Zhen Gu

List of Publications by Citations

246 papers	20,900 citations	80 h-index	140 g-index
272 ext. papers	25,621 ext. citations	14.5 avg, IF	7.44 L-index

#	Paper	IF	Citations
246	Bioresponsive materials. *Nature Reviews Materials*, **2017**, 2,	73.3	828
245	Microneedle-array patches loaded with hypoxia-sensitive vesicles provide fast glucose-responsive insulin delivery. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8260-5	11.5	509
244	ATP-triggered anticancer drug delivery. *Nature Communications*, **2014**, 5, 3364	17.4	467
243	Enhanced Cancer Immunotherapy by Microneedle Patch-Assisted Delivery of Anti-PD1 Antibody. *Nano Letters*, **2016**, 16, 2334-40	11.5	446
242	In situ sprayed bioresponsive immunotherapeutic gel for post-surgical cancer treatment. *Nature Nanotechnology*, **2019**, 14, 89-97	28.7	424
241	Enhanced Cisplatin Chemotherapy by Iron Oxide Nanocarrier-Mediated Generation of Highly Toxic Reactive Oxygen Species. *Nano Letters*, **2017**, 17, 928-937	11.5	416
240	Tailoring nanocarriers for intracellular protein delivery. *Chemical Society Reviews*, **2011**, 40, 3638-55	58.5	413
239	Self-assembled DNA nanoclews for the efficient delivery of CRISPR-Cas9 for genome editing. *Angewandte Chemie - International Edition*, **2015**, 54, 12029-33	16.4	393
238	Recent advances of cocktail chemotherapy by combination drug delivery systems. *Advanced Drug Delivery Reviews*, **2016**, 98, 19-34	18.5	384
237	Anticancer Platelet-Mimicking Nanovehicles. *Advanced Materials*, **2015**, 27, 7043-50	24	368
236	Light-Activated Hypoxia-Responsive Nanocarriers for Enhanced Anticancer Therapy. *Advanced Materials*, **2016**, 28, 3313-20	24	355
235	Enzyme-responsive nanomaterials for controlled drug delivery. *Nanoscale*, **2014**, 6, 12273-86	7.7	350
234	A novel intracellular protein delivery platform based on single-protein nanocapsules. *Nature Nanotechnology*, **2010**, 5, 48-53	28.7	340
233	Injectable nano-network for glucose-mediated insulin delivery. *ACS Nano*, **2013**, 7, 4194-201	16.7	333
232	Enzyme-activatable polymer-drug conjugate augments tumour penetration and treatment efficacy. *Nature Nanotechnology*, **2019**, 14, 799-809	28.7	327
231	Transformable liquid-metal nanomedicine. *Nature Communications*, **2015**, 6, 10066	17.4	320
230	In situ formed reactive oxygen species-responsive scaffold with gemcitabine and checkpoint inhibitor for combination therapy. *Science Translational Medicine*, **2018**, 10,	17.5	318

