Michel Versluis - Publication list

Current *h*-index = **53** - *ISI Web of Science*
Number of peer-reviewed publications: 219
Number of citations: 9591
Researcher-ID: F-3541-2011

2022

222. Vorticity-induced flow-focusing leads to bubble entrainment in an inkjet printhead: synchrotron X-ray and volume-of-fluid visualizations.
Maaike Rump, Youssef Saade, Uddalok Sen, Kamel Fezzaa, Michel Versluis, Detlef Lohse, and Tim Segers.
Phys. Rev. Fluids (under review).

221. Ultrasound imaging in thyroid nodule diagnosis, therapy and follow-up: current status and future trends.
T. Boers, S.J. Braak, N.E.T. Rikken, M. Versluis, and S. Manohar.
Int. J. Biomed. Imaging (under review).

220. Selective evaporation at the nozzle exit in piezoacoustic inkjet printing.
Maaike Rump, Uddalok Sen, Roger Jeurissen, Hans Reinten, Michel Versluis, Detlef Lohse, Christian Diddens, and Tim Segers.
Phys. Rev. Appl. (under review).

219. Irrigant flow in the root canal during ultrasonic activation: a numerical fluid-structure interaction model and its validation.
C. Boutsioukis, B. Verhaagen, L.W.M. van der Sluis, and M. Versluis
Int. Endod. J. (on-line, 2022).
https://doi.org/10.1111/iej.13791

218. Time-resolved absolute radius estimation of vibrating contrast microbubbles using an acoustical camera.
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.
J. Acoust. Soc. Am. **151**(6), 3993–4003 (2022).
https://doi.org/10.1121/10.0011619

217. A theoretical framework for acoustically produced luminescence: from thermometry to ultrasound pressure field mapping.
Simon E. Michels, Guillaume Lajoinie, Saeid Hedayatrasa, Michel Versluis, Mathias Kersemans, and Philippe Smet.
J. Lumin. **248**:118940 (2022).
https://doi.org/10.1016/j.jlumin.2022.118940

216. The response of dual-species bacterial biofilm to 2% and 5% NaOCl mixed with etidronic acid: real-time evaluation by optical coherence tomography.
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.
Int. Endod. J. **55**(7), 758–771 (2022).
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215. Super-resolved microbubble localization in single-channel ultrasound RF signals using deep learning.
Nathan Blanken, Jelmer M. Wolterink, Hervé Delingette, Christoph Brune, Michel Versluis, and Guillaume Lajoinie.
IEEE Trans. Med. Imaging (on-line, 2022).
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214. High-frame-rate contrast-enhanced ultrasound particle image velocimetry in patients with a stented superficial femoral artery: a feasibility study.
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.
Eur. Radiol. Exp. **6**:32 (2022).
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213. Computational Fluid Dynamics for the prediction of endograft thrombosis in the superficial femoral artery.
Lennart van de Velde, Erik Groot Jebbink, Rob Hagmeijer, Michel Versluis, and Michel M.P.J. Reijnen.
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https://doi.org/10.1177/15266028221091890

212. Evaluation of liposome-loaded microbubbles as theranostic tool in murine collagen-induced arthritis.
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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https://doi.org/10.3390/scipharm90010017

211. The Supera interwoven nitinol stent as a flow diverting configuration in popliteal aneurysms.
L. van de Velde, E. Groot Jebbink, B.A. Zambrano, M. Versluis, J. Tessarek, and M.M.P.J. Reijnen.
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https://doi.org/10.1007/s00270-022-03118-x

210. Resonance behavior of a compliant piezo-driven inkjet channel with an entrained microbubble.
Hans Reinten, Yogesh Jethani, Arjan Fraters, Roger Jeurissen, Detlef Lohse, Michel Versluis, and Tim Segers.
J. Acoust. Soc. Am. **151**(4), 2524–2557 (2022).
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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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208. Time-resolved velocity and pressure field quantification in a flow-focusing device for ultrafast microbubble production.
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206. The retraction of jetted slender viscoelastic liquid filaments.
Uddalok Sen, Charu Datt, Tim Segers, Herman Wijshoff, Jacco Snoeijer, Michel Versluis, and Detlef Lohse.
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205. Ultrasound velocimetry in participants with aortoiliac occlusive disease.
Stefan Engelhard, Majorie van Helvert, Jason Voorneveld, Johan G. Bosch, Guillaume Lajoinie, Michel Versluis, Erik Groot Jebbink, and Michel M.P.J. Reijnen.
Radiology **301**(2), 332–338 (2021).
https://doi.org/10.1148/radiol.2021210454

