Raymond Michel Schiffelers

List of Publications by Citations

226 papers	20,044 citations	68 h-index	139 g-index
246 ext. papers	24,771 ext. citations	8.4 avg, IF	6.79 L-index

#	Paper	IF	Citations
226	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
225	Vesiclepedia: a compendium for extracellular vesicles with continuous community annotation. *PLoS Biology*, **2012**, 10, e1001450	9.7	800
224	Cancer siRNA therapy by tumor selective delivery with ligand-targeted sterically stabilized nanoparticle. *Nucleic Acids Research*, **2004**, 32, e149	20.1	706
223	Curcumin nanoformulations: a review of pharmaceutical properties and preclinical studies and clinical data related to cancer treatment. *Biomaterials*, **2014**, 35, 3365-83	15.6	588
222	Extracellular vesicles for drug delivery. *Advanced Drug Delivery Reviews*, **2016**, 106, 148-156	18.5	561
221	In Vivo imaging reveals extracellular vesicle-mediated phenocopying of metastatic behavior. *Cell*, **2015**, 161, 1046-1057	56.2	546
220	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA - an ISEV position paper. *Journal of Extracellular Vesicles*, **2017**, 6, 1286095	16.4	410
219	Cellular stress conditions are reflected in the protein and RNA content of endothelial cell-derived exosomes. *Journal of Extracellular Vesicles*, **2012**, 1,	16.4	392
218	RGD-based strategies for selective delivery of therapeutics and imaging agents to the tumour vasculature. *Drug Resistance Updates*, **2005**, 8, 381-402	23.2	371
217	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. *Journal of Controlled Release*, **2013**, 172, 229-238	11.7	333
216	Microvesicles and exosomes: opportunities for cell-derived membrane vesicles in drug delivery. *Journal of Controlled Release*, **2012**, 161, 635-44	11.7	290
215	Extracellular vesicles as drug delivery systems: lessons from the liposome field. *Journal of Controlled Release*, **2014**, 195, 72-85	11.7	287
214	Anti-tumor efficacy of tumor vasculature-targeted liposomal doxorubicin. *Journal of Controlled Release*, **2003**, 91, 115-22	11.7	274
213	Thermosensitive and biodegradable polymeric micelles for paclitaxel delivery. *Journal of Controlled Release*, **2005**, 103, 341-53	11.7	262
212	Exosome mimetics: a novel class of drug delivery systems. *International Journal of Nanomedicine*, **2012**, 7, 1525-41	7.3	258
211	EVpedia: a community web portal for extracellular vesicles research. *Bioinformatics*, **2015**, 31, 933-9	7.2	256
210	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. *Journal of Controlled Release*, **2016**, 224, 77-85	11.7	254

209	Hydrolysable core-crosslinked thermosensitive polymeric micelles: synthesis, characterisation and in vivo studies. *Biomaterials*, **2007**, 28, 5581-93	15.6	237
208	Extracellular vesicles as drug delivery systems: Why and how?. *Advanced Drug Delivery Reviews*, **2020**, 159, 332-343	18.5	229
207	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. *Experimental and Molecular Medicine*, **2019**, 51, 1-12	12.8	224
206	Improving solubility and chemical stability of natural compounds for medicinal use by incorporation into liposomes. *International Journal of Pharmaceutics*, **2011**, 416, 433-42	6.5	223
205	Core-crosslinked polymeric micelles with controlled release of covalently entrapped doxorubicin. *Biomaterials*, **2010**, 31, 7797-804	15.6	218
204	Extracellular vesicles: potential roles in regenerative medicine. *Frontiers in Immunology*, **2014**, 5, 608	8.4	212
203	Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis. *Journal of Controlled Release*, **2017**, 266, 100-108	11.7	208
202	Inhibition of ocular angiogenesis by siRNA targeting vascular endothelial growth factor pathway genes: therapeutic strategy for herpetic stromal keratitis. *American Journal of Pathology*, **2004**, 165, 2177-85	5.8	205
201	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. *Cardiovascular Research*, **2018**, 114, 19-34	9.9	198
200	Display of GPI-anchored anti-EGFR nanobodies on extracellular vesicles promotes tumour cell targeting. *Journal of Extracellular Vesicles*, **2016**, 5, 31053	16.4	190
199	Possibilities and limitations of current technologies for quantification of biological extracellular vesicles and synthetic mimics. *Journal of Controlled Release*, **2015**, 200, 87-96	11.7	173
198	Targeting of angiogenic endothelial cells at sites of inflammation by dexamethasone phosphate-containing RGD peptide liposomes inhibits experimental arthritis. *Arthritis and Rheumatism*, **2006**, 54, 1198-208		150
197	Complete Regression of Xenograft Tumors upon Targeted Delivery of Paclitaxel via □□Stacking Stabilized Polymeric Micelles. *ACS Nano*, **2015**, 9, 3740-52	16.7	149
196	Comparison of five different targeting ligands to enhance accumulation of liposomes into the brain. *Journal of Controlled Release*, **2011**, 150, 30-6	11.7	141
195	Crosstalk between epidermal growth factor receptor- and insulin-like growth factor-1 receptor signaling: implications for cancer therapy. *Current Cancer Drug Targets*, **2009**, 9, 748-60	2.8	140
194	3D Bioprinting: from Benches to Translational Applications. *Small*, **2019**, 15, e1805510	11	137
193	Multimodal clinical imaging to longitudinally assess a nanomedical anti-inflammatory treatment in experimental atherosclerosis. *Molecular Pharmaceutics*, **2010**, 7, 2020-9	5.6	128
192	Fusogenic peptides enhance endosomal escape improving siRNA-induced silencing of oncogenes. *International Journal of Pharmaceutics*, **2007**, 331, 211-4	6.5	127

