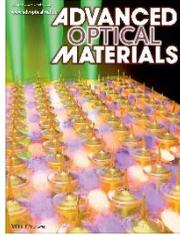


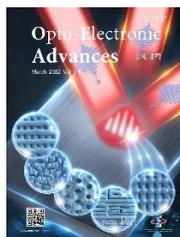
## Dissemination activities of Dr George D Tsididis

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

1. Maragkaki S., Vlahou M., Perrakis G., Manousaki A., **Tsididis GD.**, Stratakis E. ‘Investigation of the Thickness-Dependent Formation of High-Spatial-Frequency LIPSS in Mo Thin Films Induced by UV Femtosecond Lasers’ (*Under Submission*).
2. Vlahou M. **Tsididis GD\***, Stratakis E., ‘Fabrication of Laser-Induced Periodic Surface Structures on Bulk Polycarbonate Using Ultrafast Laser Processing in the Infrared Regime’ (*Under Submission*)
3. Dimitris Tsikritzis, Stella Maragkaki, Marinos Tountas, Nikos Kavousanos, Andreas Michael, **Tsididis GD**, Maria Pervolaraki, Dimitra Vernardou, Emmanuel Stratakis, Emmanuel Kymakis, ‘Laser-Reduced Graphene Oxide as Electrode for ITO-Free Perovskite Solar Cells and Supercapacitors’, (*Under review*)
4. Kanaev A., **Tsididis GD.**, Stratakis E. and Museur L., ‘Periodic surface structuring of rutile TiO<sub>2</sub> single crystal with cross- polarized beams of UV femtosecond laser: Effect of the interpulse delay on the formation mechanism’ (*Under review*).
5. **Tsididis GD**, ‘Influence of Inter-Pulse Delay and Geometric Constraints on Damage and Optical Characteristics in thin Metal Targets Irradiated by Double Ultrashort Laser Pulses’ (*To appear in Applied Surface Science*).
6. **Tsididis GD\***, Vlahou M., Maragkaki S., Konidakis I., Stratakis E., ‘Deciphering Carrier Dynamics in Polycarbonate following excitation with Ultrashort Laser Pulses’ [Journal of Applied Physics 138, 053103 \(2025\)](#). (*Editor’s Pick*).
7. Fraggelakis F., Lingos P., **Tsididis GD**, Cusworth E., Kravets VG, Grigorenko AN, Kabashin AV, Stratakis E, ‘Highly-ordered LIPSS fabricated over large area on thin Au film by double-pulse femtosecond laser structuring for ultrasensitive plasmonic biosensing applications’ [ACS Nano 19 \(25\) 2358 \(2025\)](#).
8. Vlahou M., Protopapa N., Maragkaki S., **Tsididis GD** and Emmanuel Stratakis, ‘Fabrication of highly uniform laser-induced periodic structures on polycarbonate via UV femtosecond pulses’, [Optics and Laser Technology 189 113121 \(2025\)](#).
9. Chapalo I., Sarakatsianos V., Grantzioti E., Konstantaki M., **Tsididis GD**, Manouras T., Vamvakaki M., Pissadakis S., ‘Inscription of Bragg reflectors in polypropylene no-core optical fibers using 248 nm laser radiation’, [Optics Express 32 \(26\), 45554 \(2024\)](#).
10. Biljana B., Petrovic S., Siogka C., Milovanovic D., Momčilović M., **Tsididis GD**, Stratakis E., ‘Selective ablation and laser-induced periodical surface structures (LIPSS) produced on (Ni/Ti) nano layer thin film with ultra-short laser pulses’, [Photonics 11 \(1\), 1054 \(2024\)](#).
11. **Tsididis G.D.\***, Stratakis E., ‘Tailoring the ultrafast dynamics and electromagnetic surface modes on silicon upon irradiation with mid-infrared femtosecond laser pulses using SiO<sub>2</sub> coatings’, [Physical Review B 109, 184113 \(2024\)](#).
12. Vilkevičius K., **Tsididis G.D.**, Selskis A., Stratakis E., and Stankevičius E., ‘Plasmonic structures formation in different thicknesses of gold film using direct laser writing’, [Advanced Optical Materials 2400172 \(2024\)](#), (*Inside of Front Cover*).



13. Kanaev A., Perrakis G., **Tsibidis G.D.**, Stratakis E., Englezis A., and Museur L., 'Investigating the transition from high to low spatial frequency periodic nanoripples on TiO<sub>2</sub> (001) upon irradiation with UV-femtosecond pulses', [\*Applied Surface Science\* \*\*659\*\*, 159853 \(2024\)](#).
14. Velli M.C., Maragkaki S., Vlahou M., **Tsibidis G.D.\***, and Stratakis E., 'Evaluation of the role of pulse duration and film thickness on the damage threshold of metal thin films irradiated with femtosecond laser pulses', [\*Applied Surface Science\* \*\*657\*\*, 159810 \(2024\)](#).
15. Perrakis G., Tsilipakos O., **Tsibidis G.D.**, and Stratakis E., 'Impact of Hybrid Electromagnetic Surface Modes on the Formation of Low Spatial Frequency LIPSS: A Universal Approach', [\*Laser & Photonics Reviews\* \*\*2301990\*\* \(2024\)](#).
16. **Tsibidis G.D.\***, Stratakis E., 'Influence of Antireflection Si coatings on the Damage Threshold of fused silica upon irradiation with Mid-IR femtosecond laser pulses', [\*Optics Letters\* \*\*48\*\* \(18\), 4841 \(2023\)](#).
17. Lingos P., Perrakis G., Tsilipakos O., **Tsibidis G.D.**, Stratakis E., 'Impact of plasmonic modes on the formation of self-organised nano-patterns in thin films', [\*Optics and Laser Technology\* \*\*163\*\*, 109415 \(2023\)](#).
18. Maragkaki S., **Tsibidis G.D.\***, Haizer L., Pápa Z., Flender R., Kiss B., Márton Z., Stratakis E., 'Tailoring surface topographies on solids with Mid-IR femtosecond laser pulses', [\*Applied Surface Science\* \*\*612\*\*, 155879 \(2023\)](#).
19. **Tsibidis G.D.\***, Stratakis E., 'Ionization dynamics and damage conditions in fused silica irradiated with Mid-Infrared femtosecond pulses', [\*Applied Physics Letters\* \*\*122\*\* \(4\) 04350 \(2023\)](#).
20. **Tsibidis G.D.\***, Stratakis E., 'The impact of the substrate on the opto-thermal response of thin metallic targets following irradiation with femtosecond laser pulses', [\*Journal of Central South University\* \*\*29\*\*, 3410 \(2022\)](#).
21. **Tsibidis G.D.\***, Lingos P., Stratakis E., 'The synergy of electromagnetic effects and thermophysical properties of metals in the formation of laser induced periodic surface structures', [\*Optics Letters\* \*\*47\*\*, 4251 \(2022\)](#).
22. **Tsibidis G.D.\***, Mansour E., Stratakis E., 'Damage threshold evaluation of thin metallic films exposed to femtosecond laser pulses: the role of material thickness', [\*Optics and Laser Technology\* \*\*156\*\*, 108484 \(2022\)](#).
23. Fraggelakis F., **Tsibidis G.D.\***, Stratakis E., 'Ultrashort pulsed laser induced complex surface structures generated by tailoring the melt hydrodynamics', [\*Opto-Electronic Advances\*, \*\*5\*\* 210052 \(2022\)](#), (**Front Cover of Issue**).



