

Stefaan C De Smedt

List of Publications by Year in Descending Order

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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.

192
papers

11,105
citations

56
h-index

100
g-index

199
ext. papers

13,027
ext. citations

12.3
avg, IF

6.59
L-index

#	Paper	IF	Citations
192	Fluorine MR Imaging Probes Dynamic Migratory Profiles of Perfluorocarbon-Loaded Dendritic Cells After Streptozotocin-Induced Inflammation.. <i>Molecular Imaging and Biology</i> , 2022 , 1	3.8	1
191	Transient nuclear lamin A/C accretion aids in recovery from vapor nanobubble-induced permeabilisation of the plasma membrane.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 23	10.3	2
190	The cellular response to plasma membrane disruption for nanomaterial delivery.. <i>Nano Convergence</i> , 2022 , 9, 6	9.2	1
189	Gas-shearing synthesis of core-shell multicompartamental microparticles as cell-like system for enzymatic cascade reaction. <i>Chemical Engineering Journal</i> , 2022 , 428, 132607	14.7	10
188	Evaluation of Liposome-Loaded Microbubbles as a Theranostic Tool in a Murine Collagen-Induced Arthritis Model. <i>Scientia Pharmaceutica</i> , 2022 , 90, 17	4.3	
187	Non-viral siRNA delivery to T cells: Challenges and opportunities in cancer immunotherapy. <i>Biomaterials</i> , 2022 , 121510	15.6	1
186	Light triggered nanoscale biolistics for efficient intracellular delivery of functional macromolecules in mammalian cells.. <i>Nature Communications</i> , 2022 , 13, 1996	17.4	1
185	Yeast-produced fructosamine-3-kinase retains mobility after ex vivo intravitreal injection in human and bovine eyes as determined by Fluorescence Correlation Spectroscopy.. <i>International Journal of Pharmaceutics</i> , 2022 , 121772	6.5	1
184	Pulmonary surfactant as a versatile biomaterial to fight COVID-19. <i>Journal of Controlled Release</i> , 2021 , 342, 170-170	11.7	5
183	Modulating intracellular pathways to improve non-viral delivery of RNA therapeutics. <i>Advanced Drug Delivery Reviews</i> , 2021 , 181, 114041	18.5	4
182	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , 2021 , 16, 1281-1291	28.7	43
181	Exploring high pressure nebulization of Pluronic F127 hydrogels for intraperitoneal drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 169, 134-143	5.7	5
180	Non-invasive cell-tracking methods for adoptive T cell therapies. <i>Drug Discovery Today</i> , 2021 ,	8.8	1
179	Triggered Release from Cellulose Microparticles Inspired by Wood Degradation by Fungi. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 387-397	8.3	18
178	Surfactant Protein B Promotes Cytosolic siRNA Delivery by Adopting a Virus-like Mechanism of Action. <i>ACS Nano</i> , 2021 , 15, 8095-8109	16.7	12
177	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2102472	15.6	5
176	Enhanced siRNA Delivery and Selective Apoptosis Induction in H1299 Cancer Cells by Layer-by-Layer-Assembled Se Nanocomplexes: Toward More Efficient Cancer Therapy. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 639184	5.6	6