191	Squeezing for Life - Properties of Red Blood Cell Deformability. *Frontiers in Physiology*, **2018**, 9, 656	4.6	125
190	Effects of treatment with small interfering RNA on joint inflammation in mice with collagen-induced arthritis. *Arthritis and Rheumatism*, **2005**, 52, 1314-8		125
189	Liposome-encapsulated aminoglycosides in pre-clinical and clinical studies. *Journal of Antimicrobial Chemotherapy*, **2001**, 48, 333-44	5.1	117
188	Drug Delivery with Extracellular Vesicles: From Imagination to Innovation. *Accounts of Chemical Research*, **2019**, 52, 1761-1770	24.3	112
187	3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. *Advanced Materials*, **2019**, 31, e1806590	24	102
186	Delivering the power of nanomedicine to patients today. *Journal of Controlled Release*, **2020**, 326, 164-171	11.7	101
185	Functional Delivery of Lipid-Conjugated siRNA by Extracellular Vesicles. *Molecular Therapy*, **2017**, 25, 1580-1587	11.7	99
184	SiRNA delivery with functionalized carbon nanotubes. *International Journal of Pharmaceutics*, **2011**, 416, 419-25	6.5	99
183	Downregulation of EGFR by a novel multivalent nanobody-liposome platform. *Journal of Controlled Release*, **2010**, 145, 165-75	11.7	99
182	Modulation of tissue tropism and biological activity of exosomes and other extracellular vesicles: New nanotools for cancer treatment. *Pharmacological Research*, **2016**, 111, 487-500	10.2	99
181	In vivo methods to study uptake of nanoparticles into the brain. *Pharmaceutical Research*, **2011**, 28, 456-71	4.5	98
180	Effect of cationic carriers on the pharmacokinetics and tumor localization of nucleic acids after intravenous administration. *International Journal of Pharmaceutics*, **2007**, 331, 167-75	6.5	96
179	Clinical application of polymeric micelles for the treatment of cancer. *Materials Chemistry Frontiers*, **2017**, 1, 1485-1501	7.8	94
178	Systemic miRNA-7 delivery inhibits tumor angiogenesis and growth in murine xenograft glioblastoma. *Oncotarget*, **2014**, 5, 6687-700	3.3	94
177	Dexamethasone nanomedicines for COVID-19. *Nature Nanotechnology*, **2020**, 15, 622-624	28.7	94
176	Bioinspired Cell-Derived Nanovesicles versus Exosomes as Drug Delivery Systems: a Cost-Effective Alternative. *Scientific Reports*, **2017**, 7, 14322	4.9	91
175	Glucocorticoid-loaded core-cross-linked polymeric micelles with tailorable release kinetics for targeted therapy of rheumatoid arthritis. *Angewandte Chemie - International Edition*, **2012**, 51, 7254-8	16.4	87
174	Polyphosphate nanoparticles on the platelet surface trigger contact system activation. *Blood*, **2017**, 129, 1707-1717	2.2	86

