Σύντομο Βιογραφικο Σημειωμα του
ΑΝΔΡΕΑ Π. ΘΕΟΔΩΡΑΚΑΚΟΥ

Προσωπικά Στοιχεία

Ημερομηνία γέννησης:	4 Φεβρουαρίου 1970
Διεύθυνση εργασίας:	Τμήμα Μηχανολόγων Μηχανικών, Σχολή Μηχανικών, Πανεπιστημιούπολη Αρχαίου Ελαιώνα, Πανεπιστήμιο Δυτικής Αττικής (Πα.Δ.Α.), Π. Ράλλη & Θηβών 250, Αιγάλεω, ΤΚ 12241
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Εκπαίδευση

1993 - 1998 ***Διδακτορικό στον Τομέα Ρευστών, Εθνικό Μετσόβιο Πολυτεχνείο (Ε.Μ.Π.).***
Τίτλος διδακτορικής διατριβής: "Αριθμητική διερεύνηση των φάσεων εισαγωγής και συμπίεσης σε παλινδρομικές μηχανές εσωτερικής καύσης"

1987 - 1992 ***5-ετές Δίπλωμα Μηχανολόγου Μηχανικού, Εθνικό Μετσόβιο Πολυτεχνείο (Ε.Μ.Π.). (βαθμός 7.63/10)***
Ενεργειακή κατεύθυνση.
Τίτλος διπλωματικής εργασίας: "Μελέτη και αριθμητική επίλυση του πεδίου ροής μέσα σε κύλινδρο εμβολοφόρας μηχανής εσωτερικής καύσης"

1981 - 1987 ***Δευτεροβάθμια Εκπαίδευση***
18ο Γυμνάσιο και Λύκειο Αθηνών

Επαγγελματικοί φορείς

1995 - Μέλος ΤΕΕ (Τεχνικού Επιμελητηρίου Ελλάδας)

2001 - Μέλος SAE (Society of Automotive Engineers)

Γλώσσες

Ελληνικά: Μητρική

Αγγλικά: Άριστα

Επαγγελματική απασχόληση

1992 – 1998	Συμμετοχή σε ερευνητικά προγράμματα, Τομέας Ρευστών, Εθνικό Μετσόβιο Πολυτεχνείο (Ε.Μ.Π., παράλληλα με την εκπόνηση του διδακτορικού).
1998 – 1999	18-μηνη θητεία στον Ελληνικό Στρατό, στρατός ξηράς, σώμα Ε.Π..
1999 – 2003	Ενασχόληση με ερευνητικά προγράμματα, Τομέας Ρευστών, Εθνικό Μετσόβιο Πολυτεχνείο (Ε.Μ.Π.).
1999 – 2012	Ιδρυτικό μέλος και διευθύνων της εταιρίας *Fluid Research O.E.*.
2006 – 2012	Ωρομίσθιος επιστημονικός συνεργάτης στο Τμήμα Μηχανολόγων Μηχανικών ΤΕΙ Πειραιά.
2010 – 2012	Επιστημονικός συνεργάτης (research fellow) στο City University of London (UK).
2012 – 2017	Επίκουρος καθηγητής στο Τμήμα Μηχανολόγων Μηχανικών ΑΕΙ Πειραιά Τ.Τ. (πρώην ΤΕΙ Πειραιά).
2017 –	Αναπληρωτής καθηγητής στο Τμήμα Μηχανολόγων Μηχανικών στο Πανεπιστήμιο Δυτικής Αττικής (πρώην ΑΕΙ Πειραιά Τ.Τ.)

Διδασκαλία, προπτυχιακά και μεταπτυχιακά

Τμήμα Μηχανολόγων Μηχανικών, ΕΜΠ

1996 – 1997	Μαθήματα AutoCAD στα πλαίσια του μαθήματος “Εισαγωγή στην Προκαταρτική Διαστασιολόγηση Αεροσκάφους”
1997	Ασκήσεις στο μάθημα “Υπολογιστικής Ρευστομηχανικής”
1996 – 2002	Συμμετοχή στην επίβλεψη διπλωματικών εργασιών.
1997 – 2002	Συμμετοχή στην εκπόνηση διδακτορικών εργασιών.