175	The dawn of mRNA vaccines: The COVID-19 case. <i>Journal of Controlled Release</i> , 2021 , 333, 511-520	11.7	94
174	Bubble Forming Films for Spatial Selective Cell Killing. <i>Advanced Materials</i> , 2021 , 33, e2008379	24	4
173	Hydrogel-Induced Cell Membrane Disruptions Enable Direct Cytosolic Delivery of Membrane-Impermeable Cargo. <i>Advanced Materials</i> , 2021 , 33, e2008054	24	4
172	Lipoplexes to Deliver Oligonucleotides in Gram-Positive and Gram-Negative Bacteria: Towards Treatment of Blood Infections. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
171	Bubble-Forming Films: Bubble Forming Films for Spatial Selective Cell Killing (Adv. Mater. 27/2021). <i>Advanced Materials</i> , 2021 , 33, 2170211	24	2
170	Non-viral transfection technologies for next-generation therapeutic T cell engineering. <i>Biotechnology Advances</i> , 2021 , 49, 107760	17.8	12
169	Physical transfection technologies for macrophages and dendritic cells in immunotherapy. <i>Expert Opinion on Drug Delivery</i> , 2021 , 18, 229-247	8	6
168	PEGylation of recombinant human deoxyribonuclease I decreases its transport across lung epithelial cells and uptake by macrophages. <i>International Journal of Pharmaceutics</i> , 2021 , 593, 120107	6.5	3
167	Cytosolic delivery of gadolinium via photoporation enables improved in vivo magnetic resonance imaging of cancer cells. <i>Biomaterials Science</i> , 2021 , 9, 4005-4018	7.4	3
166	Layer by Layer Assembled Chitosan-Coated Gold Nanoparticles for Enhanced siRNA Delivery and Silencing. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	22
165	Nanoparticle-sensitized photoporation enables inflammasome activation studies in targeted single cells. <i>Nanoscale</i> , 2021 , 13, 6592-6604	7.7	9
164	Carbon quantum dots as a dual platform for the inhibition and light-based destruction of collagen fibers: implications for the treatment of eye floaters. <i>Nanoscale Horizons</i> , 2021 , 6, 449-461	10.8	2
163	Stimuli-responsive nanobubbles for biomedical applications. <i>Chemical Society Reviews</i> , 2021 , 50, 5746-5785	5.6	40
162	Delivery of Oligonucleotides into Bacteria by Fusogenic Liposomes. <i>Methods in Molecular Biology</i> , 2021 , 2246, 87-96	1.4	2
161	Black phosphorus mediated photoporation: a broad absorption nanoplatform for intracellular delivery of macromolecules. <i>Nanoscale</i> , 2021 , 13, 17049-17056	7.7	1
160	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009005	15.6	11
159	Vapor nanobubble-mediated photoporation constitutes a versatile intracellular delivery technology. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 54, 101453	7.6	6
158	Increasing Angiogenesis Factors in Hypoxic Diabetic Wound Conditions by siRNA Delivery: Additive Effect of LbL-Gold Nanocarriers and Desloratadine-Induced Lysosomal Escape. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3

157	Cas9 RNP transfection by vapor nanobubble photoporation for cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 25, 696-707	10.7	3
156	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	18.5	12
155	Vaccinia Virus Protein B18R: Influence on mRNA Immunogenicity and Translation upon Non-Viral Delivery in Different Ocular Cell Types. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
154	Macrophage reprogramming into a pro-healing phenotype by siRNA delivered with LBL assembled nanocomplexes for wound healing applications. <i>Nanoscale</i> , 2021 , 13, 15445-15463	7.7	2
153	Together is Better: mRNA Co-Encapsulation in Lipoplexes is Required to Obtain Ratiometric Co-Delivery and Protein Expression on the Single Cell Level.. <i>Advanced Science</i> , 2021 , e2102072	13.6	3
152	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. <i>Small</i> , 2020 , 16, e1907586	11	30
151	Influence of pathogenic stimuli on Müller cell transfection by lipoplexes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 150, 87-95	5.7	2
150	Targeted nanoparticles towards increased L cell stimulation as a strategy to improve oral peptide delivery in incretin-based diabetes treatment. <i>Biomaterials</i> , 2020 , 255, 120209	15.6	16
149	Synergy between Intraperitoneal Aerosolization (PIPAC) and Cancer Nanomedicine: Cisplatin-Loaded Polyarginine-Hyaluronic Acid Nanocarriers Efficiently Eradicate Peritoneal Metastasis of Advanced Human Ovarian Cancer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29024-29036	9.5	10
148	Surface Functionalization with Polyethylene Glycol and Polyethyleneimine Improves the Performance of Graphene-Based Materials for Safe and Efficient Intracellular Delivery by Laser-Induced Photoporation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
147	Bioinspired hyaluronic acid and polyarginine nanoparticles for DACHPt delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 150, 1-13	5.7	6
146	Long-term live-cell microscopy with labeled nanobodies delivered by laser-induced photoporation. <i>Nano Research</i> , 2020 , 13, 485-495	10	11
145	Intracellular Labeling with Extrinsic Probes: Delivery Strategies and Applications. <i>Small</i> , 2020 , 16, e2000146	11.6	11
144	Fluorescence-Based Quantification of Messenger RNA and Plasmid DNA Decay Kinetics in Extracellular Biological Fluids and Cell Extracts. <i>Advanced Biology</i> , 2020 , 4, e2000057	3.5	11
143	Cationic Amphiphilic Drugs Boost the Lysosomal Escape of Small Nucleic Acid Therapeutics in a Nanocarrier-Dependent Manner. <i>ACS Nano</i> , 2020 , 14, 4774-4791	16.7	22
142	Nanomaterials to avoid and destroy protein aggregates. <i>Nano Today</i> , 2020 , 31, 100837	17.9	14
141	Vapor nanobubble is the more reliable photothermal mechanism for inducing endosomal escape of siRNA without disturbing cell homeostasis. <i>Journal of Controlled Release</i> , 2020 , 319, 262-275	11.7	29
140	Lyophilization and nebulization of pulmonary surfactant-coated nanogels for siRNA inhalation therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 157, 191-199	5.7	10