229	Stimuli-responsive nanomaterials for therapeutic protein delivery. *Journal of Controlled Release*, **2014**, 194, 1-19	11.7	309
228	Glucose-responsive microgels integrated with enzyme nanocapsules for closed-loop insulin delivery. *ACS Nano*, **2013**, 7, 6758-66	16.7	300
227	Emerging micro- and nanotechnology based synthetic approaches for insulin delivery. *Chemical Society Reviews*, **2014**, 43, 3595-629	58.5	289
226	In situ activation of platelets with checkpoint inhibitors for post-surgical cancer immunotherapy. *Nature Biomedical Engineering*, **2017**, 1,	19	278
225	Stimuli-Responsive Polymersomes for Biomedical Applications. *Biomacromolecules*, **2017**, 18, 649-673	6.9	246
224	Cocoon-like self-degradable DNA nanoclew for anticancer drug delivery. *Journal of the American Chemical Society*, **2014**, 136, 14722-5	16.4	233
223	Tumor microenvironment and intracellular signal-activated nanomaterials for anticancer drug delivery. *Materials Today*, **2016**, 19, 274-283	21.8	230
222	Accelerating the Translation of Nanomaterials in Biomedicine. *ACS Nano*, **2015**, 9, 6644-54	16.7	220
221	Gel□iposome-Mediated Co-Delivery of Anticancer Membrane-Associated Proteins and Small-Molecule Drugs for Enhanced Therapeutic Efficacy. *Advanced Functional Materials*, **2014**, 24, 2295-2304	15.6	216
220	Synergistic Transcutaneous Immunotherapy Enhances Antitumor Immune Responses through Delivery of Checkpoint Inhibitors. *ACS Nano*, **2016**, 10, 8956-63	16.7	215
219	Inflammation-Triggered Cancer Immunotherapy by Programmed Delivery of CpG and Anti-PD1 Antibody. *Advanced Materials*, **2016**, 28, 8912-8920	24	213
218	A melanin-mediated cancer immunotherapy patch. *Science Immunology*, **2017**, 2,	28	209
217	HO-Responsive Vesicles Integrated with Transcutaneous Patches for Glucose-Mediated Insulin Delivery. *ACS Nano*, **2017**, 11, 613-620	16.7	201
216	Mechanical Force-Triggered Drug Delivery. *Chemical Reviews*, **2016**, 116, 12536-12563	68.1	179
215	Injectable Bioresponsive Gel Depot for Enhanced Immune Checkpoint Blockade. *Advanced Materials* , **2018**, 30, e1801527	24	179
214	Tailoring Biomaterials for Cancer Immunotherapy: Emerging Trends and Future Outlook. *Advanced Materials*, **2017**, 29, 1606036	24	178
213	Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells. *Advanced Materials*, **2019**, 31, e1900192	24	178
212	Furin-mediated sequential delivery of anticancer cytokine and small-molecule drug shuttled by graphene. *Advanced Materials*, **2015**, 27, 1021-8	24	175

211	Advances in liquid metals for biomedical applications. *Chemical Society Reviews*, **2018**, 47, 2518-2533	58.5	173
210	Hypoxia and HO Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. *Nano Letters*, **2017**, 17, 733-739	11.5	172
209	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. *Nature Biomedical Engineering*, **2020**, 4, 499-506	19	166
208	Polymeric microneedles for transdermal protein delivery. *Advanced Drug Delivery Reviews*, **2018**, 127, 106-118	18.5	160
207	Stretch-Triggered Drug Delivery from Wearable Elastomer Films Containing Therapeutic Depots. *ACS Nano*, **2015**, 9, 9407-15	16.7	157
206	Local generation of hydrogen for enhanced photothermal therapy. *Nature Communications*, **2018**, 9, 4241	17.4	150
205	Engineered Nanoplatelets for Enhanced Treatment of Multiple Myeloma and Thrombus. *Advanced Materials*, **2016**, 28, 9573-9580	24	147
204	Photo-Cross-Linked Scaffold with Kartogenin-Encapsulated Nanoparticles for Cartilage Regeneration. *ACS Nano*, **2016**, 10, 1292-9	16.7	147
203	Redox-responsive nanocapsules for intracellular protein delivery. *Biomaterials*, **2011**, 32, 5223-30	15.6	147
202	Enhanced anticancer efficacy by ATP-mediated liposomal drug delivery. *Angewandte Chemie - International Edition*, **2014**, 53, 5815-20	16.4	146
201	Bacteria-Driven Hypoxia Targeting for Combined Biotherapy and Photothermal Therapy. *ACS Nano*, **2018**, 12, 5995-6005	16.7	146
200	Conjugation of haematopoietic stem cells and platelets decorated with anti-PD-1 antibodies augments anti-leukaemia efficacy. *Nature Biomedical Engineering*, **2018**, 2, 831-840	19	143
199	Detection of mercury ion by infrared fluorescent protein and its hydrogel-based paper assay. *Analytical Chemistry*, **2011**, 83, 2324-9	7.8	142
198	PD-1 Blockade Cellular Vesicles for Cancer Immunotherapy. *Advanced Materials*, **2018**, 30, e1707112	24	138
197	Microneedles Integrated with Pancreatic Cells and Synthetic Glucose-Signal Amplifiers for Smart Insulin Delivery. *Advanced Materials*, **2016**, 28, 3115-3121	24	138
196	Core-Shell Microneedle Gel for Self-Regulated Insulin Delivery. *ACS Nano*, **2018**, 12, 2466-2473	16.7	132
195	ATP-responsive DNA-graphene hybrid nanoaggregates for anticancer drug delivery. *Biomaterials*, **2015**, 50, 67-74	15.6	132
194	Red blood cell-derived nanoerythrosome for antigen delivery with enhanced cancer immunotherapy. *Science Advances*, **2019**, 5, eaaw6870	14.3	131

