

# Kevin Braekmans

## List of Publications by Year in descending order

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202  
papers

13,801  
citations

20797

60  
h-index

25770

108  
g-index

209  
all docs

209  
docs citations

209  
times ranked

20138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular toxicity of inorganic nanoparticles: Common aspects and guidelines for improved nanotoxicity evaluation. <i>Nano Today</i> , 2011, 6, 446-465.	6.2	581
2	The Use of Inhibitors to Study Endocytic Pathways of Gene Carriers: Optimization and Pitfalls. <i>Molecular Therapy</i> , 2010, 18, 561-569.	3.7	578
3	Polymer-Coated Nanoparticles Interacting with Proteins and Cells: Focusing on the Sign of the Net Charge. <i>ACS Nano</i> , 2013, 7, 3253-3263.	7.3	477
4	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. <i>Journal of Controlled Release</i> , 2013, 172, 229-238.	4.8	457
5	Precisely and accurately localizing single emitters in fluorescence microscopy. <i>Nature Methods</i> , 2014, 11, 253-266.	9.0	430
6	Lipid and polymer nanoparticles for drug delivery to bacterial biofilms. <i>Journal of Controlled Release</i> , 2014, 190, 607-623.	4.8	325
7	Intracellular delivery of nanomaterials: How to catch endosomal escape in the act. <i>Nano Today</i> , 2014, 9, 344-364.	6.2	276
8	Encoding microcarriers: present and future technologies. <i>Nature Reviews Drug Discovery</i> , 2002, 1, 447-456.	21.5	270
9	Three-Dimensional Fluorescence Recovery after Photobleaching with the Confocal Scanning Laser Microscope. <i>Biophysical Journal</i> , 2003, 85, 2240-2252.	0.2	265
10	Cytotoxic Effects of Gold Nanoparticles: A Multiparametric Study. <i>ACS Nano</i> , 2012, 6, 5767-5783.	7.3	239
11	Exploiting Intrinsic Nanoparticle Toxicity: The Pros and Cons of Nanoparticle-Induced Autophagy in Biomedical Research. <i>Chemical Reviews</i> , 2014, 114, 7581-7609.	23.0	222
12	Ultrasound and microbubble mediated drug delivery: Acoustic pressure as determinant for uptake via membrane pores or endocytosis. <i>Journal of Controlled Release</i> , 2015, 197, 20-28.	4.8	220
13	Extracellular barriers in respiratory gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 115-127.	6.6	199
14	The proton sponge hypothesis: Fable or fact?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 129, 184-190.	2.0	199
15	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , 2021, 16, 1281-1291.	15.6	192
16	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.	18.7	190
17	Stimuli-responsive electrospun fibers and their applications. <i>Chemical Society Reviews</i> , 2011, 40, 2417.	18.7	184
18	Liposome based systems for systemic siRNA delivery: Stability in blood sets the requirements for optimal carrier design. <i>Journal of Controlled Release</i> , 2012, 158, 362-370.	4.8	175