139	Intracellular Delivery of mRNA in Adherent and Suspension Cells by Vapor Nanobubble Photoporation. <i>Nano-Micro Letters</i> , 2020 , 12, 185	19.5	19
138	Ocular barriers to retinal delivery of intravitreal liposomes: Impact of vitreoretinal interface. <i>Journal of Controlled Release</i> , 2020 , 328, 952-961	11.7	14
137	Materials and Technologies to Combat Counterfeiting of Pharmaceuticals: Current and Future Problem Tackling. <i>Advanced Materials</i> , 2020 , 32, e1905486	24	33
136	Nanocarrier Lipid Composition Modulates the Impact of Pulmonary Surfactant Protein B (SP-B) on Cellular Delivery of siRNA. <i>Pharmaceutics</i> , 2019 , 11,	6.4	6
135	Comparison of MRI Properties between Multimeric DOTAGA and DO3A Gadolinium-Dendron Conjugates. <i>Inorganic Chemistry</i> , 2019 , 58, 12798-12808	5.1	7
134	Gold Nanoparticle-Mediated Photoporation Enables Delivery of Macromolecules over a Wide Range of Molecular Weights in Human CD4+ T Cells. <i>Crystals</i> , 2019 , 9, 411	2.3	19
133	Improved Label-Free Identification of Individual Exosome-like Vesicles with Au@Ag Nanoparticles as SERS Substrate. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39424-39435	9.5	36
132	High Pressure Nebulization (PIPAC) Versus Injection for the Intraperitoneal Administration of mRNA Complexes. <i>Pharmaceutical Research</i> , 2019 , 36, 126	4.5	13
131	Sonoprinting of nanoparticle-loaded microbubbles: Unraveling the multi-timescale mechanism. <i>Biomaterials</i> , 2019 , 217, 119250	15.6	16
130	The obstacle course to the inner retina: Hyaluronic acid-coated lipoplexes cross the vitreous but fail to overcome the inner limiting membrane. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 141, 161-171	5.7	5
129	Establishment of a rat ovarian peritoneal metastasis model to study pressurized intraperitoneal aerosol chemotherapy (PIPAC). <i>BMC Cancer</i> , 2019 , 19, 424	4.8	15
128	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles. <i>Pharmaceutics</i> , 2019 , 11,	6.4	14
127	Ecofriendly Electrospun Membranes Loaded with Visible-Light-Responding Nanoparticles for Multifunctional Usages: Highly Efficient Air Filtration, Dye Scavenging, and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12880-12889	9.5	251
126	Enhancing Nucleic Acid Delivery with Ultrasound and Microbubbles. <i>Methods in Molecular Biology</i> , 2019 , 1943, 241-251	1.4	8
125	Müller cells as a target for retinal therapy. <i>Drug Discovery Today</i> , 2019 , 24, 1483-1498	8.8	25
124	Broadening the Message: A Nanovaccine Co-loaded with Messenger RNA and β GalCer Induces Antitumor Immunity through Conventional and Natural Killer T Cells. <i>ACS Nano</i> , 2019 , 13, 1655-1669	16.7	21
123	Aerosolization of Nanotherapeutics as a Newly Emerging Treatment Regimen for Peritoneal Carcinomatosis. <i>Cancers</i> , 2019 , 11,	6.6	14
122	Photoablation of Human Vitreous Opacities by Light-Induced Vapor Nanobubbles. <i>ACS Nano</i> , 2019 , 13, 8401-8416	16.7	17