Τμήμα Μηχανολόγων Μηχανικών, Πανεπιστήμιο Δυτικής Αττικής
(πρώην ΑΕΙ Πειραιά Τ.Τ., πρώην ΤΕΙ Πειραιά)

2006 –	Μηχανές Εσωτερικής Καύσης Ι (θεωρία και εργαστήριο)
2006 –	Μηχανές Εσωτερικής Καύσης ΙΙ (ή με παλαιότερη ονομασία Σύγχρονες Τεχνολογίες ΜΕΚ, θεωρία και εργαστήριο (μέχρι το 2018 που καταργήθηκε το εργαστήριο))
2016 – 2018	Εργαστήριο βιομηχανικών αυτοματισμών
2021 – 2022	Μηχανική των ρευστών ΙΙ
2020 –	ΠΜΣ “*Έρευνα στη θερμορευστομηχανική*”: Υπολογιστική ρευστομηχανική
2020 –	ΠΜΣ “*Έρευνα στη θερμορευστομηχανική*”: Προσομοιώσεις φαινομένων μεταφοράς
2021 –	ΠΜΣ “*Έρευνα στη θερμορευστομηχανική*”: Διαφορικές εξισώσεις φαινομένων μεταφοράς

City University London
School of Mathematics, Computer Science and Engineering

2010 – 2012	MSc in Mechanical Engineering, Module MEM409 ((Vehicle Powertrains).

Κύριο διοικητικό έργο **(Πανεπιστήμιο Δυτικής Αττικής και πρώην ΑΕΙ Πειραιά ΤΤ)**

2012 – 2019	Υπεύθυνος τμήματος για την κατάρτιση ωρολογίων προγραμμάτων εξαμήνων, κατάρτιση προγραμμάτων εξεταστικών, κατανομής αιθουσών, κατανομή επιτηρητών εξεταστικών, κλπ..
2019 -	Διευθυντής του θεσμοθετημένου εργαστηρίου του Τμήματος με τίτλο "*Εργαστήριο Ρευστοθερμικών Συστημάτων - ΕΡΘΣ*".
2020 – 2021	Μέλος τριμελούς ομάδας συγγραφής οδηγού σπουδών τμήματος.
2022	Μέλος τριμελούς ομάδας συγγραφής οδηγού σπουδών τμήματος και ιστοσελίδων τμήματος στα αγγλικά

Συμμετοχή σε ερευνητικά προγράμματα
(Εθνικό Μετσόβιο Πολυτεχνείο, με χρηματοδότηση από την Ε.Ε.)

1. JOULE 1, JOUE0083: Spray aerodynamic interaction for improved efficiency and reduced carbon dioxide emissions.
2. NTUA Research Contract No. 197696, Ford Motor Company Ltd, “The flow and droplet distribution in a 4 - valve port injected gasoline engine during induction and compression strokes”.
3. JOULE 2, JOU20330: Energy efficiency in transport including suitable substitutes for conventional fuels.
4. JOULE 2, JOU20370: Improving techniques for statistical and physical modelling of wind resource in complex terrain.
5. 7210-CA/702, Steel Research Work program: Improvement of Cast Product Quality by Using Results From Mathematical and Physical Modeling of the Continuous Casting Process.
6. 4th FWP, JOF3970028: Spray Formation for Direct Injection Engines.
7. 4th FWP, JOF3970031: Direct Injection Stratified Charge Engine Technology For Europe.
8. 4th FWP, ENK6-2000-00051: Droplet-wall-interaction phenomena of relevance to direct injection gasoline engines (DWDIE).

