Michel Versluis - Publication list

Current *h*-index = **66** - *Scopus*
Number of peer-reviewed publications: **257**
Number of citations: **14,457**
Researcher-ID: F-3541-2011
ORCID: 0000-0002-2296-1860
Google Scholar: *h*-index **79**, citations **21,302**, i10-index **202**

2025

273. Flow characterization in a piezo-acoustic inkjet printhead: vortex formation and the role of nozzle tapering.
Yogesh J. Jethani, Roger Jeurissen, Wybo Wagenaar, Hans Reinten, Youri de Loore, Marc van den Berg, Detlef Lohse, Michel Versluis, and Tim Segers.
(under review, 2025).

272. Effect of Doppler ultrasound and high-frame-rate ultrasound particle image velocimetry derived inlet boundary conditions on wall shear stress parameters in the stented superficial femoral artery.
Lisa Rutten, Lennart van de Velde, Lente Pol, Kartik Jain, Michel M.P.J. Reijnen, and Michel Versluis.
(under review, 2025).

271. Modeling nonlinear scattering of phospholipid-coated microbubbles in elastic media.
Ali Rezaei, David Fernandez Rivas, Guillaume Lajoinie, and Michel Versluis.
(under review, 2025).

270. Active sac management for prevention of type II endoleaks after endovascular aneurysm repair: systematic review and meta-analysis.
Jeffrey R. Nagel, Wouter Driessen, Erik Groot Jebbink, Michel Versluis, and Michel M. P. J. Reijnen.
(under review, 2025).

269. Rheology of viscoelastic media at MHz strain rates measured using ultrasound-driven microbubbles.
Ali Rezaei, Kay Dijs, David Fernadez Rivas, Jacco Snoeijer, Michel Versluis, and Guillaume Lajoinie.
(under review, 2025).

268. Tuning the shell elasticity of phospholipid-coated microbubbles via palmitic acid doping.
Benjamin van Elburg, Kim Bruil, Guillaume Lajoinie, Mark Borden, Michel Versluis, and Tim Segers.
(under review, 2025).

267. Monte Carlo simulation platform for laser Doppler flowmetry.
David Thompson, Wietske Verveld, Guillaume Lajoinie, Michel Versluis, Wiendelt Steenbergen, and Nienke Bosschaart.
(under review, 2025).

266. Accurate sizing of monodisperse microbubble suspensions by optical attenuation spectroscopy.
Martin van den Broek, Hidde Sikkema, Niladri Satpathi, Loes Kleinsmit, Albert van den Berg, Michel Versluis, and Tim Segers.
(under review, 2025).

265. Reducing stent-induced blooming artifacts using virtual monoenergetic imaging reconstructions in a superficial femoral artery phantom: an in-vitro study
Lisa Rutten, Lennart van de Velde, Cornelius Slump, Jasper Martens, Kartik Jain, Michel Versluis, and Michel M. P. J. Reijnen
(under review, 2025).

264. Shape oscillation and 3-D microstreaming profile of a phospholipid-coated microbubble attached to a wall.
Hongchen Li, Yuchen Wang, Ruisheng Su, Christian Cierpka, Michel Versluis, Antonius F.W. van der Steen, Nico de Jong, Martin D. Verweij, and Klazina Kooiman.
(under review, 2025).

263. Novel degradable mold-based human engineered mini-heart platform for mimicking ventricular pump function.
Marcelo C. Ribeiro, Mariel Cano-Jorge, Simone ten Den, Danique Snippert, Marcel Karperien, Tom Kamperman, Guillaume Lajoinie, Michel Versluis, and Robert Passier.
(under review, 2025).

262. Delay-encoded cascaded waves for ultrafast ultrasound imaging.
Charlotte Nawijn, Michel Versluis, Tim Segers, and Guillaume Lajoinie.
(under review, 2025).

