Omid C Farokhzad

List of Publications by Year in Descending Order

200 papers	53,280 citations	103 h-index	208 g-index
208 ext. papers	59,504 ext. citations	13.9 avg, IF	7.99 L-index

#	Paper	IF	Citations
200	Nanoparticle protein corona evolution: from biological impact to biomarker discovery.. *Nanoscale*, **2022**,	7.7	2
199	Theranostic Nanomedicine in the NIR-II Window: Classification, Fabrication, and Biomedical Applications.. *Chemical Reviews*, **2022**, 122, 5405-5407	68.1	4
198	Biomaterials and nanomedicine for bone regeneration: Progress and future prospects. *Exploration*, **2021**, 1, 20210011		20
197	Targeted delivery of protein arginine deiminase-4 inhibitors to limit arterial intimal NETosis and preserve endothelial integrity. *Cardiovascular Research*, **2021**, 117, 2652-2663	9.9	10
196	Reactivation of the tumor suppressor PTEN by mRNA nanoparticles enhances antitumor immunity in preclinical models. *Science Translational Medicine*, **2021**, 13,	17.5	19
195	Analysis of the Human Plasma Proteome Using Multi-Nanoparticle Protein Corona for Detection of Alzheimer's Disease. *Advanced Healthcare Materials*, **2021**, 10, e2000948	10.1	3
194	Adjuvant-pulsed mRNA vaccine nanoparticle for immunoprophylactic and therapeutic tumor suppression in mice. *Biomaterials*, **2021**, 266, 120431	15.6	42
193	Nano-Bio Interactions in Cancer: From Therapeutics Delivery to Early Detection. *Accounts of Chemical Research*, **2021**, 54, 291-301	24.3	45
192	Stanene-Based Nanosheets for Elemene Delivery and Ultrasound-Mediated Combination Cancer Therapy. *Angewandte Chemie*, **2021**, 133, 7231-7240	3.6	9
191	Stanene-Based Nanosheets for Elemene Delivery and Ultrasound-Mediated Combination Cancer Therapy. *Angewandte Chemie - International Edition*, **2021**, 60, 7155-7164	16.4	53
190	Dual Hypoxia-Targeting RNAi Nanomedicine for Precision Cancer Therapy. *Nano Letters*, **2020**, 20, 4857-4863	11.5	20
189	Germanene-Based Theranostic Materials for Surgical Adjuvant Treatment: Inhibiting Tumor Recurrence and Wound Infection. *Matter*, **2020**, 3, 127-144	12.7	112
188	Marriage of black phosphorus and Cu as effective photothermal agents for PET-guided combination cancer therapy. *Nature Communications*, **2020**, 11, 2778	17.4	121
187	Nanostructure Engineering by Simple Tuning of Lipid Combinations. *Angewandte Chemie*, **2020**, 132, 6308-6311	3.6	2
186	ROS-Mediated Selective Killing Effect of Black Phosphorus: Mechanistic Understanding and Its Guidance for Safe Biomedical Applications. *Nano Letters*, **2020**, 20, 3943-3955	11.5	97
185	Phosphorus Science-Oriented Design and Synthesis of Multifunctional Nanomaterials for Biomedical Applications. *Matter*, **2020**, 2, 297-322	12.7	104
184	Nanostructure Engineering by Simple Tuning of Lipid Combinations. *Angewandte Chemie - International Edition*, **2020**, 59, 6249-6252	16.4	13

