

# Samir Mitragotri

## List of Publications by Citations

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

299 papers	32,975 citations	88 h-index	177 g-index
326 ext. papers	38,336 ext. citations	11.8 avg, IF	8.15 L-index

#	Paper	IF	Citations
299	Role of target geometry in phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4930-4	11.5	1532
298	Physical approaches to biomaterial design. <i>Nature Materials</i> , <b>2009</b> , 8, 15-23	27	1103
297	Overcoming the challenges in administering biopharmaceuticals: formulation and delivery strategies. <i>Nature Reviews Drug Discovery</i> , <b>2014</b> , 13, 655-72	64.1	1015
296	A reversibly switching surface. <i>Science</i> , <b>2003</b> , 299, 371-4	33.3	971
295	Particle shape: a new design parameter for micro- and nanoscale drug delivery carriers. <i>Journal of Controlled Release</i> , <b>2007</b> , 121, 3-9	11.7	945
294	Current status and future potential of transdermal drug delivery. <i>Nature Reviews Drug Discovery</i> , <b>2004</b> , 3, 115-24	64.1	906
293	Bio-inspired, bioengineered and biomimetic drug delivery carriers. <i>Nature Reviews Drug Discovery</i> , <b>2011</b> , 10, 521-35	64.1	866
292	Nanoparticles in the clinic. <i>Bioengineering and Translational Medicine</i> , <b>2016</b> , 1, 10-29	14.8	776
291	MoS <sub>2</sub> field-effect transistor for next-generation label-free biosensors. <i>ACS Nano</i> , <b>2014</b> , 8, 3992-4003	16.7	704
290	Healing sound: the use of ultrasound in drug delivery and other therapeutic applications. <i>Nature Reviews Drug Discovery</i> , <b>2005</b> , 4, 255-60	64.1	637
289	Challenges associated with Penetration of Nanoparticles across Cell and Tissue Barriers: A Review of Current Status and Future Prospects. <i>Nano Today</i> , <b>2014</b> , 9, 223-243	17.9	626
288	Role of particle size in phagocytosis of polymeric microspheres. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 1815-21	14.5	599
287	Making polymeric micro- and nanoparticles of complex shapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11901-4	11.5	591
286	Nanoparticles in the clinic: An update. <i>Bioengineering and Translational Medicine</i> , <b>2019</b> , 4, e10143	14.8	558
285	Control of endothelial targeting and intracellular delivery of therapeutic enzymes by modulating the size and shape of ICAM-1-targeted carriers. <i>Molecular Therapy</i> , <b>2008</b> , 16, 1450-8	11.7	445
284	Using shape effects to target antibody-coated nanoparticles to lung and brain endothelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 10753-8	11.5	442
283	Shape induced inhibition of phagocytosis of polymer particles. <i>Pharmaceutical Research</i> , <b>2009</b> , 26, 244-9	4.5	442

