

# Ine Lentacker

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

4,438  
citations

117625

34  
h-index

123424

61  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding ultrasound induced sonoporation: Definitions and underlying mechanisms. <i>Advanced Drug Delivery Reviews</i> , 2014, 72, 49-64.	13.7	598
2	The dawn of mRNA vaccines: The COVID-19 case. <i>Journal of Controlled Release</i> , 2021, 333, 511-520.	9.9	276
3	Design and Evaluation of Doxorubicin-containing Microbubbles for Ultrasound-triggered Doxorubicin Delivery: Cytotoxicity and Mechanisms Involved. <i>Molecular Therapy</i> , 2010, 18, 101-108.	8.2	275
4	Ultrasound and microbubble mediated drug delivery: Acoustic pressure as determinant for uptake via membrane pores or endocytosis. <i>Journal of Controlled Release</i> , 2015, 197, 20-28.	9.9	220
5	Drug loaded microbubble design for ultrasound triggered delivery. <i>Soft Matter</i> , 2009, 5, 2161.	2.7	212
6	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1296-1325.	1.5	193
7	Three decades of messenger RNA vaccine development. <i>Nano Today</i> , 2019, 28, 100766.	11.9	177
8	Ultrasound-Responsive Polymer-Coated Microbubbles That Bind and Protect DNA. <i>Langmuir</i> , 2006, 22, 7273-7278.	3.5	169
9	Comparison of Gold Nanoparticle Mediated Photoporation: Vapor Nanobubbles Outperform Direct Heating for Delivering Macromolecules in Live Cells. <i>ACS Nano</i> , 2014, 8, 6288-6296.	14.6	157
10	Self-assembled liposome-loaded microbubbles: The missing link for safe and efficient ultrasound triggered drug-delivery. <i>Journal of Controlled Release</i> , 2011, 152, 249-256.	9.9	151
11	The Role of Ultrasound-Driven Microbubble Dynamics in Drug Delivery: From Microbubble Fundamentals to Clinical Translation. <i>Langmuir</i> , 2019, 35, 10173-10191.	3.5	140
12	Ultrasound assisted siRNA delivery using PEG-siPlex loaded microbubbles. <i>Journal of Controlled Release</i> , 2008, 126, 265-273.	9.9	115
13	Crucial factors and emerging concepts in ultrasound-triggered drug delivery. <i>Journal of Controlled Release</i> , 2012, 164, 248-255.	9.9	114
14	Co-delivery of nucleoside-modified mRNA and TLR agonists for cancer immunotherapy: Restoring the immunogenicity of immunosilent mRNA. <i>Journal of Controlled Release</i> , 2017, 266, 287-300.	9.9	98
15	mRNA-Lipoplex loaded microbubble contrast agents for ultrasound-assisted transfection of dendritic cells. <i>Biomaterials</i> , 2011, 32, 9128-9135.	11.4	97
16	The potential of antigen and TriMix sonoporation using mRNA-loaded microbubbles for ultrasound-triggered cancer immunotherapy. <i>Journal of Controlled Release</i> , 2014, 194, 28-36.	9.9	95
17	Sonoprinting and the importance of microbubble loading for the ultrasound mediated cellular delivery of nanoparticles. <i>Biomaterials</i> , 2016, 83, 294-307.	11.4	89
18	Ultrasound Exposure of Lipoplex Loaded Microbubbles Facilitates Direct Cytoplasmic Entry of the Lipoplexes. <i>Molecular Pharmaceutics</i> , 2009, 6, 457-467.	4.6	83

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19	Focal Delivery of AAV2/1-transgenes Into the Rat Brain by Localized Ultrasound-induced BBB Opening. <i>Molecular Therapy - Nucleic Acids</i> , 2013, 2, e73.	5.1	75
20	Particle-mediated Intravenous Delivery of Antigen mRNA Results in Strong Antigen-specific T-cell Responses Despite the Induction of Type I Interferon. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e326.	5.1	75
21	Doxorubicin liposome-loaded microbubbles for contrast imaging and ultrasound-triggered drug delivery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 78-87.	3.0	69
22	The ReNAissanCe of mRNA-based cancer therapy. <i>Expert Review of Vaccines</i> , 2015, 14, 235-251.	4.4	65
23	Nanoparticle design to induce tumor immunity and challenge the suppressive tumor microenvironment. <i>Nano Today</i> , 2014, 9, 743-758.	11.9	60
24	Strategies for controlling the innate immune activity of conventional and self-amplifying mRNA therapeutics: Getting the message across. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113900.	13.7	59
25	Wanted and unwanted properties of surface PEGylated nucleic acid nanoparticles in ocular gene transfer. <i>Journal of Controlled Release</i> , 2007, 122, 226-235.	9.9	57
26	Theranostic mRNA-loaded Microbubbles in the Lymphatics of Dogs: Implications for Drug Delivery. <i>Theranostics</i> , 2015, 5, 97-109.	10.0	55
27	mRNA in cancer immunotherapy: beyond a source of antigen. <i>Molecular Cancer</i> , 2021, 20, 48.	19.2	46
28	New strategies for nucleic acid delivery to conquer cellular and nuclear membranes. <i>Journal of Controlled Release</i> , 2008, 132, 279-288.	9.9	45
29	Acoustical Properties of Individual Liposome-Loaded Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 2174-2185.	1.5	45
30	<i>In vitro</i> methods to study bubble-cell interactions: Fundamentals and therapeutic applications. <i>Biomicrofluidics</i> , 2016, 10, 011501.	2.4	45
31	Broadening the Message: A Nanovaccine Co-loaded with Messenger RNA and Î±-GalCer Induces Antitumor Immunity through Conventional and Natural Killer T Cells. <i>ACS Nano</i> , 2019, 13, 1655-1669.	14.6	44
32	Elucidating the Mechanisms Behind Sonoporation with Adeno-Associated Virus-Loaded Microbubbles. <i>Molecular Pharmaceutics</i> , 2011, 8, 2244-2251.	4.6	38
33	Targeted Liposome-Loaded Microbubbles for Cell-Specific Ultrasound-Triggered Drug Delivery. <i>Small</i> , 2013, 9, 4027-4035.	10.0	38
34	Non-spherical oscillations drive the ultrasound-mediated release from targeted microbubbles. <i>Communications Physics</i> , 2018, 1, .	5.3	35
35	mRNA Encoding a Bispecific Single Domain Antibody Construct Protects against Influenza A Virus Infection in Mice. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 20, 777-787.	5.1	32
36	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2102472.	14.9	31