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19	Vitreous: A Barrier to Nonviral Ocular Gene Therapy. , 2005, 46, 3553.		169
20	Polysaccharide-based nucleic acid nanoformulations. Advanced Drug Delivery Reviews, 2013, 65, 1123-1147.	6.6	161
21	Merging the best of both worlds: hybrid lipid-enveloped matrix nanocomposites in drug delivery. Chemical Society Reviews, 2014, 43, 444-472.	18.7	157
22	Comparison of Gold Nanoparticle Mediated Photoporation: Vapor Nanobubbles Outperform Direct Heating for Delivering Macromolecules in Live Cells. ACS Nano, 2014, 8, 6288-6296.	7.3	157
23	Endosomal Size and Membrane Leakiness Influence Proton Sponge-Based Rupture of Endosomal Vesicles. ACS Nano, 2018, 12, 2332-2345.	7.3	154
24	Encoding microcarriers by spatial selective photobleaching. Nature Materials, 2003, 2, 169-173.	13.3	152
25	Ovarian tissue cryopreservation in female-to-male transgender people: insights into ovarian histology and physiology after prolonged androgen treatment. Reproductive BioMedicine Online, 2017, 34, 557-566.	1.1	148
26	Identification of Individual Exosome-Like Vesicles by Surface Enhanced Raman Spectroscopy. Small, 2016, 12, 3292-3301.	5.2	145
27	Sizing Nanomatter in Biological Fluids by Fluorescence Single Particle Tracking. Nano Letters, 2010, 10, 4435-4442.	4.5	144
28	Stimuli-responsive nanobubbles for biomedical applications. Chemical Society Reviews, 2021, 50, 5746-5776.	18.7	141
29	On the cellular processing of non-viral nanomedicines for nucleic acid delivery: Mechanisms and methods. Journal of Controlled Release, 2012, 161, 566-581.	4.8	125
30	Fluorescence recovery after photobleaching in material and life sciences: putting theory into practice. Quarterly Reviews of Biophysics, 2015, 48, 323-387.	2.4	125
31	Coating nanocarriers with hyaluronic acid facilitates intravitreal drug delivery for retinal gene therapy. Journal of Controlled Release, 2015, 202, 83-92.	4.8	125
32	The Transport of Nanosized Gene Carriers Unraveled by Live-Cell Imaging. Angewandte Chemie - International Edition, 2006, 45, 1568-1572.	7.2	123
33	A fast and sensitive method for measuring the integrity of siRNA-carrier complexes in full human serum. Journal of Controlled Release, 2008, 126, 67-76.	4.8	119
34	Laser-induced vapour nanobubbles improve drug diffusion and efficiency in bacterial biofilms. Nature Communications, 2018, 9, 4518.	5.8	113
35	The role of nanoparticle concentration-dependent induction of cellular stress in the internalization of non-toxic cationic magnetoliposomes. Biomaterials, 2009, 30, 6803-6813.	5.7	106
36	Light-Addressable Capsules as Caged Compound Matrix for Controlled Triggering of Cytosolic Reactions. Angewandte Chemie - International Edition, 2013, 52, 695-699.	7.2	104

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37	Proteinâ€Release Behavior of Selfâ€Assembled PEGâ€Cyclodextrin/PEGâ€Cholesterol Hydrogels. <i>Advanced Functional Materials</i> , 2009, 19, 2992-3001.	7.8	101
38	Transport of nanoparticles in cystic fibrosis sputum and bacterial biofilms by single-particle tracking microscopy. <i>Nanomedicine</i> , 2013, 8, 935-949.	1.7	100
39	Fungicidal activity of miconazole against <i>Candida</i> spp. biofilms. <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 694-700.	1.3	93
40	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.	6.6	91
41	Nucleic acid delivery: Where material sciences and bio-sciences meet. <i>Materials Science and Engineering Reports</i> , 2007, 58, 117-161.	14.8	88
42	A Beneficiary Role for Neuraminidase in Influenza Virus Penetration through the Respiratory Mucus. <i>PLoS ONE</i> , 2014, 9, e110026.	1.1	88
43	Gasâ€Shearing Fabrication of Multicompartmental Microspheres: A Oneâ€Step and Oilâ€Free Approach. <i>Advanced Science</i> , 2019, 6, 1802342.	5.6	87
44	In search for crossâ€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> , 2012, 81A, 312-323.	1.1	85
45	Materials and Technologies to Combat Counterfeiting of Pharmaceuticals: Current and Future Problem Tackling. <i>Advanced Materials</i> , 2020, 32, e1905486.	11.1	84
46	Flotillin-dependent endocytosis and a phagocytosis-like mechanism for cellular internalization of disulfide-based poly(amido amine)/DNA polyplexes. <i>Biomaterials</i> , 2011, 32, 3072-3084.	5.7	83
47	The cytotoxic effects of polymer-coated quantum dots and restrictions for live cell applications. <i>Biomaterials</i> , 2012, 33, 4882-4888.	5.7	83
48	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, 21-28.	4.8	83
49	Dynamic Colocalization Microscopy To Characterize Intracellular Trafficking of Nanomedicines. <i>ACS Nano</i> , 2011, 5, 7874-7884.	7.3	82
50	Transport of Nanoparticles and Tobramycin-loaded Liposomes in <i>Burkholderia cepacia</i> Complex Biofilms. <i>PLoS ONE</i> , 2013, 8, e79220.	1.1	79
51	Bio-inspired pulmonary surfactant-modified nanogels: A promising siRNA delivery system. <i>Journal of Controlled Release</i> , 2015, 206, 177-186.	4.8	78
52	Line FRAP with the Confocal Laser Scanning Microscope for Diffusion Measurements in Small Regions of 3-D Samples. <i>Biophysical Journal</i> , 2007, 92, 2172-2183.	0.2	77
53	Cytotoxicity of Cadmium-Free Quantum Dots and Their Use in Cell Bioimaging. <i>Chemical Research in Toxicology</i> , 2014, 27, 1050-1059.	1.7	77
54	Towards Theranostic Multicompartment Microcapsules: in-situ Diagnostics and Laser-induced Treatment. <i>Theranostics</i> , 2013, 3, 141-151.	4.6	74