24. Vlahou M., Fraggelakis F., Manganas P., **Tsibidis G.D.**, Ranella A., and Stratakis E., 'Fabrication of biomimetic 2D nanostructures through irradiation of stainless steel surfaces with double femtosecond pulses' [\*Nanomaterials\* \*\*12\*\* \(4\) 623 \(2022\)](#) [**Editor's Choice**].

25. Petrović S., **Tsibidis G.D.**, Kovacevic A., Bozinovic N, Perusko D., Mimidis A., Manousaki A., and Stratakis E., ‘Effects of static and dynamic femtosecond laser modifications of Ti/Zr multilayer thin films’, [\*European Journal of Physics D\* \*\*75\*\*, 304 \(2021\).](#)
26. Maragkaki S., Lingos P., **Tsibidis G.D.**, Deligeorgis P., Stratakis E., ‘Impact of pre-patterned structures on features of Laser Induced Periodic Surface Structures’, [\*Molecules\* \*\*26\*\* \(3\) 7330 \(2021\).](#)
27. Nivas J.JJ, Allahyari E., Skoulas E., Bruzzese R., Fittipaldi R., **Tsibidis G.D.**, Stratakis E. and Amoruso S., ‘Incident angle influence on ripple and grooves produced by femtosecond laser irradiation of silicon’, [\*Applied Surface Science\*, \*\*570\*\*, 151150 \(2021\).](#)
28. Genieys T., Petrakakis M.N., **Tsibidis G.D.**, Sentis M., Uteza O., ‘Unraveling ultrashort laser excitation of nickel at 800nm wavelength’, [\*Journal of Physics D: Applied Physics\*, \*\*54\*\*, 495302 \(2021\).](#)
29. Museur L., Manousaki A., Anglos D., **Tsibidis G.D.** and Kanaev A. ‘Pathways control in modification of solid surfaces induced by femtosecond laser pulses separated in time’, [\*Applied Surface Science\*, \*\*566\*\*, 150611\(2021\).](#)
30. Fraggelakis F., **Tsibidis G.D.\***, Stratakis E., ‘Tailoring Sub-micrometer Periodic Surface Structures via Ultrashort Pulsed Direct Laser Interference Patterning’, [\*Physical Review B\* \*\*103\*\*, 054105 \(2021\).](#)
31. Kuznietsov O.V., **Tsibidis G.D.**, Demchishin A.V., Demchishin A.A, Gnilitzkiy I., ‘Femtosecond Laser-Induced Periodic Surface Structures on 2D Ti-Fe Multilayer Condensates’, [\*Nanomaterials\* \*\*11\*\*\(2\), 316 \(2021\).](#)
32. **Tsibidis G.D.\***, Museur L. and Kanaev A., ‘The Role of Crystalline Orientation in the Formation of Surface Patterns on Solids Irradiated with Femtosecond Laser Double Pulses’, [\*Applied Sciences\* \*\*10\*\*, \(24\) 8811 \(2020\).](#)
33. Velli MC, **Tsibidis G.D.\*** Mimidis A., Skoulas E., Pantazis Y., Stratakis E., ‘Predictive modeling approaches in laser-based material processing’, [\*Journal of Applied Physics\*, \*\*28\*\* 183102 \(2020\).](#)
34. Skoulas E., Mimidis A., Demeridou I., **Tsibidis G.D.\***, Stratakis E., ‘Polarization dependent spike formation on black silicon via ultrafast laser structuring’ [\*Journal of Optoelectronics and Advanced Materials\* \*\*22\*\*, 501 \(2020\).](#)
35. Kudryashov S., Samokhvalov A., Shelygina S., Karabutov A., **Tsibidis G.D.**, Pankin D. Veiko V., ‘Electronic and vibrational processes during femtosecond laser absorption in absorbing liquids in sub- and filamentation regimes: ultrasonic and optical characterization’ [\*Laser Physics Letters\*, \*\*17\*\* 105302 \(2020\).](#)
36. Allahyari,E., Nivas J.JJ, Skoulas E., Bruzzese R., **Tsibidis G.D.**, Stratakis E., and Amoruso S., ‘On the formation and the features of the supra-wavelength grooves generated during femtosecond laser surface structuring of silicon’ [\*Applied Surface Science\*, \*\*528\*\* 146607 \(2020\).](#)
37. Stratakis E., Bonse J., Heitz J., Siegel J., **Tsibidis G.D.**, Skoulas E. Papadopoulos A., Mimidis A., Joel A.-C., Comanns P., Kruger J., Florian C., Fuentes-Edfuf Y., Solis J., Baumgartner W., ‘Laser Engineering of Biomimetic Surfaces’ (**Review Article**), [\*Materials Science and Engineering: R: Reports\*, \*\*141\*\*, 100562 \(2020\).](#)
38. **Tsibidis G.D.\***, Stratakis E., ‘Ionization processes and laser induced periodic surface structures in dielectrics with mid-infrared femtosecond laser pulses’, [\*Scientific Reports\* \*\*10\*\*, 8675 \(2020\).](#)
39. **Tsibidis G.D.\***, Mouchliadis L., Pedio M., Stratakis E., ‘Modelling ultrafast out-of-equilibrium carrier dynamics and relaxation processes upon irradiation of hexagonal Silicon-Carbide with femtosecond laser pulses’, [\*Physical Review B\* \*\*101\*\*, 075207 \(2020\).](#)
40. 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 \(2019\).](#)
41. 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 \(2019\).](#)

