

Twan Lammers

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

243
papers

16,838
citations

70
h-index

124
g-index

266
ext. papers

20,054
ext. citations

11.5
avg, IF

7.19
L-index

#	Paper	IF	Citations
243	Drug targeting to tumors: principles, pitfalls and (pre-) clinical progress. <i>Journal of Controlled Release</i> , 2012 , 161, 175-87	11.7	983
242	Challenges and strategies in anti-cancer nanomedicine development: An industry perspective. <i>Advanced Drug Delivery Reviews</i> , 2017 , 108, 25-38	18.5	687
241	Theranostic nanomedicine. <i>Accounts of Chemical Research</i> , 2011 , 44, 1029-38	24.3	670
240	Tumor targeting via EPR: Strategies to enhance patient responses. <i>Advanced Drug Delivery Reviews</i> , 2018 , 130, 17-38	18.5	618
239	Smart cancer nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 1007-1017	28.7	447
238	Tumour-targeted nanomedicines: principles and practice. <i>British Journal of Cancer</i> , 2008 , 99, 392-7	8.7	421
237	Iron oxide nanoparticles: Diagnostic, therapeutic and theranostic applications. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 302-325	18.5	412
236	Core-Crosslinked Polymeric Micelles: Principles, Preparation, Biomedical Applications and Clinical Translation. <i>Nano Today</i> , 2015 , 10, 93-117	17.9	346
235	Noninvasive Imaging of Nanomedicines and Nanotheranostics: Principles, Progress, and Prospects. <i>Chemical Reviews</i> , 2015 , 115, 10907-37	68.1	315
234	Nanotheranostics and image-guided drug delivery: current concepts and future directions. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1899-912	5.6	305
233	Specific targeting of tumor angiogenesis by RGD-conjugated ultrasmall superparamagnetic iron oxide particles using a clinical 1.5-T magnetic resonance scanner. <i>Cancer Research</i> , 2007 , 67, 1555-62	10.1	302
232	Applications of nanoparticles for diagnosis and therapy of cancer. <i>British Journal of Radiology</i> , 2015 , 88, 20150207	3.4	262
231	Passive versus active tumor targeting using RGD- and NGR-modified polymeric nanomedicines. <i>Nano Letters</i> , 2014 , 14, 972-81	11.5	244
230	Recent progress in nanomedicine: therapeutic, diagnostic and theranostic applications. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 1159-66	11.4	234
229	Ultrasound microbubbles for molecular diagnosis, therapy, and theranostics. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 345-8	8.9	219
228	Core-crosslinked polymeric micelles with controlled release of covalently entrapped doxorubicin. <i>Biomaterials</i> , 2010 , 31, 7797-804	15.6	218
227	Simultaneous delivery of doxorubicin and gemcitabine to tumors in vivo using prototypic polymeric drug carriers. <i>Biomaterials</i> , 2009 , 30, 3466-75	15.6	201

226	PLGA-Based Nanoparticles in Cancer Treatment. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1260	5.6	200
225	Multidrug resistance: Physiological principles and nanomedical solutions. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1852-1865	18.5	189
224	Combining Nanomedicine and Immunotherapy. <i>Accounts of Chemical Research</i> , 2019 , 52, 1543-1554	24.3	183
223	CCL2-dependent infiltrating macrophages promote angiogenesis in progressive liver fibrosis. <i>Gut</i> , 2014 , 63, 1960-1971	19.2	183
222	Superparamagnetic iron oxide nanoparticles encapsulated in biodegradable thermosensitive polymeric micelles: toward a targeted nanomedicine suitable for image-guided drug delivery. <i>Langmuir</i> , 2009 , 25, 2060-7	4	170
221	Targeting iron metabolism in drug discovery and delivery. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 400-421	42.1	162
220	Nanoparticles for imaging: top or flop?. <i>Radiology</i> , 2014 , 273, 10-28	20.5	158
219	Strategies for encapsulation of small hydrophilic and amphiphilic drugs in PLGA microspheres: State-of-the-art and challenges. <i>International Journal of Pharmaceutics</i> , 2016 , 499, 358-367	6.5	156
218	Complete Regression of Xenograft Tumors upon Targeted Delivery of Paclitaxel via π-π Stacking Stabilized Polymeric Micelles. <i>ACS Nano</i> , 2015 , 9, 3740-52	16.7	149
217	Recent advances in molecular, multimodal and theranostic ultrasound imaging. <i>Advanced Drug Delivery Reviews</i> , 2014 , 72, 15-27	18.5	147
216	Pharmacological and physical vessel modulation strategies to improve EPR-mediated drug targeting to tumors. <i>Advanced Drug Delivery Reviews</i> , 2017 , 119, 44-60	18.5	139
215	Tumor-targeted nanomedicines for cancer theranostics. <i>Pharmacological Research</i> , 2017 , 115, 87-95	10.2	139
214	Personalized nanomedicine. <i>Clinical Cancer Research</i> , 2012 , 18, 4889-94	12.9	138
213	Iron oxide nanoparticle-containing microbubble composites as contrast agents for MR and ultrasound dual-modality imaging. <i>Biomaterials</i> , 2011 , 32, 6155-63	15.6	132
212	Enhancing Tumor Penetration of Nanomedicines. <i>Biomacromolecules</i> , 2017 , 18, 1449-1459	6.9	127
211	Role of type 2C protein phosphatases in growth regulation and in cellular stress signaling. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2007 , 42, 437-61	8.7	123
210	Cancer nanomedicine: Is targeting our target?. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	122
209	Peptide-functionalized gold nanorods increase liver injury in hepatitis. <i>ACS Nano</i> , 2012 , 6, 8767-77	16.7	116