121	Non-viral delivery of chemically modified mRNA to the retina: Subretinal versus intravitreal administration. <i>Journal of Controlled Release</i> , 2019 , 307, 315-330	11.7	15
120	Three decades of messenger RNA vaccine development. <i>Nano Today</i> , 2019 , 28, 100766	17.9	98
119	Biocompatible Lipid-Coated Persistent Luminescent Nanoparticles for In Vivo Imaging of Dendritic Cell Migration. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900371	3.1	12
118	Gas-Shearing Fabrication of Multicompartmental Microspheres: A One-Step and Oil-Free Approach. <i>Advanced Science</i> , 2019 , 6, 1802342	13.6	63
117	The Role of Ultrasound-Driven Microbubble Dynamics in Drug Delivery: From Microbubble Fundamentals to Clinical Translation. <i>Langmuir</i> , 2019 , 35, 10173-10191	4	79
116	Morphology and Composition of the Inner Limiting Membrane: Species-Specific Variations and Relevance toward Drug Delivery Research. <i>Current Eye Research</i> , 2019 , 44, 465-475	2.9	24
115	Endosomal Size and Membrane Leakiness Influence Proton Sponge-Based Rupture of Endosomal Vesicles. <i>ACS Nano</i> , 2018 , 12, 2332-2345	16.7	101
114	Quantifying the Average Number of Nucleic Acid Therapeutics per Nanocarrier by Single Particle Tracking Microscopy. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1142-1149	5.6	3
113	Technical implementations of light sheet microscopy. <i>Microscopy Research and Technique</i> , 2018 , 81, 941-958	2.58	19
112	Nanomaterials and molecular transporters to overcome the bacterial envelope barrier: Towards advanced delivery of antibiotics. <i>Advanced Drug Delivery Reviews</i> , 2018 , 136-137, 28-48	18.5	58
111	Nucleic acid loading and fluorescent labeling of isolated extracellular vesicles requires adequate purification. <i>International Journal of Pharmaceutics</i> , 2018 , 548, 783-792	6.5	15
110	In vitro and ex vivo models to study drug delivery barriers in the posterior segment of the eye. <i>Advanced Drug Delivery Reviews</i> , 2018 , 126, 44-57	18.5	45
109	Selective Labeling of Individual Neurons in Dense Cultured Networks With Nanoparticle-Enhanced Photoporation. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 80	6.1	20
108	Targeted Perturbation of Nuclear Envelope Integrity with Vapor Nanobubble-Mediated Photoporation. <i>ACS Nano</i> , 2018 , 12, 7791-7802	16.7	20
107	Methodologies to investigate intracellular barriers for nucleic acid delivery in non-viral gene therapy. <i>Nano Today</i> , 2018 , 21, 74-90	17.9	27
106	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. <i>Light: Science and Applications</i> , 2018 , 7, 47	16.7	35
105	Surfactant protein B (SP-B) enhances the cellular siRNA delivery of proteolipid coated nanogels for inhalation therapy. <i>Acta Biomaterialia</i> , 2018 , 78, 236-246	10.8	34
104	Fluorescence Correlation Spectroscopy to find the critical balance between extracellular association and intracellular dissociation of mRNA complexes. <i>Acta Biomaterialia</i> , 2018 , 75, 358-370	10.8	24