42. 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’, [\*Advanced Materials\* \*\*31\*\*, \(32\), 1901123 \(2019\).](#)
43. 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 \(2018\).](#)
44. Museur L., **Tsibidis G.D.** Manousaki A., Anglos D., and Kanaev A. ‘Surface structuring of rutile TiO<sub>2</sub> (100) and (001) single crystals with femtosecond pulsed laser irradiation’, [\*Journal of Optical Society of America B\*, \*\*35\*\*, 10, 2600 \(2018\).](#)
45. Orlandi F., Aza E., Bakaimi I., Kiefer K., Klemke B., Zorko A., Arçon D., Stock C., **Tsibidis G.D.**, Green M.A., Manuel P. and Lappas A., ‘Incommensurate atomic and magnetic modulations in the spin-frustrated  $\beta$ -NaMnO<sub>2</sub> triangular lattice’, [\*Physical Review Materials\* \*\*2\*\*, 074407 \(2018\).](#)
46. **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 \(2018\).](#)
47. **Tsibidis G.D.\***, ‘Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel’, [\*Applied Physics A\*, \*\*124\*\*,311 \(2018\).](#)
48. 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 \(2018\).](#)
49. 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 \(2018\).](#)
50. **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 \(2018\).](#)
51. 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 \(2018\).](#)
52. 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 \(2017\).](#)
53. **Tsibidis G.D.\***, and Stratakis E., ‘Ripple formation on silver after irradiation with radially polarized ultrashort-pulsed lasers’, [\*Journal of Applied Physics\* \*\*121\*\*, 163106 \(2017\).](#)
54. **Tsibidis G.D.\***, Skoulas E., Papadopoulos A., 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 \(2016\).](#)
55. 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 \(2016\).](#)
56. 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 \(2016\).](#)
57. 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 \(2015\).](#)

58. **Tsibidis G.D.\***, Skoulas E., and Stratakis E., “Ripple formation on Nickel irradiated with radially polarized femtosecond beams”, *Optics Letters*, **40** (22), 5172 (2015).
59. **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).
60. 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).
61. 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).
62. **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).
63. **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).
64. 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).
65. **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).
66. **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).
67. 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).
68. **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).
69. 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).
70. **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).
71. 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).
72. **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).
73. 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).
74. **Tsibidis G.D.\***, and Tavernarakis N., ‘Nemo: a computational tool for analyzing nematode locomotion’. *BMC Neuroscience* **8**, 86 (2007).

75. **Tsibidis G.D.\***, ‘Quark-antiquark bound states and the Breit equation’, [\*Acta Phys. Polonica B.\*, \*\*35\*\*, 2329-2365 \(2004\).](#)

### **Review Paper**

1. Stratakis E., Bonse J., Heitz J., Siegel J., **Tsibidis G.D.**, Skoulas E. Papadopoulos A., Mimidis A., Joel A.-C., Comanns P., Kruger J., Florian C., Fuentes-Edfuf Y., Solis J., Baumgartner W., ‘Laser Engineering of Biomimetic Surfaces’ (**Review Article**), [\*Materials Science and Engineering: R: Reports\*, \*\*141\*\*, 100562 \(2020\).](#)

### **Book Chapters**

1. Chapter Title: ‘[Ultrafast laser biomimetic micro/nanostructuring](#)’, by **G.D.Tsibidis** and E.Stratakis in [Ultrafast Laser Nanostructuring - The Pursuit of Extreme Scales](#), editors: J.Bonse and R.Stoian, Springer Nature Switzerland AG(2023).
2. 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 Staford (2017).

### **Software Development**

Additionally to codes developed to understand the fundamental mechanisms, the web-based computational platforms were developed (optical parameters+thermal response)

- [Modelling and Machine Learning | NFFA.eu](#) (optical parameters + thermal response of materials that are excited with ultrashort laser pulses)
- [RIANA](#) (damage threshold of materials that are excited with ultrashort laser pulses)
- A user-friendly, fast and precise algorithm to compute thermal and optical response of ultrathin metal films irradiated with ultrashort laser pulses (Ag, Au, Al, Cu, Ti, Ni, Steel, Mo, Cr, Pt, W) (***to be released***)

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

1. Fraggelakis F., Lingos P., **Tsibidis GD**, Cusworth E., Kravets VG, Grigorenko AN, Kabashin AV, Stratakis E. ‘Impact of plasmonic modes and thermophysical properties on the double-pulse structuring of highly ordered LIPSS for biosensing applications’ Proceedings of SPIE, (in Press) (2026)
2. Litsas A., Fraggelakis F., **Tsibidis G.D.**, Stratakis E., Pantazis Y., ‘Inferring the Parameters of Ultrafast Lasers from Images with Surface Patterns ” , [2023 International Symposium on Image and Signal Processing and Analysis \(ISPA\), September 18-19, Rome, Italy, \(2023\)](#)
3. Loukakos P.A., Stratakis E., **Tsibidis G.D.**, Gray D, Barberoglou M, Fotakis C., ‘Ultrafast processes on semiconductor surfaces irradiated by temporally shaped fs Laser Pulses:Tuning and Controlling surface Micro/Nano-Structures’, [Journal of Modern Trends in Physics Research](#), **14**, 42-54 (2014).
4. 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).

