

Michael Tatarakis CV

Name: TATARAKIS Michael
Nationality: Hellenic
Education: Ph.D. (Physics department, Imperial College, University of London, 1997)
M.Sc. (Physics Department, University of Crete, 1993, 2-year course)
B.Sc. (Physics Department, University of Crete, 1990)
Contact details: Tel: 28310 86302, 2821023036
e-mail: mictat@hmu.gr

h-index (scopus): 44 (google scholar)

ORCID: <https://orcid.org/0000-0003-4285-3784>

SUMMARY

Michael Tatarakis is an active researcher publishing in peer review journals of high impact factors, and he is an Editor and invited referee for many peer review journals (including journals of the American Physical Society, the American Institute of Physics and the Institute of Physics). His **h-index is 45 according to Google Scholar** (<https://scholar.google.gr>) or **41** according to Scopus (<http://www.scopus.com>). He has more than 250 publications in peer review journals, conference proceedings and contributions, among them more than 140 published in peer review journals, which have received more than **10000 citations** (source: google scholar). Michael Tatarakis is **Topical Editor** of the journal High Power Laser Science and Engineering and reviewer in top journals.

CURRENT POSITION(S)

Currently: Professor, Faculty of Engineering/Department of Electronic Engineering, Hellenic Mediterranean University, Grete, Greece

Also: Director of Institute of Plasma Physics & Lasers, University Research Centre, Hellenic Mediterranean University

Also 2005 – present: Honorary Visiting Professor, Faculty of Natural Sciences, Department of Physics, Imperial College London, UK

05.2020 – present: Director of the “Institute of Plasma Physics & Lasers” (IPPL) of the University Research Centre of Hellenic Mediterranean University. IPPL is one of the two access points of the Hellenic National Research Laser Infrastructure HELLAS-CH.

06.2018 – present: Representative of Hellenic Mediterranean University at the General Assembly of the Hellenic Institution of Research & Innovation.

PREVIOUS POSITION(S)

06.2016 – 05.2020: Founder & Director of the “Centre for Plasma Physics & Lasers” (CPPL).

09.2013 – 08.2016: Member of the Research Committee of the Institution

09.2010 – 08.2014: Dean of the School of Applied Sciences

09.2009 – 08.2010: Head of Electronics Division of the Department of Electronics.

09.2009 – 08.2010: Vice president of the Department of Electronics.

09.2008 – 08.2009: Head of Electronics Division of the Department of Electronics.

04.2004 – 08.2008: President of the Department of Electronics.

04.2004 – present: Elected Associate Professor at Department of Electronics, Currently Professor at Department of Electronics Engineering, Hellenic Mediterranean University

09.2003 – 02.2004: lecturer P.D. 407/1980, Technical University of Crete

05.2003 – 08.2003: Research Associate, Technical University of Crete

05.2002 – 04.2003: Marie Curie Return Research Fellow, Technical University of Crete

08.2001 – 03.2002: EPSRC Research Fellow, Department of Physics, Imperial College London

08.1999 – 07.2001: Advanced Marie Curie Research Fellow, Department of Physics, Imperial College London

02.1999 – 08.1999: EPSRC Research Fellow, Department of Physics, Imperial College London

10.1997 – 01.1999: Research Associate, Department of Physics, Imperial College London

EDUCATION

11.1997: PhD, Thesis title: Optical Probing of Dense Z-pinch & Laser Produced Plasmas – Faculty of Natural Sciences, Department of Physics, Imperial College London

11.1993: MSc in Atomic & Molecular Physics, University of Crete, Crete, Greece (2 year course)

