

Publications in peer-reviewed international journals (“*” indicates the corresponding author)

1. Fuentes-Edfuf Y., Sánchez-Gil J.A., Garcia-Pardo MG., Serna R., **Tsibidis G.D.**, Giannini V., Solis J. and Siegel J., ‘Tuning the period of femtosecond laser induced surface structures in steel: from angled incidence to quill writing’ [Applied Surface Science 493, 948 \(2019\)](#).
2. Petrakakis E., **Tsibidis G.D.***, and Stratakis E., ‘Modelling of the ultrafast dynamics and surface plasmon properties of silicon upon irradiation with mid-IR femtosecond laser pulses’ [Physical Review B 99, 195201 \(2019\)](#).
3. Papadopoulos A., Skoulas E., Mimidis A., Perrakis G., Kenanakis G., **Tsibidis G.D.**, and Stratakis E., ‘Biomimetic omnidirectional anti-reflective glass via ultrafast laser nanostructuring’ (*To appear in the Advanced Materials*; **accepted for journal COVER**)
4. Margiolakis A., **Tsibidis G.D.**, Dani K.M. and Tsironis G.P., ‘Ultrafast dynamics and sub-wavelength periodic structure formation following irradiation of GaAs with femtosecond laser pulses’ [Physical Review B 98, 224103 \(2018\)](#).
5. Museur L., **Tsibidis G.D.**, Manousaki A., Anglos D., and Kanaev A. ‘Surface structuring of rutile TiO₂ (100) and (001) single crystals with femtosecond pulsed laser irradiation’, [Journal of Optical Society of America B, 35, 10, 2600 \(2018\)](#).
6. Orlandi F., Aza E., Bakaimi I., Kiefer K., Klemke B., Zorko A., Arčon D., Stock C., **Tsibidis G.D.**, Green M.A., Manuel P. and Lappas A., ‘Incommensurate atomic and magnetic modulations in the spin-frustrated β -NaMnO₂ triangular lattice’, [Physical Review Materials 2, 074407 \(2018\)](#).
7. **Tsibidis G.D.***, ‘The influence of dynamical change of optical properties on the thermomechanical response and damage threshold of noble metals under femtosecond laser irradiation’, [Journal of Applied Physics 123, 085903 \(2018\)](#).
8. **Tsibidis G.D.***, ‘Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel’, [Applied Physics A, 124,311 \(2018\)](#).
9. Bakarezos M., Tzianaki E., Petrakis S., **Tsibidis G.D.**, Loukakos P.A., Dimitriou V., Kosmidis C., Tatarakis M., and Papadogiannis N.A., ‘Ultrafast laser pulse chirp effects on laser-generated nanoacoustic strains in Silicon’, [Ultrasonics 86, 14-19 \(2018\)](#).
10. Papadopoulos A., Skoulas E., **Tsibidis G.D.***, and Emmanuel Stratakis E., ‘Formation of periodic surface structures on dielectrics after irradiation with laser beams of spatially variant polarisation: a comparative study’, [Applied Physics A 124, 146 \(2018\)](#).
11. **Tsibidis G.D.***, Mimidis A, Skoulas E., Kirner S.V, Krüger J, Bonse J and Stratakis E., ‘Modelling periodic structure formation on 100Cr6 steel after irradiation with femtosecond-pulsed laser beams’, [Applied Physics A 124, 27 \(2018\)](#).
12. Zuhlke C., **Tsibidis G.D.**, Anderson T., Stratakis E., Gogos G., and Alexander R.D., ‘Investigation of femtosecond laser induced ripple formation on copper for varying incident angle’, [AIP Advances 8\(1\):015212 \(2018\)](#).
13. Gaković B., **Tsibidis G.D.**, Skoulas E., Petrović S., Vasić B. and Stratakis E., ‘Selective ablation of Ti/Al nano-layer thin film by single femtosecond laser pulse’, [Journal of Applied Physics 122, 223106 \(2017\)](#).
14. **Tsibidis G.D.***, and Stratakis E., ‘Ripple formation on silver after irradiation with radially polarized ultrashort-pulsed lasers’, [Journal of Applied Physics 121, 163106 \(2017\)](#).
15. **Tsibidis G.D.***, Skoulas E., A.Papadopoulos, and Stratakis E., ‘Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers’, [Physical Review B \(Rapid Communications\) 94, 081305 \(2016\)](#).
16. Tzianaki E., Bakarezos M., **Tsibidis G.D.**, Petrakis S., Loukakos P.A., Kosmidis C., Tatarakis M., and Papadogiannis N.A., ‘Controlling nanoscale acoustic strains in Silicon using chirped femtosecond laser pulses’, [Applied Physics Letters, 108 \(26\), 254102 \(2016\)](#).

