

Production scientifique

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A Articles dans des revues avec comité de lecture

30. I. Alazzam, N. Aît-Mouheeb, Y. Knapp, O. Boiron, Biofouling in Milli-Labyrinth Channels of Drip Irrigation Systems Using Reclaimed Wastewater: A Review of Optical Methods and Numerical Modelling, (2026) *Journal of Environmental Management*, **397**:128377, doi.org
29. R. Allais, V. Espinas, A. Capart, A. Da Silva, O. Boiron, Design and characterisation of intervertebral disc mimicking phantoms for photoacoustic imaging, (2026) *Photoacoustics*, **47**, doi.org
28. A. Capart, R. Allais, O. Boiron, A. Da Silva, Quantitative Photo-Acoustic Imaging based on data normalisation : application to the reconstruction of the opto-mechanical properties of the intervertebral disc, (2025) *Biomed. Phys. Eng. Express*, **11**(6), doi.org
27. J. Petit, H. Dallagi, S. Mas Garcia; R. Bendoula; O. Boiron; N. Ait-Mouheeb. Revealing Hydrodynamic Key Factors in Dripper Clogging: A Coupled Optical Coherence Tomography and Numerical Milli-Fluidic Simulation. (2025) *Biosystems Engineering*, **257**, doi.org
26. Garzon Dasgupta AK, Strassel C, Pongerard A, Mallo L, Michel A, Lanza F, Boiron O, Knapp Y, (2025), Uniform impact on individual megakaryocytes is essential for efficient in vitro platelet production, *Scientific report*, **15**:1809, doi.org
25. Chevet E, Boiron O., Anselmet F. (2024), Modeling of air pollution due to marine traffic in Marseille, *Atmospheric environment*, **329**, 120542/1-15, doi.org
24. Dallagi H., Ait-Mouheeb N., Soric A., Boiron O., (2024), Simulation of the flow characteristics of a labyrinth milli-channel used in drip irrigation, *Biosystems eng.*, **239**, pp 114-129, doi.org
23. Pongérard A., Mallo L., Do Sacramento V., Boiron O., *et al* (2023), Development of an efficient, ready to use, blood platelet-release device based on two new flow regime parameters: the periodic hydrodynamic loading and the shear stress accumulation, *New biotechnology*, **77**, pp 68-79. doi.org
22. Allais, R., Capart A., Da Silva A., Boiron O., Intervertebral centres of rotation locations during lateral bending and axial rotation: new biomechanical insights,(2023), *Scientific Reports*, **13**(3172), doi.org
21. Capart A., Wojack J., Allais R., Ghiss M., Boiron O., Da Silva A. (2022), Quantitative photoacoustic reconstruction of the optical properties of intervertebral discs using gradient descent scheme, *Photonics*, **9**(2), 116, doi.org
20. Chetoui M., Boiron O., Ghiss M., Dogui A., Deplano V. (2019), Assessment of intervertebral disc degeneration-related properties using finite element models based on ρ_H -weighted MRI data, *Biomech. and Modeling in Mechanobiology*, Vol. 18 Issue 1, 17-28, doi.org
19. Boufi M., Guivier-Curien C., Loundou A.D., Deplano V., Boiron O., Chaumoitre K., Gariboldi V., Alimi Y. (2017), Morphological analysis of healthy aortic arch. *Europ. Journal of Vascular and Endovascular surgery*, **53-5**, 663-670, doi.org
18. Deplano V., Boufi M., Boiron O., Guivier-Curien C., Alimi Y., Bertrand E. (2016), Biaxial tensile tests of the porcine ascending aorta. *Journal of Biomechanics*, **49**, 2031-2037
17. Ghiss, M., Giannesini, B., Tropiano, P. , Tourki, Z., Boiron, O. (2016). Quantitative MRI water content mapping of porcine intervertebral disc during axial compression. *Computer Methods in Biomechanics and Biomedical Engineering*, **19-10**, 1079-1088, doi.org
16. Boufi, M., Guivier-Curien, C., Dona, B., Loundou, A., Deplano, V., Boiron, O., Hartung, O., Alimi, Y. (2016), Risk factors analysis for the mal-positioning of thoracic aortic stent-grafts. *European Journal of Vascular and Endovascular Surgery*, **52-1**, 56-63, doi.org