183	Charge Conversional Biomimetic Nanocomplexes as a Multifunctional Platform for Boosting Orthotopic Glioblastoma RNAi Therapy. *Nano Letters*, **2020**, 20, 1637-1646	11.5	54
182	Sugar-Nanocapsules Imprinted with Microbial Molecular Patterns for mRNA Vaccination. *Nano Letters*, **2020**, 20, 1499-1509	11.5	34
181	Redox-responsive polyprodrug nanoparticles for targeted siRNA delivery and synergistic liver cancer therapy. *Biomaterials*, **2020**, 234, 119760	15.6	50
180	A materials-science perspective on tackling COVID-19. *Nature Reviews Materials*, **2020**, 1-14	73.3	123
179	Oral Insulin Delivery Platforms: Strategies To Address the Biological Barriers. *Angewandte Chemie - International Edition*, **2020**, 59, 19787-19795	16.4	25
178	siRNA nanoparticles targeting CaMKII□n lesional macrophages improve atherosclerotic plaque stability in mice. *Science Translational Medicine*, **2020**, 12,	17.5	70
177	R□ktitelbild: Plattformen f□ die orale Insulinabgabe: Strategien zur Beseitigung der biologischen Barrieren (Angew. Chem. 45/2020). *Angewandte Chemie*, **2020**, 132, 20424-20424	3.6	1
176	Plattformen f□ die orale Insulinabgabe: Strategien zur Beseitigung der biologischen Barrieren. *Angewandte Chemie*, **2020**, 132, 19955-19964	3.6	3
175	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. *Chemical Society Reviews*, **2019**, 48, 2891-2912	58.5	345
174	Nanobuffering of pH-Responsive Polymers: A Known but Sometimes Overlooked Phenomenon and Its Biological Applications. *ACS Nano*, **2019**, 13, 4876-4882	16.7	45
173	Stimuli-Responsive Polymer-Prodrug Hybrid Nanoplatform for Multistage siRNA Delivery and Combination Cancer Therapy. *Nano Letters*, **2019**, 19, 5967-5974	11.5	66
172	2D Monoelemental Germanene Quantum Dots: Synthesis as Robust Photothermal Agents for Photonic Cancer Nanomedicine. *Angewandte Chemie*, **2019**, 131, 13539-13544	3.6	29
171	2D Monoelemental Germanene Quantum Dots: Synthesis as Robust Photothermal Agents for Photonic Cancer Nanomedicine. *Angewandte Chemie - International Edition*, **2019**, 58, 13405-13410	16.4	75
170	2D Black Mica Nanosheets: Synthesis of Ultrathin Biotite Nanosheets as an Intelligent Theranostic Platform for Combination Cancer Therapy (Adv. Sci. 19/2019). *Advanced Science*, **2019**, 6, 1970118	13.6	0
169	Synthetic mRNA nanoparticle-mediated restoration of p53 tumor suppressor sensitizes -deficient cancers to mTOR inhibition. *Science Translational Medicine*, **2019**, 11,	17.5	92
168	Glutathione-Responsive Prodrug Nanoparticles for Effective Drug Delivery and Cancer Therapy. *ACS Nano*, **2019**, 13, 357-370	16.7	134
167	Drug loading augmentation in polymeric nanoparticles using a coaxial turbulent jet mixer: Yong investigator perspective. *Journal of Colloid and Interface Science*, **2019**, 538, 45-50	9.3	8
166	Nanotechnology-Based Strategies for siRNA Brain Delivery for Disease Therapy. *Trends in Biotechnology*, **2018**, 36, 562-575	15.1	87

165	Intracellular Mechanistic Understanding of 2D MoS Nanosheets for Anti-Exocytosis-Enhanced Synergistic Cancer Therapy. *ACS Nano*, **2018**, 12, 2922-2938	16.7	145
164	Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Using Substrates with Multiscale Topography. *Advanced Functional Materials*, **2018**, 28, 1707378	15.6	27
163	Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics. *Advanced Materials*, **2018**, 30, e1802061	24	260
162	Flat Cell Culturing Surface May Cause Misinterpretation of Cellular Uptake of Nanoparticles. *Advanced Biology*, **2018**, 2, 1800046	3.5	5
161	Biomedical Applications: Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Using Substrates with Multiscale Topography (Adv. Funct. Mater. 19/2018). *Advanced Functional Materials*, **2018**, 28, 1870128	15.6	1
160	Glutathione-Scavenging Poly(disulfide amide) Nanoparticles for the Effective Delivery of Pt(IV) Prodrugs and Reversal of Cisplatin Resistance. *Nano Letters*, **2018**, 18, 4618-4625	11.5	123
159	Nanoparticles targeting extra domain B of fibronectin-specific to the atherosclerotic lesion types III, IV, and V-enhance plaque detection and cargo delivery. *Theranostics*, **2018**, 8, 6008-6024	12.1	14
158	Cancer Theranostics: Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics (Adv. Mater. 38/2018). *Advanced Materials*, **2018**, 30, 1870283	24	3
157	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. *Nature Biomedical Engineering*, **2018**, 2, 850-864	19	127
156	Redox-Responsive Nanoparticle-Mediated Systemic RNAi for Effective Cancer Therapy. *Small*, **2018**, 14, e1802565	11	57
155	Personalized protein corona on nanoparticles and its clinical implications. *Biomaterials Science*, **2017**, 5, 378-387	7.4	165
154	Hyper-cell-permeable micelles as a drug delivery carrier for effective cancer therapy. *Biomaterials*, **2017**, 123, 118-126	15.6	36
153	Multifunctional Envelope-Type siRNA Delivery Nanoparticle Platform for Prostate Cancer Therapy. *ACS Nano*, **2017**, 11, 2618-2627	16.7	142
152	Nanoscience and Nanotechnology Cross Borders. *ACS Nano*, **2017**, 11, 1123-1126	16.7	3
151	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. *Angewandte Chemie - International Edition*, **2017**, 56, 11896-11900	16.4	391
150	Tumor Microenvironment-Responsive Multistaged Nanoplatform for Systemic RNAi and Cancer Therapy. *Nano Letters*, **2017**, 17, 4427-4435	11.5	104
149	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. *Angewandte Chemie*, **2017**, 129, 12058-12062	3.6	78
148	Design of Insulin-Loaded Nanoparticles Enabled by Multistep Control of Nanoprecipitation and Zinc Chelation. *ACS Applied Materials & Interfaces*, **2017**, 9, 11440-11450	9.5	25