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55	Straightforward FRAP for quantitative diffusion measurements with a laser scanning microscope. <i>Optics Express</i> , 2010, 18, 22886.	1.7	73
56	In Vivo disassembly of IV administered siRNA matrix nanoparticles at the renal filtration barrier. <i>Biomaterials</i> , 2013, 34, 2350-2358.	5.7	72
57	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> , 2005, 110, 67-78.	4.8	70
58	Bright and Stable CdSe/CdS@SiO <sub>2</sub> Nanoparticles Suitable for Long-Term Cell Labeling. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11714-11723.	4.0	67
59	Mechanistic profiling of the siRNA delivery dynamics of lipid-polymer hybrid nanoparticles. <i>Journal of Controlled Release</i> , 2015, 201, 22-31.	4.8	66
60	Endocytosis and Endosomal Trafficking of DNA After Gene Electrotransfer In Vitro. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e286.	2.3	66
61	Functional Platform for Controlled Subcellular Distribution of Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 9264-9270.	7.3	63
62	A New FRAP/FRAPa Method for Three-Dimensional Diffusion Measurements Based on Multiphoton Excitation Microscopy. <i>Biophysical Journal</i> , 2008, 95, 3457-3469.	0.2	62
63	Hemocompatibility of siRNA loaded dextran nanogels. <i>Biomaterials</i> , 2011, 32, 9120-9127.	5.7	62
64	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.	1.2	62
65	Improved Label-Free Identification of Individual Exosome-like Vesicles with Au@Ag Nanoparticles as SERS Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39424-39435.	4.0	62
66	Detection and Characterization of Subvisible Aggregates of Monoclonal IgG in Serum. <i>Pharmaceutical Research</i> , 2012, 29, 2202-2212.	1.7	61
67	The influence of movement on the localization precision of sub-resolution particles in fluorescence microscopy. <i>Journal of Biophotonics</i> , 2012, 5, 97-109.	1.1	61
68	Membrane vesicle secretion and prophage induction in multidrug-resistant <i>Stenotrophomonas maltophilia</i> in response to ciprofloxacin stress. <i>Environmental Microbiology</i> , 2017, 19, 3930-3937.	1.8	60
69	Unbreakable Codes in Electrospun Fibers: Digitally Encoded Polymers to Stop Medicine Counterfeiting. <i>Advanced Materials</i> , 2010, 22, 2657-2662.	11.1	58
70	Colloidal stability of nano-sized particles in the peritoneal fluid: Towards optimizing drug delivery systems for intraperitoneal therapy. <i>Acta Biomaterialia</i> , 2014, 10, 2965-2975.	4.1	58
71	The effect of nanoparticle degradation on poly(methacrylic acid)-coated quantum dot toxicity: The importance of particle functionality assessment in toxicology. <i>Acta Biomaterialia</i> , 2014, 10, 732-741.	4.1	57
72	Comparing photoporation and nucleofection for delivery of small interfering RNA to cytotoxic T cells. <i>Journal of Controlled Release</i> , 2017, 267, 154-162.	4.8	57