Michael Tatarakis CV

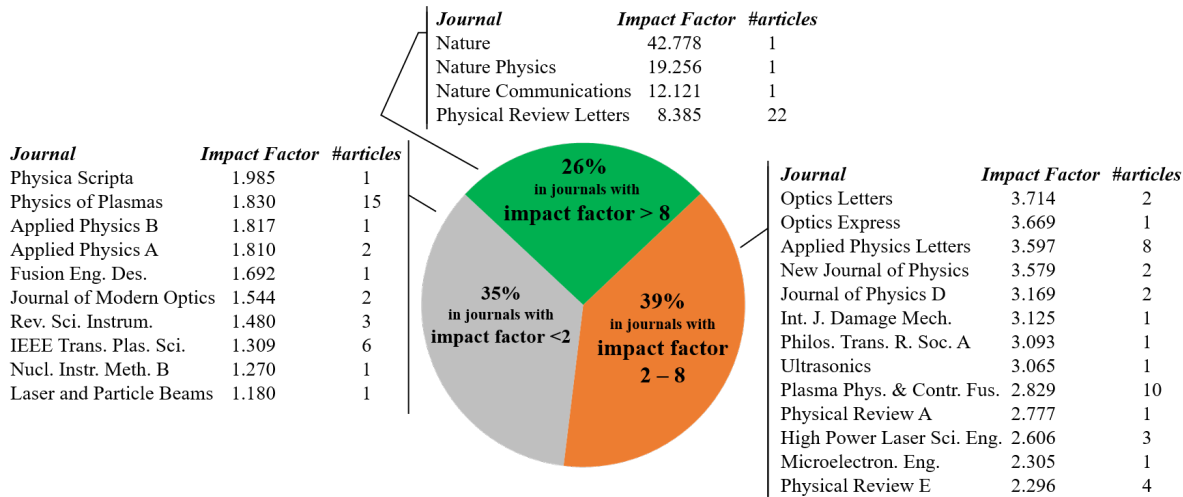
07.1990: BSc in Physics, Department of Physics, University of Crete, Crete, Greece

PUBLICATIONS

He has more than 250 publications in peer review journals, conference proceedings and contributions, among them more than 150 published in peer review journals, which have received more than **10000 citations** (source: google scholar).

Full publication list can be found in <http://www.scopus.com> and in <https://scholar.google.gr> by simple search at authors name "Tatarakis M".

His publications in peer review journals are summarized below:



Some indicative publications:

1. A Skoulakis, G. Koundourakis, A Ciardi, E. Kaselouris, I. Ftilis, J. Chatzakis, M. Bakarezos, N. Vlahakis, N.A. Papadogiannis, **M. Tatarakis** and V. Dimitriou (2022) *Plasma Phys. Control. Fusion* 64 025003
2. “High intensity laser driven secondary radiation sources using the ZEUS 45 TW laser system at the Institute of Plasma Physics and Lasers of the Hellenic Mediterranean University Research Centre”, E. L. Clark, A. Grigoriadis, S. Petrakis, I. Tazes, G. Andrianaki, A. Skoulakis, Y. Orphanos, E. Kaselouris, I. Ftilis, J. Chatzakis, E. Bakarezos, V. Dimitriou, E. P. Benis, N. A. Papadogiannis and **M. Tatarakis**, *High Power Laser Science and Engineering*, Vol. 9, e53 (2021), DOI: 10.1017/hpl.2021.38
3. Petrakis, S., Bakarezos, **M., Tatarakis** et al. Electron quantum path control in high harmonic generation via chirp variation of strong laser pulses. *Sci Rep* 11, 23882 (2021). <https://doi.org/10.1038/s41598-021-03424-3>
4. “Betatron-type laser-plasma x-ray sources generated in multi-electron gas targets”, A Grigoriadis, G Andrianaki, **M Tatarakis**, EP Benis and NA Papadogiannis, *Applied Physics Letters* 118 (13), 131110 (2021) DOI:10.1063/5.0046184
5. “Instability growth mitigation study of a dielectric coated metallic wire in a low current Z-pinch configuration”, E. Kaselouris, G. Tamiolakis, I. Ftilis, A. Skoulakis, V.Dimitriou and **M. Tatarakis**, *Plasma Phys. Control. Fusion* 63, 085010 (2021), DOI:10.1088/1361-6587/ac0112
6. “The importance of the laser pulse-ablator interaction dynamics prior to the ablation plasma phase in ICF studies” E. Kaselouris, I. Ftilis, A. Skoulakis, Y. Orphanos, G. Koundourakis, E.L. Clark, J. Chatzakis, M. Bakarezos, N.A. Papadogiannis, V. Dimitriou and **M. Tatarakis**, *Phil. Trans. R. Soc. A*. DOI:10.1098, *Philosophical Transactions of the Royal Society A* 378 (2184), 20200030 (2020)
7. “A numerical study on laboratory plasma dynamics validated by low current x-pinch experiments” Koundourakis, G., Skoulakis, A., Kaselouris, E., Ftilis, I., Clark, E.L., Chatzakis, J., Bakarezos, M., Vlahakis, N., Papadogiannis, N.A., Dimitriou, V., and **Tatarakis, M.**, (2020) *Plasma Physics and Controlled Fusion*, 62 (12), art. no. 125012 DOI: 10.1088/1361-6587/abbebf
8. “Dynamics of the heat affected zone and induced strains in laser machining below ablation threshold”, Kaselouris, E., Skoulakis, A., Ftilis, I., Orphanos, Y., Tazes, I., Kosma, K., Bakarezos,