208	Effect of physicochemical modification on the biodistribution and tumor accumulation of HPMA copolymers. <i>Journal of Controlled Release</i> , 2005 , 110, 103-18	11.7	116
207	Nanomedicines for inflammatory arthritis: head-to-head comparison of glucocorticoid-containing polymers, micelles, and liposomes. <i>ACS Nano</i> , 2014 , 8, 458-466	16.7	114
206	Polymeric nanomedicines for image-guided drug delivery and tumor-targeted combination therapy. <i>Nano Today</i> , 2010 , 5, 197-212	17.9	114
205	Image-guided, targeted and triggered drug delivery to tumors using polymer-based microbubbles. <i>Journal of Controlled Release</i> , 2012 , 163, 75-81	11.7	111
204	Micro-CT imaging of tumor angiogenesis: quantitative measures describing micromorphology and vascularization. <i>American Journal of Pathology</i> , 2014 , 184, 431-41	5.8	109
203	3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. <i>Advanced Materials</i> , 2019 , 31, e1806590	24	102
202	Image-guided and passively tumour-targeted polymeric nanomedicines for radiochemotherapy. <i>British Journal of Cancer</i> , 2008 , 99, 900-10	8.7	101
201	Physico-Chemical Strategies to Enhance Stability and Drug Retention of Polymeric Micelles for Tumor-Targeted Drug Delivery. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600160	5.5	99
200	SiRNA delivery with functionalized carbon nanotubes. <i>International Journal of Pharmaceutics</i> , 2011 , 416, 419-25	6.5	99
199	Theranostic USPIO-Loaded Microbubbles for Mediating and Monitoring Blood-Brain Barrier Permeation. <i>Advanced Functional Materials</i> , 2015 , 25, 36-43	15.6	97
198	Intrinsically active nanobody-modified polymeric micelles for tumor-targeted combination therapy. <i>Biomaterials</i> , 2013 , 34, 1255-60	15.6	97
197	Fluorescent cell-traceable dexamethasone-loaded liposomes for the treatment of inflammatory liver diseases. <i>Biomaterials</i> , 2015 , 37, 367-82	15.6	96
196	Clinical application of polymeric micelles for the treatment of cancer. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1485-1501	7.8	94
195	Improving the efficacy of combined modality anticancer therapy using HPMA copolymer-based nanomedicine formulations. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 203-30	18.5	94
194	Dexamethasone nanomedicines for COVID-19. <i>Nature Nanotechnology</i> , 2020 , 15, 622-624	28.7	94
193	Double-edged role of the CXCL12/CXCR4 axis in experimental myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 2415-23	15.1	93
192	Effect of radiotherapy and hyperthermia on the tumor accumulation of HPMA copolymer-based drug delivery systems. <i>Journal of Controlled Release</i> , 2007 , 117, 333-41	11.7	93
191	Sonoporation enhances liposome accumulation and penetration in tumors with low EPR. <i>Journal of Controlled Release</i> , 2016 , 231, 77-85	11.7	92

190	Effect of intratumoral injection on the biodistribution and the therapeutic potential of HPMA copolymer-based drug delivery systems. <i>Neoplasia</i> , 2006 , 8, 788-95	6.4	91
189	Nanomedicine and macroscale materials in immuno-oncology. <i>Chemical Society Reviews</i> , 2019 , 48, 351-388	18.5	91
188	Integrating Artificial Intelligence and Nanotechnology for Precision Cancer Medicine. <i>Advanced Materials</i> , 2020 , 32, e1901989	24	91
187	Noninvasive optical imaging of nanomedicine biodistribution. <i>ACS Nano</i> , 2013 , 7, 252-62	16.7	90
186	In Vivo Nanotoxicity Testing using the Zebrafish Embryo Assay. <i>Journal of Materials Chemistry B</i> , 2013 , 1,	7.3	89
185	Glucocorticoid-loaded core-cross-linked polymeric micelles with tailorable release kinetics for targeted therapy of rheumatoid arthritis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7254-8	16.4	87
184	Quantitative Micro-Computed Tomography Imaging of Vascular Dysfunction in Progressive Kidney Diseases. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 520-32	12.7	85
183	Nanobody-shell functionalized thermosensitive core-crosslinked polymeric micelles for active drug targeting. <i>Journal of Controlled Release</i> , 2011 , 151, 183-92	11.7	81
182	Ultrasound-mediated drug delivery to the brain: principles, progress and prospects. <i>Drug Discovery Today: Technologies</i> , 2016 , 20, 41-48	7.1	80
181	Drug targeting systems for inflammatory disease: one for all, all for one. <i>Journal of Controlled Release</i> , 2012 , 161, 225-34	11.7	79
180	Fibrosis imaging: Current concepts and future directions. <i>Advanced Drug Delivery Reviews</i> , 2017 , 121, 9-26	18.5	74
179	Characterizing EPR-mediated passive drug targeting using contrast-enhanced functional ultrasound imaging. <i>Journal of Controlled Release</i> , 2014 , 182, 83-9	11.7	73
178	Singlet oxygen-responsive micelles for enhanced photodynamic therapy. <i>Journal of Controlled Release</i> , 2017 , 260, 12-21	11.7	72
177	Motion model ultrasound localization microscopy for preclinical and clinical multiparametric tumor characterization. <i>Nature Communications</i> , 2018 , 9, 1527	17.4	71
176	Engineering Nanoparticles to Reprogram the Tumor Immune Microenvironment for Improved Cancer Immunotherapy. <i>Theranostics</i> , 2019 , 9, 7981-8000	12.1	71
175	Non-invasive imaging for studying anti-angiogenic therapy effects. <i>Thrombosis and Haemostasis</i> , 2013 , 109, 375-90	7	69
174	Liposomal encapsulation of dexamethasone modulates cytotoxicity, inflammatory cytokine response, and migratory properties of primary human macrophages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1209-20	6	68
173	Pharmacological Intervention in Hepatic Stellate Cell Activation and Hepatic Fibrosis. <i>Frontiers in Pharmacology</i> , 2016 , 7, 33	5.6	68

