

# Kevin Braekmans

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6220715/kevin-braekmans-publications-by-year.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200 papers	10,583 citations	55 h-index	96 g-index
209 ext. papers	12,294 ext. citations	11.5 avg, IF	6.28 L-index

#	Paper	IF	Citations
200	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> , <b>2022</b> , 79, 23	10.3	2
199	The cellular response to plasma membrane disruption for nanomaterial delivery.. <i>Nano Convergence</i> , <b>2022</b> , 9, 6	9.2	1
198	Gas-shearing synthesis of core-shell multicompartamental microparticles as cell-like system for enzymatic cascade reaction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132607	14.7	10
197	Non-viral siRNA delivery to T cells: Challenges and opportunities in cancer immunotherapy. <i>Biomaterials</i> , <b>2022</b> , 121510	15.6	1
196	Light triggered nanoscale biolistics for efficient intracellular delivery of functional macromolecules in mammalian cells.. <i>Nature Communications</i> , <b>2022</b> , 13, 1996	17.4	1
195	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> , <b>2022</b> , 121772	6.5	1
194	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 1281-1291	28.7	43
193	Triggered Release from Cellulose Microparticles Inspired by Wood Degradation by Fungi. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 387-397	8.3	18
192	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102472	15.6	5
191	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> , <b>2021</b> , 8, 639184	5.6	6
190	Bubble Forming Films for Spatial Selective Cell Killing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008379	24	4
189	Hydrogel-Induced Cell Membrane Disruptions Enable Direct Cytosolic Delivery of Membrane-Impermeable Cargo. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008054	24	4
188	Lipoplexes to Deliver Oligonucleotides in Gram-Positive and Gram-Negative Bacteria: Towards Treatment of Blood Infections. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
187	Bubble-Forming Films: Bubble Forming Films for Spatial Selective Cell Killing (Adv. Mater. 27/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170211	24	2
186	Non-viral transfection technologies for next-generation therapeutic T cell engineering. <i>Biotechnology Advances</i> , <b>2021</b> , 49, 107760	17.8	12
185	Physical transfection technologies for macrophages and dendritic cells in immunotherapy. <i>Expert Opinion on Drug Delivery</i> , <b>2021</b> , 18, 229-247	8	6
184	PEGylation of recombinant human deoxyribonuclease I decreases its transport across lung epithelial cells and uptake by macrophages. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 593, 120107	6.5	3

183	Cytosolic delivery of gadolinium via photoporation enables improved in vivo magnetic resonance imaging of cancer cells. <i>Biomaterials Science</i> , <b>2021</b> , 9, 4005-4018	7.4	3
182	Layer by Layer Assembled Chitosan-Coated Gold Nanoparticles for Enhanced siRNA Delivery and Silencing. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	22
181	Nanoparticle-sensitized photoporation enables inflammasome activation studies in targeted single cells. <i>Nanoscale</i> , <b>2021</b> , 13, 6592-6604	7.7	9
180	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> , <b>2021</b> , 6, 449-461	10.8	2
179	Stimuli-responsive nanobubbles for biomedical applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 5746-5785	15.5	40
178	Delivery of Oligonucleotides into Bacteria by Fusogenic Liposomes. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2246, 87-96	1.4	2
177	Black phosphorus mediated photoporation: a broad absorption nanoplatform for intracellular delivery of macromolecules. <i>Nanoscale</i> , <b>2021</b> , 13, 17049-17056	7.7	1
176	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009005	15.6	11
175	Detection of ovalbumin amyloid-like fibrils at the oil-water interface in oil-in-water emulsions by spinning disk confocal microscopy. <i>Food Structure</i> , <b>2021</b> , 29, 100207	4.3	
174	Vapor nanobubble-mediated photoporation constitutes a versatile intracellular delivery technology. <i>Current Opinion in Colloid and Interface Science</i> , <b>2021</b> , 54, 101453	7.6	6