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73	Characterization of diffusion of macromolecules in konjac glucomannan solutions and gels by fluorescence recovery after photobleaching technique. <i>International Journal of Pharmaceutics</i> , 2006, 316, 37-46.	2.6	55
74	Photopolymerized Thermosensitive Poly(HPMA lactate)-PEG-Based Hydrogels: Effect of Network Design on Mechanical Properties, Degradation, and Release Behavior. <i>Biomacromolecules</i> , 2010, 11, 2143-2151.	2.6	55
75	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> , 2016, 28, 948.	0.1	54
76	On-chip light sheet illumination enables diagnostic size and concentration measurements of membrane vesicles in biofluids. <i>Nanoscale</i> , 2014, 6, 1741-1747.	2.8	53
77	Triggered Release from Cellulose Microparticles Inspired by Wood Degradation by Fungi. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 387-397.	3.2	53
78	Biomimetic Magnetic Silk Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6282-6292.	4.0	52
79	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.	7.7	50
80	Cytosolic Delivery of Nanolabels Prevents Their Asymmetric Inheritance and Enables Extended Quantitative in Vivo Cell Imaging. <i>Nano Letters</i> , 2016, 16, 5975-5986.	4.5	49
81	Fluorescence Single Particle Tracking for the Characterization of Submicron Protein Aggregates in Biological Fluids and Complex Formulations. <i>Pharmaceutical Research</i> , 2011, 28, 1112-1120.	1.7	48
82	Intracellular partitioning of cell organelles and extraneous nanoparticles during mitosis. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 78-94.	6.6	48
83	Immobilization of Pseudorabies Virus in Porcine Tracheal Respiratory Mucus Revealed by Single Particle Tracking. <i>PLoS ONE</i> , 2012, 7, e51054.	1.1	48
84	Laser-assisted photoporation: fundamentals, technological advances and applications. <i>Advances in Physics: X</i> , 2016, 1, 596-620.	1.5	47
85	Stable Long-Term Intracellular Labelling with Fluorescently Tagged Cationic Magnetoliposomes. <i>ChemBioChem</i> , 2009, 10, 257-267.	1.3	46
86	Investigating the Toxic Effects of Iron Oxide Nanoparticles. <i>Methods in Enzymology</i> , 2012, 509, 195-224.	0.4	46
87	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.	4.8	45
88	Advanced fluorescence microscopy methods illuminate the transfection pathway of nucleic acid nanoparticles. <i>Journal of Controlled Release</i> , 2010, 148, 69-74.	4.8	42
89	Coating of Quantum Dots strongly defines their effect on lysosomal health and autophagy. <i>Acta Biomaterialia</i> , 2017, 48, 195-205.	4.1	42
90	Intracellular Delivery of mRNA in Adherent and Suspension Cells by Vapor Nanobubble Photoporation. <i>Nano-Micro Letters</i> , 2020, 12, 185.	14.4	42