261. Blood flow characteristics in the femoral bifurcation of healthy subjects.
Majorie van Helvert, Janna Ruisch, Joosje M.K. de Bakker, Anne E.C.M. Saris, Chris L. de Korte, Michel Versluis, Erik Groot Jebbink, and Michel M.P.J. Reijnen.
(under review, 2025).

260. Dissolution and vaporization of a water droplet in oil exposed to a temperature ramp.
Muhammad Saeed Saleem, Michel Versluis, and Guillaume Lajoinie.
(under review, 2025).

259. Vaporization dynamics of a super-heated water-in-oil droplet: modeling and numerical solution.
Muhammad Saeed Saleem, Michel Versluis, and Guillaume Lajoinie.
(under review, 2025).

258. In-vivo validation of computational fluid dynamics for determining the pressure gradient for multi-segmental femoropopliteal disease.
L. van de Velde, L. Rutten, M. van Werkum, P. Cernohorsky, E. Groot Jebbink, M. Versluis, and M.M.P.J. Reijnen.
(under review, 2025).

257. A systematic review on the use of intravascular ultrasound and optical coherence tomography in the femoropopliteal tract.
Lisa Rutten, Stan E.J. Reijnen, Lennart van de Velde, Michel Versluis, and Michel M.P.J. Reijnen.
Catheter. Cardiovasc. Interv. (on-line, 2025).
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256. Ultrasound contrast microbubbles to predict the microsphere distribution during radioembolization, an in-vitro proof of concept study.
Jan L. van der Hoek, Tess J. Snoeijink, Hadi Mirgolbabaee, Romaine Kunst, Michel Versluis, Jutta Arens, Srirang Manohar, and Erik Groot Jebbink
Drug Delivery **32**(1), 2505007 (2025).
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255. PROTEUS: a physically realistic contrast-enhanced ultrasound simulator – Part II: Imaging applications.
Baptiste Heiles, Nathan Blanken, Alina Kuliesh, Michel Versluis, Kartik Jain, Guillaume Lajoinie, and David Maresca.
IEEE Trans. Ultrason. Ferroelectr. Freq. Control **72**(7), 866–878 (2025).
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254. PROTEUS: a physically realistic contrast-enhanced ultrasound simulator – Part I: Numerical methods.
Nathan Blanken, Baptiste Heiles, Alina Kuliesh, Michel Versluis, Kartik Jain, David Maresca, and Guillaume Lajoinie.
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Sarah Cleve, Tim Segers, Michel Versluis, and Guillaume Lajoinie.
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252. Vascular flow phantom of a cohort-based averaged abdominal aortic aneurysm: Design, fabrication and characterization.
Hadi Mirgolbabaee, Jeffrey R. Nagel, Jelle Plomp, Ashkan Ghanbarzadeh-Dagheyan, Jaimy A. Simmering, Michel Versluis, Michel M.P.J. Reijnen, and Erik Groot Jebbink.
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251. Optimizing the radiopacity of an injectable polymer used for treatment of type II endoleak after endovascular aneurysm repair.
Jeffrey R. Nagel, Erik Groot Jebbink, Stefan P.M. Smorenburg, Arjan W.J. Hoksbergen, Rutger J. Lely, Michel Versluis, and Michel M.P.J. Reijnen.
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250. Waveform-specific performance of deep learning-based ultrasound super-resolution models.
Rienk Zorgdrager, Nathan Blanken, Jelmer Wolterink, Michel Versluis, and Guillaume Lajoinie.
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Jelle Plomp, Ashkan Ghanbarzadeh-Dagheyan, Michel Versluis, Guillaume Lajoinie, and Erik Groot Jebbink.
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M.M.D. van der Meeren, T. Boers, P. de Graaf, K.M. Duvivier, K.M.A. Dreijerink, L.N. Deden, P. Veendrick, P. Cernohorsky, F.B.M. Joosten, B.M.C. Savelberg, S.J. Braak, S.H.P.P. Roerink, M. Versluis, S. Manohar, and W.J.G. Oyen.
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Maaike Rump, Christian Diddens, Uddalok Sen, Michel Versluis, Detlef Lohse, and Tim Segers.