173	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> , <b>2021</b> , 22,	6.3	3
172	Cas9 RNP transfection by vapor nanobubble photoporation for cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 25, 696-707	10.7	3
171	Macrophage reprogramming into a pro-healing phenotype by siRNA delivered with LBL assembled nanocomplexes for wound healing applications. <i>Nanoscale</i> , <b>2021</b> , 13, 15445-15463	7.7	2
170	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> , <b>2021</b> , e2102072	13.6	3
169	Plasma membrane perforation by GSDME during apoptosis-driven secondary necrosis.. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 79, 19	10.3	2
168	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. <i>Small</i> , <b>2020</b> , 16, e1907586	11	30
167	Targeted nanoparticles towards increased L cell stimulation as a strategy to improve oral peptide delivery in incretin-based diabetes treatment. <i>Biomaterials</i> , <b>2020</b> , 255, 120209	15.6	16
166	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> , <b>2020</b> , 21,	6.3	11

165	Long-term live-cell microscopy with labeled nanobodies delivered by laser-induced photoporation. <i>Nano Research</i> , <b>2020</b> , 13, 485-495	10	11
164	Intracellular Labeling with Extrinsic Probes: Delivery Strategies and Applications. <i>Small</i> , <b>2020</b> , 16, e2000146	14	11
163	Fluorescence-Based Quantification of Messenger RNA and Plasmid DNA Decay Kinetics in Extracellular Biological Fluids and Cell Extracts. <i>Advanced Biology</i> , <b>2020</b> , 4, e2000057	3.5	11
162	Nanomaterials to avoid and destroy protein aggregates. <i>Nano Today</i> , <b>2020</b> , 31, 100837	17.9	14
161	Vapor nanobubble is the more reliable photothermal mechanism for inducing endosomal escape of siRNA without disturbing cell homeostasis. <i>Journal of Controlled Release</i> , <b>2020</b> , 319, 262-275	11.7	29
160	Intracellular Delivery of mRNA in Adherent and Suspension Cells by Vapor Nanobubble Photoporation. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 185	19.5	19
159	Does the mode of dispersion determine the properties of dispersed <i>Pseudomonas aeruginosa</i> biofilm cells?. <i>International Journal of Antimicrobial Agents</i> , <b>2020</b> , 56, 106194	14.3	2
158	Nanobody click chemistry for convenient site-specific fluorescent labelling, single step immunocytochemistry and delivery into living cells by photoporation and live cell imaging. <i>New Biotechnology</i> , <b>2020</b> , 59, 33-43	6.4	8
157	Materials and Technologies to Combat Counterfeiting of Pharmaceuticals: Current and Future Problem Tackling. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905486	24	33
156	Delivery of Mixed-Lineage Kinase Domain-Like Protein by Vapor Nanobubble Photoporation Induces Necroptotic-Like Cell Death in Tumor Cells. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	15
155	Efficient Endocytosis of Inorganic Nanoparticles with Zwitterionic Surface Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38475-38482	9.5	9
154	Gold Nanoparticle-Mediated Photoporation Enables Delivery of Macromolecules over a Wide Range of Molecular Weights in Human CD4+ T Cells. <i>Crystals</i> , <b>2019</b> , 9, 411	2.3	19
153	Improved Label-Free Identification of Individual Exosome-like Vesicles with Au@Ag Nanoparticles as SERS Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39424-39435	9.5	36
152	Sonoprinting of nanoparticle-loaded microbubbles: Unraveling the multi-timescale mechanism. <i>Biomaterials</i> , <b>2019</b> , 217, 119250	15.6	16
151	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	14
150	Mechanistic profiling of the release kinetics of siRNA from lipidoid-polymer hybrid nanoparticles in vitro and in vivo after pulmonary administration. <i>Journal of Controlled Release</i> , <b>2019</b> , 310, 82-93	11.7	20
149	Photoablation of Human Vitreous Opacities by Light-Induced Vapor Nanobubbles. <i>ACS Nano</i> , <b>2019</b> , 13, 8401-8416	16.7	17