103	Repurposing cationic amphiphilic drugs as adjuvants to induce lysosomal siRNA escape in nanogel transfected cells. <i>Journal of Controlled Release</i> , 2018 , 269, 266-276	11.7	28
102	Photothermally Triggered Endosomal Escape and Its Influence on Transfection Efficiency of Gold-Functionalized JetPEI/pDNA Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	13
101	Pulmonary surfactant and drug delivery: Focusing on the role of surfactant proteins. <i>Journal of Controlled Release</i> , 2018 , 291, 116-126	11.7	53
100	Laser-induced vapour nanobubbles improve drug diffusion and efficiency in bacterial biofilms. <i>Nature Communications</i> , 2018 , 9, 4518	17.4	81
99	The proton sponge hypothesis: Fable or fact?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 129, 184-190	5.7	111
98	Effect of hyaluronic acid-binding to lipoplexes on intravitreal drug delivery for retinal gene therapy. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 103, 27-35	5.1	23
97	Fabrication of Sustained-release CA-PU Coaxial Electrospun Fiber Membranes for Plant Grafting Application. <i>Carbohydrate Polymers</i> , 2017 , 169, 198-205	10.3	35
96	High-Pressure Nebulization as Application Route for the Peritoneal Administration of siRNA Complexes. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700024	5.5	19
95	Intracellular delivery of oligonucleotides in <i>Helicobacter pylori</i> by fusogenic liposomes in the presence of gastric mucus. <i>Biomaterials</i> , 2017 , 138, 1-12	15.6	19
94	Choose your cell model wisely: The in vitro nanoneurotoxicity of differentially coated iron oxide nanoparticles for neural cell labeling. <i>Acta Biomaterialia</i> , 2017 , 55, 204-213	10.8	12
93	PEGylated and Functionalized Aliphatic Polycarbonate Polyplex Nanoparticles for Intravenous Administration of HDAC5 siRNA in Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21812-2195	9.5	17
92	Fast spatial-selective delivery into live cells. <i>Journal of Controlled Release</i> , 2017 , 266, 198-204	11.7	31
91	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	11.7	70
90	Small molecules convey big messages: Boosting non-viral nucleic acid delivery with low molecular weight drugs. <i>Nano Today</i> , 2017 , 16, 14-29	17.9	8
89	Toward smart design of retinal drug carriers: a novel bovine retinal explant model to study the barrier role of the vitreoretinal interface. <i>Drug Delivery</i> , 2017 , 24, 1384-1394	7	23
88	Comparing photoporation and nucleofection for delivery of small interfering RNA to cytotoxic T cells. <i>Journal of Controlled Release</i> , 2017 , 267, 154-162	11.7	44
87	Coating of Quantum Dots strongly defines their effect on lysosomal health and autophagy. <i>Acta Biomaterialia</i> , 2017 , 48, 195-205	10.8	32
86	Nanomedicine-based intraperitoneal therapy for the treatment of peritoneal carcinomatosis - Mission possible?. <i>Advanced Drug Delivery Reviews</i> , 2017 , 108, 13-24	18.5	57