172	Imaging Nanomedicine-Based Drug Delivery: a Review of Clinical Studies. <i>Molecular Imaging and Biology</i> , 2018 , 20, 683-695	3.8	67
171	Analytics Preclinical: Interactive Analysis of Biomedical Volume Data. <i>Theranostics</i> , 2016 , 6, 328-41	12.1	66
170	Iron Oxide-labeled Collagen Scaffolds for Non-invasive MR Imaging in Tissue Engineering. <i>Advanced Functional Materials</i> , 2014 , 24, 754-762	15.6	65
169	Recent advances in ultrasound-based diagnosis and therapy with micro- and nanometer-sized formulations. <i>Methods</i> , 2017 , 130, 4-13	4.6	63
168	Challenges in nanomedicine clinical translation. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 721-725	7.25	60
167	Liposomal corticosteroids for the treatment of inflammatory disorders and cancer. <i>Journal of Controlled Release</i> , 2014 , 190, 624-36	11.7	60
166	Size-isolation of superparamagnetic iron oxide nanoparticles improves MRI, MPI and hyperthermia performance. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 22	9.4	59
165	USPIO-labeled textile materials for non-invasive MR imaging of tissue-engineered vascular grafts. <i>Biomaterials</i> , 2015 , 39, 155-63	15.6	56
164	Histidine-rich glycoprotein promotes macrophage activation and inflammation in chronic liver disease. <i>Hepatology</i> , 2016 , 63, 1310-24	11.2	55
163	Gene silencing activity of siRNA polyplexes based on thiolated N,N,N-trimethylated chitosan. <i>Bioconjugate Chemistry</i> , 2010 , 21, 2339-46	6.3	55
162	Sonopermeation to improve drug delivery to tumors: from fundamental understanding to clinical translation. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 1249-1261	8	54
161	FMN-coated fluorescent iron oxide nanoparticles for RCP-mediated targeting and labeling of metabolically active cancer and endothelial cells. <i>Biomaterials</i> , 2011 , 32, 5863-71	15.6	53
160	Balancing Passive and Active Targeting to Different Tumor Compartments Using Riboflavin-Functionalized Polymeric Nanocarriers. <i>Nano Letters</i> , 2017 , 17, 4665-4674	11.5	51
159	Overcoming cellular multidrug resistance using classical nanomedicine formulations. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 45, 421-8	5.1	50
158	Smart drug delivery systems: back to the future vs. clinical reality. <i>International Journal of Pharmaceutics</i> , 2013 , 454, 527-9	6.5	50
157	Polymeric Nanoparticles with Neglectable Protein Corona. <i>Small</i> , 2020 , 16, e1907574	11	49
156	Synthesis and characterization of biodegradable and thermosensitive polymeric micelles with covalently bound doxorubicin-glucuronide prodrug via click chemistry. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2519-30	6.3	49
155	Enhanced in vitro and in vivo cellular imaging with green tea coated water-soluble iron oxide nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6530-40	9.5	48