148	The role of small proteins in J2315 biofilm formation, persistence and intracellular growth. <i>Biofilm</i> , <b>2019</b> , 1, 100001	5.9	4

147	Biocompatible Lipid-Coated Persistent Luminescent Nanoparticles for In Vivo Imaging of Dendritic Cell Migration. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900371	3.1	12
146	Gas-Shearing Fabrication of Multicompartmental Microspheres: A One-Step and Oil-Free Approach. <i>Advanced Science</i> , <b>2019</b> , 6, 1802342	13.6	63
145	Endosomal Size and Membrane Leakiness Influence Proton Sponge-Based Rupture of Endosomal Vesicles. <i>ACS Nano</i> , <b>2018</b> , 12, 2332-2345	16.7	101
144	Quantifying the Average Number of Nucleic Acid Therapeutics per Nanocarrier by Single Particle Tracking Microscopy. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1142-1149	5.6	3
143	Nanomaterials and molecular transporters to overcome the bacterial envelope barrier: Towards advanced delivery of antibiotics. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 136-137, 28-48	18.5	58
142	Nucleic acid loading and fluorescent labeling of isolated extracellular vesicles requires adequate purification. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 548, 783-792	6.5	15
141	Bypassing Border Control: Nuclear Envelope Rupture in Disease. <i>Physiology</i> , <b>2018</b> , 33, 39-49	9.8	11
140	Selective Labeling of Individual Neurons in Dense Cultured Networks With Nanoparticle-Enhanced Photoporation. <i>Frontiers in Cellular Neuroscience</i> , <b>2018</b> , 12, 80	6.1	20
139	Targeted Perturbation of Nuclear Envelope Integrity with Vapor Nanobubble-Mediated Photoporation. <i>ACS Nano</i> , <b>2018</b> , 12, 7791-7802	16.7	20
138	Methodologies to investigate intracellular barriers for nucleic acid delivery in non-viral gene therapy. <i>Nano Today</i> , <b>2018</b> , 21, 74-90	17.9	27
137	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 47	16.7	35
136	Post-PEGylated and crosslinked polymeric ssRNA nanocomplexes as adjuvants targeting lymph nodes with increased cytolytic T cell inducing properties. <i>Journal of Controlled Release</i> , <b>2018</b> , 284, 73-83	11.7	11
135	Loss of Nuclear Envelope Integrity in Aging and Disease. <i>International Review of Cell and Molecular Biology</i> , <b>2018</b> , 336, 205-222	6	22
134	In Vitro Evaluation of Anti-Aggregation and Degradation Behavior of PEGylated Polymeric Nanogels under In Vivo Like Conditions. <i>Macromolecular Bioscience</i> , <b>2018</b> , 18, 1700127	5.5	2
133	Intra-Articular Formulation of GE11-PLGA Conjugate-Based NPs for Dexamethasone Selective Targeting-In Vitro Evaluation. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	12
132	Photothermally Triggered Endosomal Escape and Its Influence on Transfection Efficiency of Gold-Functionalized JetPEI/pDNA Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	13
131	Laser-induced vapour nanobubbles improve drug diffusion and efficiency in bacterial biofilms. <i>Nature Communications</i> , <b>2018</b> , 9, 4518	17.4	81
130	The proton sponge hypothesis: Fable or fact?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2018</b> , 129, 184-190	5.7	111

129	Effect of hyaluronic acid-binding to lipoplexes on intravitreal drug delivery for retinal gene therapy. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 103, 27-35	5.1	23
128	Membrane vesicle secretion and prophage induction in multidrug-resistant <i>Stenotrophomonas maltophilia</i> in response to ciprofloxacin stress. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 3930-3937	5.2	32
127	Intracellular delivery of oligonucleotides in <i>Helicobacter pylori</i> by fusogenic liposomes in the presence of gastric mucus. <i>Biomaterials</i> , <b>2017</b> , 138, 1-12	15.6	19
126	Ovarian tissue cryopreservation in female-to-male transgender people: insights into ovarian histology and physiology after prolonged androgen treatment. <i>Reproductive BioMedicine Online</i> , <b>2017</b> , 34, 557-566	4	77
125	PEGylated and Functionalized Aliphatic Polycarbonate Polyplex Nanoparticles for Intravenous Administration of HDAC5 siRNA in Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21812-21915	9.5	17
