

## Michel Versluis - Publication list

Current *h*-index = 55 - *ISI Web of Science*

Number of peer-reviewed publications: 222

Number of citations: 10161

Researcher-ID: [F-3541-2011](https://orcid.org/0000-0001-9000-0001)

### 2023

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225. Current evidence on the use of intravascular ultrasound and optical coherence tomography in the femoropopliteal tract.  
L. Rutten, L. van de Velde, M. Versluis, and M.M.P.J. Reijnen.  
book chapter in 'Biomaterials, Education and Digital Technologies for Patient Management in Vascular Surgery'.  
ESVB GEPROVAS (Publisher) (under review).
224. The role of irrigation in endodontics.  
L.W.M van der Sluis, R. Macedo, and M. Versluis.  
book chapter 2<sup>nd</sup> Ed. in 'Lasers in Endodontics: Scientific Background and Clinical Applications'.  
Giovanni Olivi (Editor).  
Springer Nature Publishing (under review).
223. Selective evaporation at the nozzle exit in piezoacoustic inkjet printing.  
Maaïke Rump, Uddalok Sen, Roger Jeurissen, Hans Reinten, Michel Versluis, Detlef Lohse, Christian Diddens, and Tim Segers.  
Phys. Rev. Appl. (under review).
222. 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.  
J. Clin. Ultrasound (on-line, 2023)  
<https://doi.org/10.1002/jcu.23430>.
221. Buckling of lipidic ultrasound contrast agents under quasi-static load.  
Georges Chabouh, Benjamin van Elburg, Michel Versluis, Tim Segers, Catherine Quilliet, and Gwennou Coupier.  
Phil. Trans. Roy. Soc. A (accepted, 2022).  
<https://doi.org/10.48550/arXiv.2211.05863>

### 2022

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220. Vorticity-induced flow-focusing leads to bubble entrainment in an inkjet printhead: synchrotron X-ray and volume-of-fluid visualizations.  
Maaïke Rump, Youssef Saade, Uddalok Sen, Kamel Fezzaa, Michel Versluis, Detlef Lohse, and Tim Segers.  
Phys. Rev. Fluids **7**, 104004 (2022).  
<https://doi.org/10.1103/PhysRevFluids.7.104004>
219. Irrigant flow in the root canal during ultrasonic activation: a numerical fluid-structure interaction model and its validation.  
C. Boutsoukis, B. Verhaagen, L.W.M. van der Sluis, and M. Versluis  
Int. Endod. J. **55**, 938-949 (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).  
<https://doi.org/10.1111/iej.13754>
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* **41**(9), 2532–2542 (2022).  
<https://doi.org/10.1109/tmi.2022.3166443>
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).  
<https://doi.org/10.1186/s41747-022-00278-w>
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.  
*J. Endovasc. Ther.* (on-line, 2022).  
<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  
*Sci. Pharm.* **90**(1), 17 (2022)  
<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.  
*Cardiovasc. Intervent. Radiol.* **45**, 858–866 (2022).  
<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).  
<https://doi.org/10.1121/10.0009784>
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.  
*Ultrasound Med. Biol.* **48**(8), 1518–1527 (2022).  
<https://doi.org/10.1016/j.ultrasmedbio.2022.03.016>