147	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. *Nature Communications*, **2017**, 8, 777	17.4	362
146	Surface De-PEGylation Controls Nanoparticle-Mediated siRNA Delivery and. *Theranostics*, **2017**, 7, 1990-2002	2002	47
145	Nanomedicine for safe healing of bone trauma: Opportunities and challenges. *Biomaterials*, **2017**, 146, 168-182	15.6	38
144	Multiscale technologies for treatment of ischemic cardiomyopathy. *Nature Nanotechnology*, **2017**, 12, 845-855	28.7	84
143	Targeted Nanotherapeutics Encapsulating Liver X Receptor Agonist GW3965 Enhance Antiatherogenic Effects without Adverse Effects on Hepatic Lipid Metabolism in Ldlr Mice. *Advanced Healthcare Materials*, **2017**, 6, 1700313	10.1	46
142	ROS-Responsive Polyprodrug Nanoparticles for Triggered Drug Delivery and Effective Cancer Therapy. *Advanced Materials*, **2017**, 29, 1700141	24	281
141	Cellular uptake of nanoparticles: journey inside the cell. *Chemical Society Reviews*, **2017**, 46, 4218-4244	58.5	1045
140	Evolution of macromolecular complexity in drug delivery systems. *Nature Reviews Chemistry*, **2017**, 1,	34.6	174
139	Innentitelbild: Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy (Angew. Chem. 39/2017). *Angewandte Chemie*, **2017**, 129, 11816-11816	3.6	
138	Challenges in DNA Delivery and Recent Advances in Multifunctional Polymeric DNA Delivery Systems. *Biomacromolecules*, **2017**, 18, 2231-2246	6.9	115
137	Cancer nanomedicine: progress, challenges and opportunities. *Nature Reviews Cancer*, **2017**, 17, 20-37	31.3	2988
136	A drug-delivery strategy for overcoming drug resistance in breast cancer through targeting of oncofetal fibronectin. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 713-722	6	31
135	Biological Identity of Nanoparticles In Vivo: Clinical Implications of the Protein Corona. *Trends in Biotechnology*, **2017**, 35, 257-264	15.1	244
134	Nanotechnology for protein delivery: Overview and perspectives. *Journal of Controlled Release*, **2016**, 240, 24-37	11.7	214
133	Targeted nanoparticles for colorectal cancer. *Nanomedicine*, **2016**, 11, 2443-56	5.6	83
132	Emerging understanding of the protein corona at the nano-bio interfaces. *Nano Today*, **2016**, 11, 817-832	17.9	171
131	Nanomedicines for renal disease: current status and future applications. *Nature Reviews Nephrology* , **2016**, 12, 738-753	14.9	125
130	Ultra-pH-Responsive and Tumor-Penetrating Nanoplatform for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. *Angewandte Chemie*, **2016**, 128, 7207-7210	3.6	10