124	Fast spatial-selective delivery into live cells. <i>Journal of Controlled Release</i> , <b>2017</b> , 266, 198-204	11.7	31
123	Comparing photoporation and nucleofection for delivery of small interfering RNA to cytotoxic T cells. <i>Journal of Controlled Release</i> , <b>2017</b> , 267, 154-162	11.7	44
122	Coating of Quantum Dots strongly defines their effect on lysosomal health and autophagy. <i>Acta Biomaterialia</i> , <b>2017</b> , 48, 195-205	10.8	32
121	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> , <b>2017</b> , 7, 241-251	6.2	8
120	Microfabricated devices for single objective single plane illumination microscopy (SoSPIM). <i>Optics Express</i> , <b>2017</b> , 25, 1732-1745	3.3	15
119	Approximate Bayesian computation for estimating number concentrations of monodisperse nanoparticles in suspension by optical microscopy. <i>Physical Review E</i> , <b>2016</b> , 93, 063311	2.4	6
118	Sizing nanomaterials in bio-fluids by cFRAP enables protein aggregation measurements and diagnosis of bio-barrier permeability. <i>Nature Communications</i> , <b>2016</b> , 7, 12982	17.4	15
117	High oxygen tension increases global methylation in bovine 4-cell embryos and blastocysts but does not affect general retrotransposon expression. <i>Reproduction, Fertility and Development</i> , <b>2016</b> , 28, 948-959	1.8	40
116	Intra- and Interspecies Effects of Outer Membrane Vesicles from <i>Stenotrophomonas maltophilia</i> on $\beta$ -Lactam Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 2516-8	5.9	25
115	Methods to follow intracellular trafficking of cell-penetrating peptides. <i>Journal of Drug Targeting</i> , <b>2016</b> , 24, 508-19	5.4	12
114	High-resolution synchrotron X-ray analysis of bioglass-enriched hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1194-201	5.4	14
113	Identification of Individual Exosome-Like Vesicles by Surface Enhanced Raman Spectroscopy. <i>Small</i> , <b>2016</b> , 12, 3292-301	11	116
112	Laser-assisted photoporation: fundamentals, technological advances and applications. <i>Advances in Physics: X</i> , <b>2016</b> , 1, 596-620	5.1	34



111	Endocytosis and Endosomal Trafficking of DNA After Gene Electrotransfer In Vitro. <i>Molecular Therapy - Nucleic Acids</i> , <b>2016</b> , 5, e286	10.7	47
110	Cytosolic Delivery of Nanolabels Prevents Their Asymmetric Inheritance and Enables Extended Quantitative in Vivo Cell Imaging. <i>Nano Letters</i> , <b>2016</b> , 16, 5975-5986	11.5	42
109	Freeze-dried mucoadhesive polymeric system containing pegylated lipoplexes: Towards a vaginal sustained released system for siRNA. <i>Journal of Controlled Release</i> , <b>2016</b> , 236, 68-78	11.7	26
108	Design of smart GE11-PLGA/PEG-PLGA blend nanoparticulate platforms for parenteral administration of hydrophilic macromolecular drugs: synthesis, preparation and in vitro/ex vivo characterization. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 511, 1112-23	6.5	26
107	Biomimetic magnetic silk scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6282-92	9.5	42
106	Transport Mechanisms of Squalenoyl-Adenosine Nanoparticles Across the BloodBrain Barrier. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3636-3647	9.6	28
105	Bio-inspired pulmonary surfactant-modified nanogels: A promising siRNA delivery system. <i>Journal of Controlled Release</i> , <b>2015</b> , 206, 177-86	11.7	64
104	Stealth monoolein-based nanocarriers for delivery of siRNA to cancer cells. <i>Acta Biomaterialia</i> , <b>2015</b> , 25, 216-29	10.8	20
103	Disregarded Effect of Biological Fluids in siRNA Delivery: Human Ascites Fluid Severely Restricts Cellular Uptake of Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24322-9	9.5	26
102	Multilayered Magnetic Gelatin Membrane Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23098-109	9.5	27
101	Targeted decationized polyplexes for siRNA delivery. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 150-61	5.6	20
100	Ultrasound and microbubble mediated drug delivery: acoustic pressure as determinant for uptake via membrane pores or endocytosis. <i>Journal of Controlled Release</i> , <b>2015</b> , 197, 20-8	11.7	157