208. Time-resolved velocity and pressure field quantification in a flow-focusing device for ultrafast microbubble production.  
Sarah Cleve, Christian Diddens, Tim Segers, Guillaume Lajoinie, and Michel Versluis.  
*Phys. Rev. Fluids* **6**, 114202 (2021).  
<https://doi.org/10.1103/PhysRevFluids.6.114202>
207. Meniscus oscillations driven by flow-focusing leading to bubble pinch-off and entrainment in a piezo-acoustic inkjet nozzle  
Arjan Fraters, Maaïke 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.  
*Phys. Rev. Appl.* **16**, 044052 (2021).  
<https://doi.org/10.1103/PhysRevApplied.16.044052>
206. The retraction of jetted slender viscoelastic liquid filaments.  
Uddalok Sen, Charu Datt, Tim Segers, Herman Wijshoff, Jacco Snoeijer, Michel Versluis, and Detlef Lohse.  
*J. Fluid Mech.* **929**, A25 (2021).  
<https://doi.org/10.1017/jfm.2021.855>
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.  
*Eur. Radiol. Exp.* **5**:31 (2021).  
<https://doi.org/10.1186/s41747-021-00230-4>
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.  
*Surg. Technol. Int.* **38**, 1410 (2021)  
<https://doi.org/10.52198/21.sti.38.cv1410>
202. Hemodynamic comparison of AFX stent-graft and CERAB configuration for treatment of aortoiliac occlusive disease.  
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.  
*J. Endovasc. Ther.* **28**(4), 623–635 (2021).  
<https://doi.org/10.1177/15266028211016431>
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.  
*Adv. Opt. Mater.* **2021**, 2100085 (2021).  
<https://doi.org/10.1002/adom.202100085>
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.  
*Rev. Sci. Instrum.* **92**, 035110 (2021).  
<https://doi.org/10.1063/5.0032140>
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.  
*J. Vis. Exp.* **172**, e62251 (2021).  
<https://doi.org/10.3791/62251>

198. Biofilm removal from an artificial isthmus and lateral canal during syringe irrigation at various flow rates: A combined experimental and Computational Fluid Dynamics approach.  
T.C. Pereira, C. Boutsoukis, 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.  
*Int. Endod. J.* **54**, 427–438 (2021).  
<https://doi.org/10.1111/iej.13420>
197. High-frequency acoustic droplet vaporization is initiated by resonance.  
Guillaume Lajoinie, Tim Segers and Michel Versluis.  
*Phys. Rev. Lett.* **126**, 034501 (2021).  
<https://doi.org/10.1103/PhysRevLett.126.034501>  
- selected as Editors' Suggestion.

## 2020

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196. Evaporation-induced crystallization of surfactants in sessile multicomponent droplets.  
Yaxing Li, Valentin Salvator, Herman Wijshoff, Michel Versluis, and Detlef Lohse.  
*Langmuir* **36**, 7545–7552 (2020).  
<https://doi.org/10.1021/acs.langmuir.0c01169>
195. Evaporating droplets on oil-wetted surfaces: suppression of the coffee-stain effect.  
Yaxing Li, Christian Diddens, Tim Segers, Herman Wijshoff, Michel Versluis, and Detlef Lohse.  
*Proc. Natl. Acad. Sci. USA* **117**, 16763 (2020).  
<https://doi.org/10.1073/pnas.2006153117>
194. Rayleigh-Taylor instability by segregation in an evaporating multicomponent microdroplet.  
Yaxing Li, Christian Diddens, Tim Segers, Herman Wijshoff, Michel Versluis, and Detlef Lohse.  
*J. Fluid Mech.* **899**, A22 (2020).  
<https://doi.org/10.1017/jfm.2020.449>
193. Focused ultrasound for opening blood-brain barrier and drug delivery monitored with positron emission tomography.  
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.  
*J. Control. Release* **324**, 303–316 (2020).  
<https://doi.org/10.1016/j.jconrel.2020.05.020>
192. Three-phase vaporization theory for laser-activated microcapsules.  
Guillaume Lajoinie, Mirjam Visscher, Emilie Blazejewski, Gert Veldhuis, and Michel Versluis.  
*Photoacoustics* **19**, 100185 (2020).  
<https://doi.org/10.1016/j.pacs.2020.100185>
191. Non-axisymmetric effects in drop-on-demand piezo-acoustic inkjet printing.  
Mark-Jan van der Meulen, Hans Reinten, Herman Wijshoff, Michel Versluis, Detlef Lohse, and Paul Steen.  
*Phys. Rev. Appl.* **13**, 054071 (2020).  
<https://doi.org/10.1103/PhysRevApplied.13.054071>
190. Ultrasound contrast agents modeling: a review.  
Michel Versluis, Eleanor Stride, Guillaume Lajoinie, Benjamin Dollet, and Tim Segers.  
*Ultrasound Med. Biol.* **46**, 2117–2144 (2020).  
<https://doi.org/10.1016/j.ultrasmedbio.2020.04.014>
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.  
*Appl. Phys. Lett.* **116**, 173701 (2020).  
<https://doi.org/10.1063/5.0003722>  
see also: American Institute of Physics Scilight  
Method developed for creating foam-free monodisperse bubbles as ultrasound contrast agents  
<https://doi.org/10.1063/10.0001213>