193	Protein nanocapsule weaved with enzymatically degradable polymeric network. *Nano Letters*, **2009**, 9, 4533-8	11.5	122
192	Tumor Microenvironment-Mediated Construction and Deconstruction of Extracellular Drug-Delivery Depots. *Nano Letters*, **2016**, 16, 1118-26	11.5	121
191	Advances in transdermal insulin delivery. *Advanced Drug Delivery Reviews*, **2019**, 139, 51-70	18.5	119
190	Macrophage-Specific in Vivo Gene Editing Using Cationic Lipid-Assisted Polymeric Nanoparticles. *ACS Nano*, **2018**, 12, 994-1005	16.7	114
189	Engineering PD-1-Presenting Platelets for Cancer Immunotherapy. *Nano Letters*, **2018**, 18, 5716-5725	11.5	113
188	Cardiac cell-integrated microneedle patch for treating myocardial infarction. *Science Advances*, **2018**, 4, eaat9365	14.3	111
187	Synthetic beta cells for fusion-mediated dynamic insulin secretion. *Nature Chemical Biology*, **2018**, 14, 86-93	11.7	110
186	Anaerobe-Inspired Anticancer Nanovesicles. *Angewandte Chemie - International Edition*, **2017**, 56, 2588-2593	15.4	109
185	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. *Nano Letters*, **2017**, 17, 2138-2145	11.5	109
184	Bio-inspired synthetic nanovesicles for glucose-responsive release of insulin. *Biomacromolecules*, **2014**, 15, 3495-502	6.9	109
183	Programmable nanomedicine: synergistic and sequential drug delivery systems. *Nanoscale*, **2015**, 7, 3381-91	7.7	109
182	Locally Induced Adipose Tissue Browning by Microneedle Patch for Obesity Treatment. *ACS Nano*, **2017**, 11, 9223-9230	16.7	106
181	Biodegradable Gelatin Methacryloyl Microneedles for Transdermal Drug Delivery. *Advanced Healthcare Materials*, **2019**, 8, e1801054	10.1	105
180	Advances in Antimicrobial Microneedle Patches for Combating Infections. *Advanced Materials*, **2020**, 32, e2002129	24	102
179	Targeted repair of heart injury by stem cells fused with platelet nanovesicles. *Nature Biomedical Engineering*, **2018**, 2, 17-26	19	101
178	Red Blood Cells for Glucose-Responsive Insulin Delivery. *Advanced Materials*, **2017**, 29, 1606617	24	100
177	Leveraging Physiology for Precision Drug Delivery. *Physiological Reviews*, **2017**, 97, 189-225	47.9	99
176	A Dual-Bioresponsive Drug-Delivery Depot for Combination of Epigenetic Modulation and Immune Checkpoint Blockade. *Advanced Materials*, **2019**, 31, e1806957	24	95