282	Particle shape enhances specificity of antibody-displaying nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3270-5	11.5	379
281	Multifunctional nanoparticles for drug delivery and molecular imaging. <i>Annual Review of Biomedical Engineering</i> , <b>2013</b> , 15, 253-82	12	369
280	Role of nanoparticle size, shape and surface chemistry in oral drug delivery. <i>Journal of Controlled Release</i> , <b>2016</b> , 238, 176-185	11.7	367
279	Factors that control the circulation time of nanoparticles in blood: challenges, solutions and future prospects. <i>Current Pharmaceutical Design</i> , <b>2010</b> , 16, 2298-307	3.3	360
278	Elasticity of nanoparticles influences their blood circulation, phagocytosis, endocytosis, and targeting. <i>ACS Nano</i> , <b>2015</b> , 9, 3169-77	16.7	340
277	Micro-scale devices for transdermal drug delivery. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 364, 227-36	6.5	324
276	Polymer particle shape independently influences binding and internalization by macrophages. <i>Journal of Controlled Release</i> , <b>2010</b> , 147, 408-12	11.7	321
275	A Review of Clinical Translation of Inorganic Nanoparticles. <i>AAPS Journal</i> , <b>2015</b> , 17, 1041-54	3.7	310
274	Low-frequency sonophoresis: a review. <i>Advanced Drug Delivery Reviews</i> , <b>2004</b> , 56, 589-601	18.5	298
273	An overview of clinical and commercial impact of drug delivery systems. <i>Journal of Controlled Release</i> , <b>2014</b> , 190, 15-28	11.7	293
272	Immunization without needles. <i>Nature Reviews Immunology</i> , <b>2005</b> , 5, 905-16	36.5	291
271	Red blood cell-mimicking synthetic biomaterial particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21495-9	11.5	286
270	Engineering live cell surfaces with functional polymers via cytocompatible controlled radical polymerization. <i>Nature Chemistry</i> , <b>2017</b> , 9, 537-545	17.6	273
269	Design principles of chemical penetration enhancers for transdermal drug delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 4688-93	11.5	263
268	A mechanistic study of ultrasonically-enhanced transdermal drug delivery. <i>Journal of Pharmaceutical Sciences</i> , <b>1995</b> , 84, 697-706	3.9	249
267	Mathematical models of skin permeability: an overview. <i>International Journal of Pharmaceutics</i> , <b>2011</b> , 418, 115-29	6.5	240
266	Impact of particle elasticity on particle-based drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 108, 51-67	18.5	234
265	Modeling skin permeability to hydrophilic and hydrophobic solutes based on four permeation pathways. <i>Journal of Controlled Release</i> , <b>2003</b> , 86, 69-92	11.7	232

264	Platelet-like nanoparticles: mimicking shape, flexibility, and surface biology of platelets to target vascular injuries. <i>ACS Nano</i> , <b>2014</b> , 8, 11243-53	16.7	228
263	Flow and adhesion of drug carriers in blood vessels depend on their shape: a study using model synthetic microvascular networks. <i>Journal of Controlled Release</i> , <b>2010</b> , 146, 196-200	11.7	226
262	Current status and future prospects of needle-free liquid jet injectors. <i>Nature Reviews Drug Discovery</i> , <b>2006</b> , 5, 543-8	64.1	226
261	Macrophages recognize size and shape of their targets. <i>PLoS ONE</i> , <b>2010</b> , 5, e10051	3.7	225
260	Non-invasive delivery strategies for biologics. <i>Nature Reviews Drug Discovery</i> , <b>2019</b> , 18, 19-40	64.1	223
259	Discovery of transdermal penetration enhancers by high-throughput screening. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 192-7	44.5	222
258	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , <b>2015</b> , 9, 6644-54	16.7	220
257	Delivering nanoparticles to lungs while avoiding liver and spleen through adsorption on red blood cells. <i>ACS Nano</i> , <b>2013</b> , 7, 11129-37	16.7	207
256	Transdermal monitoring of glucose and other analytes using ultrasound. <i>Nature Medicine</i> , <b>2000</b> , 6, 347-50	50.5	203
255	Designer Biomaterials for Nanomedicine. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3843-3854	15.6	200
254	Polymer particles that switch shape in response to a stimulus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 11205-10	11.5	196
253	An experimental and theoretical analysis of ultrasound-induced permeabilization of cell membranes. <i>Biophysical Journal</i> , <b>2003</b> , 84, 3087-101	2.9	189
252	Adaptive micro and nanoparticles: temporal control over carrier properties to facilitate drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2011</b> , 63, 1247-56	18.5	188
251	Red blood cells: Supercarriers for drugs, biologicals, and nanoparticles and inspiration for advanced delivery systems. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 106, 88-103	18.5	188
250	Ionic liquids as a class of materials for transdermal delivery and pathogen neutralization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13313-8	11.5	184
249	Ionic liquids for oral insulin delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7296-7301	11.5	181
248	Shape and size-dependent immune response to antigen-carrying nanoparticles. <i>Journal of Controlled Release</i> , <b>2015</b> , 220, 141-148	11.7	180
247	Cell-mediated delivery of nanoparticles: taking advantage of circulatory cells to target nanoparticles. <i>Journal of Controlled Release</i> , <b>2014</b> , 190, 531-41	11.7	180