173	Extracellular vesicles for nucleic acid delivery: progress and prospects for safe RNA-based gene therapy. *Gene Therapy*, **2017**, 24, 157-166	4	84
172	Circulation kinetics and biodistribution of dual-labeled polymersomes with modulated surface charge in tumor-bearing mice: comparison with stealth liposomes. *Journal of Controlled Release*, **2011**, 155, 282-8	11.7	84
171	Liposome-encapsulated prednisolone phosphate inhibits growth of established tumors in mice. *Neoplasia*, **2005**, 7, 118-27	6.4	84
170	Nanocarrier-based drug combination therapy for glioblastoma. *Theranostics*, **2020**, 10, 1355-1372	12.1	81
169	Photochemical internalization enhances silencing of epidermal growth factor receptor through improved endosomal escape of siRNA. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 1211-7	3.8	80
168	Drug targeting systems for inflammatory disease: one for all, all for one. *Journal of Controlled Release*, **2012**, 161, 225-34	11.7	79
167	ANGI-08. TARGETING THE RhoGEF BETA-PIX TO ENHANCE THE ACTIVITY OF BEVACIZUMAB IN GLIOBLASTOMA: A NANOPARTICLE MEDIATED GENE SILENCING APPROACH. *Neuro-Oncology*, **2018**, 20, vi29-vi30	1	78
166	State-of-the-Art Design and Rapid-Mixing Production Techniques of Lipid Nanoparticles for Nucleic Acid Delivery. *Small Methods*, **2018**, 2, 1700375	12.8	74
165	Antitumor activity of liposomal prednisolone phosphate depends on the presence of functional tumor-associated macrophages in tumor tissue. *Neoplasia*, **2008**, 10, 108-17	6.4	73
164	Peptide-targeted PEG-liposomes in anti-angiogenic therapy. *International Journal of Pharmaceutics*, **2003**, 254, 55-8	6.5	73
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162	Liposome encapsulated berberine treatment attenuates cardiac dysfunction after myocardial infarction. *Journal of Controlled Release*, **2017**, 247, 127-133	11.7	69
161	Tumor-targeted Nanobullets: Anti-EGFR nanobody-liposomes loaded with anti-IGF-1R kinase inhibitor for cancer treatment. *Journal of Controlled Release*, **2012**, 159, 281-9	11.7	69
160	Betulinic acid delivered in liposomes reduces growth of human lung and colon cancers in mice without causing systemic toxicity. *Anti-Cancer Drugs*, **2011**, 22, 223-33	2.4	69
159	Quantitative assessment of aortic atherosclerosis in APOE*3 Leiden transgenic mice and its relationship to serum cholesterol exposure. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1996**, 16, 926-33	9.4	69
158	Red blood cell vesiculation in hereditary hemolytic anemia. *Frontiers in Physiology*, **2013**, 4, 365	4.6	68
157	Physicochemical and biological evaluation of siRNA polyplexes based on PEGylated Poly(amido amine)s. *Pharmaceutical Research*, **2012**, 29, 352-61	4.5	65
156	Recombinant phosphatidylserine-binding nanobodies for targeting of extracellular vesicles to tumor cells: a plug-and-play approach. *Nanoscale*, **2018**, 10, 2413-2426	7.7	64

155	Pharmaceutical prospects for RNA interference. *Pharmaceutical Research*, **2004**, 21, 1-7	4.5	62
154	Nanomedicines for the treatment of hematological malignancies. *Journal of Controlled Release*, **2018**, 287, 194-215	11.7	61
153	Targeting hepatocyte growth factor receptor (Met) positive tumor cells using internalizing nanobody-decorated albumin nanoparticles. *Biomaterials*, **2014**, 35, 601-10	15.6	59
152	Insights into maleimide-thiol conjugation chemistry: Conditions for efficient surface functionalization of nanoparticles for receptor targeting. *Journal of Controlled Release*, **2018**, 282, 101-109	11.7	58
151	Strategies for triggered drug release from tumor targeted liposomes. *Expert Opinion on Drug Delivery*, **2013**, 10, 1399-410	8	58
150	Anti-angiogenic effects of liposomal prednisolone phosphate on B16 melanoma in mice. *Journal of Controlled Release*, **2006**, 113, 1-8	11.7	57
149	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA. *Nature Communications*, **2020**, 11, 1113	17.4	56
148	The VEGF/Rho GTPase signalling pathway: a promising target for anti-angiogenic/anti-invasion therapy. *Drug Discovery Today*, **2011**, 16, 219-28	8.8	56
147	Gene silencing activity of siRNA polyplexes based on thiolated N,N,N-trimethylated chitosan. *Bioconjugate Chemistry*, **2010**, 21, 2339-46	6.3	55
146	Angiogenic endothelium shows lactadherin-dependent phagocytosis of aged erythrocytes and apoptotic cells. *Blood*, **2008**, 111, 4542-50	2.2	55
145	The fluid membrane determines mechanics of erythrocyte extracellular vesicles and is softened in hereditary spherocytosis. *Nature Communications*, **2018**, 9, 4960	17.4	54
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143	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). *Small*, **2019**, 15, 1970126	11	50
142	Anti-tumor activity of liposomal glucocorticoids: The relevance of liposome-mediated drug delivery, intratumoral localization and systemic activity. *Journal of Controlled Release*, **2011**, 151, 10-7	11.7	50
141	Identification of peptide ligands for targeting to the blood-brain barrier. *Pharmaceutical Research*, **2010**, 27, 673-82	4.5	50
140	Liposomal glucocorticoids as tumor-targeted anti-angiogenic nanomedicine in B16 melanoma-bearing mice. *Journal of Steroid Biochemistry and Molecular Biology*, **2008**, 111, 101-10	5.1	49
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134	Dendritic Cell Targeting mRNA Lipopolyplexes Combine Strong Antitumor T-Cell Immunity with Improved Inflammatory Safety. *ACS Nano*, **2018**, 12, 9815-9829	16.7	46
133	Liposomal pravastatin inhibits tumor growth by targeting cancer-related inflammation. *Journal of Controlled Release*, **2010**, 148, 303-10	11.7	45
132	Optimization of poly(amido amine)s as vectors for siRNA delivery. *Journal of Controlled Release*, **2011**, 150, 177-86	11.7	44
131	Human recombinant apolipoprotein E-enriched liposomes can mimic low-density lipoproteins as carriers for the site-specific delivery of antitumor agents. *Molecular Pharmacology*, **1997**, 52, 445-55	4.3	44
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126	Red Blood Cells: Chasing Interactions. *Frontiers in Physiology*, **2019**, 10, 945	4.6	41
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122	Antitumor efficacy of dexamethasone-loaded core-crosslinked polymeric micelles. *Journal of Controlled Release*, **2012**, 163, 361-7	11.7	38
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120	Examining the role of Rac1 in tumor angiogenesis and growth: a clinically relevant RNAi-mediated approach. *Angiogenesis*, **2011**, 14, 457-66	10.6	36