Michael Tatarakis CV

9. M., Papadogiannis, N., **Tatarakis, M.**, Dimitriou, V. (2020) IOP Conference Series: Materials Science and Engineering, 916 (1), art. no. 012050, DOI: 10.1088/1757-899X/916/1/012050
10. "Target normal sheath acceleration and laser wakefield acceleration particle-in-cell simulations performance on CPU & GPU architectures for high-power laser systems" Tazes, I., Ong, J.F., Tesileanu, O., Tanaka, K.A., Papadogiannis, N.A., **Tatarakis, M.**, Dimitriou, V. (2020) Plasma Physics and Controlled Fusion, 62 (9), art. no. 094005, DOI: 10.1088/1361-6587/aba17a
11. A study on the influence of laser parameters on laser-assisted machining of Aisi H-13 steel Kaselouris, E., Baroutsos, A., Papadoulis, T., Papadogiannis, N.A., **Tatarakis, M.**, Dimitriou,
12. V. (2020) Key Engineering Materials, 827 KEM, pp. 92-97 10.4028/www.scientific.net/KEM.827.92
13. "Hydrodynamic computational modelling and simulations of collisional shock waves in gas jet targets" Passalidis, S., Ettlinger, O.C., Hicks, G.S., Dover, N.P., Najmudin, Z., Benis, E.P., Kaselouris, E., Papadogiannis, N.A., **Tatarakis, M.**, Dimitriou, V. (2020) High Power Laser Science and Engineering, 8, art. no. e7, DOI: 10.1017/hpl.2020.5
14. "Innovative Education and Training in high power laser plasmas (PowerLaPs) for plasma physics, high power laser-matter interactions and high energy density physics - Theory and experiments", Pasley J, Andrianaki G, Baroutsos A, Batani D... and **Tatarakis M**, High Power Laser Science & Engineering, 7, 23 (2019) DOI: 10.1017/hpl.2019.7
15. "Preliminary investigation on the use of low current pulsed power Z-pinch plasma devices for the study of early stage plasma instabilities", Kaselouris, E., Dimitriou, V., Ftilis, I., Skoulakis, A., Koundourakis, G., Clark, E.L., Chatzakis, J., Bakarezos, M., Nikolos, I.K., Papadogiannis, N.A., and **Tatarakis, M.**, (2018) Plasma Physics and Controlled Fusion, 60 (1), art. no. 014031, DOI: 10.1088/1361-6587/aa8ab0
16. "The influence of the solid to plasma phase transition on the generation of plasma instabilities", Kaselouris, E., Dimitriou, V., Ftilis, I., Skoulakis, A., Koundourakis, G., Clark, E.L., Bakarezos, M., Nikolos, I.K., Papadogiannis, N.A. and **Tatarakis, M.**, (2017) Nature Communications, 8 (1), art. no. 1713. DOI: 10.1038/s41467-017-02000-6