154	Overcoming multidrug resistance using folate receptor-targeted and pH-responsive polymeric nanogels containing covalently entrapped doxorubicin. <i>Nanoscale</i> , 2017 , 9, 10404-10419	7.7	47
153	Targeting distinct myeloid cell populations in vivo using polymers, liposomes and microbubbles. <i>Biomaterials</i> , 2017 , 114, 106-120	15.6	47
152	MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model. <i>Journal of Controlled Release</i> , 2012 , 161, 772-80	11.7	46
151	Drug Delivery Research for the Future: Expanding the Nano Horizons and Beyond. <i>Journal of Controlled Release</i> , 2017 , 246, 183-184	11.7	45
150	CXCR6 Inhibits Hepatocarcinogenesis by Promoting Natural Killer T- and CD4 T-Cell-Dependent Control of Senescence. <i>Gastroenterology</i> , 2019 , 156, 1877-1889.e4	13.3	45
149	Screening of budesonide nanoformulations for treatment of inflammatory bowel disease in an inflamed 3D cell-culture model. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012 , 29, 275-85	4.3	45
148	Water-soluble dopamine-based polymers for photoacoustic imaging. <i>Chemical Communications</i> , 2015 , 51, 6084-7	5.8	44
147	The necroptosis-inducing kinase RIPK3 dampens adipose tissue inflammation and glucose intolerance. <i>Nature Communications</i> , 2016 , 7, 11869	17.4	43
146	The CCR2 Macrophage Subset Promotes Pathogenic Angiogenesis for Tumor Vascularization in Fibrotic Livers. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019 , 7, 371-390	7.9	42
145	The Theranostic Path to Personalized Nanomedicine. <i>Clinical and Translational Imaging</i> , 2014 , 2, 66-76	2	42
144	Formulation and characterization of microspheres loaded with imatinib for sustained delivery. <i>International Journal of Pharmaceutics</i> , 2015 , 482, 123-30	6.5	41
143	The success of nanomedicine. <i>Nano Today</i> , 2020 , 31, 100853-100853	17.9	39
142	Polyplexes based on cationic polymers with strong nucleic acid binding properties. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 45, 459-66	5.1	39
141	Absorption reconstruction improves biodistribution assessment of fluorescent nanoprobe using hybrid fluorescence-mediated tomography. <i>Theranostics</i> , 2014 , 4, 960-71	12.1	39
140	Polymeric micelles for cancer therapy: 3 C ₆₀ to enhance efficacy. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 302-309	12	39
139	Glucocorticoid-loaded liposomes induce a pro-resolution phenotype in human primary macrophages to support chronic wound healing. <i>Biomaterials</i> , 2018 , 178, 481-495	15.6	38
138	Macrophages and liposomes in inflammatory disease: friends or foes?. <i>International Journal of Pharmaceutics</i> , 2011 , 416, 499-506	6.5	38
137	PBCA-based polymeric microbubbles for molecular imaging and drug delivery. <i>Journal of Controlled Release</i> , 2017 , 259, 128-135	11.7	36

136	Polymeric Selectin Ligands Mimicking Complex Carbohydrates: From Selectin Binders to Modifiers of Macrophage Migration. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1416-1421	16.4	35
135	Comparison of polymeric siRNA nanocarriers in a murine LPS-activated macrophage cell line: gene silencing, toxicity and off-target gene expression. <i>Pharmaceutical Research</i> , 2012 , 29, 669-82	4.5	35
134	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	34
133	Virtual elastic sphere processing enables reproducible quantification of vessel stenosis at CT and MR angiography. <i>Radiology</i> , 2011 , 260, 709-17	20.5	34
132	Decationized polyplexes as stable and safe carrier systems for improved biodistribution in systemic gene therapy. <i>Journal of Controlled Release</i> , 2014 , 195, 162-175	11.7	33
131	MRI evaluation of the antitumor activity of paramagnetic liposomes loaded with prednisolone phosphate. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 45, 436-41	5.1	32
130	Riboflavin carrier protein-targeted fluorescent USPIO for the assessment of vascular metabolism in tumors. <i>Biomaterials</i> , 2012 , 33, 8822-9	15.6	32
129	Gene silencing activity of siRNA polyplexes based on biodegradable polymers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 450-7	5.7	32
128	Synthesis and characterization of HE-24.8: a polymeric contrast agent for magnetic resonance angiography. <i>Bioconjugate Chemistry</i> , 2006 , 17, 42-51	6.3	32
127	Elastin-based molecular MRI of liver fibrosis. <i>Hepatology</i> , 2013 , 58, 1517-8	11.2	31
126	Targeting CCl ₄ -induced liver fibrosis by RNA interference-mediated inhibition of cyclin E1 in mice. <i>Hepatology</i> , 2017 , 66, 1242-1257	11.2	30
125	Sunitinib microspheres based on [PDLLA-PEG-PDLLA]-b-PLLA multi-block copolymers for ocular drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 95, 368-77	5.7	30
124	Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging. <i>ACS Photonics</i> , 2020 , 7, 646-652	6.3	29
123	Liposomal delivery of dexamethasone attenuates prostate cancer bone metastatic tumor growth in vivo. <i>Prostate</i> , 2015 , 75, 815-24	4.2	29
122	Role of PP2C α in cell growth, in radio- and chemosensitivity, and in tumorigenicity. <i>Molecular Cancer</i> , 2007 , 6, 65	42.1	29
121	Squamous Cell Carcinoma Xenografts: Use of VEGFR2-targeted Microbubbles for Combined Functional and Molecular US to Monitor Antiangiogenic Therapy Effects. <i>Radiology</i> , 2016 , 278, 430-40	20.5	28
120	Theranostic systems and strategies for monitoring nanomedicine-mediated drug targeting. <i>Current Pharmaceutical Biotechnology</i> , 2012 , 13, 609-22	2.6	28
119	Advanced Ultrasound Technologies for Diagnosis and Therapy. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 740-746	8.9	27

