinki, Finland
- C21** G. Tsigaridas, I. Polyzos, D. Anastopoulos, I. Ftilis, V. Giannetas and P. Persephonis
“Efficient calculation of the nonlinear absorption coefficient through open Z-scan experiments”
Nanotechnology in Northern Europe, NTNE 2006, May 2006, Helsinki, Finland
- C22** I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas and P. Persephonis
“Investigation of photobleaching as a recording mechanism for three –dimensional data storage”
Nanotechnology in Northern Europe, NTNE 2006, May 2006, Helsinki, Finland
- C23** I. Polyzos, M. Fakis, G. Tsigaridas, V. Giannetas, P. Persephonis
“Nonlinear absorption as a tool for three-dimensional optical recording in thin films”
Proceedings of 3rd Workshop on “Nanosciences & Nanotechnologies”(July 2006).
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