175	On the issue of transparency and reproducibility in nanomedicine. *Nature Nanotechnology*, **2019**, 14, 629-635	28.7	92
174	A Therapeutic Microneedle Patch Made from Hair-Derived Keratin for Promoting Hair Regrowth. *ACS Nano*, **2019**, 13, 4354-4360	16.7	88
173	Endoprotease-mediated intracellular protein delivery using nanocapsules. *ACS Nano*, **2011**, 5, 1385-94	16.7	88
172	Glucose-Responsive Insulin and Delivery Systems: Innovation and Translation. *Advanced Materials*, **2020**, 32, e1902004	24	87
171	Dual targeted nanocarrier for brain ischemic stroke treatment. *Journal of Controlled Release*, **2016**, 233, 64-71	11.7	84
170	Transdermal cold atmospheric plasma-mediated immune checkpoint blockade therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3687-3692	11.5	83
169	Clickable protein nanocapsules for targeted delivery of recombinant p53 protein. *Journal of the American Chemical Society*, **2014**, 136, 15319-25	16.4	83
168	Bioinspired and Biomimetic Nanomedicines. *Accounts of Chemical Research*, **2019**, 52, 1255-1264	24.3	80
167	Bioresponsive Microneedles with a Sheath Structure for H O and pH Cascade-Triggered Insulin Delivery. *Small*, **2018**, 14, e1704181	11	80
166	Platelet for drug delivery. *Current Opinion in Biotechnology*, **2019**, 58, 81-91	11.4	80
165	Targeting of NLRP3 inflammasome with gene editing for the amelioration of inflammatory diseases. *Nature Communications*, **2018**, 9, 4092	17.4	80
164	Cancer Stem Cell-Platelet Hybrid Membrane-Coated Magnetic Nanoparticles for Enhanced Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. *Advanced Functional Materials*, **2019**, 29, 1807733	15.6	78
163	Leveraging Engineering of Cells for Drug Delivery. *Accounts of Chemical Research*, **2018**, 51, 668-677	24.3	77
162	Advances in nanomedicine for cancer starvation therapy. *Theranostics*, **2019**, 9, 8026-8047	12.1	73
161	Degradable polymeric nanocapsule for efficient intracellular delivery of a high molecular weight tumor-selective protein complex. *Nano Today*, **2013**, 8, 11-20	17.9	73
160	Sequentially Site-Specific Delivery of Thrombolytics and Neuroprotectant for Enhanced Treatment of Ischemic Stroke. *ACS Nano*, **2019**, 13, 8577-8588	16.7	72
159	Glucose-responsive insulin by molecular and physical design. *Nature Chemistry*, **2017**, 9, 937-943	17.6	72
158	Advances of injectable hydrogel-based scaffolds for cartilage regeneration. *International Journal of Energy Production and Management*, **2019**, 6, 129-140	5.3	71

157	Recent advances in nanotechnology for diabetes treatment. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2015**, 7, 548-64	9.2	68
156	Bioresponsive Protein Complex of aPD1 and aCD47 Antibodies for Enhanced Immunotherapy. *Nano Letters*, **2019**, 19, 4879-4889	11.5	68
155	Folding graft copolymer with pendant drug segments for co-delivery of anticancer drugs. *Biomaterials*, **2014**, 35, 7194-203	15.6	67
154	Self-Assembled DNA Nanoclews for the Efficient Delivery of CRISPR□Cas9 for Genome Editing. *Angewandte Chemie*, **2015**, 127, 12197-12201	3.6	67
153	Ultrasound-triggered regulation of blood glucose levels using injectable nano-network. *Advanced Healthcare Materials*, **2014**, 3, 811-6	10.1	66
152	Conjugated polymer nanomaterials for theranostics. *Acta Pharmacologica Sinica*, **2017**, 38, 764-781	8	65
151	Advances in drug delivery for post-surgical cancer treatment. *Biomaterials*, **2019**, 219, 119182	15.6	65
150	Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation. *Advanced Materials*, **2017**, 29, 1604043	24	65
149	Stimuli-Responsive Delivery of Therapeutics for Diabetes Treatment. *Bioengineering and Translational Medicine*, **2016**, 1, 323-337	14.8	63
148	Charge-switchable polymeric complex for glucose-responsive insulin delivery in mice and pigs. *Science Advances*, **2019**, 5, eaaw4357	14.3	62
147	Combretastatin A4 Nanodrug-Induced MMP9 Amplification Boosts Tumor-Selective Release of Doxorubicin Prodrug. *Advanced Materials*, **2019**, 31, e1904278	24	61
146	Rational designs of in vivo CRISPR-Cas delivery systems. *Advanced Drug Delivery Reviews*, **2021**, 168, 3-29	18.5	58
145	Delivery Strategies for Immune Checkpoint Blockade. *Advanced Healthcare Materials*, **2018**, 7, e1800424	10.1	57
144	Ultrasound-triggered noninvasive regulation of blood glucose levels using microgels integrated with insulin nanocapsules. *Nano Research*, **2017**, 10, 1393-1402	10	55
143	Hierarchical Nanoassemblies-Assisted Combinational Delivery of Cytotoxic Protein and Antibiotic for Cancer Treatment. *Nano Letters*, **2018**, 18, 2294-2303	11.5	55
142	Extraction of Plant DNA by Microneedle Patch for Rapid Detection of Plant Diseases. *ACS Nano*, **2019**, 13, 6540-6549	16.7	54
141	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. *Small*, **2020**, 16, e1905910	11	54
140	Spatiotemporal drug delivery using laser-generated-focused ultrasound system. *Journal of Controlled Release*, **2015**, 220, 592-9	11.7	53