15. Scheinherr, A., Bailly, L., Boiron, O., Lagier, A., Legou, T., Pichelin, M., Caillibotte, G., Giovanni, A. (2015). Realistic glottal motion and airflow rate during human breathing. *Medical Engineering & Physics*, **37-9**, 829-839, doi.org
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13. Bailly, L., Deplano, V., Lemercier, A., Boiron, O., Meyer, C. A. (2014). New experimental protocols for tensile testing of abdominal aortic analogs. *Medical Engineering and Physics*, **36**, 800-804, doi.org
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11. Boiron, O., Guivier, C., Bertrand, E., (2012). Study of the hydrodynamic of a flapping foil at moderate angle of attack, *Computers & Fluids*, **59**, 117-124, doi.org
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6. Boiron, O., Chiavassa, G., Donat, R. (2009), A high-resolution penalization method for large mach number flows in the presence of obstacles, *Computers & Fluids*, **38-3**, 703-714.
5. Boiron, O., Bertrand, E., (2008), Performances hydrodynamique de profils oscillants. *Revue de Méca. Appl. et Théorique*, **1-10**, 777-789.
4. Boiron, O., Deplano, V., Péliissier, R. (2007). Experimental and numerical studies of the starting effect on the secondary flow in a bend. *Journal of Fluid Mechanics*, **574**, 109-129.
3. Deplano, V., Bertolotti, C. and Boiron, O. (2001). Numerical simulations of unsteady flows in a stenosed coronary bypass grafts. *Medical and Biological Engineering and Computing*, **39**, 488-499.
2. Vlad, G., Boiron, O., Le Palec, G., Bournot, P., (1995). Numerical study of the compressible turbulent flow in a laser cavity, *Int. Journal of Heat and Mass Transfer*, **38**, 2623-2633.
1. Boiron, O., Le Palec, G., Bournot, P., (1995). Aerothermic caracterisation of a high power fast axial flow CO2 laser, *Int. Journal of Heat and Mass Transfer*, **38**, 207-217.