Συμμετοχή σε ερευνητικά προγράμματα
(Σαν ιδιώτης ερευνητής, με χρηματοδότηση από βιομηχανίες ή Ελληνικό δημόσιο)

1. 1998, Ford Motor Company, Aachen, Germany: Development of 1-D Fuel Injection Equipment Model
2. 2000, Rokas AE, Greece: CFD Simulation of wind distribution over terrains for identification of optimum location for wind-turbines park
3. 2001-2003, Yamaha Motor Company, Japan: Flow and spray simulation in gasoline direct injection motorcycle engines
4. 2002-2003, Siemens Automotive VDO, Italy: Flow simulation in outwards-opening pintle piezo injector nozzles
5. 2003-2004: Toyota Motor Engineering and Manufacturing Europe, Belgium: Flow simulation in automotive Diesel fuel injector nozzles
6. 2005, Daimler-Chrysler AG, Germany: Optimisation of the design of a cavitating Diesel fuel valve
7. 2004-2005, Toyota Motor Engineering and Manufacturing Europe, Belgium: Development of CFD methodology for droplet formation and wall detachment in fuel cells.
8. 2003-2005, Greek-State Research Contract: Development of wind atlas for the Viotia and Fthiotida Prefectures.
9. 2005-2006, Caterpillar Fuel Systems, USA: Simulation of cavitating flow and surface erosion in heavy-duty Diesel injector nozzles
10. 2005-2007: Greek State Research Contract: Development and validation of system software for the prediction of the short-time-scale energy production, demand and distribution.
11. 2006-2008, Greek-State research Contract: Numerical simulation of flow inside porous materials used with heat exchangers and fuel cells.
12. 2006, Woodward Diesel Systems, UK: Simulation of cavitation and erosion damage in a low pressure fuel delivery pump.

13. 2006-2007, Delphi Diesel Systems, UK: Distribution of cavitation model for Diesel injector nozzles.
14. 2006-2008, Toyota Motor Europe, Belgium: Simulation of aerodynamic behavior of flapping wings mimicking the bee flight.
15. 2008-2010, Toyota Motor Europe, Belgium: Simulation of electrochemistry and thermal heating of the Prius hybrid vehicle battery.
16. 2006-2008, The Heart Centre, Greece: Flow simulation in coronary flow arteries.
17. 2008, Delphi Diesel Systems, UK: Simulation of cavitation in automotive Diesel injector nozzles.
18. 2008, Caterpillar, UK: Simulation of cavitation and erosion in heavy-duty Diesel injector nozzles.
19. 2009, RWE, Germany: Simulation of thermal pollution in the Porto Romano coastal gulf.
20. 2010, The Heart Centre, Greece: Flow simulation in coronary arteries with stent.
21. 2011, Caterpillar Fuel Systems, USA: Simulation of cavitating flow and surface erosion in heavy-duty Diesel injector nozzles
22. 2010-2012, Delphi Diesel Systems, UK: Simulation of cavitation in automotive Diesel injector nozzles.

Συμμετοχή σε ερευνητικά προγράμματα (Πανεπιστήμιο Δυτικής Αττικής και πρώην ΑΕΙ Πειραιά ΤΤ)

1. 2015-2016, Έργο «Υπηρεσίες υποστήριξης εκπαίδευσης συνεργείων CNG», χρηματοδότηση από ΔΕΠΑ.
2. 2020-2021, ΕΣΠΑ, Ανάπτυξη Ανθρώπινου Δυναμικού, Εκπαίδευση και Δια Βίου Μάθηση, έργο «Μαγνητική οδήγηση νανοσωματιδίων σε δίκτυα πραγματικών αρτηριών του ανθρωπίνου σώματος».

Κύριοι τομείς εξειδίκευσης - έρευνας

- Μηχανές εσωτερικής καύσης.
- Υπολογιστική Ρευστοδυναμική (Computational Fluid Dynamics – CFD). Μέθοδοι και εργαλεία προσομοίωσης ρευστομηχανικών και θερμορευστομηχανικών διεργασιών.
- Ροές βιολογικού ενδιαφέροντος.