5. 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 11<sup>th</sup> European Quantum Electronics Conference 2009*, [Conference Proceedings](#), June 14<sup>th</sup>-19<sup>th</sup>, Munich, Germany (2009).
6. 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 \(2009\)](#).
7. 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)*
8. Burroughs N.J., **Tsibidis G.D.**, Gaze W., and Wellington L.,(2003), ‘Study of spatial biological systems using a graphical user interface’, *10<sup>th</sup> International Conference on Human-Computer Interaction 2003*, Heraklion, Crete, [Proceedings, CRC Press, pp. 48-52 \(2003\)](#).
9. **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)*.

### **Software development**

- Evaluation of damage threshold of various materials via a web-based platform ([NFFA Tool \(forth.gr\)](#)) [Virtual Access: Nanostructures Predictive Service and Materials Modeling](#) (presented at NFFA Summer School, June 10<sup>th</sup>-14<sup>th</sup>, Heraklion, Crete, Greece)

### **Workshop/Conference organisation**

1. Organiser of COST action meeting ([‘TOWARDS UNDERSTANDING AND MODELLING INTENSE ELECTRONIC EXCITATION’](#)), 18<sup>th</sup>, 2022, Heraklion, Crete, Greece
2. Organiser of the *6<sup>th</sup> International Workshop on Laser Induced Periodic Surface Structures (LIPSS)*, November 24<sup>th</sup>-25<sup>th</sup>, 2016, Heraklion, Crete, Greece.

### **Participation in Conferences (with appearance in the Abstracts-asterisks indicate person who presented the talk)**

1. **Tsibidis G.D.\***, ‘Interpulse Delay-Driven Mechanisms in Double Femtosecond Pulse Fabrication of Uniform Plasmonic Surface Structures on thin films’, [13<sup>th</sup> LIPSS Workshop, University of Twente, October 29th-31st, 2025, Enschede, the Netherlands](#).
2. **Tsibidis G.D.\***, ‘Laser-Based Fabrication Strategies for High-Resolution and Functional Biomimetic Structures’, [1<sup>st</sup> International Conference of PanHellenic Optical Society \(PHOS\), 10 – 11 October, 2025, Heraklion, Crete](#).
3. **Tsibidis G.D.\***, ‘Investigating Excitation processes and dynamics in Polycarbonate Following exposure to Ultrashort Laser Pulses’, [13<sup>th</sup> International Conference on Photo-Excited Processes and Applications, September 14th-19th, 2025, Lecce, Italy](#) (INVITED for Oral talk).

4. **Tsibidis G.D.\***, ‘Double-Pulse Femtosecond Laser Fabrication of Highly Ordered Periodic Structures on Au Thin Films Enabling Low-Cost Plasmonic Applications’, [3<sup>rd</sup> International Conference on Nanotechnologies & Bionanoscience, September 8<sup>th</sup>-12<sup>nd</sup> 2025, Heraklion, Crete, Greece.](#)
5. **Tsibidis G.D.\***, ‘Tailoring the properties of the electromagnetic modes excited by Mid-IR fs pulses at the interface between Si and SiO<sub>2</sub> coatings by adjusting the thickness of the dielectric material’ [Conference on Lasers and Electro-Optics/Europe \(CLEO/Europe 2025\) and European Quantum Electronics Conference \(EQEC 2025\), 23-27 June, 2025, Munich, Germany.](#)
6. **Tsibidis G.D.\***, ‘Controlling the damage threshold and excited electromagnetic waves on Si with SiO<sub>2</sub> coatings upon irradiation with Mid-IR femtosecond laser pulses’, [17<sup>th</sup> International Conference on Laser Ablation \(COLA 2024\), September 29<sup>th</sup>-October 4<sup>th</sup>, Heraklion, Greece.](#)
7. **Tsibidis G.D.\***, ‘Is the Damage Threshold of transparent materials influenced via the use of coatings upon irradiation with Mid-IR femtosecond laser pulses?’, [VIII International Conference on Ultrafast Optical Science UltrafastLight-2024, September 30<sup>th</sup>-October 2<sup>nd</sup>, Moscow, Russia.](#)
8. **Tsibidis G.D.\***, ‘Tailoring the Damage Threshold of fused silica upon irradiation with Mid-IR femtosecond laser pulses the use of Silicon coatings’, [25<sup>th</sup> Laser Processing Micronanofabrication, June 11<sup>th</sup>-14<sup>th</sup>, San Sebastian, Spain, \(2024\).](#)
9. Lingos P., Perrakis G., Tsilipakos O., **Tsibidis G.D.\***, Stratakis E (2023). ‘Influence of Electromagnetic surface modes on the formation of self-organised nano-patterns in thin Au films’, *2nd International Conference on Nanotechnologies and Bionanoscience (NanoBio 2023)*, [Conference Proceedings](#), September 11<sup>th</sup>-15<sup>th</sup>, Heraklion, Crete, Greece (2023).
10. **Tsibidis G.D.\*** and Stratakis E. (2023). ‘Ionisation dynamics, damage conditions and surface patterning in fused silica irradiated with Mid-Infrared femtosecond pulses’, *European Conference on Lasers and Electro-Optics (CLEO) 2023*, [Conference Proceedings](#), June 26<sup>th</sup>-30<sup>th</sup>, Munich, Germany (2023).
11. Lingos P., Perrakis G., Tsilipakos O., **Tsibidis G.D.\***, Stratakis E (2023). ‘Impact of plasmonic modes on the formation of self-organised nano-patterns in thin films’, *European Conference on Lasers and Electro-Optics (CLEO) 2023*, [Conference Proceedings](#), June 26<sup>th</sup>-30<sup>th</sup>, Munich, Germany (2023).
12. Maragkaki S., **Tsibidis G.D.**, Haizer L., Pápa Z., Flender R., Kiss B., Márton Z., Stratakis E., (2023). ‘Tailoring surface topographies on solids with Mid-IR femtosecond laser pulses’, *European Conference on Lasers and Electro-Optics (CLEO) 2023*, [Conference Proceedings](#), June 26<sup>th</sup>-30<sup>th</sup>, Munich, Germany (2023).
13. **Tsibidis G.D.\***, Lingos P., Stratakis E. (2022), ‘Laser processing of materials: the role of electromagnetic effects and the thermophysical properties of the irradiated solids’, ([INVITED for Oral talk](#)), *VI International Conference on Ultrafast Optical Science*, October 3<sup>th</sup>-October 7<sup>th</sup>, Lebedev Physical Institute, Moscow, Russia.
14. **Tsibidis G.D.\***, Lingos P., Stratakis E. (2022), ‘Laser processing of materials: the role of electromagnetic effects and the thermophysical properties of the irradiated solids’, ([INVITED for Oral talk](#)), *36th Panhellenic Conference on Solid State Physics and Materials Science*, September 26<sup>th</sup> -28<sup>th</sup>, Heraklion, Crete, Greece.
15. **Tsibidis G.D.\***, Maragkaki S., Stratakis E. (2022) ‘Modelling of the ultrafast dynamics and patterning formation upon irradiation of Solids with Mid-IR femtosecond laser pulses’, ([INVITED for Oral talk](#)), *VII Ultrafast Dynamics and Metastability-Ultrafast Bandgap Photonics*, June 6<sup>th</sup>-10<sup>th</sup>, Hersonissos, Crete, Greece.
16. **Tsibidis G.D.\*** (2021) ‘Tailoring submicrometer periodic surface structures via ultrashort pulsed direct laser interference patterning’, ([INVITED for Oral talk](#), **CHAIRMAN of a session and member of the Program Organising Committee**), *International Conference on Ultrafast Optical Science*, October 6<sup>th</sup>-October 10<sup>th</sup>, Lebedev Physical Institute, Moscow, Russia.