17. "Fast advection of magnetic fields by hot electrons" Willingale, L., Thomas, A.G.R., Nilson, P.M., Kaluza, M.C., Bandyopadhyay, S., Dangor, A.E., Evans, R.G., Fernandes, P., Haines, M.G., Kamperidis, C., Kingham, R.J., Minardi, S., Notley, M., Ridgers, C.P., Rozmus, W., Sherlock, M., **Tatarakis, M.**, Wei, M.S., Najmudin, Z., Krushelnick, K., (2010) Physical Review Letters, 105 (9), art. no. 095001.
18. "Temporally and spatially resolved measurements of multi-megagauss magnetic fields in high intensity laser-produced plasmas" Gopal, A., **Tatarakis, M.**, Beg, F.N., Clark, E.L., Dangor, A.E., Evans, R.G., Norreys, P.A., Wei, M.S., Zepf, M., Krushelnick, K. (2008) Physics of Plasmas, 15 (12), art. no. 122701.
19. "Quantitative two-dimensional shadowgraphic method for high-sensitivity density measurement of under-critical laser plasmas" Gopal, A., Minardi, S., and **Tatarakis, M.** (2007) Optics Letters, 32 (10), pp. 1238-1240
20. "Electron acceleration in cavitated channels formed by a petawatt laser in low-density plasma" Mangles, S.P.D., Walton, B.R., Tzoufras, M., Najmudin, Z., Clarke, R.J., Dangor, A.E., Evans, R.G., Fritzier, S., Gopal, A., Hernandez-Gomez, C., Mori, W.B., Rozmus, W., **Tatarakis, M.**, Thomas, A.G.R., Tsung, F.S., Wei, M.S., Krushelnick, K. (2005) Physical Review Letters, 94 (24), art. no. 245001.
21. "Ion acceleration by collisionless shocks in high-intensity-laser- underdense-plasma interaction" Wei, M.S., Mangles, S.P.D., Najmudin, Z., Wallon, B., Gopal, A., **Tatarakis, M.**, Dangor, A.E., Clark, E.L., Evans, R.G., Fritzier, S., Clarke, R.J., Hernandez-Gomez, C., Neely, D., Mori, W., Tzoufras, M., Krushelnick, K. (2004) Physical Review Letters, 93 (15).
22. "Propagation instabilities of high-intensity laser-produced electron beams" **Tatarakis, M.**, Beg, F.N., Clark, E.L., Dangor, A.E., Edwards, R.D., Evans, R.G., Goldsack, T.J., Ledingham, K.W.D., Norreys, P.A., Sinclair, M.A., Wei, M.-S., Zepf, M., Krushelnick, K., Physical Review Letters, 90 (17), pp. 175001/1-175001/4 (2003).
23. "Measuring huge magnetic fields" **Tatarakis, M.**, Watts, I., Beg, F.N., Clark, E.L., Dangor, A.E., Gopal, A., Haines, M.G., Norreys, P.A., Wagner, U., Wei, M.-S., Zepf, M., Krushelnick, K., , (2002) Nature, 415 (6869), p. 280.