188. Microfluidics control the ballistic energy of thermocavitation liquid jets for needle-free injections. Loreto Oyarte Gálvez, Arjan Fraters, Herman Offerhaus, Michel Versluis, Ian Hunter, and David Fernandez Rivas. *J. Appl. Phys.* **127**, 104901 (2020).  
<https://doi.org/10.1063/1.5140264>
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. *Artificial Organs.* **44**, 818–826 (2020).  
<https://doi.org/10.1111/aor.13670>
186. Microbubble Agents: New Directions (review). Eleanor Stride, Tim Segers, Guillaume Lajoinie, Samir Cherkaoui, Thierry Bettinger, Michel Versluis, and Mark Borden. *Ultrasound Med. Biol.* **46**, 1326–1343 (2020).  
<https://doi.org/10.1016/j.ultrasmedbio.2020.01.027>
185. Validation of a novel methodology to evaluate changes in the flare geometry of renovisceral bridging stent-grafts after fenestrated endovascular aneurysm repair. 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. *J. Endovasc. Ther.* **27**, 436–444 (2020).  
<https://doi.org/10.1177/1526602820915932>
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. *Phys. Rev. Appl.* **13**, 024075 (2020).  
<https://doi.org/10.1103/PhysRevApplied.13.024075>

## 2019

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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. *Frontiers Pharmacology* **10**, 1463 (2019).  
doi:10.3389/fphar.2019.01463
182. Sonoprinting liposomes on tumor spheroids by microbubbles and ultrasound. 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. *J. Control. Release* **316**, 79–92 (2019).  
doi:10.1016/j.jconrel.2019.10.051
181. Inkjet nozzle failure by heterogeneous nucleation: bubble entrainment, cavitation, and diffusive growth. Arjan Fraters, Marc van den Berg, Youri de Loore, Hans Reinten, Herman Wijshoff, Detlef Lohse, Michel Versluis, and Tim Segers. *Phys. Rev. Applied* **12**, 064019 (2019).  
doi:10.1103/PhysRevApplied.12.064019  
- selected as Editors' Suggestion.
180. Shortwave infrared imaging setup to study entrained air bubble dynamics in a MEMS-based piezo-acoustic inkjet printhead. Arjan Fraters, Tim Segers, Marc van den Berg, Hans Reinten, Herman Wijshoff, Detlef Lohse, and Michel Versluis. *Exp. Fluids* **60**:123 (2019).  
doi:10.1007/s00348-019-2772-8

