

Michel Versluis - Publication list

Current *h*-index = 47 - *ISI Web of Science*

Number of peer-reviewed publications: 197

Number of citations: 7571

Researcher-ID: <http://www.researcherid.com/rid/F-3541-2011>

2020

202. 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. (under review).
201. 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. (under review).
200. High-frequency acoustic droplet vaporization is initiated by resonance.
Guillaume Lajoinie, Tim Segers and Michel Versluis.
Phys. Rev. Lett. (under review).
199. 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.
Radiology (under review).
198. 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. (under review).
197. 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. (accepted, 22 September, 2020)
<https://doi.org/10.1111/iej.13420>
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 lubricated 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 new methodology to evaluate changes in the geometry of visceral 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>

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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 ¹⁹F 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

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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). doi:10.1039/c8cm00918j
see also: Back Cover
Soft Matter **14**, 9732 (2018)
doi:10.1039/c8sm90238k
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.)
doi.org/10.1148/radiol.2018181175
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). doi:10.1103/PhysRevLett.120.224501
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).
doi:10.1063/1.5023729
- selected as the AIP Editor's Pick.
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).
doi:10.1016/j.ultrasmedbio.2018.03.019
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).
doi:10.1109/tuffc.2018.2803137
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).
doi:10.1111/iej.12804
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.
Guillaume Lajoinie, Nico de Jong and Michel Versluis.
in "The micro-world observed by ultra high-speed cameras", K. Tsuji (Editor).
ISBN 978-3-319-61490-8
Springer International Publishing (2018).
doi:10.1007/978-3-319-61491-5_3

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156. Universal equations for the coalescence probability and long-term size stability of phospholipid-coated monodisperse microbubbles formed by flow-focusing
Tim Segers, Detlef Lohse, Michel Versluis, and Peter Frinking.
Langmuir **33**, 10329–10339 (2017).
doi:10.1021/acs.langmuir.7b02547

155. Apparatus to control and visualize the impact of a high-energy laser pulse on a liquid target. Alexander L. Klein, Detlef Lohse, Michel Versluis, and Hanneke Gelderblom. *Rev. Sci. Instrum.* **88**, 095102 (2017).
doi:10.1063/1.4989634
154. Oblique drop impact onto a deep liquid pool. Marise V. Gielen, Pascal Sleutel, Jos Benschop, Michel Riepen, Victoria Voronina, Detlef Lohse, Jacco H. Snoeijer, Michel Versluis, and Hanneke Gelderblom. *Phys. Rev. Fluids* **2**, 083602 (2017).
doi:10.1103/PhysRevFluids.2.083602
153. On the dynamics of StemBells: microbubble-conjugated stem cells for ultrasound controlled delivery. Tom Kokhuis, Benno A. Naaijken, Lynda J.M. Juffermans, Otto Kamp, Antonius F.W. van der Steen, Michel Versluis, and Nico de Jong. *Appl. Phys. Lett.* **111**, 023701 (2017).
doi:10.1063/1.4993172
152. Influence of iliac stenotic lesions on endovascular flow patterns near the CERAB configuration. Erik Groot Jebbink, Stefan Engelhard, Guillaume Lajoinie, Michel Versluis, and Michel Reijnen. *J. Endovasc. Ther.* **24**, 800-808 (2017).
doi:10.1177/1526602817732952
151. Focal areas of increased lipid concentration on the coating of microbubbles during short tone-burst ultrasound insonification. Klazina Kooiman, Tom van Rooij, Bin Qin, Frits Mastik, Hendrik J. Vos, Michel Versluis, Alexander L. Klibanov, Nico de Jong, Flordeliza S. Villanueva, and Xucai Chen. *PLoS ONE* **12**(7): e0180747 (2017).
doi:10.1371/journal.pone.0180747
150. Evaporating pure, binary & ternary droplets: thermal effects & axial symmetry breaking. Christian Diddens, Huanshu Tan, Pengyu Lv, Michel Versluis, J.G.M. Kuerten, Xuehua Zhang, and Detlef Lohse. *J. Fluid. Mech.* **823**, 470–497 (2017).
doi:10.1017/jfm.2017.312
149. Laser-driven resonance of dye-doped oil-coated microbubbles: experimental study. Guillaume Lajoinie, Jeong-Yu Lee, Joshua Owen, Pieter Kruizinga, Nico de Jong, Gijs van Soest, Eleanor Stride, and Michel Versluis. *J. Acoust. Soc. Am.* **141**, 4832–4846 (2017).
doi:10.1121/1.4985560
148. Laser-activated polymeric microcapsules for ultrasound imaging and therapy: in vitro feasibility. G. Lajoinie, T. van Rooij, I. Skachkov, E. Blazejewski, G. Veldhuis, N. de Jong, K. Kooiman, and M. Versluis. *Biophys. J.* **112**, 1894–1907 (2017).
doi:10.1016/j.bpj.2017.03.033
147. The influence of infrarenal neck diameter and positioning of the Nellix EVAS endosystem on suprarenal and renal flow: an in-vitro study. J.T. Boersen, E. Groot Jebbink, L. van de Velde, G. Lajoinie, M. Versluis, C.H. Slump, D.N. Ku, J.P.P.M. de Vries, and M.M.P.J. Reijnen. *J. Endovasc. Ther.* **24**, 677–687 (2017).
doi:10.1177/1526602817719465
146. Laser-driven resonance of dye-doped oil-coated microbubbles: a theoretical and numerical study. Guillaume Lajoinie, Erik Linnartz, Pieter Kruizinga, Nico de Jong, Eleanor Stride, Gijs van Soest, and Michel Versluis. *J. Acoust. Soc. Am.* **141**, 2727–2745 (2017).
doi:10.1121/1.4979257