Michael Tatarakis CV

24. “Measurements of ultrastrong magnetic fields during relativistic laser-plasma interactions” **Tatarakis, M.**, Gopal, A., Watts, I., Beg, F.N., Dangor, A.E., Krushelnick, K., Wagner, U., Norreys, P.A., Clark, E.L., Zepf, M., Evans, R.G. (2002) Physics of Plasmas, 9 (5), pp. 2244-2250.
25. “Measurements of the inverse Faraday effect from relativistic laser interactions with an underdense plasma” Najmudin, Z., **Tatarakis, M.**, Pukhov, A., Clark, E.L., Clarke, R.J., Dangor, A.E., Faure, J., Malka, V., Neely, D., Santala, M.I.K., Krushelnick, K. (2001) Physical Review Letters, 87 (21), art. no. 215004, pp. 2150041-2150044.
26. “Energetic heavy-ion and proton generation from ultraintense laser-plasma interactions with solids” Clark, E.L., Krushelnick, K., Zepf, M., Beg, F.N., **Tatarakis, M.**, Machacek, A., Santala, M.I.K., Watts, I., Norreys, P.A., Dangor, A.E., , (2000) Physical Review Letters, 85 (8), pp. 1654-1657.
27. “Measurements of Energetic Proton Transport through Magnetized Plasma from Intense Laser Interactions with Solids” Clark, E.L., Krushelnick, K., Davies, J.R., Zepf, M., **Tatarakis, M.**, Beg, F.N., Machacek, A., Norreys, P.A., Santala, M.I.K., Watts, I., Dangor, A.E. (2000) Physical Review Letters, 84 (4), pp. 670-673.
28. “Measurement of forward Raman scattering and electron acceleration from high-intensity laser plasma interactions at 527 nm” , Najmudin, Z., Allott, R., Amiranoff, F., Clark, E.L., Danson, C.N., Gordon, D.F., Joshi, C., Krushelnick, K., Malka, V., Neely, D., Salvati, M.R., Santala, M.I.K., **Tatarakis, M.**, Dangor, A.E. (2000) IEEE Transactions on Plasma Science, 28 (4), pp. 1084-1089.
29. “Effect of the plasma density scale length on the direction of fast electrons in relativistic laser-solid interactions” Santala, M.I.K., Zepf, M., Watts, I., Beg, F.N., Clark, E., **Tatarakis, M.**, Krushelnick, K., Dangor, A.E., McCanny, T., Spencer, I., Singhal, R.P., Ledingham, K.W.D., Wilks, S.C., Machacek, A.C., Wark, J.S., Allott, R., Clarke, R.J., Norreys, P.A. (2000) Physical Review Letters, 84 (7), pp. 1459-1462. DOI: 10.1103/PhysRevLett.84.1459
30. “Magnetic focusing and trapping of high-intensity laser-generated fast electrons at the rear of solid targets” Davies, J.R., Bell, A.R., and **Tatarakis, M.** (1999) Physical Review E 59 (5), pp. 6032-6036. DOI: 10.1103/PhysRevE.59.6032
31. “Plasma formation on the front and rear of plastic targets due to high-intensity laser-generated fast electrons” **Tatarakis, M.**, Davies, J.R., Lee, P., Norreys, P.A., Kassapakis, N.G., Beg, F.N., Bell, A.R., Haines, M.G., Dangor, A.E., , (1998) Physical Review Letters, 81 (5), pp. 999-1002.
32. “Optical probing of fiber z-pinch plasmas” **Tatarakis, M.**, Aliaga-Rossel, R., Dangor, A.E., Haines, M.G. (1998) Physics of Plasmas, 5 (3), pp. 682-691. DOI: 10.1063/1.872778
33. “Neutron production from picosecond laser irradiation of deuterated targets at intensities of 10^{19} W cm⁻²” Norreys, P.A., Fews, A.P., Beg, F.N., Bell, A.R., Dangor, A.E., Lee, P., Nelson, M.B., Schmidt, H., **Tatarakis, M.**, Cable, M.D., (1998) Plasma Physics and Controlled Fusion, 40 (2), pp. 175-182. DOI: 10.1088/0741-3335/40/2/001
34. “A study of picosecond laser-solid interactions up to 10^{19} W cm⁻²” Beg, F.N., Bell, A.R., Dangor, A.E., Danson, C.N., Fews, A.P., Glinsky, M.E., Hammel, B.A., Lee, P., Norreys, P.A., and **Tatarakis, M.** (1997) Physics of Plasmas, 4 (2), pp. 447-457. DOI: 10.1063/1.872103
35. “X-ray emission from plasmas generated by 450 femtosecond excimer laser pulses”, **Tatarakis, M.**, Beg, F.N., Lee, P., Dangor, A.E., Moustazis, S.D. (1997) Physica Scripta, 55 (6), pp. 651-653. DOI: 10.1088/0031-8949/55/6/003

CONFERENCES/WORKSHOPS/etc.