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91	Diocetyltrimethylammonium:Monoolein Nanocarriers for Efficient <i>in Vitro</i> Gene Silencing. ACS Applied Materials & Interfaces, 2014, 6, 6977-6989.	4.0	41
92	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. Small, 2020, 16, e1907586.	5.2	41
93	Fluorescent non-porous silica nanoparticles for long-term cell monitoring: Cytotoxicity and particle functionality. Acta Biomaterialia, 2013, 9, 9183-9193.	4.1	40
94	Lysosomal capturing of cytoplasmic injected nanoparticles by autophagy: An additional barrier to non viral gene delivery. Journal of Controlled Release, 2014, 195, 29-36.	4.8	40
95	Fast spatial-selective delivery into live cells. Journal of Controlled Release, 2017, 266, 198-204.	4.8	40
96	FRAP in Pharmaceutical Research: Practical Guidelines and Applications in Drug Delivery. Pharmaceutical Research, 2014, 31, 255-270.	1.7	39
97	Decationized polyplexes as stable and safe carrier systems for improved biodistribution in systemic gene therapy. Journal of Controlled Release, 2014, 195, 162-175.	4.8	38
98	Loss of Nuclear Envelope Integrity in Aging and Disease. International Review of Cell and Molecular Biology, 2018, 336, 205-222.	1.6	38
99	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. Advanced Functional Materials, 2021, 31, 2009005.	7.8	38
100	Freeze-dried mucoadhesive polymeric system containing pegylated lipoplexes: Towards a vaginal sustained released system for siRNA. Journal of Controlled Release, 2016, 236, 68-78.	4.8	37
101	Methodologies to investigate intracellular barriers for nucleic acid delivery in non-viral gene therapy. Nano Today, 2018, 21, 74-90.	6.2	37
102	Laser-induced nanobubbles safely ablate vitreous opacities in vivo. Nature Nanotechnology, 2022, 17, 552-559.	15.6	37
103	The influence of natural pulmonary surfactant on the efficacy of siRNA-loaded dextran nanogels. Nanomedicine, 2013, 8, 1625-1638.	1.7	36
104	Photoablation of Human Vitreous Opacities by Light-Induced Vapor Nanobubbles. ACS Nano, 2019, 13, 8401-8416.	7.3	36
105	Intra- and Interspecies Effects of Outer Membrane Vesicles from Stenotrophomonas maltophilia on $\beta$ -Lactam Resistance. Antimicrobial Agents and Chemotherapy, 2016, 60, 2516-2518.	1.4	35
106	Layer by Layer Assembled Chitosan-Coated Gold Nanoparticles for Enhanced siRNA Delivery and Silencing. International Journal of Molecular Sciences, 2021, 22, 831.	1.8	35
107	Turning a frown upside down: Exploiting nanoparticle toxicity for anticancer therapy. Nano Today, 2013, 8, 121-125.	6.2	34
108	Multilayered Magnetic Gelatin Membrane Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23098-23109.	4.0	34

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109	Single-particle tracking for studying nanomaterial dynamics: applications and fundamentals in drug delivery. <i>Nanomedicine</i> , 2014, 9, 913-927.	1.7	33
110	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> , 2019, 310, 82-93.	4.8	33
111	Non-viral transfection technologies for next-generation therapeutic T cell engineering. <i>Biotechnology Advances</i> , 2021, 49, 107760.	6.0	33
112	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> , 2010, 74, 371-381.	1.3	32
113	Transport Mechanisms of Squalenoyl-Adenosine Nanoparticles Across the Blood-Brain Barrier. <i>Chemistry of Materials</i> , 2015, 27, 3636-3647.	3.2	32
114	Spatiotemporal Visualization of Subcellular Dynamics of Carbon Nanotubes. <i>Nano Letters</i> , 2012, 12, 6145-6151.	4.5	31
115	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> , 2016, 511, 1112-1123.	2.6	31
116	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.	1.9	31
117	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2102472.	7.8	31
118	Gas-shearing synthesis of core-shell multicompartamental microparticles as cell-like system for enzymatic cascade reaction. <i>Chemical Engineering Journal</i> , 2022, 428, 132607.	6.6	31
119	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.	5.7	30
120	Protein macromonomers containing reduction-sensitive linkers for covalent immobilization and glutathione triggered release from dextran hydrogels. <i>Journal of Controlled Release</i> , 2011, 156, 329-336.	4.8	29
121	Disregarded Effect of Biological Fluids in siRNA Delivery: Human Ascites Fluid Severely Restricts Cellular Uptake of Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24322-24329.	4.0	29
122	Targeted Perturbation of Nuclear Envelope Integrity with Vapor Nanobubble-Mediated Photoporation. <i>ACS Nano</i> , 2018, 12, 7791-7802.	7.3	29
123	Stealth monoolein-based nanocarriers for delivery of siRNA to cancer cells. <i>Acta Biomaterialia</i> , 2015, 25, 216-229.	4.1	28
124	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.	1.0	28
125	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.	5.7	27
126	Sonoprinting of nanoparticle-loaded microbubbles: Unraveling the multi-timescale mechanism. <i>Biomaterials</i> , 2019, 217, 119250.	5.7	27