118	Liposomes as carriers for colchicine-derived prodrugs: vascular disrupting nanomedicines with tailorable drug release kinetics. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 45, 429-35	5.1	26
117	Combined treatment with recombinant tissue plasminogen activator and dexamethasone phosphate-containing liposomes improves neurological outcome and restricts lesion progression after embolic stroke in rats. <i>Journal of Neurochemistry</i> , 2012 , 123 Suppl 2, 65-74	6	26
116	Tailoring the physicochemical properties of core-crosslinked polymeric micelles for pharmaceutical applications. <i>Journal of Controlled Release</i> , 2016 , 244, 314-325	11.7	26
115	Immunomodulatory Therapy of Inflammatory Liver Disease Using Selectin-Binding Glycopolymers. <i>ACS Nano</i> , 2017 , 11, 9689-9700	16.7	25
114	FMN-coated fluorescent USPIO for cell labeling and non-invasive MR imaging in tissue engineering. <i>Theranostics</i> , 2014 , 4, 1002-13	12.1	25
113	Reprint of "Nanobody--shell functionalized thermosensitive core-crosslinked polymeric micelles for active drug targeting". <i>Journal of Controlled Release</i> , 2011 , 153, 93-102	11.7	25
112	An in vitro assay based on surface plasmon resonance to predict the in vivo circulation kinetics of liposomes. <i>Journal of Controlled Release</i> , 2011 , 156, 307-14	11.7	25
111	Hybrid μ CT-FMT imaging and image analysis. <i>Journal of Visualized Experiments</i> , 2015 , e52770	1.6	25
110	Multimodal [GdO] ⁺ [ICG] Nanoparticles for Optical, Photoacoustic, and Magnetic Resonance Imaging. <i>Chemistry of Materials</i> , 2017 , 29, 3547-3554	9.6	24
109	Application of polymersomes engineered to target p32 protein for detection of small breast tumors in mice. <i>Oncotarget</i> , 2018 , 9, 18682-18697	3.3	24
108	Molecular Ultrasound Imaging of Junctional Adhesion Molecule A Depicts Acute Alterations in Blood Flow and Early Endothelial Dysregulation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 40-48	9.4	24
107	Amphiphilic Phospholipid-Based Riboflavin Derivatives for Tumor Targeting Nanomedicines. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2048-61	6.3	22
106	Imaging-assisted anticancer nanotherapy. <i>Theranostics</i> , 2020 , 10, 956-967	12.1	22
105	Noninvasive molecular ultrasound monitoring of vessel healing after intravascular surgical procedures in a preclinical setup. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1366-73	9.4	21
104	Potent and Prolonged Innate Immune Activation by Enzyme-Responsive Imidazoquinoline TLR7/8 Agonist Prodrug Vesicles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12133-12139	16.4	21
103	Locoregional cancer therapy using polymer-based drug depots. <i>Drug Discovery Today</i> , 2016 , 21, 640-7	8.8	21
102	A polymeric colchicinoid prodrug with reduced toxicity and improved efficacy for vascular disruption in cancer therapy. <i>International Journal of Nanomedicine</i> , 2011 , 6, 2697-703	7.3	21
101	Riboflavin-Targeted Drug Delivery. <i>Cancers</i> , 2020 , 12,	6.6	20

100	Clinically established biodegradable long acting injectables: An industry perspective. <i>Advanced Drug Delivery Reviews</i> , 2020 , 167, 19-46	18,5	20
99	Radiomic analysis of contrast-enhanced ultrasound data. <i>Scientific Reports</i> , 2018 , 8, 11359	4,9	19
98	Electron-stabilized polymeric micelles potentiate docetaxel therapy in advanced-stage gastrointestinal cancer. <i>Biomaterials</i> , 2021 , 266, 120432	15,6	19
97	Macro-nanomedicine: Targeting the big picture. <i>Journal of Controlled Release</i> , 2019 , 294, 372-375	11,7	18
96	Fluorophore labeling of core-crosslinked polymeric micelles for multimodal in vivo and ex vivo optical imaging. <i>Nanomedicine</i> , 2015 , 10, 1111-25	5,6	17
95	Macrophages protect against loss of adipose tissue during cancer cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 1128-1142	10,3	17
94	PEG-pHPMAm-based polymeric micelles loaded with doxorubicin-prodrugs in combination antitumor therapy with oncolytic vaccinia viruses. <i>Polymer Chemistry</i> , 2014 , 1674-1681	4,9	17
93	In vitro, in vivo and in silico analysis of the anticancer and estrogen-like activity of guava leaf extracts. <i>Current Medicinal Chemistry</i> , 2014 , 21, 2322-30	4,3	17
92	Rhodamine-loaded intercellular adhesion molecule-1-targeted microbubbles for dual-modality imaging under controlled shear stresses. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 974-81	3,9	17
91	Toxicity of metal-organic framework nanoparticles: from essential analyses to potential applications.. <i>Chemical Society Reviews</i> , 2022 ,	58,5	17
90	Liver fibrosis affects the targeting properties of drug delivery systems to macrophage subsets in vivo. <i>Biomaterials</i> , 2019 , 206, 49-60	15,6	16
89	Role of platelet-derived growth factor-CC in capillary rarefaction in renal fibrosis. <i>American Journal of Pathology</i> , 2015 , 185, 2132-42	5,8	16
88	Noninvasive Assessment of Elimination and Retention using CT-FMT and Kinetic Whole-body Modeling. <i>Theranostics</i> , 2017 , 7, 1499-1510	12,1	16
87	Biotin-decorated all-HPMA polymeric micelles for paclitaxel delivery. <i>Journal of Controlled Release</i> , 2020 , 328, 970-984	11,7	16
86	From Design to Clinic: Engineered Nanobiomaterials for Immune Normalization Therapy of Cancer. <i>Advanced Materials</i> , 2021 , 33, e2008094	24	16
85	Iron metabolism: pathophysiology and pharmacology. <i>Trends in Pharmacological Sciences</i> , 2021 , 42, 640-656	15,6	16
84	MR and PET-CT monitoring of tissue-engineered vascular grafts in the ovine carotid artery. <i>Biomaterials</i> , 2019 , 216, 119228	15,6	15
83	The hepatic lipidome: From basic science to clinical translation. <i>Advanced Drug Delivery Reviews</i> , 2020 , 159, 180-197	18,5	15