85	Exploring the HYDRation method for loading siRNA on liposomes: the interplay between stability and biological activity in human undiluted ascites fluid. <i>Drug Delivery and Translational Research</i> , 2017 , 7, 241-251	6.2	8
84	Evading innate immunity in nonviral mRNA delivery: don't shoot the messenger. <i>Drug Discovery Today</i> , 2016 , 21, 11-25	8.8	67
83	Sizing nanomaterials in bio-fluids by cFRAP enables protein aggregation measurements and diagnosis of bio-barrier permeability. <i>Nature Communications</i> , 2016 , 7, 12982	17.4	15
82	The impact of species and cell type on the nanosafety profile of iron oxide nanoparticles in neural cells. <i>Journal of Nanobiotechnology</i> , 2016 , 14, 69	9.4	35
81	pH responsive polyurethane (core) and cellulose acetate phthalate (shell) electrospun fibers for intravaginal drug delivery. <i>Carbohydrate Polymers</i> , 2016 , 151, 1240-1244	10.3	83
80	Sonoprinting and the importance of microbubble loading for the ultrasound mediated cellular delivery of nanoparticles. <i>Biomaterials</i> , 2016 , 83, 294-307	15.6	63
79	Hitchhiking nanoparticles: Reversible coupling of lipid-based nanoparticles to cytotoxic T lymphocytes. <i>Biomaterials</i> , 2016 , 77, 243-54	15.6	53
78	Identification of Individual Exosome-Like Vesicles by Surface Enhanced Raman Spectroscopy. <i>Small</i> , 2016 , 12, 3292-301	11	116
77	Laser-assisted photoporation: fundamentals, technological advances and applications. <i>Advances in Physics: X</i> , 2016 , 1, 596-620	5.1	34
76	Core-shell structured electrospun nanofibrous membranes for oil-water separation. <i>RSC Advances</i> , 2016 , 6, 41861-41870	3.7	53
75	Comparing exosome-like vesicles with liposomes for the functional cellular delivery of small RNAs. <i>Journal of Controlled Release</i> , 2016 , 232, 51-61	11.7	85
74	Cytosolic Delivery of Nanolabels Prevents Their Asymmetric Inheritance and Enables Extended Quantitative in Vivo Cell Imaging. <i>Nano Letters</i> , 2016 , 16, 5975-5986	11.5	42
73	Therapeutic and diagnostic applications of extracellular vesicles. <i>Journal of Controlled Release</i> , 2016 , 244, 167-183	11.7	90
72	Biomimetic magnetic silk scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6282-92	9.5	42
71	Bio-inspired pulmonary surfactant-modified nanogels: A promising siRNA delivery system. <i>Journal of Controlled Release</i> , 2015 , 206, 177-86	11.7	64
70	Disregarded Effect of Biological Fluids in siRNA Delivery: Human Ascites Fluid Severely Restricts Cellular Uptake of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24322-9	9.5	26
69	Multilayered Magnetic Gelatin Membrane Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23098-109	9.5	27
68	Lessons in simplicity that should shape the future of drug delivery. <i>Nature Biotechnology</i> , 2015 , 33, 1026-74.5	4.5	25