17. **Tsibidis G.D.\*** (2021), ‘Ultrafast Dynamics in Solids with Mid-IR laser femtosecond pulses and laser induced periodic surface structures’, (INVITED for Oral talk), *35th Panhellenic Conference on Solid State Physics and Materials Science*, September 26<sup>th</sup> -29<sup>th</sup>, Athens, Greece.
18. **Tsibidis G.D.\*** (2021), Fraggelakis F. and Stratakis E. ‘Tailoring submicrometer periodic surface structures via ultrashort pulsed direct laser interference patterning’, (INVITED for Oral talk), *ALT21*, September 6<sup>th</sup> -10<sup>th</sup>, Moscow, Russia.
19. Maragkaki S, **Tsibidis G.D.\***, Stratakis E. (2021), ‘Laser Induced periodic structure formation via mid-IR ultrashort laser pulses’, *The 22nd International Symposium on Laser Precision Microfabrication*, June 8<sup>th</sup> -11<sup>th</sup>, Aomori, Japan.
20. **Tsibidis G.D.\***, Velli MC, Mimidis A., Skoulas E., Pantazis Y., Stratakis E., (2021), ‘Prediction of the morphological features of laser-based patterned surfaces through the use of machine learning approaches’, *The 22nd International Symposium on Laser Precision Microfabrication*, June 8<sup>th</sup> -11<sup>th</sup>, Aomori, Japan.
21. **Tsibidis G.D.\*** (2020) ‘Multiscale modelling of surface modification mechanisms in laser-based processing’, (**Keynote Speaker** in *10th International Conference on Multiscale Materials Modelling* (Session: ‘Computer modelling of laser and ion beam interactions with materials’), Baltimore, October 19<sup>th</sup>-23<sup>rd</sup>, Baltimore, MD, USA ([postponed due to COVID-19 until 2022](#)).
22. **Tsibidis G.D.\*** (2019) ‘Modelling of the ultrafast dynamics and surface plasmon properties upon irradiation of Silicon with mid-infrared femtosecond laser pulses’, (INVITED for Oral talk, **CHAIRMAN of a session and member of the Program Organising Committee**), *International Conference on Ultrafast Optical Science*, September 30<sup>th</sup>-October 4<sup>th</sup>, Lebedev Physical Institute, Moscow, Russia.
23. **Tsibidis G.D.\*** (2019), ‘Irradiation of semiconductors with mid-infrared femtosecond laser pulses’, (INVITED for Oral talk), *ALT19*, 15-20 September 15<sup>th</sup> -20<sup>th</sup>, Prague, Czech Republic.
24. **Tsibidis G.D.\*** E.Petrakakis, E.Stratakis (2019), ‘Ultrafast dynamics of silicon after irradiation with mid-infrared femtosecond laser pulses’, (INVITED for Oral talk) *15<sup>th</sup> Conference on Laser Ablation (COLA)*, September 8-13, Hawaii, USA.
25. **Tsibidis G.D.\*** (2019), ‘Ultrafast phenomena following Mid-infrared femtosecond laser pulsed irradiation of Silicon’, (INVITED for Oral talk) *International Symposium “Fundamentals of Laser Assisted Micro- and Nanotechnologies” (FLAMN-19)* June 30- July 04, St. Petersburg, Russia.
26. **Tsibidis G.D.\*** (2018) ‘Periodic Structure Formation on Dielectrics After Irradiation with ultrashort pulsed lasers’ (INVITED for Oral talk and **CHAIRMAN of session**) *International Conference on Ultrafast Optical Science*, October 1<sup>st</sup>-5<sup>th</sup>, Lebedev Physical Institute, Moscow, Russia.
27. Skoulas E, Mimidis A., Livakas N., **Tsibidis G.D.\***, Stratakis E (2018) ‘Versatile surface processing using CV femtosecond laser pulses’ (INVITED for oral talk) *International Conference on Photo-Excited Processes and Applications*, September 10<sup>th</sup>-14<sup>th</sup>, Vilnius, Lithuania.
28. **Tsibidis G.D.\***, Skoulas E, Mimidis A., Stratakis E (2018) ‘Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel’ (INVITED for oral talk) *International Conference on Photo-Excited Processes and Applications*, September 10<sup>th</sup>-14<sup>th</sup>, Vilnius, Lithuania.
29. **Tsibidis G.D.\***, Skoulas E, Mimidis A., Stratakis E, (2018) ‘Laser induced biomimetic structures: from fundamentals to applications’ (**KEYNOTE** Invited Talk) *International Workshop on Frontiers in Lasers and Applications (FLA 2018)*, April 16-19, Okinawa-Ishigaki, Japan.
30. **Tsibidis G.D.\***, (2018) ‘Periodic Structure Formation on Dielectrics After Irradiation with ultrashort pulsed lasers’ (INVITED for Oral talk and **CHAIRMAN** of session) *International High Power Laser Ablation and*