17. Dessi C., **Tsibidis G.D.**, Dimitris Vlassopoulos D., Corato M., Trofa M., D'Avino G., Maffettone P., and Coppola S., 'Analysis of dynamic mechanical response in torsion', [*Journal of Rheology*, **60** \(2\), 275 \(2016\).](#)
18. Konidakis I., Konstantaki M., **Tsibidis G.D.** and Pissadakis S., 'An all light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber', [*Optics Express*, **23** \(24\) 31496-31509 \(2015\).](#)
19. **Tsibidis G.D.***, Skoulas E., and Stratakis E., "Ripple formation on Nickel irradiated with radially polarized femtosecond beams", [*Optics Letters*, **40** \(22\), 5172 \(2015\).](#)
20. **Tsibidis G.D.***, Fotakis C., and Stratakis E., 'From ripples to spikes: a hydro-dynamical physical mechanism to interpret femtosecond laser induced self-assembled structures', [*Physical Review B \(Rapid Communications\)*, **92**, 041405 \(2015\).](#)
21. Tzianaki E., Bakarezos M., **Tsibidis G.D.**, Orphanos Y., Loukakos P.A., Kosmidis C., Patsalas P., Tatarakis M., and Papadogiannis N.A., 'High acoustic strains in Si through ultrafast laser excitation of Ti thin-film transducers', [*Optics Express*, **23**\(13\), 17191-17204 \(2015\).](#)
22. Roussou A., **Tsibidis G.D.**, Smyrnakis J, Mageiropoulos M., Efremidis N.K., Jackson A.D., and Kavoulakis G., 'Hysteresis and metastability of Bose-Einstein-condensed clouds of atoms confined in ring potentials', [*Physical Review A* **91**, 023613 \(2015\).](#)
23. **Tsibidis G.D.**, Stratakis E., Loukakos P.A., and Fotakis C., 'Controlled ultrashort pulse laser induced ripple formation on semiconductors', [*Applied Physics A \(Invited Paper\)*, **114**:57–68 \(2014\).](#)
24. **Tsibidis G.D.***, 'Thermal response of double-layered metal films after ultrashort-pulsed laser irradiations: the role of nonthermal electron dynamics', [*Applied Physics Letters* **104**, 051603 \(2014\).](#)
25. Barberoglou M., **Tsibidis G.D.***, Grey D., Magoulakis M., Fotakis C., Stratakis E., and Loukakos P.A., 'The influence of ultrafast temporal energy regulation on the morphology of Si surfaces through femtosecond double pulse laser irradiation', [*Applied Physics A \(Rapid Communications\)*, **113**, 273-283 \(2013\).](#)
26. **Tsibidis G.D.***, Barberoglou M., Loukakos P.A., Stratakis E., and Fotakis C., 'Dynamics of ripple formation on silicon surfaces by ultrashort laser pulses in subablation conditions', [*Physical Review B*, **86**, 115316 \(2012\).](#)
27. **Tsibidis G.D.***, Stratakis E., Aifantis K.E., 'Thermoplastic deformation of silicon surfaces induced by ultrashort pulsed lasers in submelting conditions', [*Journal of Applied Physics*, **111**, 053502 \(2012\).](#)
28. Daskalaki A, Shalaby N.A, Kux K., Tsoumpekos G., **Tsibidis G.D.**, Muskavitch M.A.T, and Delidakis C., 'Distinct intracellular motifs of Delta mediate its ubiquitylation and activation by Mindbomb1 and Neuralized', [*Journal of Cell Biology* **195** \(6\), 1017-1031 \(2011\).](#)
29. **Tsibidis, G.D.***, Burroughs, N.J, Gaze, W. and Wellington E.M.H., 'Semi-Automated *Acanthamoeba polyphaga* detection and computation of *Salmonella typhimurium* concentration in spatio-temporal images', [*Micron*, **42**\(8\):911-20 \(2011\).](#)
30. Pissadakis S., Livitziis M., and **Tsibidis G.D.**, 'Investigations on the Bragg Grating Recording in Standard and All-silica Microstructured Optical Fibers Using Picosecond 248nm, Laser Radiation'. [*Journal of European Optical Society, \(Rapid Communications\)*, **4**, 09049 \(2009\).](#)
31. **Tsibidis, G.D.***, 'Quantitative interpretation of binding reaction for rapidly diffusing proteins using Fluorescence Recovery After Photobleaching'. [*Journal of Microscopy*, **233** \(3\), 384-390 \(2009\).](#)
32. Pissadakis S., Livitziis M, **Tsibidis G.D.**, Kobelke J., and Schuster K., 'Type IIA Grating Inscription in Highly Nonlinear Microstructured Optical Fiber'. [*IEEE Photonics Technology Letters*, **21**, 227-229 \(2009\).](#)