129	Theranostic near-infrared fluorescent nanoplatform for imaging and systemic siRNA delivery to metastatic anaplastic thyroid cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7750-5	11.5	62
128	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. *Angewandte Chemie*, **2016**, 128, 3370-3373	3.6	5
127	Degradable Controlled-Release Polymers and Polymeric Nanoparticles: Mechanisms of Controlling Drug Release. *Chemical Reviews*, **2016**, 116, 2602-63	68.1	1422
126	Polymeric Nanoparticles Amenable to Simultaneous Installation of Exterior Targeting and Interior Therapeutic Proteins. *Angewandte Chemie - International Edition*, **2016**, 55, 3309-12	16.4	94
125	Ultra-pH-Responsive and Tumor-Penetrating Nanoplatform for Targeted siRNA Delivery with Robust Anti-Cancer Efficacy. *Angewandte Chemie - International Edition*, **2016**, 55, 7091-7094	16.4	180
124	Preventing diet-induced obesity in mice by adipose tissue transformation and angiogenesis using targeted nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 5552-7	11.5	98
123	Targeted Interleukin-10 Nanotherapeutics Developed with a Microfluidic Chip Enhance Resolution of Inflammation in Advanced Atherosclerosis. *ACS Nano*, **2016**, 10, 5280-92	16.7	120
122	Polymeric synthetic nanoparticles for the induction of antigen-specific immunological tolerance. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E156-65	11.5	295
121	Long-circulating siRNA nanoparticles for validating Prohibitin1-targeted non-small cell lung cancer treatment. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7779-84	11.5	137
120	VACCINES. A mucosal vaccine against Chlamydia trachomatis generates two waves of protective memory T cells. *Science*, **2015**, 348, aaa8205	33.3	235
119	Polymeric nanoparticle drug delivery technologies for oral delivery applications. *Expert Opinion on Drug Delivery*, **2015**, 12, 1459-73	8	155
118	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. *Nature Communications*, **2015**, 6, 8692	17.4	281
117	Nanotechnology: Platelet mimicry. *Nature*, **2015**, 526, 47-8	50.4	30
116	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. *Science Translational Medicine*, **2015**, 7, 314ra183	17.5	225
115	Nanoparticles containing a liver X receptor agonist inhibit inflammation and atherosclerosis. *Advanced Healthcare Materials*, **2015**, 4, 228-36	10.1	56
114	Hydrophobic Cysteine Poly(disulfide)-based Redox-Hypersensitive Nanoparticle Platform for Cancer Theranostics. *Angewandte Chemie*, **2015**, 127, 9350-9355	3.6	27
113	Hydrophobic Cysteine Poly(disulfide)-based Redox-Hypersensitive Nanoparticle Platform for Cancer Theranostics. *Angewandte Chemie - International Edition*, **2015**, 54, 9218-23	16.4	141
112	Drug Delivery Nanocarriers from a Fully Degradable PEG-Conjugated Polyester with a Reduction-Responsive Backbone. *Chemistry - A European Journal*, **2015**, 21, 11325-9	4.8	19

111	Targeted nanoparticles containing the proresolving peptide Ac2-26 protect against advanced atherosclerosis in hypercholesterolemic mice. *Science Translational Medicine*, **2015**, 7, 275ra20	17.5	210
110	Effect of PEG pairing on the efficiency of cancer-targeting liposomes. *Theranostics*, **2015**, 5, 746-54	12.1	47
109	Nanomedicines for Endothelial Disorders. *Nano Today*, **2015**, 10, 759-776	17.9	33
108	Cancer nanomedicine: from targeted delivery to combination therapy. *Trends in Molecular Medicine*, **2015**, 21, 223-32	11.5	470
107	Annexin A1-containing extracellular vesicles and polymeric nanoparticles promote epithelial wound repair. *Journal of Clinical Investigation*, **2015**, 125, 1215-27	15.9	192
106	The 20th scientific conference of the Society on NeuroImmune Pharmacology. *Journal of NeuroImmune Pharmacology*, **2014**, 9, 1-2	6.9	2
105	Ultra-high throughput synthesis of nanoparticles with homogeneous size distribution using a coaxial turbulent jet mixer. *ACS Nano*, **2014**, 8, 6056-65	16.7	163
104	Cancer nanotechnology: the impact of passive and active targeting in the era of modern cancer biology. *Advanced Drug Delivery Reviews*, **2014**, 66, 2-25	18.5	1848
103	Development of Multinuclear Polymeric Nanoparticles as Robust Protein Nanocarriers. *Angewandte Chemie*, **2014**, 126, 9121-9125	3.6	8
102	A solvent-free thermosponge nanoparticle platform for efficient delivery of labile proteins. *Nano Letters*, **2014**, 14, 6449-55	11.5	32
101	Development of multinuclear polymeric nanoparticles as robust protein nanocarriers. *Angewandte Chemie - International Edition*, **2014**, 53, 8975-9	16.4	108
100	Polymer- and Protein-Based Nanotechnologies for Cancer Theranostics **2014**, 419-436		9
99	Current progress of aptamer-based molecular imaging. *Journal of Nuclear Medicine*, **2014**, 55, 353-6	8.9	79
98	Insight into nanoparticle cellular uptake and intracellular targeting. *Journal of Controlled Release*, **2014**, 190, 485-99	11.7	499
97	Polymeric nanoparticle technologies for oral drug delivery. *Clinical Gastroenterology and Hepatology*, **2014**, 12, 1605-10	6.9	98
96	Engineered nanomedicine for myeloma and bone microenvironment targeting. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10287-92	11.5	204
95	Adjuvant-carrying synthetic vaccine particles augment the immune response to encapsulated antigen and exhibit strong local immune activation without inducing systemic cytokine release. *Vaccine*, **2014**, 32, 2882-95	4.1	124
94	Parallel microfluidic synthesis of size-tunable polymeric nanoparticles using 3D flow focusing towards in vivo study. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 401-9	6	117