139	Calming Cytokine Storm in Pneumonia by Targeted Delivery of TPCA-1 Using Platelet-Derived Extracellular Vesicles. *Matter*, **2020**, 3, 287-301	12.7	53
138	Engineering DNA scaffolds for delivery of anticancer therapeutics. *Biomaterials Science*, **2015**, 3, 1018-24	7.4	50
137	Relay Drug Delivery for Amplifying Targeting Signal and Enhancing Anticancer Efficacy. *Advanced Materials*, **2017**, 29, 1605803	24	49
136	Advances in transformable drug delivery systems. *Biomaterials*, **2018**, 178, 546-558	15.6	48
135	Lipid-like nanomaterials for simultaneous gene expression and silencing in vivo. *Advanced Healthcare Materials*, **2014**, 3, 1392-7	10.1	48
134	pH-Responsive and near-infrared-emissive polymer nanoparticles for simultaneous delivery, release, and fluorescence tracking of doxorubicin in vivo. *Chemical Communications*, **2014**, 50, 4699-702	5.8	48
133	Leveraging H O Levels for Biomedical Applications. *Advanced Biology*, **2017**, 1, e1700084	3.5	48
132	Bioresponsive transcutaneous patches. *Current Opinion in Biotechnology*, **2017**, 48, 28-32	11.4	47
131	CRISPR-Cas12a delivery by DNA-mediated bioresponsive editing for cholesterol regulation. *Science Advances*, **2020**, 6, eaba2983	14.3	46
130	Non-transdermal microneedles for advanced drug delivery. *Advanced Drug Delivery Reviews*, **2020**, 165-166, 41-59	18.5	46
129	Red Blood Cells for Drug Delivery. *Small Methods*, **2017**, 1, 1700270	12.8	45
128	ATP-Responsive and Near-Infrared-Emissive Nanocarriers for Anticancer Drug Delivery and Real-Time Imaging. *Theranostics*, **2016**, 6, 1053-64	12.1	45
127	Shape-controlled synthesis of liquid metal nanodroplets for photothermal therapy. *Nano Research*, **2019**, 12, 1313-1320	10	45
126	ROS-Responsive Microneedle Patch for Acne Vulgaris Treatment. *Advanced Therapeutics*, **2018**, 1, 1800035	4.9	42
125	Bioengineering of Artificial Antigen Presenting Cells and Lymphoid Organs. *Theranostics*, **2017**, 7, 3504-3516	12.1	41
124	Conjugated Polymer Fluorescence Probe for Intracellular Imaging of Magnetic Nanoparticles. *Macromolecules*, **2010**, 43, 10348-10354	5.5	41
123	Advances in bioresponsive closed-loop drug delivery systems. *International Journal of Pharmaceutics*, **2018**, 544, 350-357	6.5	41
122	Cationic lipid-assisted nanoparticles for delivery of mRNA cancer vaccine. *Biomaterials Science*, **2018**, 6, 3009-3018	7.4	40