99	Fluorescence recovery after photobleaching in material and life sciences: putting theory into practice. <i>Quarterly Reviews of Biophysics</i> , <b>2015</b> , 48, 323-87	7	78
98	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at Helicobacter pylori. <i>Molecular Therapy - Nucleic Acids</i> , <b>2015</b> , 4, e269	10.7	8
97	The Effect of Intracellular Degradation on Cytotoxicity and Cell Labeling Efficacy of Inorganic Ligand-Stabilized Colloidal CdSe/CdS Quantum Dots. <i>Journal of Biomedical Nanotechnology</i> , <b>2015</b> , 11, 631-43	4	17
96	Mechanistic profiling of the siRNA delivery dynamics of lipid-polymer hybrid nanoparticles. <i>Journal of Controlled Release</i> , <b>2015</b> , 201, 22-31	11.7	55
95	Coating nanocarriers with hyaluronic acid facilitates intravitreal drug delivery for retinal gene therapy. <i>Journal of Controlled Release</i> , <b>2015</b> , 202, 83-92	11.7	100
94	DNA counterstaining for methylation and hydroxymethylation immunostaining in bovine zygotes. <i>Analytical Biochemistry</i> , <b>2014</b> , 454, 14-6	3.1	5

93	Precisely and accurately localizing single emitters in fluorescence microscopy. <i>Nature Methods</i> , <b>2014</b> , 11, 253-66	21.6	341
92	Merging the best of both worlds: hybrid lipid-enveloped matrix nanocomposites in drug delivery. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 444-72	58.5	133
91	The effect of nanoparticle degradation on amphiphilic polymer-coated quantum dot toxicity: the importance of particle functionality assessment in toxicology [corrected]. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 732-41	10.8	52
90	On-chip light sheet illumination enables diagnostic size and concentration measurements of membrane vesicles in biofluids. <i>Nanoscale</i> , <b>2014</b> , 6, 1741-7	7.7	39
89	Decationized polyplexes as stable and safe carrier systems for improved biodistribution in systemic gene therapy. <i>Journal of Controlled Release</i> , <b>2014</b> , 195, 162-175	11.7	33
88	Lysosomal capturing of cytoplasmic injected nanoparticles by autophagy: an additional barrier to non viral gene delivery. <i>Journal of Controlled Release</i> , <b>2014</b> , 195, 29-36	11.7	35
87	Probing the size limit for nanomedicine penetration into <i>Burkholderia multivorans</i> and <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Controlled Release</i> , <b>2014</b> , 195, 21-8	11.7	58
86	The Cellular Interactions of PEGylated Gold Nanoparticles: Effect of PEGylation on Cellular Uptake and Cytotoxicity. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 794-800	3.1	42
85	FRAP in pharmaceutical research: practical guidelines and applications in drug delivery. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 255-70	4.5	29
84	Lipid and polymer nanoparticles for drug delivery to bacterial biofilms. <i>Journal of Controlled Release</i> , <b>2014</b> , 190, 607-23	11.7	244
83	Cytotoxicity of cadmium-free quantum dots and their use in cell bioimaging. <i>Chemical Research in Toxicology</i> , <b>2014</b> , 27, 1050-9	4	70
82	Bright and stable CdSe/CdS@SiO <sub>2</sub> nanoparticles suitable for long-term cell labeling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11714-23	9.5	50
81	Single-particle tracking for studying nanomaterial dynamics: applications and fundamentals in drug delivery. <i>Nanomedicine</i> , <b>2014</b> , 9, 913-27	5.6	31
80	Colloidal stability of nano-sized particles in the peritoneal fluid: towards optimizing drug delivery systems for intraperitoneal therapy. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2965-75	10.8	52
79	Effect of covalent fluorescence labeling of plasmid DNA on its intracellular processing and transfection with lipid-based carriers. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 1359-68	5.6	13
78	Electrospun polystyrene fibers for HIV entrapment. <i>Polymers for Advanced Technologies</i> , <b>2014</b> , 25, 827-834	3.4	18
77	Diocetyltrimethylammonium:monoolein nanocarriers for efficient in vitro gene silencing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6977-89	9.5	29