246	Synergistic effect of enhancers for transdermal drug delivery. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 1354-94.5	167
245	Delivery of siRNA and other macromolecules into skin and cells using a peptide enhancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 15816-21	11.5 151
244	Interactions of inertial cavitation bubbles with stratum corneum lipid bilayers during low-frequency sonophoresis. <i>Biophysical Journal</i> , <b>2003</b> , 85, 3502-12	2.9 151
243	Effect of physicochemical and surface properties on in vivo fate of drug nanocarriers. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 143, 3-21	18.5 151
242	Prolonged circulation of large polymeric nanoparticles by non-covalent adsorption on erythrocytes. <i>Journal of Controlled Release</i> , <b>2004</b> , 100, 111-9	11.7 147
241	Targeting Strategies for Tissue-Specific Drug Delivery. <i>Cell</i> , <b>2020</b> , 181, 151-167	56.2 146
240	Red blood cell-hitchhiking boosts delivery of nanocarriers to chosen organs by orders of magnitude. <i>Nature Communications</i> , <b>2018</b> , 9, 2684	17.4 135
239	Materials for oral delivery of proteins and peptides. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 127-148	73.3 129
238	Vascular targeting of nanocarriers: perplexing aspects of the seemingly straightforward paradigm. <i>ACS Nano</i> , <b>2014</b> , 8, 4100-32	16.7 127
237	Low-frequency sonophoresis: current status and future prospects. <i>Advanced Drug Delivery Reviews</i> , <b>2008</b> , 60, 1218-23	18.5 123
236	Bypassing adverse injection reactions to nanoparticles through shape modification and attachment to erythrocytes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 589-594	28.7 121
235	The evolution of commercial drug delivery technologies. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 951-967.9	117
234	Determination of threshold energy dose for ultrasound-induced transdermal drug transport. <i>Journal of Controlled Release</i> , <b>2000</b> , 63, 41-52	11.7 116
233	Cell-based drug delivery devices using phagocytosis-resistant backpacks. <i>Advanced Materials</i> , <b>2011</b> , 23, H105-9	24 113
232	Needle-free delivery of macromolecules across the skin by nanoliter-volume pulsed microjets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 4255-60	11.5 110
231	Frequency dependence of sonophoresis. <i>Pharmaceutical Research</i> , <b>2001</b> , 18, 1694-700	4.5 109
230	Synergistic effects of chemical enhancers and therapeutic ultrasound on transdermal drug delivery. <i>Journal of Pharmaceutical Sciences</i> , <b>1996</b> , 85, 670-9	3.9 107
229	Theoretical description of transdermal transport of hydrophilic permeants: application to low-frequency sonophoresis. <i>Journal of Pharmaceutical Sciences</i> , <b>2001</b> , 90, 545-68	3.9 105