121	KO of 5-InsP kinase activity transforms the HCT116 colon cancer cell line into a hypermetabolic, growth-inhibited phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11968-11973	11.5	39
120	Inhibition of post-surgery tumour recurrence via a hydrogel releasing CAR-T cells and anti-PDL1-conjugated platelets. *Nature Biomedical Engineering*, **2021**, 5, 1038-1047	19	39
119	Transformable DNA nanocarriers for plasma membrane targeted delivery of cytokine. *Biomaterials*, **2016**, 96, 1-10	15.6	39
118	Glucose-Responsive Microneedle Patches for Diabetes Treatment. *Journal of Diabetes Science and Technology*, **2019**, 13, 41-48	4.1	37
117	Tailoring Materials for Modulation of Macrophage Fate. *Advanced Materials*, **2021**, 33, e2004172	24	37
116	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. *Nanoscale*, **2015**, 7, 12096-103	7.7	36
115	Advances in glycosylation-mediated cancer-targeted drug delivery. *Drug Discovery Today*, **2018**, 23, 1126-1138	6.8	36
114	Probing protease activity by single-fluorescent-protein nanocapsules. *Chemical Communications*, **2010**, 46, 6467-9	5.8	36
113	Biodegradable β-Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Water-Insoluble Drug. *Advanced Healthcare Materials*, **2020**, 9, e2000527	10.1	35
112	Dual electroluminescence from a single-component light-emitting electrochemical cell, based on water-soluble conjugated polymer. *Journal of Applied Polymer Science*, **2006**, 100, 2930-2936	2.9	35
111	Eradication of unresectable liver metastasis through induction of tumour specific energy depletion. *Nature Communications*, **2019**, 10, 3051	17.4	33
110	Glucose-responsive oral insulin delivery for postprandial glycemic regulation. *Nano Research*, **2019**, 12, 1539-1545	10	33
109	Stimuli-responsive transdermal microneedle patches. *Materials Today*, **2021**, 47, 206-222	21.8	33
108	Adipocytes as Anticancer Drug Delivery Depot. *Matter*, **2019**, 1, 1203-1214	12.7	32
107	Transdermal colorimetric patch for hyperglycemia sensing in diabetic mice. *Biomaterials*, **2020**, 237, 119782	15.6	32
106	ATP-Responsive Drug Delivery Systems. *Expert Opinion on Drug Delivery*, **2016**, 13, 311-4	8	32
105	Hypoxia-Sensitive Materials for Biomedical Applications. *Annals of Biomedical Engineering*, **2016**, 44, 1931-45	4.7	31
104	Bioorthogonal catalytic patch. *Nature Nanotechnology*, **2021**, 16, 933-941	28.7	30

103	Advances in Engineering Cells for Cancer Immunotherapy. *Theranostics*, **2019**, 9, 7889-7905	12.1	29
102	Injectable Thermosensitive Polypeptide-Based CDDP-Complexed Hydrogel for Improving Localized Antitumor Efficacy. *Biomacromolecules*, **2017**, 18, 4341-4348	6.9	29
101	Advances in Anticancer Protein Delivery Using Micro-/ Nanoparticles. *Particle and Particle Systems Characterization*, **2014**, 31, 1204-1222	3.1	29
100	Local and Targeted Delivery of Immune Checkpoint Blockade Therapeutics. *Accounts of Chemical Research*, **2020**, 53, 2521-2533	24.3	29
99	Dual self-regulated delivery of insulin and glucagon by a hybrid patch. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29512-29517	11.5	29
98	Engineered PD-L1-Expressing Platelets Reverse New-Onset Type 1 Diabetes. *Advanced Materials*, **2020**, 32, e1907692	24	29
97	Enzyme-assisted photolithography for spatial functionalization of hydrogels. *Lab on A Chip*, **2010**, 10, 1946-51	7.2	28
96	Engineering Synthetic Insulin-Secreting Cells Using Hyaluronic Acid Microgels Integrated with Glucose-Responsive Nanoparticles. *Cellular and Molecular Bioengineering*, **2015**, 8, 445-454	3.9	27
95	Glucose transporter inhibitor-conjugated insulin mitigates hypoglycemia. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 10744-10748	11.5	26
94	Colloidal crystal microneedle patch for glucose monitoring. *Nano Today*, **2020**, 35, 100984	17.9	26
93	Internalized compartments encapsulated nanogels for targeted drug delivery. *Nanoscale*, **2016**, 8, 9178-84	7.7	26
92	Cryo-shocked cancer cells for targeted drug delivery and vaccination. *Science Advances*, **2020**, 6,	14.3	25
91	Insulin-Responsive Glucagon Delivery for Prevention of Hypoglycemia. *Small*, **2017**, 13, 1603028	11	24
90	Blood sampling using microneedles as a minimally invasive platform for biomedical diagnostics. *Applied Materials Today*, **2018**, 13, 144-157	6.6	24
89	Enhanced local cancer therapy using a CA4P and CDDP co-loaded polypeptide gel depot. *Biomaterials Science*, **2019**, 7, 860-866	7.4	23
88	Self-folded redox/acid dual-responsive nanocarriers for anticancer drug delivery. *Chemical Communications*, **2014**, 50, 15105-8	5.8	23
87	Photoacoustic Drug Delivery. *Sensors*, **2017**, 17,	3.8	23
86	Engineering Antiviral Vaccines. *ACS Nano*, **2020**, 14, 12370-12389	16.7	23