B Proceedings ou abstracts issus de congrès avec comité de lecture

60. I. Alazam, N. Ait-Mouheb, O. Boiron, Micro PIV and CFD Simulation for bacteria fouling tracking in a milli labyrinth channel flow used in water reuse drip irrigation, CFM 2025 (accepté).
59. A. Capart, R. Allais, J. Wojak, O. Boiron and A. Da Silva, Opto-Mechanical Characterization of the Intervertebral Disc Using Photoacoustic Imaging, European Conferences On Biomedical Optics (ECBO), Munich, 22-26 June 2025.
58. R. Allais, V. Espinas, P. Brige, A. Capart, A. Da Silva, and O. Boiron, Adapting the Opto-Mechanical Characteristics of Intervertebral Discs for Photoacoustic Probing, European Conferences On Biomedical Optics (ECBO), Munich, 22-26 June 2025. (accepté)
57. Allais R., Espinas V., Da Silva A. and Boiron O. Photoacoustic probing of intervertebral discs mimicking phantoms. 19th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering, 28 July-01 August 2024, Vancouver, BC, Canada.
56. Allais R., Espinas V., Brige P., Da Silva A., Capart A., Boiron O., Development of phantoms for photoacoustic probing of intervertebral discs. Optica Biophotonics Congress: Biomedical Optics, 07-10 April 2024, Fort Lauderdale, FL, USA.
55. Chevet E., Boiron O., Anselmet F., Reduced Order Atmospheric Pollution Modelling using Machine Learning with Proper Orthogonal Decomposition, APS, November 19–21, 2023; Washington, DC USA
54. Allais R., Capart A., Da Silva A., Boiron O., Opto-mechanical characterisation of intervertebral disc phantoms, 48th congress of the Société de Biomécanique, 25-27 October 2023, Grenoble, France.
53. A. Capart, R. Allais, J. Wojak, O. Boiron, and A. Da Silva, Assessing the internal composition of the intervertebral disc with photoacoustic imaging: a numerical study, European Conferences On Biomedical Optics (ECBO), Munich (Germany), 25-29 June 2023.
52. Allais R., Boiron O., Capart A., Da Silva A., Intervertebral disc mechanical response to axial rotation: the consequence of a mobile center of rotation on the collagen fibers, 47th congress of the Société de Biomécanique, 26-28 October 2022, Monastir, Tunisia.
51. M. Ghiss, A. Othman, Ma. Chetoui, A. Da Silva and O. Boiron, The impact of flexion mechanical loading on the intervertebral disc metabolism, 47ème congrès de la Société de Biomécanique, 26 - 28 octobre 2022, Monastir, Tunisia. Computer Methods in Biomechanics and Biomedical Engineering, vol. 25, no. s1, S130-S131, 2022.
50. Pongérard A., Mallo L., Do Sacramento V., Maître B., Boiron O., Lanza F., Gachet C., Knapp Y. and Strassel C., Development and characterization of a high yield platelet release device: From bench-scale to large culture platelet production, AAA annual meeting, 1-4 October 2022, Orlando, USA.
49. Chevet E., Boiron O., Anselmet F., Modelling of air pollution in Mediterranean coastal cities due to marine traffic, SuST International Symp. and workshops, 14-17 July 2022, Nysiros, Greece.
48. Pongérard A., Mallo L., Do Sacramento V., Boiron O., Lanza F., Gachet C., Knapp Y., Strassel C., Platelet release device: from bench-scale to large culture platelet production, Int. Soc. of Thrombosis and Haemostasis, 9-13 July 2022, London.
47. Boiron O., Lanza F., Gachet C., Strassel C., Knapp Y., In depth analysis of the effects of unsteady flows on platelet release from suspensions of proplatelet-bearing megakaryocytes, Int. Soc. of Thrombosis and Haemostasis, 9-13 July 2022, London.