*Directed Energy (HPLA/DE)*, March 26-29, Santa Fe, USA. (Funding from the [US Air Force Windows on Science program](#)).

31. **Tsibidis G.D.\***, Skoulas E., Papadopoulos A., and Stratakis E., (2017), ‘Convection roll- driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers’, (INVITED for Oral talk) *14<sup>th</sup> Conference on Laser Ablation (COLA)*, September 3-8, Marseille, France.
32. **Tsibidis G.D.**, (2017), ‘Ultrafast dynamics of electrons and strain generation after femtosecond pulsed laser irradiation of Nickel’, *14<sup>rd</sup> Conference on Laser Ablation (COLA)*, September 3-8, Marseille, France.
33. Fuentes-Edfuf Y., Florian C., Garcia-Lechuga M., Solis J., Mimidis A., Skoulas E., **Tsibidis G.D.**, Stratakis E., and Siegel J.(2017), ‘Understanding angle dependence of LIPSS in steel’, *Conference on Laser Ablation (COLA)*, September 3-8, Marseille, France.
34. **Tsibidis G.D.**, Stratakis E., and Loukakos P. (2016), ‘Ultrafast laser-induced processes on surfaces at the micro/nano-scale by temporally-shaped fs laser pulses’, *10<sup>th</sup> International Conference on Photoexcited Processes and Applications (ICPEPA-10)*, August 29<sup>th</sup> - September 2<sup>nd</sup>, 2016, Brasov, Romania.
35. **Tsibidis G.D.\***, (2016). ‘Periodical structures formation on surfaces of solids after irradiation with pulsed lasers’, (INVITED for Oral talk in the Conference ‘*Developing the Physics and the Scientific Community for Inertial Fusion*’, April 18 -20, Belgrade, Serbia.
36. **Tsibidis G.D.\***, (2016). ‘From ripples to spikes’, (INVITED for Oral talk and **CHAIRMAN** of session on Fundamental Processes) *International High Power Laser Ablation and Directed Energy (HPLA/DE)*, April 4-7, Santa Fe, USA.
37. **Tsibidis G.D.\***, (2016). ‘Interpretation of formation of periodical structures on solids upon irradiation with lasers’, (INVITED for Oral talk) *Third Annual Conference on Optical Nanospectroscopy*, March 22 -25, Rome, Italy.
38. Bakarezos E., Orphanos I., Tzianaki E., Kaselouris E., Dimitriou V., **Tsibidis G.D.**, Loukakos P.A., Papadogiannis N.A., Tatarakis M., (2015), ‘Ultrafast dynamics and imaging of laser-generated nano-acoustic waves in metal/substrate layered systems’, *Fifth International School and Conference on Photonics, Photonica 2015*, August 24<sup>th</sup>-28<sup>th</sup>, Belgrade, Serbia.
39. **Tsibidis G.D.**, Fotakis C., and Stratakis E., (2015). ‘From ripples to spikes: a hydro- dynamical physical mechanism to interpret femtosecond laser induced self-assembled structures’, (INVITED for Oral talk) *13<sup>rd</sup> Conference on Laser Ablation (COLA)*, October 6-11, Australia.
40. **Tsibidis G.D.\***, (2014), ‘Fundamentals of surface modification after irradiation of silicon with ultrashort laser pulses: From ripples to spikes’, (INVITED for Oral talk) *International Conference on Advanced Laser Technologies (ALT14)*, October 6-10, Cassis, France.
41. **Tsibidis G.D.\***, Barberoglou M., Loukakos P.A., Stratakis E., and Fotakis C (2013). ‘Ripple formation dynamics on silicon surfaces after irradiation with ultrashort pulsed lasers in submelting or subablation conditions’, (INVITED for Oral talk) *12<sup>th</sup> Conference on Laser Ablation (COLA)*, October 6-11, Italy.
42. Barberoglou M., **Tsibidis G.D.**, Gray D, Magoulakis E., Fotakis C., Stratakis E., and Loukakos P.A. (2011), ‘The influence of femtosecond double pulse laser irradiation on the morphology of Si and ZnO surfaces’, *11<sup>th</sup> Conference on Laser Ablation (COLA)*, November 13-19, Mexico.
43. Papadopoulou E.I, Axente E., Magoulakis E., **Tsibidis G.D.**, Fotakis C. and Loukakos P.A (2010), ‘Laser Induced Forward Transfer of ZnO and TiO<sub>2</sub> using double ultrashort pulses’, *European Material Research Society meeting*, June 7<sup>th</sup>-10<sup>th</sup>, Strasburg 2010, France.
44. Roniotis A, Marias K, Sakkalis V, **Tsibidis G.D.**, and Zervakis M., (2009). ‘A complete mathematical study of a 4D model of heterogeneous and anisotropic glioma evolution’, *31st Annual International IEEE EMBS*

Conference of the IEEE Engineering in Medicine and Biology Society, Conference Proceedings 2807-2810, September 2<sup>nd</sup>-6<sup>th</sup>, Minneapolis, Minnesota, USA.