145. Self-wrapping of an ouzo drop induced by evaporation on a superamphiphobic surface. Huanshu Tan, Christian Diddens, Michel Versluis, Hans-Jürgen Butt, Detlef Lohse, and Xuehua Zhang. *Soft Matter* **13**, 2749-2759 (2017). doi:10.1039/c6sm02860h
see also: Inside Front Cover *Soft Matter* **13**, 2720 (2017) doi:10.1039/c7sm90064c
144. Temperature evolution of pre-heated irrigant injected into a root canal ex-vivo. Ricardo Macedo, Bram Verhaagen, Michel Versluis, and Luc van der Sluis. *Clin. Oral Invest.* **21**, 2841–2850 (2017). doi:10.1007/s00784-017-2086-2
143. Flow and wall shear stress characterization following endovascular aneurysm repair and endovascular aneurysm sealing in an infrarenal aneurysm model. Johannes T. Boersen, Erik Groot Jebbink, Michel Versluis, Cornelis H. Slump, David N. Ku, Jean-Paul P.M. de Vries, and Michel M.P.J. Reijnen. *J. Vasc. Surg.* **66**, 1844–1853 (2017). doi:10.1016/j.jvs.2016.10.077
142. Ultrafast imaging method to measure surface tension and viscosity of inkjet printed droplets in flight. Hendrik J.J. Staat, Arjan van der Bos, Marc van den Berg, Hans Reinten, Herman Wijshoff, Michel Versluis, and Detlef Lohse. *Exp. Fluids* **58**:2 (2017). doi:10.1007/s00348-016-2284-8
141. Hemodynamic comparison of stent configurations used for aortoiliac occlusive disease. Erik Groot Jebbink, Varghese Mathai, Jorrit Boersen, Chao Sun, Kees Slump, Peter C.J.M. Goverde, Michel Versluis, and Michel M.P.J. Reijnen. *J. Vasc. Surg.* **66**, 251–260 (2017). doi:10.1016/j.jvs.2016.07.128