46. Allais R., Capart A., Da Silva A., Boiron O., New insights on the intervertebral disc center of rotation during flexion, 9th World Congress of Biomech., 10-14 July 8-12 2022, Taipei, Taiwan.
45. Capart A., Wojak J., Allais R., Boiron O., Da Silva A., Assessment of intervertebral disks viability with quantitative photoacoustic tomography, Biophotonics congress : Biomedical optics, 24-27 April 2022, Fort Lauderdale, USA.
44. K. Metwally, O. Boiron, V. Deplano, S. Prost, A. Da Silva, Probing intervertebral discs with photoacoustics, Proc. SPIE 11077, Opto-Acoustic Methods and Applications in Biophotonics IV, 110771P (19 July 2019); <https://doi.org/10.1117/12.2527053>
43. O. Boiron, E. Bertrand, I. Katz, Space-time-resolved measurements of aerosol deposition in an idealized model of upper airways, 8th World Congress of Biomech., July 8-12 2018, Dublin.
42. M. A. Chetoui, O. Boiron, A. Dogui, V. Deplano., Intervertebral disc nutrition modeling : use of MRI to assess initial parameters, 8th World Congress of Biomech., July 8-12 2018, Dublin.
41. M. A. Chetoui, O. Boiron, A. Dogui, V. Deplano., Prediction of intervertebral disc mechanical response to axial load using isotropic and fiber reinforced FE models. (2017) *Computer Methods in Biomechanics and Biomedical Engineering*, **20(S1)**, 39-40. Proceedings of the Congrès de la société de biomécanique, Reims (France) .
40. Deplano, V., Boufi, M., Boiron, O., Alimi, Y., Bertrand, E., (2015). Mechanical characterization of porcine ascending aorta. *Computer Methods in Biomechanics and Biomedical Engineering*, **18**, 1922-1923. Proceedings of the Congrès de la société de biomécanique, Paris (France).
39. Chetoui, M., Boiron, O., Dogui, A., Deplano, V., (2015). IVD nutrition processes under compressive load: a finite deformation model. *Computer Methods in Biomechanics and Biomedical Engineering*. Proceedings of the Congrès de la société de biomécanique, Paris (France).
38. Boiron, O., Scheinherr, A., Bailly, L. (2015). Transport et dépôt d'aérosols dans les voies aériennes supérieures. Proceedings of the Congrès Français de Mécanique. Lyon (France).
37. Belka, M., Elcner, J., Jedelsky, J., Boiron, O., Knapp, Y., Bailly, L., (2015). Measurement of cyclic flow in trachea using PIV and numerical simulation. *EPJ Web of conf.*, **92**, 02006. Proceedings of International conference Experimental Fluid, Cesky-Krumlov (Czech Republic).
36. Boiron, O., Scheinherr, A., Elliot, A.R., Bailly, L., Theilmann, R.J., Darquenne, C., (2015), Dynamics of the glottis during breathing, 20th congress Inter. Society of Aerosol for Med., Munchen (Germany).
35. Guivier-Curien, C., Boufi, M., Deplano, V., Boiron, O., Loundou, A., Alimi, Y. (2014). Thoracic aorta morphometry and endograft deployment. *Computer Methods in Biomechanics and Biomedical Engineering*, **17**, 10-1. Proceedings of the Congrès de la société de biomécanique, Valenciennes.
34. Scheinherr, A., Bailly, L., Boiron, L., Legou L., Lagier, A., Caillibotte, G., Pichelin, M., (2013). Laryngeal two-phase flow in realistic breathing conditions. 19th congress of the Europ. Society of Biomech., Patras (Greece).
33. Ghiss, M., Boiron, O., Giancesini, B., Tropiano, P., Tourki, Z., (2013). Intervertebral disc behaviour under axial compression: ex vivo experiments and in silico modeling. Proceedings of the 19th congress of the Europ. Society of Biomech., Patras (Greece).
32. Ait-Mouheb, N., Bailly, L., Boiron, O., (2013). Local aerosol deposition and gas-glow measurements using in vitro PIV-LIF techniques. *J. of Aerosol Medicine and Pulmonary drug delivery*, **26(2)**, Proceedings of the 19th Congress of the Inter. Society of Aerosol for Med., Chapel Hill (USA).