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Sander Spiekhout, Yuchen Wang, Tim Segers, Klazina Kooiman, Michel Versluis, Jason Voorneveld, Nico de Jong, and Johannes G. Bosch.
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Charlotte Nawijn, Joosje de Bakker, Tim Segers, Chris de Korte, Michel Versluis, Anne Saris, and Guillaume Lajoinie.
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Benjamin van Elburg, Anne Lassus, Samir Cherkaoui, Guillaume Lajoinie, Michel Versluis, and Tim Segers.
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Charlotte L. Nawijn, Sander Spiekhout, Jason Voorneveld, Johannes G. Bosch, Michel Versluis, Tim Segers, and Guillaume P.R. Lajoinie.
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242. Soft stereolithographic 3D printed phantoms for dual-modality particle image velocimetry (PIV).
E. Hosseinzadeh, H. Mirgolbabaee, L. van de Velde, M. Versluis, E. Groot Jebbink, A. Aguirre-Soto, and M. M. P. J. Reijnen.
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241. Additive manufacturing of 3D flow-focusing millifluidics for the production of mono-sized curable microdroplets.
Muhammad Saeed Saleem, Timothy T.K. Chan, Michel Versluis, Domink Krug, and Guillaume Lajoinie.
RSC Advances **14**(53), 39276 (2024).
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Yanou Engelen, Dmitri V. Krysko, Iuliia Effimova, Karine Breckpot, Michel Versluis, Stefaan De Smedt, Guillaume Lajoinie, and Ine Lentacker.
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A. Ghanbarzadeh-Dagheyan, M. van Helvert, L. van de Velde, M.M.P.J. Reijnen, M. Versluis, and E. Groot Jebbink.
J. Endovasc. Ther. (on-line, 2024).
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N.C. Harte, D. Obrist, M. Versluis, E. Groot Jebbink, M. Caversaccio, W. Wimmer, and G.P.R. Lajoinie.
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Tim Boers, Sicco Braak, Wyger Brink, Michel Versluis, and Srirang Manohar.
Eur. Radiol. Exp. **8**:115 (2024).
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Roxane Munsterman, Tim Boers, Sicco Braak, Jelmer M. Wolterink, Michel Versluis, and Srirang Manohar.
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Martin van den Broek, Michel Versluis, Albert van den Berg, and Tim Segers.
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Sander Spiekhout, Benjamin van Elburg, Jason Voorneveld, Nico de Jong, Michel Versluis, Johannes G. Bosch, and Tim Segers.
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Majorie van Helvert, Janna Ruisch, Joosje de Bakker, Anne Saris, Chris de Korte, Michel Versluis, Erik Groot Jebbink, and Michel Reijnen.
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Lennart van de Velde, Majorie van Helvert, Stefan Engelhard, Ashkan Ghanbarzadeh-Dagheyan, Hadi Mirgolbabaee, Jason Voorneveld, Guillaume Lajoinie, Michel Versluis, Michel Reijnen, and Erik Groot Jebbink.
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Charlotte L. Nawijn, Tim Segers, Guillaume Lajoinie, Sigrid Berg, Sofie Snipstad, Catharina de Lange Davies, and Michel Versluis.
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Alexandros T. Oratis, Kay Dijs, Guillaume Lajoinie, Michel Versluis, and Jacco H. Snoeijer.
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Tim Boers, Wyger Brink, Leonardo Bianchi, Paola Saccomandi, Johan van Hespen, Germen Wennemars, Sicco Braak, Michel Versluis, and Srirang Manohar.
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227. Ultrasound particle image velocimetry to investigate potential hemodynamic causes of limb thrombosis after endovascular aneurysm repair with the Anaconda device.
H. Mirgolbabaee, L. van de Velde, R. H. Geelkerken, M. Versluis, E. Groot Jebbink, M.M.P.J. Reijnen
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Benjamin van Elburg, Joke Deprez, Martin van den Broek, Stefaan C. De Smedt, Michel Versluis, Guillaume Lajoinie, Ine Lentacker, and Tim Segers.