Συγγραφικό έργο, αναφορές, πατέντες, διακρίσεις, κλπ.

Βιβλία – επιμέλεια:

1. Βασικές Αρχές Μηχανών Εσωτερικής Καύσης, J. B. Heywood, 2η Έκδοση, μετάφραση και επιστημονική επιμέλεια.

Δημοσιεύσεις σε Διεθνή Περιοδικά: 44 (οι τίτλοι στο παράρτημα)

Δημοσιεύσεις σε Διεθνή Συνέδρια: 36 (οι τίτλοι στο παράρτημα)

Δημοσιεύσεις σε Ελληνικά Συνέδρια: 4 (οι τίτλοι στο παράρτημα)

Εργασίες μετά από πρόσκληση:

1. Gavaises M., Strotos G., *Theodorakakos A.* and Bergeles G., "Cooling effectiveness of water droplets falling on a flat plate", *Invited paper*, *DITICE workshop* on drop/wall interaction: Industrial applications, Experiments and Modelling, University of Bergamo, Italy, May 2006.
2. Gavaises M., Spathopoulou M and *Theodorakakos A.,* "A hybrid VOF – Lagrange model for the dense spray simulation", Invited paper, DIPSI workshop Droplet Impact Phenomena & Spray Investigations, University of Bergamo, Italy, May 2009.

Διακρίσεις Εργασιών:

1. Η Εφαρμογή των ΑΠΕ, Πρακτικά 3ου Εθνικού Συνεδρίου, RENES, βραβείο καλύτερου poster για την εργασία: Περιβολάρης Ι., *Θεοδωρακάκος Α.*, Αλαφούζος Β., (2005), "Συμβολή της Μικροκλιματικής Ανάλυσης στην Εκτίμηση των Μακροχρόνιων Χαρακτηριστικών του Ανέμου σε Σύνθετη Τοπογραφία".
2. IMechE 2007 PE Publishing Award by the Editorial Board for publication: Tonini S., Gavaises M., Arcoumanis C., *Theodorakakos A.* and Kometani S., (2007), "Multi-component fuel evaporation and its effect on spray development air-fuel mixing in a direct injection gasoline engine", Proceeding of IMechE, Part D, Journal of Automobile Engineering, volume 221, issue 10, pp 1321–1342.
3. ICDDNBEA 2021: XV. International Conference on Drug Delivery Nanosystems for Biomedical Engineering Applications, International Research Conference Certificate of Best Paper Award, for paper: Karvelas E.G., Liosis C., *Theodorakakos A.*, Karakasidis T. E., (2021), "An optimized method for 3D magnetic navigation of nanoparticles inside human arteries".

Εταιροαναφορές και σχετικοί δείκτες: (13/10/2023)

Scopus εταιροαναφορές:	1779
Scopus h-index:	24
Google scholar citations:	2994
Google scholar h-index:	28
Google scholar i10-index:	43

Πατέντες:

1. Methods of Predicting Cavitation Damage, Caterpillar, March 2011, Stockner Alan, Ibrahim Daniel, Gavaises Manolis, *Theodorakakos Andrea*s, US Patent Office US7912687B2, WIPO (PCT), WO2008085276A3.

Παράρτημα

Δημοσιεύσεις σε Διεθνή Περιοδικά:

1. Theodorakakos A., (2023), "Numerical Study of Different Steady-State Flow Rigs for the Tumble Motion Characterization of a Four-Valve Cylinder Head", CFD Letters 15, Issue 9 (2023) 18-31.
2. Karvelas E.G., Liosis C., *Theodorakakos A.*, Sarris I, Karakasidis T. E., (2021), "An Optimized Method for 3D Magnetic Navigation of Nanoparticles inside Human Arteries", Fluids 2021, 6(3), 97.
3. Karvelas E.G., Liosis C., *Theodorakakos A.*, Karakasidis T. E., (2021), "An optimized method for 3D magnetic navigation of nanoparticles inside human arteries", International Journal of Biomedical and Biological Engineering Vol:15, No:1, 2021.
4. Koukouvinis, P., Strotos, G., Zeng, Q., Gonzalez-Avila, S.R., *Theodorakakos, A.*, Gavaises, M., Ohl, C.-D., (2018), "Parametric Investigations of the Induced Shear Stress by a Laser-Generated Bubble", (2018) Langmuir, 34 (22), pp. 6428-6442.
5. Kopanidis A., Pantos I., Alexopoulos N., *Theodorakakos A.*, Eustathopoulos E., Katritsis D. (2015), "Aortic Flow Patterns After Simulated Implantation of Transcatheter Aortic Valves", Hellenic J Cardiol 2015; 56: 418-428.
6. Kopanidis A., Pantos I., *Theodorakakos A.*, Tzanalaidou E., Katritsis D. (2015), "Fractional flow reserve derived from conventional coronary angiograms and computational fluid dynamics", Int. J. of Cardiology. 2015;190:187-189.
7. Strotos G., Koukouvinis P., *Theodorakakos A.*, Gavaises M., Bergeles G., (2015), "Transient heating effects in high pressure Diesel injector nozzles", Int. J. Heat and Fluid Flow 17, 130 - 138.
8. *Theodorakakos A.*, Strotos G., Mitroglou N., Atkins C., Gavaises M., (2014), "Friction-induced heating in nozzle hole micro-channels under extreme fuel pressurisation", Fuel 123 143-150.
9. Katritsis D. G, *Theodorakakos A.*, Pantos I., Gavaises M., Karcanias N., Efstathopoulos E. P., (2012), "Flow Patterns at Stented Coronary Bifurcations Computational Fluid Dynamics Analysis", Circ Cardiovasc Interv. 2012;5:530-539.
10. Strotos G., Gavaises M., *Theodorakakos A.* and Bergeles G., (2011), "Numerical investigation of the evaporation of two-component fuel droplets', Fuel 90 1492-1507.
11. Nikolopoulos N., Strotos G., Nikas K. S., *Theodorakakos A.*, Gavaises M., Marengo M., and Cossali G. E., (2011), "Single droplet impacts onto deposited drops. Numerical analysis and comparison", Atomization and Sprays 20(11), pp. 935-953.
12. Strotos G., Aleksis G., Gavaises M., Nikas K-S., Nikolopoulos N. and *Theodorakakos A.*, (2011), "Non-dimensionalisation parameters for predicting the cooling effectiveness of droplets impinging on moderate temperature solid surfaces' Int. J of Thermal Sciences 50 698-711.
13. Nikolopoulos N., Strotos G., Nikas K. S., Gavaises M., *Theodorakakos A.*, Marengo M., and Cossali G. E., (2010), "Experimental investigation of a single droplet impact onto a sessile drop", Atomization and Sprays 20, pp. 909-922.
14. Kopanidis A., *Theodorakakos A.*, Gavaises E., and Bouris D., (2010), "3D Pore Scale 3D Modelling of Heat and Mass Transfer in the Gas Diffusion Layer and Cathode Channel of a PEM Fuel Cell", Int. J of Thermal Sciences 50 456-467.
15. Kopanidis A, *Theodorakakos A*., Gavaises E., and Bouris D., (2010), "3D numerical simulation of flow and conjugate heat transfer through a pore scale model of high porosity open cell metal foam", Int. J. Heat and Mass Transfer, 53, pp. 2539-2550.
16. D. Katritsis, *A. Theodorakakos*, I. Pantos, A. Andriotis, E. P. Efstathopoulos, G. Siontis, N. Karcanias, S. Redwood and M. Gavaises, (2010) "Vortex formation and recirculation zones in left anterior descending artery stenosis: computational fluid dynamics analysis", Phys. Med. Biol., 55, pp. 1395 – 1411.