67	Hybrid pulmonary surfactant-coated nanogels mediate efficient in vivo delivery of siRNA to murine alveolar macrophages. <i>Journal of Controlled Release</i> , 2015 , 217, 53-63	11.7	46
66	Bio-inspired materials in drug delivery: Exploring the role of pulmonary surfactant in siRNA inhalation therapy. <i>Journal of Controlled Release</i> , 2015 , 220, 642-50	11.7	33
65	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, 20-8	11.7	157
64	N(1)-methylpseudouridine-incorporated mRNA outperforms pseudouridine-incorporated mRNA by providing enhanced protein expression and reduced immunogenicity in mammalian cell lines and mice. <i>Journal of Controlled Release</i> , 2015 , 217, 337-44	11.7	190
63	Theranostic mRNA-loaded microbubbles in the lymphatics of dogs: implications for drug delivery. <i>Theranostics</i> , 2015 , 5, 97-109	12.1	47
62	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at <i>Helicobacter pylori</i> . <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e269	10.7	8
61	Mechanistic profiling of the siRNA delivery dynamics of lipid-polymer hybrid nanoparticles. <i>Journal of Controlled Release</i> , 2015 , 201, 22-31	11.7	55
60	Coating nanocarriers with hyaluronic acid facilitates intravitreal drug delivery for retinal gene therapy. <i>Journal of Controlled Release</i> , 2015 , 202, 83-92	11.7	100
59	Merging the best of both worlds: hybrid lipid-enveloped matrix nanocomposites in drug delivery. <i>Chemical Society Reviews</i> , 2014 , 43, 444-72	58.5	133
58	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	11.7	73
57	Lysosomal capturing of cytoplasmic injected nanoparticles by autophagy: an additional barrier to non viral gene delivery. <i>Journal of Controlled Release</i> , 2014 , 195, 29-36	11.7	35
56	Probing the size limit for nanomedicine penetration into <i>Burkholderia multivorans</i> and <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Controlled Release</i> , 2014 , 195, 21-8	11.7	58
55	The Cellular Interactions of PEGylated Gold Nanoparticles: Effect of PEGylation on Cellular Uptake and Cytotoxicity. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 794-800	3.1	42
54	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, 138-46	11.7	10
53	FRAP in pharmaceutical research: practical guidelines and applications in drug delivery. <i>Pharmaceutical Research</i> , 2014 , 31, 255-70	4.5	29
52	Lipid and polymer nanoparticles for drug delivery to bacterial biofilms. <i>Journal of Controlled Release</i> , 2014 , 190, 607-23	11.7	244
51	Colloidal stability of nano-sized particles in the peritoneal fluid: towards optimizing drug delivery systems for intraperitoneal therapy. <i>Acta Biomaterialia</i> , 2014 , 10, 2965-75	10.8	52
50	Effect of covalent fluorescence labeling of plasmid DNA on its intracellular processing and transfection with lipid-based carriers. <i>Molecular Pharmaceutics</i> , 2014 , 11, 1359-68	5.6	13

49	Electrospun polystyrene fibers for HIV entrapment. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 827-834	18
48	Exploiting intrinsic nanoparticle toxicity: the pros and cons of nanoparticle-induced autophagy in biomedical research. <i>Chemical Reviews</i> , 2014 , 114, 7581-609	68.1 190
47	Comparison of gold nanoparticle mediated photoporation: vapor nanobubbles outperform direct heating for delivering macromolecules in live cells. <i>ACS Nano</i> , 2014 , 8, 6288-96	16.7 115
46	The performance of gradient alloy quantum dots in cell labeling. <i>Biomaterials</i> , 2014 , 35, 7249-58	15.6 21
45	Nanoparticle design to induce tumor immunity and challenge the suppressive tumor microenvironment. <i>Nano Today</i> , 2014 , 9, 743-758	17.9 49
44	A personalized view on cancer immunotherapy. <i>Cancer Letters</i> , 2014 , 352, 113-25	9.9 45
43	Focal delivery of AAV2/1-transgenes into the rat brain by localized ultrasound-induced BBB Opening. <i>Annals of Neurosciences</i> , 2014 , 21, 22	1.1 6
42	Assessing nanoparticle toxicity in cell-based assays: influence of cell culture parameters and optimized models for bridging the in vitro-in vivo gap. <i>Chemical Society Reviews</i> , 2013 , 42, 8339-59	58.5 156
41	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. <i>Journal of Controlled Release</i> , 2013 , 172, 229-238	11.7 333
40	In vivo disassembly of IV administered siRNA matrix nanoparticles at the renal filtration barrier. <i>Biomaterials</i> , 2013 , 34, 2350-8	15.6 67
39	The influence of natural pulmonary surfactant on the efficacy of siRNA-loaded dextran nanogels. <i>Nanomedicine</i> , 2013 , 8, 1625-38	5.6 31
38	Measuring the intravitreal mobility of nanomedicines with single-particle tracking microscopy. <i>Nanomedicine</i> , 2013 , 8, 1955-68	5.6 57
37	On the cellular processing of non-viral nanomedicines for nucleic acid delivery: mechanisms and methods. <i>Journal of Controlled Release</i> , 2012 , 161, 566-81	11.7 118
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