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37	Design and evaluation of theranostic perfluorocarbon particles for simultaneous antigen-loading and 19F-MRI tracking of dendritic cells. <i>Journal of Controlled Release</i> , 2013, 169, 141-149.	9.9	28
38	Sonoprinting of nanoparticle-loaded microbubbles: Unraveling the multi-timescale mechanism. <i>Biomaterials</i> , 2019, 217, 119250.	11.4	27
39	Microvascular Injury and Perfusion Changes Induced by Ultrasound and Microbubbles in a Machine-Perfused Pig Liver. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2676-2686.	1.5	20
40	Can Ultrasound Solve the Transport Barrier of the Neural Retina?. <i>Pharmaceutical Research</i> , 2008, 25, 2657-2665.	3.5	19
41	Biocompatible Lipid-Coated Persistent Luminescent Nanoparticles for In Vivo Imaging of Dendritic Cell Migration. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900371.	2.3	16
42	Nanoparticle-sensitized photoporation enables inflammasome activation studies in targeted single cells. <i>Nanoscale</i> , 2021, 13, 6592-6604.	5.6	16
43	Enhancing Nucleic Acid Delivery with Ultrasound and Microbubbles. <i>Methods in Molecular Biology</i> , 2013, 948, 195-204.	0.9	15
44	Tumor cell killing efficiency of doxorubicin loaded microbubbles after ultrasound exposure. <i>Journal of Controlled Release</i> , 2010, 148, e113-e114.	9.9	14
45	Tri-modal In vivo Imaging of Pancreatic Islets Transplanted Subcutaneously in Mice. <i>Molecular Imaging and Biology</i> , 2018, 20, 940-951.	2.6	13
46	Choose your models wisely: How different murine bone marrow-derived dendritic cell protocols influence the success of nanoparticulate vaccines in vitro. <i>Journal of Controlled Release</i> , 2014, 195, 138-146.	9.9	12
47	Enhancing Nucleic Acid Delivery with Ultrasound and Microbubbles. <i>Methods in Molecular Biology</i> , 2019, 1943, 241-251.	0.9	10
48	Challenges for labeling and longitudinal tracking of adoptively transferred autoreactive T lymphocytes in an experimental type-1 diabetes model. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 295-305.	2.0	9
49	Physical transfection technologies for macrophages and dendritic cells in immunotherapy. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 229-247.	5.0	8
50	Focal delivery of AAV2/1-transgenes into the rat brain by localized ultrasound-induced BBB Opening. <i>Annals of Neurosciences</i> , 2014, 21, 22.	1.7	8
51	Ultrasound responsive doxorubicin-loaded microbubbles; towards an easy applicable drug delivery platform. <i>Journal of Controlled Release</i> , 2010, 148, e59-e60.	9.9	7
52	Dynamic Fluorescence Microscopy of Cellular Uptake of Intercalating Model Drugs by Ultrasound-Activated Microbubbles. <i>Molecular Imaging and Biology</i> , 2017, 19, 683-693.	2.6	7
53	Longitudinal In Vivo Assessment of Host-Microbe Interactions in a Murine Model of Pulmonary Aspergillosis. <i>IScience</i> , 2019, 20, 184-194.	4.1	7
54	Cytosolic delivery of gadolinium <i>via</i> photoporation enables improved <i>in vivo</i> magnetic resonance imaging of cancer cells. <i>Biomaterials Science</i> , 2021, 9, 4005-4018.	5.4	6

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55	Ultrasound assisted drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2014, 72, 1-2.	13.7	5
56	Fluorine MR Imaging Probes Dynamic Migratory Profiles of Perfluorocarbon-Loaded Dendritic Cells After Streptozotocin-Induced Inflammation. <i>Molecular Imaging and Biology</i> , 2022, 24, 321-332.	2.6	5
57	Nanoparticle mediated targeting of toll-like receptors to treat colorectal cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 172, 16-30.	4.3	4
58	Adeno-associated virus loaded microbubbles as a tool for targeted gene delivery. <i>Journal of Controlled Release</i> , 2010, 148, e59.	9.9	2
59	Liposome shedding from a vibrating microbubble on nanoseconds timescale. , 2013, , .		2
60	Laser-induced vapor nanobubbles for efficient delivery of macromolecules in live cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
61	Evaluation of Liposome-Loaded Microbubbles as a Theranostic Tool in a Murine Collagen-Induced Arthritis Model. <i>Scientia Pharmaceutica</i> , 2022, 90, 17.	2.0	1
62	542. Development and Characterization of Ultrasound Responsive Microbubbles for Gene Delivery. <i>Molecular Therapy</i> , 2006, 13, S208-S209.	8.2	0
63	Optical characterization of individual liposome-loaded microbubbles. , 2011, , .		0
64	Evaluation of doxorubicin-containing microbubbles for ultrasound-triggered delivery. , 2011, , .		0
65	Characterizing ultrasound-controlled drug release by high-speed fluorescence imaging. , 2012, , .		0