33. **Tsibidis G.D.*** and Ripoll J., ‘Investigation of binding mechanisms of nuclear proteins using Confocal Scanning Laser Microscopy and FRAP’. [Journal of Theoretical Biology, 253, 755-768 \(2008\).](#)
34. Dragestein K.A., van Cappellen W.A., van Haren J., **Tsibidis G.D.**, Akhmanova A., Knoch T.A., Grosveld F., and Galjart N., ‘Dynamic behavior of GFP-CLIP-170 reveals fast protein turnover on microtubule plus ends’. [Journal of Cell Biology, 180, 729-37 \(2008\).](#)
35. **Tsibidis G.D.*** and Tavernarakis N., ‘Nemo: a computational tool for analyzing nematode locomotion’. [BMC Neuroscience 8, 86 \(2007\).](#)
36. **Tsibidis G.D.***, ‘Quark-antiquark bound states and the Breit equation’, [Acta Phys. Polonica B., 35, 2329-2365 \(2004\).](#)

Review Paper

Tsibidis G.D., Stratakis E., Loukakos P.A., and Fotakis C., ‘Controlled ultrashort pulse laser induced ripple formation on semiconductors’, [Applied Physics A \(Invited Paper\), 114:57–68 \(2014\).](#)

Book Chapter

1. Chapter Title: ‘Ultrafast Processes on semiconductor surfaces irradiated by temporally shaped fs laser pulses: tuning & controlling surface micro/nano-structures’, by P.A.Loukakos, **G.D.Tsibidis** and E.Stratakis, in [Pulsed Laser Ablation, Advances and Applications in Nanoparticles and Nanostructuring Thin films](#), editors: Ion N. Mihailescu, Anna Paola Caricato, Pan Stafford (1017).

Full articles in Conference proceedings (“*” indicates the corresponding author)

1. Konstantaki M., **Tsibidis G.D.**, Childs P., Sozzi M, and Pissadakis S. (2013), ‘Laser etched gratings inside microstructured optical fibres’, [MATEC Web of Conferences 8, 05001 \(2013\).](#)
2. Pissadakis S., **Tsibidis G.D.**, and Livitziis M. (2009). ‘Photosensitivity and Grating Recording in All-silica Standard and Microstructured Optical Fibres using 248nm, fs and ps Laser Radiation’, *European Conference on Lasers and Electro-Optics (CLEO) and the 11th European Quantum Electronics Conference 2009*, [Conference Proceedings](#), June 14th-19th, Munich, Germany.
3. Pissadakis S., Livitziis M., **Tsibidis G.D.**, Kobelke J., and Schuster K., (2009), ‘Inscription of type IIA Bragg reflectors in a highly non-linear microstructured optical fiber using deep ultraviolet laser radiation’, SPIE Optics + Optoelectronics, 2009, Prague, Czech Republic [Proceedings of SPIE, 75, 7357 \(2009\).](#)
4. Roniotis A., Marias K., Sakkalis V., **Tsibidis G.D.**, and Zervakis M., (2009), ‘A complete mathematical study of a 3D model of heterogeneous and anisotropic glioma evolution’, *Engineering in Medicine and Biology Society, 2009. EMBC 2009. Annual International Conference of the IEEE, 2807-2810, (2009)*
5. Burroughs N.J., **Tsibidis G.D.**, Gaze W., and Wellington L.,(2003), ‘Study of spatial biological systems using a graphical user interface’, 10th International Conference on Human-Computer Interaction 2003, Heraklion, Crete, [Proceedings, CRC Press, pp. 48-52.](#)
6. **Tsibidis G.D.**, Gibson D., Spann M., Woolley S. (2001), ‘Diagnostically lossless video compression for angiogram data using a wavelet-based texture modelling approach’ *Photonics West 2001-Electronic Imaging, 2001, San Jose, CA, USA, Proceedings of SPIE 4299 127 (2001).*

Workshop/Conference organisation

1. Organiser of the 6th *International Workshop on Laser Induced Periodic Surface Structures (LIPSS)*, November 24th-25th, 2016, Heraklion, Crete, Greece.

Citations (Google Scholar)

	All	Since 2014
Citations	902	689
h-index	16	15
i10-index	20	18