Michael Tatarakis has been invited in numerous international and national scientific conferences and symposia as invited or plenary speaker as well as to be member of scientific and organization committees of conferences and symposia. Indicatively, only in the last 6 months he has been invited as a invited or as a plenary invited or honorable speaker in more than 20 conferences and symposia.

Michael Tatarakis is Invited Permanent Member of the International Scientific Committee of the prestigious European Conference on Laser Interaction with Matter (ECLIM).

Michael Tatarakis was the Lead Organizer & Chairman of ECLIM 2018, 22-26 October 2018, Rethymno, Crete, Greece.

Collaboration with other Universities & Research organisations

Imperial College London, UK, Rutherford Appleton Laboratory, UK, Queen’s University of Belfast, UK, University of Milano, Bicocca, Italy, University of Bordeaux 1, France, Technical University of Madrid, Spain, Czech Technical University of Prague, Czech Republic, University of Glasgow, UK, University of California,

Michael Tatarakis CV

San Diego, USA, Foundation of Research & Technology Hellas (FORTH), University of Ioannina, Technical University of Crete.

TEACHING ACTIVITIES

1997-present: Teaching of a large number of undergraduate & postgraduate courses (topics include Laser Matter Interactions, Plasma Physics, Optoelectronics, Opto-Acoustics) at Imperial College London, Technical University of Crete, Hellenic Mediterranean University. **Proposer & Director of the international MSc programme “Plasma Physics & Applications -PLAPA”** of the HMU (Evaluated and Funded by the Erasmus Curriculum Development Programme) as re-organised to **Lasers, Plasmas & Applications (LaPIA)** **Proposer & Coordinator of the evaluated International Erasmus Intensive Programmes (IP’s):** 2005-2008: “Optoelectronics, Lasers & Applications” – OLA, 2009- 2012: “Applications of Electronics in Plasma Physics” - APPEPLA, 2013-2015: “An Introduction to High Power Light-Matter Interactions – HIPOLIN, and in Erasmus KA2 actions the project Innovative Education & Training in High Power Laser Plasmas LaPs 2017 – 2019.

SCIENTIFIC ACHIEVEMENTS

✓ *Scientific achievements with very high international impact during the previous years with great effect to the scientific achievements of the last 10 years:*