76	Exploiting intrinsic nanoparticle toxicity: the pros and cons of nanoparticle-induced autophagy in biomedical research. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7581-609	68.1	190



75	Comparison of gold nanoparticle mediated photoporation: vapor nanobubbles outperform direct heating for delivering macromolecules in live cells. <i>ACS Nano</i> , <b>2014</b> , 8, 6288-96	16.7	115
74	Intracellular delivery of nanomaterials: How to catch endosomal escape in the act. <i>Nano Today</i> , <b>2014</b> , 9, 344-364	17.9	205
73	The performance of gradient alloy quantum dots in cell labeling. <i>Biomaterials</i> , <b>2014</b> , 35, 7249-58	15.6	21
72	A beneficiary role for neuraminidase in influenza virus penetration through the respiratory mucus. <i>PLoS ONE</i> , <b>2014</b> , 9, e110026	3.7	63
71	Equine oviduct explant culture: a basic model to decipher embryo-maternal communication. <i>Reproduction, Fertility and Development</i> , <b>2014</b> , 26, 954-66	1.8	13
70	Polysaccharide-based nucleic acid nanoformulations. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 1123-47	18.5	140
69	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> , <b>2013</b> , 42, 8339-59	58.5	156
68	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. <i>Journal of Controlled Release</i> , <b>2013</b> , 172, 229-238	11.7	333
67	In vivo disassembly of IV administered siRNA matrix nanoparticles at the renal filtration barrier. <i>Biomaterials</i> , <b>2013</b> , 34, 2350-8	15.6	67
66	Light-Addressable Capsules as Caged Compound Matrix for Controlled Triggering of Cytosolic Reactions. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 723-727	3.6	15
65	Light-addressable capsules as caged compound matrix for controlled triggering of cytosolic reactions. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 695-9	16.4	98
64	Fluorescent non-porous silica nanoparticles for long-term cell monitoring: cytotoxicity and particle functionality. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 9183-93	10.8	31
63	The influence of natural pulmonary surfactant on the efficacy of siRNA-loaded dextran nanogels. <i>Nanomedicine</i> , <b>2013</b> , 8, 1625-38	5.6	31
62	Polymer-coated nanoparticles interacting with proteins and cells: focusing on the sign of the net charge. <i>ACS Nano</i> , <b>2013</b> , 7, 3253-63	16.7	390
61	Turning a frown upside down: Exploiting nanoparticle toxicity for anticancer therapy. <i>Nano Today</i> , <b>2013</b> , 8, 121-125	17.9	32
60	Transport of nanoparticles in cystic fibrosis sputum and bacterial biofilms by single-particle tracking microscopy. <i>Nanomedicine</i> , <b>2013</b> , 8, 935-49	5.6	76
59	Correlation of dual colour single particle trajectories for improved detection and analysis of interactions in living cells. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 16485-514	6.3	12
58	Automatic particle detection in microscopy using temporal correlations. <i>Microscopy Research and Technique</i> , <b>2013</b> , 76, 997-1006	2.8	

57	Towards theranostic multicompartiment microcapsules: in-situ diagnostics and laser-induced treatment. <i>Theranostics</i> , <b>2013</b> , 3, 141-51	12.1	62
56	Transport of nanoparticles and tobramycin-loaded liposomes in Burkholderia cepacia complex biofilms. <i>PLoS ONE</i> , <b>2013</b> , 8, e79220	3.7	62
55	The cytotoxic effects of polymer-coated quantum dots and restrictions for live cell applications. <i>Biomaterials</i> , <b>2012</b> , 33, 4882-8	15.6	69
54	Liposome based systems for systemic siRNA delivery: stability in blood sets the requirements for optimal carrier design. <i>Journal of Controlled Release</i> , <b>2012</b> , 158, 362-70	11.7	152
53	On the cellular processing of non-viral nanomedicines for nucleic acid delivery: mechanisms and methods. <i>Journal of Controlled Release</i> , <b>2012</b> , 161, 566-81	11.7	118
52	Elucidating the pre- and post-nuclear intracellular processing of 1,4-dihydropyridine based gene delivery carriers. <i>Journal of Controlled Release</i> , <b>2012</b> , 162, 167-75	11.7	15
51	The influence of movement on the localization precision of sub-resolution particles in fluorescence microscopy. <i>Journal of Biophotonics</i> , <b>2012</b> , 5, 97-109	3.1	54