93	Hybrid lipid-polymer nanoparticles for sustained siRNA delivery and gene silencing. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 897-900	6	61
92	Role of electrostatic interactions in protein loading in PLGA-PEG nanoparticles **2014**,		3
91	Development of therapeutic polymeric nanoparticles for the resolution of inflammation. *Advanced Healthcare Materials*, **2014**, 3, 1448-1456	10.1	22
90	Synthesis and in vitro evaluation of a multifunctional and surface-switchable nanoemulsion platform. *Chemical Communications*, **2013**, 49, 9392-4	5.8	14
89	Synthesis of polymer-lipid nanoparticles for image-guided delivery of dual modality therapy. *Bioconjugate Chemistry*, **2013**, 24, 1429-34	6.3	93
88	Single step reconstitution of multifunctional high-density lipoprotein-derived nanomaterials using microfluidics. *ACS Nano*, **2013**, 7, 9975-83	16.7	89
87	Enhancing tumor cell response to chemotherapy through nanoparticle-mediated codelivery of siRNA and cisplatin prodrug. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18638-43	11.5	255
86	Transepithelial transport of Fc-targeted nanoparticles by the neonatal fc receptor for oral delivery. *Science Translational Medicine*, **2013**, 5, 213ra167	17.5	286
85	HER2-specific aptide conjugated magneto-nanoclusters for potential breast cancer imaging and therapy. *Journal of Materials Chemistry B*, **2013**, 1, 4576-4583	7.3	14
84	Synergistic cytotoxicity of irinotecan and cisplatin in dual-drug targeted polymeric nanoparticles. *Nanomedicine*, **2013**, 8, 687-98	5.6	62
83	Nanoparticle encapsulation of mitaplatin and the effect thereof on in vivo properties. *ACS Nano*, **2013**, 7, 5675-83	16.7	80
82	Microfluidic platform for combinatorial synthesis and optimization of targeted nanoparticles for cancer therapy. *ACS Nano*, **2013**, 7, 10671-80	16.7	171
81	Spontaneous formation of heterogeneous patches on polymer-lipid core-shell particle surfaces during self-assembly. *Small*, **2013**, 9, 511-7	11	15
80	Nanoparticle Design For Bone-Specific Chemotherapy and Microenvironmental Targeting In Multiple Myeloma. *Blood*, **2013**, 122, 881-881	2.2	1
79	Surface charge-switching polymeric nanoparticles for bacterial cell wall-targeted delivery of antibiotics. *ACS Nano*, **2012**, 6, 4279-87	16.7	359
78	Bioinspired multivalent DNA network for capture and release of cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 19626-31	11.5	228
77	Engineering of targeted nanoparticles for cancer therapy using internalizing aptamers isolated by cell-uptake selection. *ACS Nano*, **2012**, 6, 696-704	16.7	136
76	Interactions of nanomaterials and biological systems: Implications to personalized nanomedicine. *Advanced Drug Delivery Reviews*, **2012**, 64, 1363-84	18.5	296