179. Sonoprinting of nanoparticle-loaded microbubbles: unraveling the multi-timescale mechanism. Silke Roovers, Guillaume Lajoinie, Ine De Cock, Toon Brans, Heleen Dewitte, Kevin Braeckmans, Michel Versluis, Stefaan De Smedt, and Ine Lentacker. *Biomaterials* **217**, 119250 (2019). doi:10.1016/j.biomaterials.2019.119250
178. Microdroplets nucleation by dissolution of a multicomponent drop in a host liquid. Huanshu Tan, Christian Diddens, Ali Mohammed, Junyi Li, Michel Versluis, Xuehua Zhang, and Detlef Lohse. *J. Fluid Mech.* **870**, 217–246 (2019). doi:10.1017/jfm.2019.207
177. Multicore liquid perfluorocarbon-loaded multimodal nanoparticles for stable ultrasound and <sup>19</sup>F MRI applied to in-vivo cell tracking. 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. *Adv. Funct. Mater.* **29**, 1806485 (2019) doi:10.1002/adfm.201806485
176. Assessment of changes in stent graft geometry after chimney EVAS. S.P. Overeem, S.R. Goudeketting, R.C.L. Schuurmann, J.M. Heyligers, H.J.M. Verhagen, M. Versluis, and J.P.P.M. de Vries *J. Vasc. Surg.* **70**(6), 1754–1764 (2019). doi: 10.1016/j.jvs.2019.02.058  
see also: Invited Commentary by Timothy A. Resch *J. Vasc. Surg.* **70**, 1765 (2019). doi: 10.1016/j.jvs.2019.03.068
175. Gravitational effect in evaporating binary microdroplets. Yaxing Li, Christian Diddens, Pengyu Lv, Herman Wijshoff, Michel Versluis, and Detlef Lohse. *Phys. Rev. Lett.* **122**, 114501 (2019). doi:10.1103/PhysRevLett.122.114501
174. The role of ultrasound-driven microbubble dynamics in drug delivery: from microbubble fundamentals to clinical translation (review). Silke Roovers, Tim Segers, Guillaume Lajoinie, Michel Versluis, Stefaan De Smedt, and Ine Lentacker. *Langmuir* **35**, 10173–10191 (2019). doi:10.1021/acs.langmuir.8b03779
173. Laser-activated microparticles for multimodal imaging: ultrasound and photoacoustics. Mirjam Visscher, Guillaume Lajoinie, Emilie Blazejewski, Gert Veldhuis, and Michel Versluis. *Phys. Med. Biol.* **64**(3), 034001 (2019). doi:10.1088/1361-6560/aaf4a2
172. Haemodynamics in different flow lumen configurations of Customized Aortic Repair for infrarenal aortic aneurysms. S.P. Overeem, J.P.P.M. de Vries, J.T. Boersen, C.H. Slump, M.M.P.J. Reijnen, M. Versluis, and E. Groot Jebbink. *Eur. J. Vasc. Endovasc. Surg.* **57**(5), 709–718 (2019). doi: 10.1016/j.ejvs.2018.11.012
171. Meta-analysis of individual patient data after kissing stent treatment for aortoiliac occlusive disease. Erik Groot Jebbink, Suzanne Holewijn, Michel Versluis, Frederike A.B. Grimme, Jan Willem Hinnen, Sebastiaan Sixt, John F. Angle, Walter Dorigo, and Michel M.P.J. Reijnen. *J. Endovasc. Ther.* **26**(1), 31–40 (2019). doi:10.1177/1526602818810535