50	Spatiotemporal visualization of subcellular dynamics of carbon nanotubes. <i>Nano Letters</i> , <b>2012</b> , 12, 6145-51	5.5	26
49	Fluorescence Spectroscopy to Characterize Protein Aggregates and Particles <b>2012</b> , 201-226		6
48	Investigating the toxic effects of iron oxide nanoparticles. <i>Methods in Enzymology</i> , <b>2012</b> , 509, 195-224	1.7	42
47	Cytotoxic effects of gold nanoparticles: a multiparametric study. <i>ACS Nano</i> , <b>2012</b> , 6, 5767-83	16.7	200
46	Limitations and caveats of magnetic cell labeling using transfection agent complexed iron oxide nanoparticles. <i>Contrast Media and Molecular Imaging</i> , <b>2012</b> , 7, 140-52	3.2	10
45	In search for cross-reactivity to immunophenotype equine mesenchymal stromal cells by multicolor flow cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2012</b> , 81, 312-23	4.6	74
44	Detection and characterization of subvisible aggregates of monoclonal IgG in serum. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 2202-12	4.5	51
43	Intracellular partitioning of cell organelles and extraneous nanoparticles during mitosis. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 78-94	18.5	44
42	Immobilization of pseudorabies virus in porcine tracheal respiratory mucus revealed by single particle tracking. <i>PLoS ONE</i> , <b>2012</b> , 7, e51054	3.7	31
41	Stimuli-responsive electrospun fibers and their applications. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 2417-34	58.5	164
40	Dynamic colocalization microscopy to characterize intracellular trafficking of nanomedicines. <i>ACS Nano</i> , <b>2011</b> , 5, 7874-84	16.7	70

39	Protein macromonomers containing reduction-sensitive linkers for covalent immobilization and glutathione triggered release from dextran hydrogels. <i>Journal of Controlled Release</i> , <b>2011</b> , 156, 329-36	11.7	27
38	Hemocompatibility of siRNA loaded dextran nanogels. <i>Biomaterials</i> , <b>2011</b> , 32, 9120-7	15.6	58
37	Cellular toxicity of inorganic nanoparticles: Common aspects and guidelines for improved nanotoxicity evaluation. <i>Nano Today</i> , <b>2011</b> , 6, 446-465	17.9	506
36	Fluorescence single particle tracking for the characterization of submicron protein aggregates in biological fluids and complex formulations. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 1112-20	4.5	44
35	MRI assessment of blood outgrowth endothelial cell homing using cationic magnetoliposomes. <i>Biomaterials</i> , <b>2011</b> , 32, 4140-50	15.6	21
34	Functional platform for controlled subcellular distribution of carbon nanotubes. <i>ACS Nano</i> , <b>2011</b> , 5, 9264-70	11.7	56
33	Flotillin-dependent endocytosis and a phagocytosis-like mechanism for cellular internalization of disulfide-based poly(amido amine)/DNA polyplexes. <i>Biomaterials</i> , <b>2011</b> , 32, 3072-84	15.6	70
32	Influence of temperature, oxygen and bacterial strain identity on the association of <i>Campylobacter jejuni</i> with <i>Acanthamoeba castellanii</i> . <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 74, 371-81	4.3	25
31	Fungicidal activity of miconazole against <i>Candida</i> spp. biofilms. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2010</b> , 65, 694-700	5.1	78
30	Photopolymerized thermosensitive poly(HPMA lactate)-PEG-based hydrogels: effect of network design on mechanical properties, degradation, and release behavior. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2143-51	6.9	50
29	Straightforward FRAP for quantitative diffusion measurements with a laser scanning microscope. <i>Optics Express</i> , <b>2010</b> , 18, 22886-905	3.3	53
28	Sizing nanomatter in biological fluids by fluorescence single particle tracking. <i>Nano Letters</i> , <b>2010</b> , 10, 4435-42	11.5	128
27	The use of inhibitors to study endocytic pathways of gene carriers: optimization and pitfalls. <i>Molecular Therapy</i> , <b>2010</b> , 18, 561-9	11.7	464
26	Unbreakable codes in electrospun fibers to stop medicine counterfeiting. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, e13-5	11.7	1