45. 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 11<sup>th</sup> European Quantum Electronics Conference 2009, Conference Proceedings*, June 14<sup>th</sup>-19<sup>th</sup>, Munich, Germany.
46. 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 Europe, Optics and Optoelectronics, Proceedings of SPIE, Vol. 7357, 73570K*, April 20-23<sup>th</sup>, Prague, Czech Republic.
47. **Tsibidis G.D.**\*, Ripoll, J., Draegenstein K. And Galjart N. (2006). Study of Binding mechanisms by Fluorescence Recovery after Photobleaching. *Mol. Biol.Cell 17 (suppl). L59. (Conference abstracts). The American Society for Cell Biology 46<sup>th</sup> Annual Meeting, 2006*, December 9<sup>th</sup>-13<sup>th</sup>, San Diego, USA.
48. Burroughs N.J, **Tsibidis G.D.**\*, Gaze W. and Wellington E.M.H (2003). Study of Spatial Biological Systems Using a Graphical User Interface, *Computer-Human Interaction Conference, Conference Proceedings, 1*, 48-52 (INVITED), June 22<sup>nd</sup>- 27<sup>th</sup>, Heraklion, Crete, Greece.
49. Gibson D., **Tsibidis G.D.**, Spann M. and Woolley S (2001). Diagnostically lossless video compression for angiogram data using a wavelet-based texture modeling approach. *Photonics West, Human Vision and Electronic Imaging VI, Proceedings of SPIE, 4299*, 126-134, January 20<sup>th</sup>-26<sup>th</sup>, San Jose, USA.(SPIE Library).
50. Gibson D., **Tsibidis G.D.**, Spann M. and Woolley S (2001). Angiogram Video Compression using a wavelet-based texture modeling approach, *Medical Image Understanding and Analysis, Conference Proceedings*, Birmingham, UK.

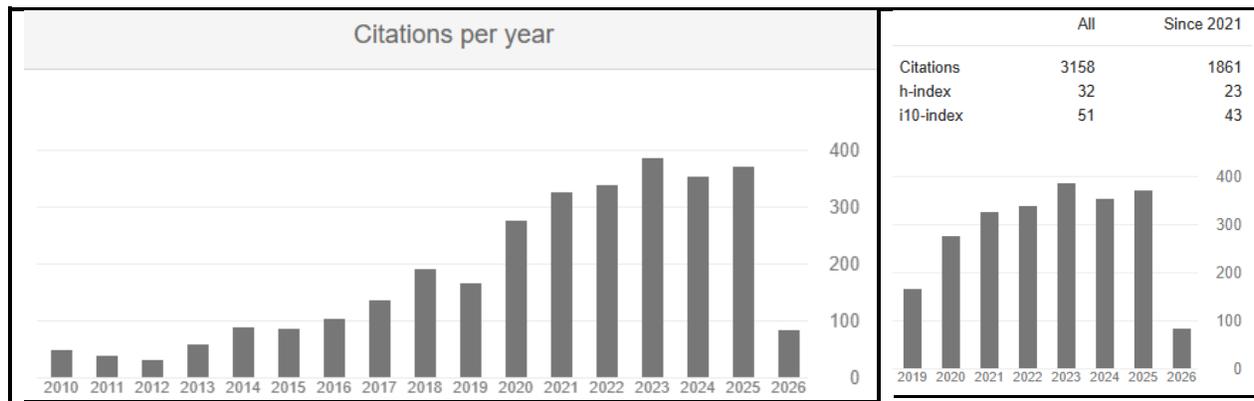
#### **Participation in Workshops (asterisks indicate person who presented the talk)**

- 1 **Tsibidis G.D.**\*, (2023). ‘Ionisation dynamics, damage conditions and surface patterning in fused silica irradiated with Mid-Infrared femtosecond pulses’ (INVITED for Oral talk) *Working Group Meeting of COST Action ‘Towards understanding and modelling intense electronic excitation’*, February 20<sup>th</sup>, 2023, Belgrade, Serbia.
- 2 **Tsibidis G.D.**\*, (2022). ‘Advances in the investigation of periodic structure formation with ultrashort laser pulses’, (INVITED for Oral talk) *6<sup>th</sup> Workshop on Laser Induced Periodic Surface Structures*, September 21<sup>th</sup>-23<sup>th</sup>, 2022, Orleans, France.
- 3 **Tsibidis G.D.**\* (2022) ‘Damage threshold evaluation of thin metallic films exposed to femtosecond laser pulses: the role of material thickness’, (INVITED for Oral talk) *Working Group Meeting of COST Action ‘Towards understanding and modelling intense electronic excitation’*, July 18<sup>th</sup> 2022, Heraklion, Crete, Greece.
- 4 **Tsibidis G.D.**\* (2022) ‘Ultrashort pulsed laser induced complex surface structures generated by tailoring the melt hydrodynamics’, (INVITED for Oral talk) *Working Group Meeting of COST Action ‘Towards understanding and modelling intense electronic excitation’*, April 28<sup>th</sup>-29<sup>th</sup> 2022, Prague, Czech Republic.
- 5 **Tsibidis G.D.**\* (2020) ‘Ultrafast dynamics following irradiation of solids with mid-infrared femtosecond laser pulses’, (INVITED for Oral talk) *Working Group Meeting of COST Action ‘Towards understanding and modelling intense electronic excitation’*, February 17<sup>th</sup>-18<sup>th</sup> 2020, Warsaw, Poland.
- 6 **Tsibidis G.D.**\*, (2019). ‘Modelling of the ultrafast dynamics and surface plasmon properties upon irradiation of Silicon with mid-infrared femtosecond laser pulses’, (INVITED for Oral talk) at *7<sup>th</sup> Workshop ELI-ALPS User*, November 7<sup>th</sup>-8<sup>th</sup>, 2019, Szeged, Hungary.
- 7 **Tsibidis G.D.**\*, (2019). ‘Electronic excitation following irradiation with ultrashort-pulsed lasers: The role of nonthermal electrons’, (INVITED for Oral talk) at *1<sup>st</sup> Working Group Meeting of COST Action ‘Towards*