228	Transdermal drug delivery by jet injectors: energetics of jet formation and penetration. <i>Pharmaceutical Research</i> , <b>2002</b> , 19, 1673-9	4.5	103
227	Jet-induced skin puncture and its impact on needle-free jet injections: experimental studies and a predictive model. <i>Journal of Controlled Release</i> , <b>2005</b> , 106, 361-73	11.7	103
226	Transdermal Protein Delivery Using Choline and Geranate (CAGE) Deep Eutectic Solvent. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601411	10.1	101
225	Cellular backpacks for macrophage immunotherapy. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6579	14.3	100
224	Synergistic effect of low-frequency ultrasound and sodium lauryl sulfate on transdermal transport. <i>Journal of Pharmaceutical Sciences</i> , <b>2000</b> , 89, 892-900	3.9	98
223	Hydrogels in the clinic. <i>Bioengineering and Translational Medicine</i> , <b>2020</b> , 5, e10158	14.8	97
222	Safe and effective permeation enhancers for oral drug delivery. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 1782-85	4.5	96
221	Devices for overcoming biological barriers: the use of physical forces to disrupt the barriers. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 100-3	18.5	95
220	Dynamic control of needle-free jet injection. <i>Journal of Controlled Release</i> , <b>2009</b> , 135, 104-12	11.7	95
219	Relationships between skin's electrical impedance and permeability in the presence of chemical enhancers. <i>Journal of Controlled Release</i> , <b>2006</b> , 110, 307-313	11.7	95
218	Monocyte-mediated delivery of polymeric backpacks to inflamed tissues: a generalized strategy to deliver drugs to treat inflammation. <i>Journal of Controlled Release</i> , <b>2015</b> , 199, 29-36	11.7	94
217	Influence of particle size and shape on their margination and wall-adhesion: implications in drug delivery vehicle design across nano-to-micro scale. <i>Nanoscale</i> , <b>2018</b> , 10, 15350-15364	7.7	94
216	Low-frequency sonophoresis: ultrastructural basis for stratum corneum permeability assessed using quantum dots. <i>Journal of Investigative Dermatology</i> , <b>2006</b> , 126, 1095-101	4.3	94
215	Oral delivery of macromolecules using intestinal patches: applications for insulin delivery. <i>Journal of Controlled Release</i> , <b>2004</b> , 98, 37-45	11.7	94
214	Investigations of the role of cavitation in low-frequency sonophoresis using acoustic spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 91, 444-53	3.9	93
213	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 629-635	28.7	92
212	Long circulating nanoparticles via adhesion on red blood cells: mechanism and extended circulation. <i>Experimental Biology and Medicine</i> , <b>2007</b> , 232, 958-66	3.7	91
211	Peptides as skin penetration enhancers: mechanisms of action. <i>Journal of Controlled Release</i> , <b>2015</b> , 199, 168-78	11.7	88

210	Transdermal insulin delivery using choline-based ionic liquids (CAGE). <i>Journal of Controlled Release</i> , <b>2018</b> , 286, 137-144	11.7	85
209	Spontaneous shape reconfigurations in multicompartamental microcylinders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16057-62	11.5	85
208	Synergistic targeting of cell membrane, cytoplasm, and nucleus of cancer cells using rod-shaped nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 9558-70	16.7	84
207	Transdermal delivery of heparin and low-molecular weight heparin using low-frequency ultrasound. <i>Pharmaceutical Research</i> , <b>2001</b> , 18, 1151-6	4.5	84
206	Ionic liquids for addressing unmet needs in healthcare. <i>Bioengineering and Translational Medicine</i> , <b>2018</b> , 3, 7-25	14.8	82
205	Synergistic effect of low-frequency ultrasound and surfactants on skin permeability. <i>Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 91, 91-100	3.9	82
204	Platelet mimetic particles for targeting thrombi in flowing blood. <i>Advanced Materials</i> , <b>2012</b> , 24, 3864-9	24	81
203	Endocytosis and Intracellular Distribution of PLGA Particles in Endothelial Cells: Effect of Particle Geometry. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 142-8	4.8	80
202	Topical delivery of hyaluronic acid into skin using SPACE-peptide carriers. <i>Journal of Controlled Release</i> , <b>2014</b> , 173, 67-74	11.7	78
201	Materials for Immunotherapy. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901633	24	78
200	Synergistic antitumor activity of camptothecin-doxorubicin combinations and their conjugates with hyaluronic acid. <i>Journal of Controlled Release</i> , <b>2015</b> , 210, 198-207	11.7	77
199	Topical delivery of siRNA into skin using SPACE-peptide carriers. <i>Journal of Controlled Release</i> , <b>2014</b> , 179, 33-41	11.7	77
198	An analysis of the size selectivity of solute partitioning, diffusion, and permeation across lipid bilayers. <i>Biophysical Journal</i> , <b>1999</b> , 77, 1268-83	2.9	77
197	Description of transdermal transport of hydrophilic solutes during low-frequency sonophoresis based on a modified porous pathway model. <i>Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 92, 381-93	3.9	76
196	A theoretical analysis of permeation of small hydrophobic solutes across the stratum corneum based on Scaled Particle Theory. <i>Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 91, 744-52	3.9	75
195	Drug delivery to macrophages: A review of targeting drugs and drug carriers to macrophages for inflammatory diseases. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 165-166, 15-40	18.5	75
194	Jet injection into polyacrylamide gels: investigation of jet injection mechanics. <i>Journal of Biomechanics</i> , <b>2004</b> , 37, 1181-8	2.9	74
193	Approaches to synthetic platelet analogs. <i>Biomaterials</i> , <b>2013</b> , 34, 526-41	15.6	73