17. Tonini S., Gavaises M., *Theodorakakos A*. and Cossali G.E., (2010) “Numerical Investigation of Multiple Injection on the Development of high-pressure Diesel Sprays”, Proc. IMechE, Part D: J. Automobile Engineering, 2010, 224 (D1), 125-141. DOI 10.1243/09544070JAUTO1083.
18. Spathopoulou M., Gavaises M., *Theodorakakos A*. and Yanagihara H., (2009) “Formation and development of wall liquid films during impaction of gasoline fuel sprays”, Atomization and Sprays 19 (8), pp. 701-726.
19. Nikolopoulos N., *Theodorakakos A*. and Bergeles G., (2009), “Off-centre binary collision of droplets: A numerical investigation”, Int. J. of Heat and Mass Transfer, 52, pp. 4160-4174.
20. Gavaises M., Andriotis A., Papoulias D., Mitroglou N. and Theodorakakos A., (2009) “Characterization of string cavitation in large-scale Diesel nozzles with tapered holes”, Physics of Fluids, 21, Issue 5.
21. Tonini S., Gavaises M. and *Theodorakakos A*., (2009), “The role of droplet fragmentation in high pressure evaporating Diesel sprays” Int. J. of Thermal Sciences, 48 (3), 554 – 572.
22. Giannadakis E., Papoulias D., Gavaises M. and *Theodorakakos A*. (2008) “Simulation of Cavitation in outwards opening pintle injectors”, Proc. IMechE, Part D, 222, 1895-1910.
23. Strotos G., Gavaises M., *Theodorakakos A*. and Bergeles G., (2008), “Numerical investigation of the cooling effectiveness of a droplet impinging on a heated surface”, Int J Heat and Mass Transfer, 51, 4728-4742.
24. *Theodorakakos A*., Gavaises M., Andriotis A., Zifan A., Liatsis P., Pantos I., Efstathopoulos E. and Katritsis D., (2008), “Simulation of Cardiac Motion on non-Newtonian, Pulsating Flow Development in the Human Left Anterior Descending Coronary Artery”, Phys. Med. Biol. 53, 4875-4892.
25. Tonini S., Gavaises M. and *Theodorakakos A*., (2008), “Modelling of high-pressure dense Diesel sprays with adaptive local grid refinement”, Int J Heat and Fluid Flow, 29, pp. 427-448.
26. Strotos G., Gavaises M., *Theodorakakos A*. and Bergeles G., (2008), “Numerical Investigation on the Evaporation of Droplets Depositing on Heated Surfaces at Low Weber Numbers”, Int. J. of Heat and Mass Transfer, 51, pp. 1516-1529.
27. Andriotis A., Zifan A., Gavaises M., Liatsis P., Pantos I., *Theodorakakos A*., Efstathopoulos E. and Katritsis D., (2008), “A New Method of Three-dimensional Coronary Artery Reconstruction From X-Ray Angiography: Validation Against a Virtual Phantom and Multislice Computed Tomography”, Catheterization and Cardiovascular Interventions, 71, pp. 28-43.
28. Tonini S., Gavaises M., Arcoumanis C., *Theodorakakos A*. and Kometani S., (2007), “Multi-component fuel evaporation and its effect on spray development air-fuel mixing in a direct injection gasoline engines”, Proc. IMechE, Part D, Journal of Automobile Engineering, volume 221, issue 10, pp 1321–1342.
29. Nikolopoulos N., *Theodorakakos A*. and Bergeles G., (2007), “Three – dimensional numerical investigation of a droplet impinging normally onto a wall film”, J. Comput. Phys, 225, pp. 322-341.
30. Nikolopoulos N., *Theodorakakos A*. and Bergeles G., (2007), “A numerical investigation of the evaporation process of a liquid droplet impinging onto a hot substrate”, Int. J. of Heat and Mass Flow, 50, pp. 303-319.
31. Gavaises M., Tonini S., Marchi A., *Theodorakakos A*., Bouri D. and Matteucci L., (2006) “Modelling of internal and near-nozzle flow of pintle-type outwards opening gasoline piezo-injectors”, Int. J. Engine Research, 7, No 5, pp 381-397.
32. *Theodorakakos A*., Ous T., Gavaises M., Nouri J.M., Nikolopoulos N. and Yanagihara H., (2006), “Dynamics of water droplets detached from porous surfaces of relevance to PEM fuel cells”, J. of Colloids and Interface Science, 300, pp. 673 - 687.
33. Petropoulou S., Gavaises M. and *Theodorakakos A*., (2006), “An Adjoint Method for Hole Cavitating Control through Inverse Nozzle Design”, SAE Transactions Journal of Engines, 115-3, pp. 505-513, No. 2006-01-0892, 2006.
34. Petropoulou S., Gavaises M. and *Theodorakakos A*., (2006) “Adjoint method for controlled cavitation Inverse nozzle design”, Int. J. Automotive Technology, 7, No. 3, pp. 283-288.
35. Nikolopoulos N., *Theodorakakos A*. and Bergeles G., (2005), “Normal Impingement of a Droplet onto a Wall Film: A Numerical Investigation”, Int. J. of Heat and Fluid Flow, 26, pp. 119-132.