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127	Nanomaterials to avoid and destroy protein aggregates. <i>Nano Today</i> , 2020, 31, 100837.	6.2	27
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, 201.	2.0	26
129	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.	3.0	26
130	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> , 2006, 27, 1149-1155.	2.0	25
131	Anomalous photobleaching in fluorescence recovery after photobleaching measurements due to excitation saturation—a case study for fluorescein. <i>Journal of Biomedical Optics</i> , 2006, 11, 044013.	1.4	23
132	Sizing nanomaterials in bio-fluids by cFRAP enables protein aggregation measurements and diagnosis of bio-barrier permeability. <i>Nature Communications</i> , 2016, 7, 12982.	5.8	23
133	Microfabricated devices for single objective single plane illumination microscopy (SoSPIM). <i>Optics Express</i> , 2017, 25, 1732.	1.7	23
134	Selective Labeling of Individual Neurons in Dense Cultured Networks With Nanoparticle-Enhanced Photoporation. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 80.	1.8	23
135	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> , 2019, 20, 4254.	1.8	23
136	Vapor nanobubble-mediated photoporation constitutes a versatile intracellular delivery technology. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 54, 101453.	3.4	23
137	MRI assessment of blood outgrowth endothelial cell homing using cationic magnetoliposomes. <i>Biomaterials</i> , 2011, 32, 4140-4150.	5.7	22
138	The performance of gradient alloy quantum dots in cell labeling. <i>Biomaterials</i> , 2014, 35, 7249-7258.	5.7	22
139	Targeted Decationized Polyplexes for siRNA Delivery. <i>Molecular Pharmaceutics</i> , 2015, 12, 150-161.	2.3	22
140	PEGylated and Functionalized Aliphatic Polycarbonate Polyplex Nanoparticles for Intravenous Administration of HDAC5 siRNA in Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2181-2195.	4.0	21
141	Intracellular Labeling with Extrinsic Probes: Delivery Strategies and Applications. <i>Small</i> , 2020, 16, e2000146.	5.2	21
142	Bubble Forming Films for Spatial Selective Cell Killing. <i>Advanced Materials</i> , 2021, 33, e2008379.	11.1	20
143	Electrospun polystyrene fibers for HIV entrapment. <i>Polymers for Advanced Technologies</i> , 2014, 25, 827-834.	1.6	19
144	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> , 2015, 11, 631-643.	0.5	19

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145	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, 9216.	1.8	19
146	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, 2400.	1.8	18
147	Effect of Covalent Fluorescence Labeling of Plasmid DNA on Its Intracellular Processing and Transfection with Lipid-Based Carriers. <i>Molecular Pharmaceutics</i> , 2014, 11, 1359-1368.	2.3	17
148	High-resolution synchrotron X-ray analysis of bioglass-enriched hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1194-1201.	2.1	17
149	Methods to follow intracellular trafficking of cell-penetrating peptides. <i>Journal of Drug Targeting</i> , 2016, 24, 508-519.	2.1	17
150	Intra-Articular Formulation of GE11-PLGA Conjugate-Based NPs for Dexamethasone Selective Targeting—In Vitro Evaluation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2304.	1.8	17
151	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, 1540.	1.8	17
152	Cas9 RNP transfection by vapor nanobubble photoporation for ex vivo cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 696-707.	2.3	17
153	Multifunctional Layer-by-Layer Coating of Digitally Encoded Microparticles. <i>Langmuir</i> , 2007, 23, 10272-10279.	1.6	16
154	Cell uptake, cytoplasmic diffusion and nuclear access of a 6.5nm diameter dendrimer. <i>International Journal of Pharmaceutics</i> , 2007, 331, 215-219.	2.6	16
155	Elucidating the pre- and post-nuclear intracellular processing of 1,4-dihydropyridine based gene delivery carriers. <i>Journal of Controlled Release</i> , 2012, 162, 167-175.	4.8	16
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