192	Continuous Inertial Focusing and Separation of Particles by Shape. <i>Physical Review X</i> , <b>2012</b> , 2,	9.1	72
191	Topical delivery of anti-sense oligonucleotides using low-frequency sonophoresis. <i>Pharmaceutical Research</i> , <b>2004</b> , 21, 2219-25	4.5	71
190	Ultrasound-induced cavitation: applications in drug and gene delivery. <i>Expert Opinion on Drug Delivery</i> , <b>2006</b> , 3, 713-26	8	69
189	Synergistic effect of electric field and ultrasound on transdermal transport. <i>Pharmaceutical Research</i> , <b>1996</b> , 13, 633-8	4.5	69
188	Combined effect of low-frequency ultrasound and iontophoresis: applications for transdermal heparin delivery. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 1151-4	4.5	68
187	Understanding intracellular transport processes pertinent to synthetic gene delivery via stochastic simulations and sensitivity analyses. <i>Biophysical Journal</i> , <b>2007</b> , 92, 831-46	2.9	66
186	Insights into synergistic interactions in binary mixtures of chemical permeation enhancers for transdermal drug delivery. <i>Journal of Controlled Release</i> , <b>2006</b> , 115, 85-93	11.7	66
185	The Effect of Polymeric Nanoparticles on Biocompatibility of Carrier Red Blood Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152074	3.7	66
184	Design Principles of Ionic Liquids for Transdermal Drug Delivery. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901103	3.4	65
183	Cyclodextrin modified erlotinib loaded PLGA nanoparticles for improved therapeutic efficacy against non-small cell lung cancer. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 122, 338-347	7.9	63
182	Choline and Geranate Deep Eutectic Solvent as a Broad-Spectrum Antiseptic Agent for Preventive and Therapeutic Applications. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1282-9	10.1	62
181	Mucociliary clearance of micro- and nanoparticles is independent of size, shape and charge--an ex vivo and in silico approach. <i>Journal of Controlled Release</i> , <b>2012</b> , 159, 128-34	11.7	62
180	Evaluation of chemical enhancers in the transdermal delivery of lidocaine. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 308, 33-9	6.5	62
179	Mucoadhesive intestinal devices for oral delivery of salmon calcitonin. <i>Journal of Controlled Release</i> , <b>2013</b> , 172, 753-62	11.7	60
178	Intestinal mucoadhesive devices for oral delivery of insulin. <i>Bioengineering and Translational Medicine</i> , <b>2016</b> , 1, 338-346	14.8	59
177	Polymer nanoneedle-mediated intracellular drug delivery. <i>Small</i> , <b>2011</b> , 7, 2094-100	11	59
176	Organic nanoparticles for drug delivery and imaging. <i>MRS Bulletin</i> , <b>2014</b> , 39, 219-223	3.2	58
175	Designing micro- and nano-particles for treating rheumatoid arthritis. <i>Archives of Pharmacal Research</i> , <b>2011</b> , 34, 1887-97	6.1	58