31. Scheinherr, A., Lagier, A., Bailly, L., Boiron, O., Legou T., Giovanni A., Amy de la Bretèque B., Caillibotte G., Pichelin M., (2013). Glottal motion and its impact on inhaled aerosol deposition in upper airways. *J.of Aerosol Medecine and Pulmonary drug delivery*, **26**(2), Proceedings of the 19th Congress of the Inter. Society of Aerosol for Med., Chapel Hill (USA).
30. Etienne, M., Deplano, V., Boiron, O., Tropiano, P. (2013). 3D dynamic numerical simulations of intervertebral disc: bending and twisting. *Computer Methods in Biomechanics and Biomedical Engineering*, **16**, 236-238. Proceedings of the Congrès de la société de biomécanique, Marseille.
29. Scheinherr, A., Bailly, L., Boiron, O., Legou, T., Giovanni, A., Caillibotte, G., Pichelin, M., (2012). Glottal motion and its impact on the respiratory flow, *Compt. Meth. in Biomech. Eng.*, **15-1**, 69-71, Proceedings of the Congrès de la Sté de Biomécanique, Toulouse.
28. Ghiss, M., Giancesini, B., Tropiano, P., Tourki, Z., Boiron, O., (2012). Evolution de la teneur en eau d'un disque intervertébral sous l'effet d'une compression uniaxiale. Proceedings of the 3ième Congrès Tunisien de Mécanique, Sousse (Tunisia).
27. Bailly, L., Boiron, O., Legou, T., Giovanni, A., Caillibotte, G., (2011). Glottal dynamics and laryngeal airflow during human breathing. Proceedings of the 9th Pan European Voice Conference, Marseille (France).
26. Etienne M., Boiron O., Tropiano P., Deplano V. (2011). Nutrient convection and diffusion modelling in the intervertebral disc. *Computer Methods in Biomechanics and Biomedical Engineering*, **14**, 145-146. Proceedings of the Congrès de la société de biomécanique, Besançon.
25. Fahd, G., Mokhtar, O.A., Boiron, O., Morgado, I., Paganelli, F., Deplano, V. (2011). Comparing invasive and oscillometric blood pressure measurements. *Computer Methods in Biomechanics and Biomedical Engineering*, **14**, 149-151. Proceedings of the Congrès de la société de biomécanique, Besançon.
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23. Etienne, M. , Boiron, O. , Tropiano, P. , Deplano, V. (2010). Nutrient convection and diffusion modeling in the intervertebral disc. 6th World Congress of Biomechanics, Singapour, Proceedings p. 339.
22. Meyer, C. Bertrand, E. Boiron, O. Deplano, V. (2010). Stereoscopic measurement of compliant abdominal aortic aneurysm models. 6th World Congress of Biomechanics, Singapour, Proceedings p. 290.
21. Magnier C., Tropiano P., Boiron O., Deplano V., Wendling S., Chabrand P. (2009). A finite element parametric study of the disc nutrition. Spine Arthroplasty Society. 28 april 1 may, London, England.
20. Magnier C., Boiron O., Wendling-Mansuy S., Chabrand, P., Deplano, V. (2009). Modélisation du disque intervertébral. Actes du 19ème Congrès Français de Mécanique, Marseille.
19. Magnier C., Wendling-Mansuy S., Boiron O., Deplano V., Chabrand P. (2008). Nutrient transport into a loaded intervertebral disc: a parametric study. *Journal of Biomechanics*, **41**(1), S360. Proceedings of the European Society Biomechanics Congress, Lucerne, Suisse.
18. Boiron, O., Bertrand, E., (2008). Performances hydrodynamique de profils oscillants, Proceedings of JET'2008, Marrakech (Morocco).
17. Lavicka, D., Boiron, O., Polansky, J., (2007). Study and comparison of results for the hydraulic analogy. Proceedings of Vth Int. Conf. on Heat Transfer Fluid Dynamics and Thermodynamics, Sun City (RSA).

16. Boiron, O., Polansky, J., Pokorny, J., (2006). Propulsive efficiency of 2D flapping foils. *Journal of Biomechanics*, **39**(1), S358. Proceedings of the 5th World Congress of Biomechanics, Munchen (Germany).
15. Gaillard, E., Deplano, V., Boiron, O., (2006). Experimental and numerical studies on physiological flow behaviour in an asymmetric model of abdominal aortic aneurysm. *Journal of Biomechanics*, **39**(1), S274. Proceedings of the 5th World Congress of Biomechanics, Munchen (Germany).
14. Wendling-Mansuy, S., Magnier, C., Deplano, V., Boiron, O., Chabrand, P. (2006) The human lumbar intervertebral disc: a multi-phase biological tissue approached by bio-chemo-mechanical considerations. *Journal of Biomechanics*, **39**(1), S459. Proceedings of the 5th World Congress of Biomechanics, Munchen (Germany).
13. Polansky, J., Boiron, O., Novacek, V., (2005). Identification of viscoelastic properties of artificial materials simulating vascular wall. *Computer methods in biomechanics and biomedical engineering*, Proceedings of the Congrès de la société de Biomécanique, Brussels (Belgium).
12. Demjancukova, L., Rohan, E., Boiron, O., Tonar, Z., (2005). Numerical and experimental aspects of arterial wall modelling. *Computer methods in biomechanics and biomedical engineering*, Proceedings of the Congrès de la société de Biomécanique, Brussels (Belgium).
11. Demjancukova, L., Boiron, O., Piar, B., Rohan, E., (2004). Vascular Fluid dynamics : introduction to fluid-struture interaction problem, Congress of the Czech Society of Biomechanics, Pragua, Czeck Republic.
10. Boiron, O., Sankari, M., Rieu, R., (2003). Evaluation of the strengths developed at the proximal aorto-prosthetic anastomosis after abdominal aortic aneurysm exclusion. *Archives of physiology and biochemistry*, **2003**, Proceedings of the Congrès de la Société de Biomécanique, Poitiers (France).
9. Deplano, V., Boiron, O., Péliissier, R. (2001). Modélisations expérimentale et numérique d'un écoulement physiologique dans un tube coudé. Congrès Français de Mécanique, Nancy.
8. Boiron, O., Deplano, V., Wilbois, B., Péliissier, R., Fuseri, J. (2000). A numerical and experimental study of physiological flows in a curved tube. ICTAM, Chicago 27 août. Kluwer Academic Publishers.
7. Péliissier, R., Pascal-Mousselard, A., Deplano, V., Boiron, O. (1999). Physiological flows in a curved bend. Euromech Colloquium 389: Physiological Flows and Flow structure interactions, Avril 20-24, Graz Autriche. Actes publiés dans le *Journal of Cardiovascular Medicine and Science*.
6. Boiron, O., Le Palec, G., (1997). Etude numérique de l'évaporation dans un canal corrugué, Proceedings of the 13ième Congrès Francais de Mécanique, Poitiers (France).
5. Vlad, G., Boiron, O., Le Palec, G., Bournot, P., (1996). Model of a glow discharge in a turbulent flow. Proceeding of the 11th International Symposium on Gas Flow and Chemical Lasers, Edinburgh (Scotland).
4. Vlad, G., Boiron, O., Le Palec, G., Bournot, P., (1995). Modélisation aérothermique de l'écoulement dans un tube à décharge, Proceedings of the 7ième JITH, Marrakech (Morocco).
3. Vlad, G., Boiron, O., Le Palec, G., Bournot P., (1994). Numerical simulation of the turbulent compressible flow in CO2 laser cavity, Proceeding of the 10th International Symposium on Gas Flow and Chemical Lasers, Friedrichshafen (Germany).
2. Boiron, O., Vlad, G., Caminat, P., Bournot, P., Le Palec, G., (1992). Study of the turbulent compressible flow structure in CO2 laser cylindrical discharge tube. Proceeding of the 9th International Symposium on Gas Flow and Chemical Lasers, Heraklion (Greece).