82	Fluorescent magnetoliposomes as a platform technology for functional and molecular MR and optical imaging. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 59-67	3.2	15
81	HPMA-based polymer therapeutics improve the efficacy of surgery, of radiotherapy and of chemotherapy combinations. <i>Nanomedicine</i> , 2010 , 5, 1501-23	5.6	15
80	The multikinase inhibitor regorafenib decreases angiogenesis and improves portal hypertension. <i>Oncotarget</i> , 2018 , 9, 36220-36237	3.3	15
79	Influence of cholesterol inclusion on the doxorubicin release characteristics of lysolipid-based thermosensitive liposomes. <i>International Journal of Pharmaceutics</i> , 2018 , 548, 778-782	6.5	15
78	Cancer nanomedicine meets immunotherapy: opportunities and challenges. <i>Acta Pharmacologica Sinica</i> , 2020 , 41, 954-958	8	14
77	Crystal Clots as Therapeutic Target in Cholesterol Crystal Embolism. <i>Circulation Research</i> , 2020 , 126, e37-e52	15.7	14
76	Multimodal and multiscale optical imaging of nanomedicine delivery across the blood-brain barrier upon sonopermeation. <i>Theranostics</i> , 2020 , 10, 1948-1959	12.1	14
75	Histidine-rich glycoprotein-induced vascular normalization improves EPR-mediated drug targeting to and into tumors. <i>Journal of Controlled Release</i> , 2018 , 282, 25-34	11.7	14
74	Fluorescently labeled microbubbles for facilitating translational molecular ultrasound studies. <i>Drug Delivery and Translational Research</i> , 2012 , 2, 56-64	6.2	14
73	A FIELD CANCELATION SIGNAL EXTRACTION METHOD FOR MAGNETIC PARTICLE IMAGING. <i>IEEE Transactions on Magnetics</i> , 2015 , 51,	2	14
72	Optical imaging of the whole-body to cellular biodistribution of clinical-stage PEG-b-pHPMA-based core-crosslinked polymeric micelles. <i>Journal of Controlled Release</i> , 2020 , 328, 805-816	11.7	14
71	A collagen-binding protein enables molecular imaging of kidney fibrosis in vivo. <i>Kidney International</i> , 2020 , 97, 609-614	9.9	14
70	Photoacoustic imaging of tumor targeting with riboflavin-functionalized theranostic nanocarriers. <i>International Journal of Nanomedicine</i> , 2017 , 12, 3813-3825	7.3	12
69	Removable nanocoatings for siRNA polyplexes. <i>Bioconjugate Chemistry</i> , 2011 , 22, 169-79	6.3	12
68	Fluorinated polyurethane scaffolds for F magnetic resonance imaging. <i>Chemistry of Materials</i> , 2017 , 29, 2669-2671	9.6	11
67	Hyperthermia-triggered release of hypoxic cell radiosensitizers from temperature-sensitive liposomes improves radiotherapy efficacy in vitro. <i>Nanotechnology</i> , 2019 , 30, 264001	3.4	11
66	Theranostic cRGD-BioShuttle Constructs Containing Temozolomide- and Cy7 For NIR-Imaging and Therapy. <i>Theranostics</i> , 2011 , 1, 381-94	12.1	11
65	Macromolecular nanotheranostics for multimodal anticancer therapy. <i>Nanoscale</i> , 2011 , 3, 4022-34	7.7	11