## 2018

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170. High-precision acoustic measurements of the non-linear dilatational elasticity of phospholipid-coated monodisperse microbubbles.  
Tim Segers, Emmanuel Gaud, Michel Versluis, and Peter Frinking.  
*Soft Matter* **14**, 9550–9561 (2018).  
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see also: Back Cover  
*Soft Matter* **14**, 9732 (2018)  
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169. Giant and explosive plasmonic bubbles by delayed nucleation.  
Yuliang Wang, Mikhail E. Zaytsev, Guillaume Lajoinie, Hai Le The, Jan C. T. Eijkel, Albert van den Berg, Michel Versluis, Bert M. Weckhuysen, Xuehua Zhang, Harold J. W. Zandvliet, and Detlef Lohse.  
*Proc. Natl. Acad. Sci. USA* **115** (30), 7676–7681 (2018).  
doi:10.1073/pnas.1805912115
168. High-frame-rate contrast-enhanced US particle image velocimetry in the abdominal aorta: first human results.  
Stefan Engelhard, Jason Voorneveld, Hendrik J. Vos, Jos J.M. Westenberg, Frank J.H. Gijzen, Pavel Taimr, Michel Versluis, Nico de Jong, Johan G. Bosch, Michel M.P.J. Reijnen, and Erik Groot Jebbink.  
*Radiology* **289** (1), 119–125 (2018).  
doi:10.1148/radiol.2018172979  
see also: Editorial by Glen Morrell  
*Radiology* 289, 126–127 (2018).  
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167. High-frame rate contrast-enhanced ultrasound for velocimetry in the human abdominal aorta.  
J. Voorneveld, S. Engelhard, H.J. Vos, M.M.P.J. Reijnen, F. Gijzen, M. Versluis, E. Groot Jebbink, N. de Jong, and J.G. Bosch.  
*IEEE Trans UFFC* **65**(12), 2245–2254 (2018).  
doi:10.1109/tuffc.2018.2846416
166. Evaporation-triggered segregation of sessile binary droplets.  
Yaxing Li, Pengyu Lv, Christian Diddens, Huanshu Tan, Herman Wijshoff, Michel Versluis, and Detlef Lohse.  
*Phys. Rev. Lett.* **120**, 224501 (2018).  
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165. Non-spherical oscillations drive the ultrasound-mediated release from targeted microbubbles.  
Guillaume Lajoinie, Ying Luan, Erik Gelderblom, Benjamin Dollet, Frits Mastik, Ine Lentacker, Heleen Dewitte, Nico de Jong, and Michel Versluis.  
*Nature Comm. Phys.* **1**, 22 (2018).  
doi:10.1038/s42005-018-0020-9  
- selected as first year anniversary Editors' Pick.
164. Layered acoustofluidic resonators for the simultaneous optical and acoustic characterization of cavitation dynamics, microstreaming and biological effects.  
V. Pereno, M. Aron, O. Vince, C. Mannaris, A. Seth, M. de Saint Victor, G. Lajoinie, M. Versluis, C. Coussios, D. Carugo, and E. Stride.  
*Biomicrofluidics* **12**, 034109 (2018).  
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163. Monodisperse versus polydisperse ultrasound contrast agents: nonlinear response, sensitivity, and deep tissue imaging potential.  
Tim Segers, Pieter Kruizinga, Maarten P. Kok, Guillaume Lajoinie, Nico de Jong, and Michel Versluis.  
*Ultrasound Med. Biol.* **44**(7), 1482–1492 (2018).  
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162. Three-year outcome of the covered endovascular reconstruction of the aortic bifurcation technique for aortoiliac occlusive disease.  
Kim Taeymans, Erik Groot Jebbink, Suzanne Holewijn, Jasper M. Martens, Michel Versluis, Peter C.J.M. Goverde, and Michel M.P.J. Reijnen.  
*J. Vasc. Surg.* **67**(5), 1438–1447 (2018).  
doi:10.1016/j.jvs.2017.09.015
161. Partial renal coverage in EVAR causes unfavorable renal flow patterns in an infrarenal aneurysm model.  
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.  
*J. Vasc. Surg.* **67**(5), 1585–1594 (2018).  
doi:10.1016/j.jvs.2017.05.092
160. Acoustic characterization of a vessel-on-a-chip microfluidic system for ultrasound-mediated drug delivery.  
Inés Beekers, Tom van Rooij, Martin Verweij, Michel Versluis, Nico de Jong, Sebastiaan Trietsch, and Klazina Kooiman.  
*IEEE Trans UFFC* **65**(4), 570–581 (2018).  
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159. Cleaning lateral morphological features of the root canal: the role of streaming and cavitation.  
J.P. Robinson, R.G. Macedo, B. Verhaagen, M. Versluis, P.R. Cooper, L.W.M. van der Sluis, and A.D. Walmsley.  
*Int. Endod. J.* **51**, e55–e64 (2018).  
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158. Optical verification and in-vitro characterization of two commercially available acoustic bubble counters for cardiopulmonary bypass system.  
Tim Segers, Marco C. Stehouwer, Filip M.J.J. de Somer, Bastian A. de Mol, and Michel Versluis.  
*Perfusion* **33**, 16–24 (2018).  
doi: 10.1177/0267659117722595
157. Brandaris ultra high-speed imaging facility.  
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