1. Boiron, O., Bournot, P., Caminat, P., Le Palec, G., Gastaud, M., (1992). Experimental study of the flow structure in a CO₂ laser cylindrical discharge tube. 4Proceedings of the International Conference for Fluids Mechanics, Alexandria (Egypt).

C Chapitres de livres

- [D1] Physical and numerical modelling in environmental engineering in Int. Series of teaching manuals: Sustainable development and environmental problems of industry. Chap. VI, STANKIN Press, Moscow, 2000.

D Organisation de conférences

- [E1] International Symposium and Workshop - RE-Greece2016 Nisyros (GR)- 20-22/06/16 - membre du comité scientifique
- [E2] Mediterranean Green Energy Forum 2015 - Marrakech (MA) - Membre du comité scientifique

E Conférences invitées

- [E1] Boiron, O., (2014), Imagerie quantitative et diagnostic de la dégénérescence discale, Journées PR2I AMU, CERIMED, Marseille.
- [E2] Deplano, V., Boiron, O., (2005). Modélisations et Pathologies Cardio Vasculaires : Sténoses Aortiques / AAA. Conférence invitée au 17ème Congrès Français de Mécanique, Troyes

F Participations à des journées scientifiques et séminaires invités

- [F1] Boiron, O., (2008). Un modèle mécano-osmotique du disque intervertébral, CRMBM UMR6612, Marseille.
- [F2] Magnier, C., Boiron, O., Deplano, V., Wendling, S., Chabrand, P. (2008). Un modèle mécano-osmotique du disque intervertébral vers un outil de diagnostic de la fonction du disque. 1ères Rencontres Régionales en Biomécanique Ostéoarticulaire, octobre, Marseille.
- [F3] Magnier, C., Boiron, O., Deplano, V., Wendling, S., Chabrand, P., (2008). Un modèle mécano-osmotique de nutrition du Disque Intervertébral. Journées scientifiques du GDR2760, juillet.
- [F4] Boiron, O., Deplano, V., (2005). Interaction Sang-Paroi. Journée Interaction Fluide Structure, Bruxelles.