64	Tuning Optical Properties of BODIPY Dyes by Pyrrole Conjugation for Photoacoustic Imaging. <i>Advanced Optical Materials</i> , 2020 , 8, 1902115	8.1	10
63	Setting standards to promote progress in bio-nano science. <i>Nature Nanotechnology</i> , 2019 , 14, 626	28.7	10
62	Physicochemical and biological aspects of macrophage-mediated drug targeting in anti-microbial therapy. <i>Fundamental and Clinical Pharmacology</i> , 2012 , 26, 63-71	3.1	10
61	Nanomedicine formulations for combination therapies. <i>Nano Reviews</i> , 2010 , 1,		10
60	Metallo drugs in cancer nanomedicine.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	10
59	Glucocorticoid-Loaded Core-Cross-Linked Polymeric Micelles with Tailorable Release Kinetics for Targeted Therapy of Rheumatoid Arthritis. <i>Angewandte Chemie</i> , 2012 , 124, 7366-7370	3.6	9
58	Photochemical internalization (PCI)-mediated enhancement of gene silencing efficiency of polymethacrylates and N,N,N-trimethylated chitosan (TMC) based siRNA polyplexes. <i>Journal of Controlled Release</i> , 2010 , 148, e98-9	11.7	9
57	Shelf-Life Evaluation and Lyophilization of PBCA-Based Polymeric Microbubbles. <i>Pharmaceutics</i> , 2019 , 11,	6.4	8
56	Targeting Activated Hepatic Stellate Cells Using Collagen-Binding Chitosan Nanoparticles for siRNA Delivery to Fibrotic Livers. <i>Pharmaceutics</i> , 2020 , 12,	6.4	8
55	Effect of neurokinin-1-receptor blockage on fracture healing in rats. <i>Scientific Reports</i> , 2019 , 9, 9744	4.9	8
54	Targeting cellular and microenvironmental multidrug resistance. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 1199-202	8	8
53	Physicochemical Characterization of the Shell Composition of PBCA-Based Polymeric Microbubbles. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700002	5.5	7
52	Bone resorption and body reorganization during maturation induce maternal transfer of toxic metals in anguillid eels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11339-11344	11.5	7
51	High-resolution 3D visualization of nanomedicine distribution in tumors. <i>Theranostics</i> , 2020 , 10, 880-897	12.1	7
50	Polymeric Nanogels with Tailorable Degradation Behavior. <i>Macromolecular Bioscience</i> , 2016 , 16, 1122-37	5.5	7
49	In situ validation of VEGFR-2 and $\alpha_5\beta_1$ integrin as targets for breast lesion characterization. <i>Angiogenesis</i> , 2016 , 19, 245-254	10.6	7
48	Micro-computed tomography (μ CT) as a novel method in ecotoxicology--determination of morphometric and somatic data in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Science of the Total Environment</i> , 2016 , 543, 135-139	10.2	6
47	Status and trends in the development of clinical diagnostic agents. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017 , 9, e1441	9.2	6

46	Nondestructive monitoring of tissue-engineered constructs. <i>Biomedizinische Technik</i> , 2014 , 59, 165-75	1.3	6
45	Systematic evaluation of design features enables efficient selection of π -electron-stabilized polymeric micelles. <i>International Journal of Pharmaceutics</i> , 2020 , 584, 119409	6.5	6
44	Drug Loading in Poly(butyl cyanoacrylate)-Based Polymeric Microbubbles. <i>Molecular Pharmaceutics</i> , 2020 , 17, 2840-2848	5.6	5
43	Comparison and systematic optimization of synthetic protocols for DOTA hydrazide generation. <i>Tetrahedron Letters</i> , 2013 , 54, 918-920	2	5
42	BioShuttle mobility in living cells studied with high-resolution FCS & CLSM methodologies. <i>International Journal of Medical Sciences</i> , 2012 , 9, 339-52	3.7	5
41	Roadmap on nanomedicine. <i>Nanotechnology</i> , 2021 , 32, 012001	3.4	5
40	A paradigm shift in cancer nanomedicine: from traditional tumor targeting to leveraging the immune system. <i>Drug Discovery Today</i> , 2021 , 26, 1482-1489	8.8	5
39	Lyophilization stabilizes clinical-stage core-crosslinked polymeric micelles to overcome cold chain supply challenges. <i>Biotechnology Journal</i> , 2021 , 16, e2000212	5.6	5
38	c-Met Signaling Protects from Nonalcoholic Steatohepatitis- (NASH-) Induced Fibrosis in Different Liver Cell Types. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 6957497	6.7	5
37	Molecular magnetic resonance imaging of Alpha-v-Beta-3 integrin expression in tumors with ultrasound microbubbles. <i>Biomaterials</i> , 2021 , 275, 120896	15.6	5
36	Targeting and Modulation of Liver Myeloid Immune Cells by Hard-Shell Microbubbles. <i>Advanced Biology</i> , 2018 , 2, 1800002	3.5	4
35	Absolute MR thermometry using nanocarriers. <i>Contrast Media and Molecular Imaging</i> , 2014 , 9, 283-90	3.2	4
34	Automated Generation of Reliable Blood Velocity Parameter Maps from Contrast-Enhanced Ultrasound Data. <i>Contrast Media and Molecular Imaging</i> , 2017 , 2017, 2098324	3.2	4
33	Monitoring EPR Effect Dynamics during Nanotaxane Treatment with Theranostic Polymeric Micelles.. <i>Advanced Science</i> , 2022 , e2103745	13.6	4
32	Monitoring the Remodeling of Biohybrid Tissue-Engineered Vascular Grafts by Multimodal Molecular Imaging.. <i>Advanced Science</i> , 2022 , e2105783	13.6	4
31	Influence of Riboflavin Targeting on Tumor Accumulation and Internalization of Peptostar Based Drug Delivery Systems. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2691-2696	6.3	4
30	Just dose it. <i>Nature Materials</i> , 2020 , 19, 1257-1258	27	4
29	Differential regulation of Lipocalin 2 (LCN2) in doxorubicin-resistant 4T1 triple negative breast cancer cells. <i>Cellular Signalling</i> , 2020 , 74, 109731	4.9	4