174	Needle-free liquid jet injections: mechanisms and applications. <i>Expert Review of Medical Devices</i> , <b>2006</b> , 3, 565-74	3.5	58
173	Exploiting shape, cellular-hitchhiking and antibodies to target nanoparticles to lung endothelium: Synergy between physical, chemical and biological approaches. <i>Biomaterials</i> , <b>2015</b> , 68, 1-8	15.6	57
172	Diagnostic opportunities based on skin biomarkers. <i>European Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 50, 546-56	5.1	57
171	A model for intracellular trafficking of adenoviral vectors. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1574-88	2.9	57
170	Non-affinity factors modulating vascular targeting of nano- and microcarriers. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 99, 97-112	18.5	56
169	Erythrocyte leveraged chemotherapy (ELeCt): Nanoparticle assembly on erythrocyte surface to combat lung metastasis. <i>Science Advances</i> , <b>2019</b> , 5, eaax9250	14.3	55
168	A permeation enhancer for increasing transport of therapeutic macromolecules across the intestine. <i>Journal of Controlled Release</i> , <b>2013</b> , 172, 541-9	11.7	54
167	High throughput screening of transdermal formulations. <i>Pharmaceutical Research</i> , <b>2002</b> , 19, 655-60	4.5	54
166	Nucleic acid delivery into skin for the treatment of skin disease: Proofs-of-concept, potential impact, and remaining challenges. <i>Journal of Controlled Release</i> , <b>2015</b> , 219, 445-456	11.7	53
165	Mechanistic analysis of chemical permeation enhancers for oral drug delivery. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 1412-9	4.5	53
164	Mechanism of Antibacterial Activity of Choline-Based Ionic Liquids (CAGE). <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2370-2379	5.5	53
163	Effect of Chemical Permeation Enhancers on Skin Permeability: In silico screening using Molecular Dynamics simulations. <i>Scientific Reports</i> , <b>2019</b> , 9, 1456	4.9	51
162	A hyaluronic acid conjugate engineered to synergistically and sequentially deliver gemcitabine and doxorubicin to treat triple negative breast cancer. <i>Journal of Controlled Release</i> , <b>2017</b> , 267, 191-202	11.7	51
161	Therapeutic opportunities in biological responses of ultrasound. <i>Ultrasonics</i> , <b>2008</b> , 48, 271-8	3.5	51
160	Nanoparticle Properties Modulate Their Attachment and Effect on Carrier Red Blood Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 1615	4.9	50
159	Macrophage-mediated delivery of light activated nitric oxide prodrugs with spatial, temporal and concentration control. <i>Chemical Science</i> , <b>2018</b> , 9, 3729-3741	9.4	50
158	Transdermal immunomodulation: Principles, advances and perspectives. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 127, 3-19	18.5	49
157	Transcutaneous immunization: an overview of advantages, disease targets, vaccines, and delivery technologies. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2010</b> , 1, 175-201	8.9	49

156	An explanation for the variation of the sonophoretic transdermal transport enhancement from drug to drug. <i>Journal of Pharmaceutical Sciences</i> , <b>1997</b> , 86, 1190-2	3.9	49
155	Intestinal patches for oral drug delivery. <i>Pharmaceutical Research</i> , <b>2002</b> , 19, 391-5	4.5	49
154	Analysis of ultrasonically extracted interstitial fluid as a predictor of blood glucose levels. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 961-6	3.7	49
153	A review on engineering polymer drug conjugates to improve combination chemotherapy. <i>Current Opinion in Colloid and Interface Science</i> , <b>2017</b> , 31, 75-85	7.6	48
152	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , <b>2014</b> , 190, 29-74	11.7	47
151	Nanocrystals: A perspective on translational research and clinical studies. <i>Bioengineering and Translational Medicine</i> , <b>2019</b> , 4, 5-16	14.8	47
150	Drug Delivery Research for the Future: Expanding the Nano Horizons and Beyond. <i>Journal of Controlled Release</i> , <b>2017</b> , 246, 183-184	11.7	45
149	DAFODIL: A novel liposome-encapsulated synergistic combination of doxorubicin and 5FU for low dose chemotherapy. <i>Journal of Controlled Release</i> , <b>2016</b> , 229, 154-162	11.7	45
148	Ultrasonic delivery of silica-gold nanoshells for photothermolysis of sebaceous glands in humans: Nanotechnology from the bench to clinic. <i>Journal of Controlled Release</i> , <b>2015</b> , 206, 30-6	11.7	44
147	Size, shape, and flexibility influence nanoparticle transport across brain endothelium under flow. <i>Bioengineering and Translational Medicine</i> , <b>2020</b> , 5, e10153	14.8	44
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145	Nanocarrier-Mediated Cytosolic Delivery of Biopharmaceuticals. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910566	15.6	42
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