75	DNA Self-Assembly of Targeted Near-Infrared-Responsive Gold Nanoparticles for Cancer Thermo-Chemotherapy. *Angewandte Chemie*, **2012**, 124, 12023-12027	3.6	68
74	DNA self-assembly of targeted near-infrared-responsive gold nanoparticles for cancer thermo-chemotherapy. *Angewandte Chemie - International Edition*, **2012**, 51, 11853-7	16.4	275
73	Microfluidic technologies for accelerating the clinical translation of nanoparticles. *Nature Nanotechnology*, **2012**, 7, 623-9	28.7	489
72	Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. *Chemical Communications*, **2012**, 48, 5835-7	5.8	66
71	(V)(B) integrin-targeted PLGA-PEG nanoparticles for enhanced anti-tumor efficacy of a Pt(IV) prodrug. *ACS Nano*, **2012**, 6, 4530-9	16.7	261
70	Mass production and size control of lipid-polymer hybrid nanoparticles through controlled microvortices. *Nano Letters*, **2012**, 12, 3587-91	11.5	158
69	Nanoparticle delivery of cancer drugs. *Annual Review of Medicine*, **2012**, 63, 185-98	17.4	1176
68	Targeted polymeric therapeutic nanoparticles: design, development and clinical translation. *Chemical Society Reviews*, **2012**, 41, 2971-3010	58.5	1286
67	Preclinical development and clinical translation of a PSMA-targeted docetaxel nanoparticle with a differentiated pharmacological profile. *Science Translational Medicine*, **2012**, 4, 128ra39	17.5	866
66	Aptamer-functionalized nanoparticles for medical applications: challenges and opportunities. *ACS Nano*, **2012**, 6, 3670-6	16.7	133
65	Using ligands to target cancer cells. *Clinical Advances in Hematology and Oncology*, **2012**, 10, 543-4	0.6	8
64	Self-assembled targeted nanoparticles: evolution of technologies and bench to bedside translation. *Accounts of Chemical Research*, **2011**, 44, 1123-34	24.3	360
63	Advances in Drug Delivery. *Annual Review of Materials Research*, **2011**, 41, 1-20	12.8	112
62	Synthesis of size-tunable polymeric nanoparticles enabled by 3D hydrodynamic flow focusing in single-layer microchannels. *Advanced Materials*, **2011**, 23, H79-83	24	169
61	Biodistribution and Pharmacokinetics of Nanoprobes **2011**, 75-104		6
60	Differentially Charged Hollow Core/Shell Lipid□Polymer□Lipid Hybrid Nanoparticles for Small Interfering RNA Delivery. *Angewandte Chemie*, **2011**, 123, 7165-7169	3.6	31
59	Differentially charged hollow core/shell lipid-polymer-lipid hybrid nanoparticles for small interfering RNA delivery. *Angewandte Chemie - International Edition*, **2011**, 50, 7027-31	16.4	135
58	Self-propelled microrockets to capture and isolate circulating tumor cells. *Angewandte Chemie - International Edition*, **2011**, 50, 7220-1	16.4	8

57	Targeted delivery of a cisplatin prodrug for safer and more effective prostate cancer therapy in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1850-5	11.5	417
56	Effects of ligands with different water solubilities on self-assembly and properties of targeted nanoparticles. *Biomaterials*, **2011**, 32, 6226-33	15.6	151
55	In vivo prevention of arterial restenosis with paclitaxel-encapsulated targeted lipid-polymeric nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19347-52	11.5	111
54	Aptamer Conjugates: Emerging Delivery Platforms for Targeted Cancer Therapy **2011**, 1263-1281		2
53	On firm ground: IP protection of therapeutic nanoparticles. *Nature Biotechnology*, **2010**, 28, 1267-70	44.5	67
52	Spatiotemporal controlled delivery of nanoparticles to injured vasculature. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2213-8	11.5	207
51	Engineering of self-assembled nanoparticle platform for precisely controlled combination drug therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17939-44	11.5	492
50	Nanoparticle technologies for cancer therapy. *Handbook of Experimental Pharmacology*, **2010**, 55-86	3.2	226
49	ChemoRad nanoparticles: a novel multifunctional nanoparticle platform for targeted delivery of concurrent chemoradiation. *Nanomedicine*, **2010**, 5, 361-8	5.6	86
48	Polymeric nanoparticles for drug delivery. *Methods in Molecular Biology*, **2010**, 624, 163-75	1.4	189
47	Single-step assembly of homogenous lipid-polymeric and lipid-quantum dot nanoparticles enabled by microfluidic rapid mixing. *ACS Nano*, **2010**, 4, 1671-9	16.7	248
46	pH-Responsive nanoparticles for drug delivery. *Molecular Pharmaceutics*, **2010**, 7, 1913-20	5.6	705
45	Nanotechnology in drug delivery and tissue engineering: from discovery to applications. *Nano Letters*, **2010**, 10, 3223-30	11.5	1158
44	Progress in siRNA delivery using multifunctional nanoparticles. *Methods in Molecular Biology*, **2010**, 629, 53-67	1.4	29
43	Emerging nanotechnology approaches for HIV/AIDS treatment and prevention. *Nanomedicine*, **2010**, 5, 269-85	5.6	163
42	Poly(ethylene glycol) with observable shedding. *Angewandte Chemie - International Edition*, **2010**, 49, 6567-71	16.4	62
41	Design of a mechanical clutch-based needle-insertion device. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5540-5	11.5	13
40	PLGA-lecithin-PEG core-shell nanoparticles for controlled drug delivery. *Biomaterials*, **2009**, 30, 1627-34	15.6	563