28	Non-invasive molecular imaging of kidney diseases. <i>Nature Reviews Nephrology</i> , 2021 , 17, 688-703	14.9	4
27	Refinement of adsorptive coatings for fluorescent riboflavin-receptor-targeted iron oxide nanoparticles. <i>Contrast Media and Molecular Imaging</i> , 2016 , 11, 47-54	3.2	4
26	Semi-Automated Segmentation of the Tumor Vasculature in Contrast-Enhanced Ultrasound Data. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1910-1917	3.5	4
25	Therapeutic and diagnostic targeting of fibrosis in metabolic, proliferative and viral disorders. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113831	18.5	4
24	Hybrid Materials: Theranostic USPIO-Loaded Microbubbles for Mediating and Monitoring Blood-Brain Barrier Permeation (Adv. Funct. Mater. 1/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 2-2	15.6	3
23	A computational and experimental study to develop E-selectin targeted peptides for molecular imaging applications. <i>Future Medicinal Chemistry</i> , 2018 ,	4.1	3
22	Progression of Myeloproliferative Neoplasms (MPN): Diagnostic and Therapeutic Perspectives.. <i>Cells</i> , 2021 , 10,	7.9	3
21	Polymere Selectinliganden als komplexe Glykomimetika: von Selectinbindung bis zur Modifizierung der Makrophagenmigration. <i>Angewandte Chemie</i> , 2017 , 129, 1438-1443	3.6	2
20	Flexible and modular MPI simulation framework and its use in modelling a MPI. <i>IEEE Transactions on Magnetism</i> , 2015 , 51,	2	2
19	Non-invasive Imaging of Tissue-Engineered Vascular Endothelium with Iron Oxide Nanoparticles. <i>Biomedizinische Technik</i> , 2012 , 57,	1.3	2
18	Effects of contrast-enhanced ultrasound treatment on neoadjuvant chemotherapy in breast cancer. <i>Theranostics</i> , 2021 , 11, 9557-9570	12.1	2
17	Application of Polymersomes Engineered to Target P32 Protein for Detection of Small Breast Tumors in Mice		2
16	In Vitro Evaluation of Anti-Aggregation and Degradation Behavior of PEGylated Polymeric Nanogels under In Vivo Like Conditions. <i>Macromolecular Bioscience</i> , 2018 , 18, 1700127	5.5	2
15	The Inhibitory T Cell Receptors PD1 and 2B4 Are Differentially Regulated on CD4 and CD8 T Cells in a Mouse Model of Non-alcoholic Steatohepatitis. <i>Frontiers in Pharmacology</i> , 2019 , 10, 244	5.6	1
14	Long circulating and stable polymeric micelles for targeted delivery of paclitaxel. <i>Journal of Controlled Release</i> , 2015 , 213, e127-8	11.7	1
13	A Doxorubicin-Glucuronide Prodrug Released from Nanogels Activated by High-Intensity Focused Ultrasound Liberated β -Glucuronidase. <i>Pharmaceutics</i> , 2020 , 12,	6.4	1
12	Interaction of liposomes with proteins measured by surface plasmon resonance correlates with their in vivo circulation time. <i>Journal of Controlled Release</i> , 2010 , 148, e32-3	11.7	1
11	Cyclic Arginine-Glycine-Aspartate-Decorated Lipid Nanoparticle Targeting toward Inflammatory Lesions Involves Hitchhiking with Phagocytes. <i>Advanced Science</i> , 2021 , 8, 2100370	13.6	1

10	Long-Circulating and Passively Tumor-Targeted Polymer-Drug Conjugates Improve the Efficacy and Reduce the Toxicity of Radiochemotherapy. <i>Advanced Engineering Materials</i> , 2010 , 12, B413-B421	3.5	○
9	Tuning the size of all-HPMA polymeric micelles fabricated by solvent extraction.. <i>Journal of Controlled Release</i> , 2022 , 343, 338-346	11.7	○
8	Liver Fibrosis-From Mechanisms of Injury to Modulation of Disease.. <i>Frontiers in Medicine</i> , 2021 , 8, 814496	4.9	○
7	Intravenous pegylated liposomal prednisolone outperforms intramuscular methylprednisolone in treating rheumatoid arthritis flares: A randomized controlled clinical trial.. <i>Journal of Controlled Release</i> , 2021 , 341, 548-554	11.7	○
6	Cancer Immunotherapy: From Design to Clinic: Engineered Nanobiomaterials for Immune Normalization Therapy of Cancer (Adv. Mater. 30/2021). <i>Advanced Materials</i> , 2021 , 33, 2170237	24	○
5	New Aspects of Kidney Fibrosis-From Mechanisms of Injury to Modulation of Disease.. <i>Frontiers in Medicine</i> , 2021 , 8, 814497	4.9	○
4	Theranostic Trigger-Responsive Carbon Monoxide-Generating Microbubbles.. <i>Small</i> , 2022 , e2200924	11	○
3	PET-CT Imaging of Polymeric Nanoparticle Tumor Accumulation in Patients.. <i>Advanced Materials</i> , 2022 , e2201043	24	○
2	Collagen Scaffolds: Iron Oxide-Labeled Collagen Scaffolds for Non-Invasive MR Imaging in Tissue Engineering (Adv. Funct. Mater. 6/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 722-722	15.6	
1	Cancer Treatment: Integrating Artificial Intelligence and Nanotechnology for Precision Cancer Medicine (Adv. Mater. 13/2020). <i>Advanced Materials</i> , 2020 , 32, 2070100	24	