25	Advanced fluorescence microscopy methods illuminate the transfection pathway of nucleic acid nanoparticles. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 69-74	11.7	39
24	Unbreakable codes in electrospun fibers: digitally encoded polymers to stop medicine counterfeiting. <i>Advanced Materials</i> , <b>2010</b> , 22, 2657-62	24	49
23	Protein-Release Behavior of Self-Assembled PEG/Cyclodextrin/PEG/Cholesterol Hydrogels. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2992-3001	15.6	97
22	Stable long-term intracellular labelling with fluorescently tagged cationic magnetoliposomes. <i>ChemBioChem</i> , <b>2009</b> , 10, 257-67	3.8	43

21	The role of nanoparticle concentration-dependent induction of cellular stress in the internalization of non-toxic cationic magnetoliposomes. <i>Biomaterials</i> , <b>2009</b> , 30, 6803-13	15.6	101
20	Extracellular barriers in respiratory gene therapy. <i>Advanced Drug Delivery Reviews</i> , <b>2009</b> , 61, 115-27	18.5	165
19	A fast and sensitive method for measuring the integrity of siRNA-carrier complexes in full human serum. <i>Journal of Controlled Release</i> , <b>2008</b> , 126, 67-76	11.7	112
18	A new FRAP/FRAPa method for three-dimensional diffusion measurements based on multiphoton excitation microscopy. <i>Biophysical Journal</i> , <b>2008</b> , 95, 3457-69	2.9	53
17	Evaluation of Encoded Layer-By-Layer Coated Microparticles As Protease Sensors. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1624-1631	15.6	15
16	Water-Soluble Monofunctional Perylene and Terrylene Dyes: Powerful Labels for Single-Enzyme Tracking. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 3420-3423	3.6	39
15	Multifunctional layer-by-layer coating of digitally encoded microparticles. <i>Langmuir</i> , <b>2007</b> , 23, 10272-9	4	16
14	Line FRAP with the confocal laser scanning microscope for diffusion measurements in small regions of 3-D samples. <i>Biophysical Journal</i> , <b>2007</b> , 92, 2172-83	2.9	67
13	Cell uptake, cytoplasmic diffusion and nuclear access of a 6.5 nm diameter dendrimer. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 331, 215-9	6.5	13
12	Nucleic acid delivery: Where material sciences and bio-sciences meet. <i>Materials Science and Engineering Reports</i> , <b>2007</b> , 58, 117-161	30.9	79
11	Brn-3a suppresses pseudorabies virus-induced cell death in sensory neurons. <i>Journal of General Virology</i> , <b>2007</b> , 88, 743-747	4.9	3
10	The transport of nanosized gene carriers unraveled by live-cell imaging. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1568-72	16.4	118
9	Characterization of the Mode of Incorporation of Lipophilic Compounds in Solid Dispersions at the Nanoscale Using Fluorescence Resonance Energy Transfer (FRET). <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 1149-1155	4.8	23
8	The Transport of Nanosized Gene Carriers Unraveled by Live-Cell Imaging. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 1598-1602	3.6	24
7	Anomalous photobleaching in fluorescence recovery after photobleaching measurements due to excitation saturation—a case study for fluorescein. <i>Journal of Biomedical Optics</i> , <b>2006</b> , 11, 044013	3.5	18
6	Characterization of diffusion of macromolecules in konjac glucomannan solutions and gels by fluorescence recovery after photobleaching technique. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 316, 37-46	6.5	44
5	Mobility of model proteins in hydrogels composed of oppositely charged dextran microspheres studied by protein release and fluorescence recovery after photobleaching. <i>Journal of Controlled Release</i> , <b>2005</b> , 110, 67-78	11.7	64
4	Vitreous: a barrier to nonviral ocular gene therapy. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 3553-61		144

3	Encoding microcarriers by spatial selective photobleaching. <i>Nature Materials</i> , <b>2003</b> , 2, 169-73	27	138
2	Three-dimensional fluorescence recovery after photobleaching with the confocal scanning laser microscope. <i>Biophysical Journal</i> , <b>2003</b> , 85, 2240-52	2.9	227
1	Encoding microcarriers: present and future technologies. <i>Nature Reviews Drug Discovery</i> , <b>2002</b> , 1, 447-5664.1		249