understanding and modelling intense electronic excitation', March 6<sup>th</sup>, 2019, Porto, Portugal.

- 8 **Tsibidis G.D.**\*, (2016). 'Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers', (INVITED for Oral talk) 6<sup>th</sup> Workshop on Laser Induced Periodic Surface Structures, November 24<sup>th</sup>-25<sup>th</sup>, 2016, Heraklion, Crete, Greece.
- 9 **Tsibidis G.D.**\*, (2015). 'A consistent theoretical framework to predict self-assembled structures on solids upon irradiation with ultrashort pulsed lasers', (INVITED for oral talk) 5<sup>th</sup> Workshop on Laser Induced Periodic Surface Structures, December 7<sup>th</sup>, St-Etienne, France.
- 10 **Tsibidis G.D.**\*, (2012). 'A systematic methodology to investigate ripple formation dynamics on silicon surfaces after irradiation with ultrashort pulsed lasers in submelting or subablation conditions', (INVITED for oral talk) at the Workshop: Laser Micro and Nanostructuring: fundamentals and applications, December 10-12, Paris, France.
- 11 **Tsibidis G.D.**\*, (2010). 'Mass and heat transfer in micro- and nano-scale', (INVITED for oral talk at the Summer School on Multiscale Material Mechanics and Engineering Sciences, August 21<sup>st</sup>-30<sup>th</sup>, Epanomi, Greece.
- 12 **Tsibidis G.D.**\*, Draegenstein K, van Cappellen W., van Haren J., Akhmanova A., Knock T, Grosveld F., Galjart N., (2008). Employment of fluorescence-based approaches to investigate fast protein association o microtubule plus ends. *LASERLAB Foresight Workshop and Users Meeting, Trends of Laser Applications in Biology and Biomedicine, Heraklion, Crete.*
- 13 **Tsibidis G.D.**\* (2008). Investigation of binding mechanisms of nuclear proteins using Confocal Scanning laser Microscopy and FRAP. *LASERLAB Foresight Workshop and Users Meeting, Trends of Laser Applications in Biology and Biomedicine, Heraklion, Crete.*
- 14 **Tsibidis G.D.**\* (2006). Introduction of the use of Confocal and Two Photon Laser Microscopy in the field of Biology. INVITED for oral talk at the Workshop: Advances in Optical Technologies for Environment and Industries. Gagliari-Sardinia, Italy.
- 15 **Tsibidis G.D.**\*, Ripoll, J., Draegenstein K. And Galjart N. (2006). Quantifying Microtubule Polymerisation using feature point tracking and trajectory analysis. *Poster talk (INVITED for oral talk) at the EMBL Summer School on Molecular Imaging, Heidelberg, Germany.*
- 16 Gaze, W., Burroughs N.J., **Tsibidis G.D.**, Wellington E.M.H and Gallagher M.P (2002). Protozoa-bacteria interactions in a model system, *40th Annual Meeting British Section Society of Protozoologists, The Journal of Eukaryotic Microbiology, Bristol, UK.*

**Citation maps (as of March 2<sup>nd</sup> 2026):** Google Scholar



Inclusion in the 'Top 2% of Scientists in the World' (Stanford List) (<https://lnkd.in/dVjv3Xit>)

**Five Most cited research articles**

<b>Research paper</b>	<b>Web of Science</b>	<b>Scopus</b>	<b>Google Scholar</b>
1. <b>Tsibidis G.D.</b> , Barberoglou M., Loukakos P.A., Stratakis E., and Fotakis C., ‘Dynamics of ripple formation on silicon surfaces by ultrashort laser pulses in subablation conditions’, <a href="#">Physical Review B, 86, 115316 (2012)</a> .	264	264	346
2. Stratakis E., Bonse J., Heitz J., Siegel J., <b>Tsibidis G.D.</b> , Skoulas E. Papadopoulos A., Mimidis A., Joel A.-C., Comanns P., Kruger J., Florian C., Fuentes-Edfuf Y., Solis J., Baumgartner W., ‘Laser Engineering of Biomimetic Surfaces’ ( <b>Review Article</b> ), <a href="#">Materials Science and Engineering: R: Reports, 141, 100562 (2020)</a> .	252	267	332
3. <b>Tsibidis G.D.</b> , Fotakis C., and Stratakis E., ‘From ripples to spikes: a hydro-dynamical physical mechanism to interpret femtosecond laser induced self-assembled structures’, <a href="#">Physical Review B (Rapid Communications), 92, 041405 (2015)</a> .	238	246	283
4. Papadopoulos A., Skoulas E., Mimidis A., Perrakis G., Kenanakis G., <b>Tsibidis G.D.</b> , and Stratakis E., ‘Biomimetic omnidirectional anti-reflective glass via ultrafast laser nanostructuring’, <a href="#">Advanced Materials 31, (32), 1901123 (2019)</a> .	143	146	181
5. <b>Tsibidis G.D.*</b> , Skoulas E., Papadopoulos A., and Stratakis E., ‘Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers’, <a href="#">Physical Review B (Rapid Communications) 94, 081305 (2016)</a> .	124	104	162