Prof. Michael Tatarakis has an excellent track record in the field of ultrafast, strong laser matter and plasma interactions, and he is of the **early pioneer experimentalists** in the field [1]. His research achievements to date include very significant highlights and breakthroughs in Physics with a worldwide high scientific impact. These achievements have received distinctive attention by other researchers worldwide (more than **10000** citations¹) as well as by magazines reporting scientific breakthroughs for the broader audience such as Physics Today, Physics World etc. One of the **recent (November 2017)** breakthroughs, published in **Nature Communications** [2], concerned the invention of a **new mechanism** (Electro-Thermo-Mechanical instability – ETM) that seeds the generation of plasma instabilities, and is currently pursued further [3]. This mechanism has great impact not only **in plasma physics and particle acceleration research**, but also in other areas of Physics (e.g. high energy density physics, nuclear physics in hydrodynamics, fusion science). He has demonstrated **the highest generated magnetic field in a laboratory on earth** [4], which has opened new perspectives in science. Such huge magnetic fields have **effects in particle acceleration** [5-6]. He **investigated for the first time** the propagation of high current laser produced electron beams, and it was found that they are subject to severe filamentation and hosing instabilities [7]. He **observed for the first time** axial magnetic fields of the order of 10 MG generated by a circularly polarised laser in an underdense plasmas [8], of fundamental importance for laser plasma accelerators, which stimulated new analytical modelling. He has **demonstrated for first time** that an energetic electron beam produced and accelerated during the high intensity laser solid target interaction is collimated by the self-generated magnetic field and can propagate several hundreds of microns in the solid target [9]. This research **was the first to prove** that the “fast ignition” concept can rely on the collimated propagation of relativistic electrons in a solid and has received special attention worldwide. He has **pioneered** in laser generated secondary sources (harmonics) research and in particular in the study of high order harmonic generation from solids and gaseous targets, and a number of results significant to the scientific community worldwide have been obtained [10]. The physics of the generation of these harmonics and their properties has been of **significant importance in the last decade** [11]. He has **made advances** in the field of dense matter diagnostics with the development of **novel optical probing** (quantitative shadowgraphy) and laser plasma diagnostics [12-13]. Quantitative shadowgraphy is now routinely being used as a standard diagnostic in most laser matter/plasma interactions laboratories worldwide. Using laser probing diagnostics, he made **the first experimental observation** of the generated MHD instabilities and the magnetic fields in dense plasmas [14], opening a whole new scientific view in dense wire plasmas and the growth of MHD instabilities. Finally, he has also made **very significant contributions** to particle generation and acceleration using intense ultrashort laser pulses [15-17].

¹ Source: Google scholar

Michael Tatarakis CV

- [1] F.N. Beg et al, *Physics of Plasmas* **4**, 447 (1997). 473 citations.
- [2] E. Kaselouris et al, *Nature Communications* **8**, 1713 (2017). 19 citations already.
- [3] E. Kaselouris et al, *Plasma Physics and Controlled Fusion* **60**, 014031 (2018).
- [4] M. Tatarakis et al, *Nature* **415**, 280 (2002). 134 citations.
- [5] A. Gopal et al, *Plasma Physics and Controlled Fusion* **55**, 035002 (2013). 10 citations.
- [6] C.A.J. Palmer et al, *Physical Review Letters* **108**, 225002 (2012). 49 citations.
- [7] M. Tatarakis et al, *Physical Review Letters* **90**, 175001 (2003). 104 citations.
- [8] Z. Najmudin et al, *Physical Review Letters* **87**, 215004 (2001). 79 citations.
- [9] M. Tatarakis et al, *Physical Review Letters* **81**, 999 (1998). 134 citations.
- [10] B. Dromey et al, *Nature Physics* **2**, 456 (2006). 274 citations.
- [11] A. Willner et al, *Physical Review Letters* **107**, 175002 (2011). 44 citations.
- [12] A. Gopal et al, *Optics Letters* **32**, 1238 (2007). 28 citations.
- [13] S. Minardi et al, *Optics Letters* **33**, 86 (2008). 69 citations.
- [14] M. Tatarakis et al, *Physics of Plasmas* **5**, 682 (1998). 15 citations.
- [15] M. Zepf et al, *Physical Review Letters* **90**, 064801 (2003). 155 citations.
- [16] E.L. Clark et al, *Physical Review Letters* **84**, 670 (2000). 557 citations.
- [17] K. Krushelnick et al, *Physical Review Letters* **83**, 737 (1999). 137 citations.

✓ *Invited talks & presentations to peer-reviewed, internationally established conferences and international advanced schools:*