204. Matrix 3D ultrasound-assisted thyroid nodule volume estimation and RF ablation: a phantom study.
Tim Boers, Sicco J. Braak, Michel Versluis, and Srirang Manohar.
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203. Blood flow quantification in peripheral arterial disease: emerging diagnostic techniques in vascular surgery (review).
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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Albert Chong, Hadi Mirgolbabaee, Zhonghua Sun, Lennart van de Velde, Shirley Jansen, Barry Doyle, Michel Versluis, Michel M.P.J. Reijnen, and Erik Groot Jebbink.
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201. Fast and high-resolution ultrasound pressure field mapping using luminescent membranes.
Simon E. Michels, Mathias Kersemans, Michel Versluis, Guillaume Lajoinie and Philippe F. Smet.
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200. Feedback-controlled microbubble generator producing one million monodisperse bubbles per second.
Benjamin van Elburg, Gonzalo Collado Lara, Gert-Wim Bruggert, Tim Segers, Michel Versluis and Guillaume Lajoinie.
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199. Multi-time-scale microscopy methods for the characterization of fluorescently-labeled microbubbles aimed at ultrasound-triggered drug release.
Charlotte Nawijn, Tim Segers, Guillaume Lajoinie, Ýrr Mørch, Sigrid Berg, Sofie Snipstad, Catharina de Lange Davies, and Michel Versluis.
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T.C. Pereira, C. Boutsioukis, R.J.B. Dijkstra, X. Petridis, M. Versluis, F.B. de Andrade, W.J. van de Meer, P. Sharma, L.W.M. van der Sluis, and M.V.R. So.
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Guillaume Lajoinie, Tim Segers and Michel Versluis.
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Yaxing Li, Valentin Salvator, Herman Wijshoff, Michel Versluis, and Detlef Lohse.
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194. Rayleigh-Taylor instability by segregation in an evaporating multicomponent microdroplet.
Yaxing Li, Christian Diddens, Tim Segers, Herman Wijshoff, Michel Versluis, and Detlef Lohse.
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Wejdan M. Arif, Philip H. Elsinga, Carmen Gasca-Salas, Michel Versluis, Raúl Martínez-Fernández, Rudi A.J.O. Dierckx, Ronald J.H. Borra and Gert Luurtsema.
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Guillaume Lajoinie, Mirjam Visscher, Emilie Blazejewski, Gert Veldhuis, and Michel Versluis.
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Michel Versluis, Eleanor Stride, Guillaume Lajoinie, Benjamin Dollet, and Tim Segers.
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189. Foam-free monodisperse lipid-coated ultrasound contrast agent synthesis by flow-focusing through multi-gas-component microbubble stabilization.
Tim Segers, Emmanuel Gaud, Gilles Casqueiro, Anne Lassus, Michel Versluis, and Peter Frinking.
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Method developed for creating foam-free monodisperse bubbles as ultrasound contrast agents
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187. A novel roller pump for physiological flow.
Albert Chong, Zhonghua Sun, Lennart van de Velde, Shirley Jansen, Michel Versluis, Michel M.P.J. Reijnen, and Erik Groot Jebbink.
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186. Microbubble Agents: New Directions (review).
Eleanor Stride, Tim Segers, Guillaume Lajoinie, Samir Cherkaoui, Thierry Bettinger, Michel Versluis, and Mark Borden.
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S.P. Overeem, R.C.L. Schuurmann, M. Schumacher, M.F.C. Jolink, M. Ketel, B. Nijendijk, C.H. Slump, M. Versluis, and J.P.P.M. de Vries.
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184. Secondary tail formation and breakup in piezo-acoustic inkjet printing: femtoliter droplets captured in flight.
Arjan Fraters, Roger Jeurissen, Marc van den Berg, Hans Reinten, Herman Wijshoff, Detlef Lohse, Michel Versluis, and Tim Segers.
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183. Ultrasound-sensitive liposomes for triggered macromolecular drug delivery.
Maria De Matos, Roel Deckers, Guillaume Lajoinie, Benjamin van Elburg, Michel Versluis, Raymond Schiffelers, and Robbert Jan Kok.
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Silke Roovers, Joke Deprez, Dwi Priwitaningrum, Guillaume Lajoinie, Nicolas Rivron, Heidi Declercq, Olivier De Wever, Eleanor Stride, Séverine Le Gac, Michel Versluis, Jai Prakash, Ine Lentacker, and Stefaan De Smedt.
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Olga Koshkina, Guillaume Lajoinie, Francesca Baldelli Bombelli, Edyta Swider, Luis Cruz, Paul White, Ralph Schweins, Yusuf Dolen, Eric van Dinther, N. Koen van Riessen, Sarah Rogers, Remco Fokkink, Ilja Voets, Ernst van Eck, Arend Heerschap, Michel Versluis, Chris de Korte, Carl Figdor, I. Jolanda M. De Vries, and Mangala Srinivas.
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Yaxing Li, Christian Diddens, Pengyu Lv, Herman Wijshoff, Michel Versluis, and Detlef Lohse.
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168. High-frame-rate contrast-enhanced US particle image velocimetry in the abdominal aorta: first human results.
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Lennart van de Velde, Esmé J. Donselaar, Erik Groot Jebbink, Johannes T. Boersen, Guillaume P.R. Lajoinie, Jean-Paul P.M. de Vries, Clark J. Zeebregts, Michel Versluis, and Michel M.P.J. Reijnen.
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160. Acoustic characterization of a vessel-on-a-chip microfluidic system for ultrasound-mediated drug delivery.
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