39	Immunocompatibility properties of lipid-polymer hybrid nanoparticles with heterogeneous surface functional groups. *Biomaterials*, **2009**, 30, 2231-40	15.6	211
38	Impact of nanotechnology on drug delivery. *ACS Nano*, **2009**, 3, 16-20	16.7	2337
37	Multifunctional nanoparticles for prostate cancer therapy. *Expert Review of Anticancer Therapy*, **2009**, 9, 211-21	3.5	21
36	Formulation/preparation of functionalized nanoparticles for in vivo targeted drug delivery. *Methods in Molecular Biology*, **2009**, 544, 589-98	1.4	41
35	Nanotechnology and aptamers: applications in drug delivery. *Trends in Biotechnology*, **2008**, 26, 442-9	15.1	212
34	New frontiers in nanotechnology for cancer treatment. *Urologic Oncology: Seminars and Original Investigations*, **2008**, 26, 74-85	2.8	233
33	Microfluidic platform for controlled synthesis of polymeric nanoparticles. *Nano Letters*, **2008**, 8, 2906-12	11.5	616
32	Self-assembled lipid--polymer hybrid nanoparticles: a robust drug delivery platform. *ACS Nano*, **2008**, 2, 1696-702	16.7	721
31	Factors affecting the clearance and biodistribution of polymeric nanoparticles. *Molecular Pharmaceutics*, **2008**, 5, 505-15	5.6	2561
30	Microfluidic Synthesis of Polymeric Nanoparticles **2008**,		1
29	Precise engineering of targeted nanoparticles by using self-assembled biointegrated block copolymers. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 2586-91	11.5	596
28	Superparamagnetic iron oxide nanoparticle-aptamer bioconjugates for combined prostate cancer imaging and therapy. *ChemMedChem*, **2008**, 3, 1311-5	3.7	261
27	HER-2-targeted nanoparticle-affibody bioconjugates for cancer therapy. *ChemMedChem*, **2008**, 3, 1839-43	3.7	119
26	The use of charge-coupled polymeric microparticles and micromagnets for modulating the bioavailability of orally delivered macromolecules. *Biomaterials*, **2008**, 29, 1216-23	15.6	53
25	Biofunctionalized targeted nanoparticles for therapeutic applications. *Expert Opinion on Biological Therapy*, **2008**, 8, 1063-70	5.4	197
24	Co-delivery of hydrophobic and hydrophilic drugs from nanoparticle-aptamer bioconjugates. *ChemMedChem*, **2007**, 2, 1268-71	3.7	215
23	Targeted nanoparticles for cancer therapy. *Nano Today*, **2007**, 2, 14-21	17.9	373
22	Nanocarriers as an emerging platform for cancer therapy. *Nature Nanotechnology*, **2007**, 2, 751-60	28.7	6530

21	Quantum dot-aptamer conjugates for synchronous cancer imaging, therapy, and sensing of drug delivery based on bi-fluorescence resonance energy transfer. *Nano Letters*, **2007**, 7, 3065-70	11.5	830
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19	Nanofabrication and microfabrication of functional materials for tissue engineering. *Tissue Engineering*, **2007**, 13, 1867-77		110
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