Michael Tatarakis has a large number of invited talks & presentations in peer reviewed conferences as well as in international advanced schools. Indicatively, he was an **invited speaker** at the 3rd International Symposium on High Power Laser Science and Engineering (2018, Suzhou, China), and an **invited speaker** at the 2nd Global Summit & Expo on Laser Optics & Photonics (2018, Rome, Italy). He was also a **nominated invited speaker** at the 44th EPS Conference on Plasma Physics (2017, Belfast, Northern Ireland), a **nominated invited lecturer** at the 27th Symposium on the Plasma Physics and Technology (2016, Prague, Czech Republic), an **invited lecturer** at the HiPOLIN Erasmus Intensive School (2014, Rethymno, Greece), an **invited speaker** at the International Conference on Plasma Science and Applications (2013, Singapore), an **invited lecturer** at the APPEPLA Erasmus Intensive School (2012, Rethymno, Greece), an **invited speaker** at the SPIE Optics & Optoelectronics International Symposium (2011), an **invited lecturer** at the International Workshop & Summer School “*Towards Fusion Energy*” (2011, Kudowa Zdrój, Poland), an **invited speaker** at the 1st European Erasmus Intensive Programme on “*Propagation of E.M. waves in magnetised plasmas*” (2010, Rethymno, Greece), an **invited lecturer** at the International School of Quantum Electronics (2009, Erice, Italy), an **invited speaker** at the 6th International Conference on Inertial Fusion Sciences and Applications (2009, San Francisco, USA), an **invited speaker** at the ULIS 2009 Conference (2009, Frascati, Italy) an **invited speaker** at the 10th International Workshop on the Fast Ignition of Fusion targets (Chania, Greece), an **invited speaker** at the 4th International Conference on High Energy Density Laboratory Astrophysics (Ann Arbor, USA), an **invited speaker** at the XXIV International Conference LASERS (2001, Tucson, USA), and an **invited speaker** at the 43rd American Physical Society Conference on Plasma Physics (2001, Long Beach, USA).

✓ *Distinctions, prizes & awards*

Representative distinctions and prizes of Michael Tatarakis for his academic activities and research, include the addition of the (2017) *Nature Communications*, 8 (1), art. no. 1713 at the highlighted research collection of the journal, the “Best Practice” award (2016) to the “*National Research Infrastructure for HiPER*” project of which he was the Coordinator, the Honorary Invited Plenary Lecture at the prestigious international conference «27th Symposium on Plasma Physics and Technology» in June 2016 in Prague, his role as an **invited member** of the Project Management Committee and Coordinator of the “Basic Science” of the HiPER programme (2008-today) and Coordinator of the Hellenic Network for HiPER, the **First Erasmus Prize** on the dissemination of results (Anniversary Conference SSF / Erasmus IP, 2013), the **First National Prize in Natural Sciences** awarded by the **Ministry of Education** after evaluation by the **National Council for Research & Technology** (2012), among all Hellenic Higher Education Institutions, for the “*Research on laser fusion of Hydrogen aiming at producing clean energy*”), and the honor and distinction to be the **Main Invited Speaker at the HiPER’s opening ceremony** (2008, Science Museum London). He has received the “success story” flag award for the Marie Curie ToK research Fellowship for the development of a **Centre of**

Michael Tatarakis CV

Excellence via the transfer of knowledge (EU 014423-DAIX). He has received a number of individual **EU grants** (**Marie Curie Return Individual Research Fellowship**, FU05-CT-2002-50501, 2002-2003, **Marie Curie Individual Research Fellowship**, ERB 5004-CT98-5010, 1999-2001), and **UK Engineering and Physical Sciences Research Council (EPSRC) grants** for which he was either the proposer or main researcher (“*Fast electron transport into thick solid targets in high intensity laser-solid interactions*”- ERB 5004-CT98-5010 , 1999-2001, “*Relativistic Particle generation from Ultra-Intense Laser Plasma interactions*”- GR/R23909/01, 2001-2003, “*Magnetic field generation and fast electron propagation in solids using relativistic laser irradiation*” GR/M52564, 2000-2003, “*Laser Plasma Wave generation and electron acceleration*”, GR/L79151/01, 1998-1999). Finally, he has received the award for the **Best Contributed Paper** in the 23rd Annual Plasma Physics Conference (1996), an **EU Scholarship** for his PhD studies at Imperial College, London (1993-1997), as well as **Merit Scholarships** during his MSc (1991-1993) and BSc (Hons) studies at the University of Crete (1988-1990).