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225. Microbubble formation by flow-focusing: role of gas and liquid properties, and channel geometry.
Sarah Cleve, Anne Lassus, Christian Diddens, Benjamin van Elburg, Emmanuel Gaud, Samir Cherkaoui, Michel Versluis, Tim Segers, and Guillaume Lajoinie.
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Georges Chabouh, Marcel Mokbel, Benjamin van Elburg, Michel Versluis, Tim Segers, Sebastian Aland, Catherine Quilliet, and Gwennou Coupier.
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Maaike Rump, Uddalok Sen, Roger Jeurissen, Hans Reinten, Michel Versluis, Detlef Lohse, Christian Diddens, and Tim Segers.
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T. Boers, S.J. Braak, N.E.T. Rikken, M. Versluis, and S. Manohar.
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Georges Chabouh, Benjamin van Elburg, Michel Versluis, Tim Segers, Catherine Quilliet, and Gwennou Coupier.
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Maaike Rump, Youssef Saade, Uddalok Sen, Kamel Fezzaa, Michel Versluis, Detlef Lohse, and Tim Segers.
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C. Boutsioukis, B. Verhaagen, L.W.M. van der Sluis, and M. Versluis
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Sander Spiekhout, Jason Voorneveld, Benjamin van Elburg, Guillaume Renaud, Tim Segers, Guillaume P.R. Lajoinie, Michel Versluis, Martin D. Verweij, Nico de Jong, and Johannes G. Bosch.
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Simon E. Michels, Guillaume Lajoinie, Saeid Hedayatrasa, Michel Versluis, Mathias Kersemans, and Philippe Smet.
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M.M.B. Borges, R.J.B. Dijkstra, F.B. Andrade, M.A.H. Duarte, M. Versluis, L.W.M. van der Sluis, and X. Petridis.
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Nathan Blanken, Jelmer M. Wolterink, Hervé Delingette, Christoph Brune, Michel Versluis, and Guillaume Lajoinie.
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Majorie van Helvert, Stefan Engelhard, Jason Voorneveld, Marije van der Vee, Johan G. Bosch, Michel Versluis, Erik Groot Jebbink, and Michel M. P. J. Reijnen.
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Joke Deprez, Silke Roovers, Guillaume Lajoinie, Heleen Dewitte, Tine Decruy, Julie Coudenys, Benedicte Descamps, Christian Vanhove, Michel Versluis, Dirk Elewaut, Peggy Jacques, Stefaan C. De Smedt, and Ine Lentacker
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L. van de Velde, E. Groot Jebbink, B.A. Zambrano, M. Versluis, J. Tessarek, and M.M.P.J. Reijnen.
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209. Blood flow quantification with high-frame-rate contrast–enhanced ultrasound velocimetry in stented aortoiliac arteries: in vivo feasibility.
Stefan Engelhard, Majorie van Helvert, Jason Voorneveld, Johan G. Bosch, Guillaume Lajoinie, Erik Groot Jebbink, Michel M.P.J. Reijnen, and Michel Versluis.
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Arjan Fraters, Maaike Rump, Roger Jeurissen, Marc van den Berg, Youri de Loore, Hans Reinten, Herman Wijshoff, Devaraj van der Meer, Detlef Lohse, Michel Versluis, and Tim Segers.
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Stefan Engelhard, Majorie van Helvert, Jason Voorneveld, Johan G. Bosch, Guillaume Lajoinie, Michel Versluis, Erik Groot Jebbink, and Michel M.P.J. Reijnen.
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Tim Boers, Sicco J. Braak, Michel Versluis, and Srirang Manohar.
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Stefan Engelhard, Lennart van de Velde, Erik Groot Jebbink, Kartik Jain, Jos Westenberg, Clark J. Zeebregts, Michel Versluis, and Michel M.P.J. Reijnen.
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