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115	Antitumor activity and tumor localization of liposomal glucocorticoids in B16 melanoma-bearing mice. *Journal of Controlled Release*, **2008**, 127, 131-6	11.7	33
114	Gene silencing activity of siRNA polyplexes based on biodegradable polymers. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 77, 450-7	5.7	32
113	Long-circulating sterically stabilized liposomes in the treatment of infections. *Methods in Enzymology*, **2005**, 391, 228-60	1.7	32
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111	A method for quantifying cellular uptake of fluorescently labeled siRNA. *Journal of Controlled Release*, **2010**, 148, 106-109	11.7	30
110	Investigation into the role of tumor-associated macrophages in the antitumor activity of Doxil. *Pharmaceutical Research*, **2008**, 25, 1948-55	4.5	30
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103	Immunoglobulin free light chains are biomarkers of poor prognosis in basal-like breast cancer and are potential targets in tumor-associated inflammation. *Oncotarget*, **2014**, 5, 3159-67	3.3	27
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101	Liposomal encapsulation enhances the antitumour efficacy of the vascular disrupting agent ZD6126 in murine B16.F10 melanoma. *British Journal of Cancer*, **2008**, 99, 1256-64	8.7	26
100	Polymeric delivery systems for nucleic acid therapeutics: Approaching the clinic. *Journal of Controlled Release*, **2021**, 331, 121-141	11.7	26
99	Effect of Formulation and Processing Parameters on the Size of mPEG- b-p(HPMA-Bz) Polymeric Micelles. *Langmuir*, **2018**, 34, 15495-15506	4	26
98	Modular nanotransporters: a multipurpose in vivo working platform for targeted drug delivery. *International Journal of Nanomedicine*, **2012**, 7, 467-82	7.3	25
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96	Targeted drug delivery to enhance efficacy and shorten treatment duration in disseminated Mycobacterium avium infection in mice. *Journal of Antimicrobial Chemotherapy*, **2007**, 60, 1064-73	5.1	24
95	Extracellular vesicles as a drug delivery system: A systematic review of preclinical studies. *Advanced Drug Delivery Reviews*, **2021**, 175, 113801	18.5	24
94	Interfering with endolysosomal trafficking enhances release of bioactive exosomes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 20, 102014	6	23
93	Biofabrication of Cell-Derived Nanovesicles: A Potential Alternative to Extracellular Vesicles for Regenerative Medicine. *Cells*, **2019**, 8,	7.9	23
92	Polymers and hydrogels for local nucleic acid delivery. *Journal of Materials Chemistry B*, **2018**, 6, 5651-5670	7.3	22
91	Inhibition of tumor growth by targeted anti-EGFR/IGF-1R nanobullets depends on efficient blocking of cell survival pathways. *Molecular Pharmaceutics*, **2013**, 10, 3717-27	5.6	22
90	Comparison of pharmaceutical nanoformulations for curcumin: Enhancement of aqueous solubility and carrier retention. *International Journal of Pharmaceutics*, **2016**, 506, 407-13	6.5	22
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63	Microparticles as biomarkers of osteonecrosis of the hip in sickle cell disease. *British Journal of Haematology*, **2015**, 168, 135-8	4.5	12
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54	Routine Blood Tests Do Not Predict Survival in Patients with Glioblastoma-Multivariable Analysis of 497 Patients. *World Neurosurgery*, **2019**, 126, e1081-e1091	2.1	9
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