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140. Combined optical sizing and acoustical characterization of single freely-floating microbubbles. Ying Luan, Guillaume Renaud, Jason L. Raymond, Tim Segers, Guillaume Lajoinie, Robert Beurskens, Frits Mastik, Tom J.A. Kokhuis, Antonius F.W. van der Steen, Michel Versluis, and Nico de Jong. *Appl. Phys. Lett.* **109**, 234104 (2016).
139. Loss of gas from echogenic liposomes exposed to pulsed ultrasound. Jason L. Raymond, Ying Luan, Tao Peng, Shao-Ling Huang, David D. McPherson, Michel Versluis, Nico de Jong, and Christy K. Holland. *Phys. Med. Biol.* **61**, 8321–8339 (2016).
- selected by the Editors as a PMB Highlight of 2016.
138. Ballistic energy conversion: physical modeling and optical characterization. Yanbo Xie, Diederik Bos, Mark-Jan van der Meulen, Michel Versluis, Albert van den Berg, and Jan C.T. Eijkel. *Nano Energy* **30**, 252–259 (2016).
137. Uniform scattering and attenuation of acoustically sorted ultrasound contrast agents: modeling and experiments. Tim Segers, Nico de Jong, and Michel Versluis. *J. Acoust. Soc. Am.* **140**, 2506–2517 (2016).
136. Ultra high-speed dynamics of micron-sized inertial cavitation from nanoparticles. James J. Kwan, Guillaume Lajoinie, Nico de Jong, Eleanor Stride, Michel Versluis, and Constantin C. Coussios. *Phys. Rev. Applied* **6**, 044004 (2016).

135. Redox control of capillary filling speed in poly(ferrocenylsilane)-modified microfluidic channels for switchable delay valves.
Lionel Dos Ramos, Guillaume Lajoinie, Bernard D. Kieviet, Sissi de Beer, Michel Versluis, Mark A. Hempenius, and G. Julius Vancso.
Eur. Polym. J. **83**, 507–516 (2016).
134. Experimental techniques for retrieving flow information from within inkjet nozzles.
Mark-Jan van der Meulen, Hans Reinten, Frits Dijkman, Detlef Lohse, and Michel Versluis.
J. Imaging Sci. Technol. **60**, 40502 (2016).
133. On the stability of monodisperse phospholipid-coated microbubbles formed by flow-focusing at high production rates.
Tim Segers, Leonie de Rond, Nico de Jong, Mark Borden, and Michel Versluis.
Langmuir **32**, 3937–3944 (2016).
132. The role of Irrigation in Endodontics.
L. van der Sluis, B. Verhaagen, R. Macedo and M. Versluis.
in 'Lasers in Endodontics'.
Giovanni Olivi, Roeland de Moor, and Enrico DiVito (Editors).
ISBN 978-3-319-19326-7, Springer International Publishing (2016).
131. In vitro analysis of gas bubble formation and its effect on impedance during electroporation ablation.
R. van Es, J. Vink, G. Lajoinie, M. Versluis, I. Byrd, K. Neven, P. Doevendans, and F. Wittkamp.
Europace **18**: i141 (2016).
130. Study of the geometry in a 3D flow-focusing device.
Elena Castro-Hernández, Maarten P. Kok, Michel Versluis, and David Fernández-Rivas.
Microfluid Nanofluid **20**:40 (2016).
129. *In vitro* methods to study bubble-cell interactions: fundamentals, and therapeutic applications (review).
Guillaume Lajoinie, Ine De Cock, Constantin C. Coussios, Ine Lentacker, Séverine Le Gac, Eleanor Stride, and Michel Versluis.
Biomicrofluidics **10**, 011501 (2016).
128. Sonoprinting and the importance of microbubble loading for the ultrasound mediated delivery of nanoparticles.
Ine De Cock, Guillaume Lajoinie, Michel Versluis, Stefaan C. De Smedt, and Ine Lentacker.
Biomaterials **83**, 294–307 (2016).
127. Droplets, Bubbles and Ultrasound Interactions.
Oleksandr Shpak, Martin Verweij, Nico de Jong, and Michel Versluis.
in 'Therapeutic Ultrasound', *Advances in Experimental Medicine and Biology* 880,
J.-M. Escoffre, A. Bouakaz (Editors).
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126. Root canal irrigation.
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