36. *Theodorakakos A*. and Bergeles G., (2004), “Simulation of Sharp Gas-Liquid Interface using VOF Method an Adaptive Grid Local Refinement around the Interface”, Int. J. for Numerical Methods in Fluids, 45, pp. 421-439.
37. Gavaises M., Arcoumanis C., Choi Y. S. and *Theodorakakos A*., (2004), “Nozzle flow and spray characteristics from VCO diesel injector nozzles”, Selected Papers from THIESEL 2002 Conference on Thermo- and Fluid-Dynamic Processes in Diesel Engines, Whitelaw et al (eds), pp 31-48, Springel Verlag.
38. *Theodorakakos A*. and Bergeles G., (2001), “A Telescopic Local Grid Refinement technique for Wind Flow Simulation over Complex Terrain”, Wind Energy, 4, pp. 77-98.
39. Panaras G. A., *Theodorakakos A*. and Bergeles G., (1998), “Numerical investigation of the Free Surface in a Continuous Steel Casting Mold Water Model”, Metallurgical and Materials Transactions B, 29B, pp. 1117 - 1126.
40. *Theodorakakos A*. and Bergeles G., (1998), “Numerical investigation of the Interface in a Continuous Steel Casting Mold Water Model”, Metallurgical and Materials Transactions B, 29B, pp. 1321 - 1327.
41. *Theodorakakos A*. and Bergeles G., (1997), “Numerical investigation of the flow inside a 4-X model diesel engine”, Entropie no. 200, pp. 53 - 63.
42. Gavaises M., *Theodorakakos A*., Bergeles G. and Brenn G., (1996), “Evaluation of the effect of droplet collisions on spray mixing”, Proc. IMechE, Part C, 210, pp. 465 - 475.
43. Gavaises M., *Theodorakakos A*. and Bergeles G., (1996), “Modeling wall impaction of diesel sprays”, Int. J. Heat and Fluid Flow 17, pp. 130 - 138.
44. *Theodorakakos A*. and Bergeles G., (1993), “Predictions of the in - cylinder fluid motion of a motored internal combustion engine”, Entropie no. 174/175, pp. 7 - 14.

<u>Δημοσιεύσεις σε Διεθνή Συνέδρια (με κρίση):</u>

1. Karvelas E.G., Liosis C., *Theodorakakos A.*, Karakasidis T. E., (2021), “An optimized method for 3D magnetic navigation of nanoparticles inside human arteries”, XV. International Conference on Drug Delivery Nanosystems for Biomedical Engineering ApplicationsRome Italy Jan 18-19, 2021, Part VI.
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