85	Progress in transdermal drug delivery systems for cancer therapy. *Nano Research*, **2020**, 13, 1810-1824	10	22
84	Versatile Protein Nanogels Prepared by In Situ Polymerization. *Macromolecular Chemistry and Physics*, **2016**, 217, 333-343	2.6	22
83	Engineering platelet-mimicking drug delivery vehicles. *Frontiers of Chemical Science and Engineering* , **2017**, 11, 624-632	4.5	21
82	Enhanced Antiglioblastoma Efficacy of Neovasculature and Glioma Cells Dual Targeted Nanoparticles. *Molecular Pharmaceutics*, **2016**, 13, 3506-3517	5.6	20
81	Unraveling the mechanobiology of immune cells. *Current Opinion in Biotechnology*, **2020**, 66, 236-245	11.4	20
80	Kidney physiology: A size bandpass filter. *Nature Nanotechnology*, **2017**, 12, 1023-1025	28.7	18
79	Biodegradable microneedle patch for transdermal gene delivery. *Nanoscale*, **2020**, 12, 16724-16729	7.7	18
78	Anaerobe-Inspired Anticancer Nanovesicles. *Angewandte Chemie*, **2017**, 129, 2632-2637	3.6	17
77	Advances in engineering local drug delivery systems for cancer immunotherapy. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2020**, 12, e1632	9.2	17
76	Targeted Delivery of Notch Inhibitor Attenuates Obesity-Induced Glucose Intolerance and Liver Fibrosis. *ACS Nano*, **2020**, 14, 6878-6886	16.7	17
75	Strategies of Combination Drug Delivery for Immune Checkpoint Blockades. *Advanced Healthcare Materials*, **2019**, 8, e1801099	10.1	17
74	Engineering Biomaterials with Micro/Nanotechnologies for Cell Reprogramming. *ACS Nano*, **2020**, 14, 1296-1318	16.7	16
73	Polypyrrole-Based Implantable Electroactive Pump for Controlled Drug Microinjection. *ACS Applied Materials & Interfaces*, **2015**, 7, 14563-8	9.5	15
72	Local delivery of checkpoints antibodies. *Human Vaccines and Immunotherapeutics*, **2017**, 13, 245-248	4.4	15
71	Characterization of a novel N-acetylneuraminic acid lyase favoring industrial N-acetylneuraminic acid synthesis. *Scientific Reports*, **2015**, 5, 9341	4.9	15
70	Photothermal Therapy: Photothermal Therapy Promotes Tumor Infiltration and Antitumor Activity of CAR T Cells (Adv. Mater. 23/2019). *Advanced Materials*, **2019**, 31, 1970166	24	13
69	A temperature microsensor for measuring laser-induced heating in gold nanorods. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 719-25	4.4	13
68	Nanomedicine for obesity treatment. *Science China Life Sciences*, **2018**, 61, 373-379	8.5	13

67	ZnS@BSA Nanoclusters Potentiate Efficacy of Cancer Immunotherapy. *Advanced Materials*, **2021**, e2104037	24	13
66	Disrupting tumour vasculature and recruitment of aPDL1-loaded platelets control tumour metastasis. *Nature Communications*, **2021**, 12, 2773	17.4	13
65	Delivery Techniques for Enhancing CAR T Cell Therapy against Solid Tumors. *Advanced Functional Materials*,2009489	15.6	13
64	Cancer Immunotherapy: PD-1 Blockade Cellular Vesicles for Cancer Immunotherapy (Adv. Mater. 22/2018). *Advanced Materials*, **2018**, 30, 1870152	24	13
63	Cargo-encapsulated cells for drug delivery. *Science China Life Sciences*, **2020**, 63, 599-601	8.5	12
62	In situ fabrication of organic electrochemical transistors on a microfluidic chip. *Nano Research*, **2019**, 12, 1943-1951	10	12
61	Microneedle Array Patches Integrated with Nanoparticles for Therapy and Diagnosis. *Small Structures*, **2021**, 2, 2000097	8.7	12
60	Cellular Bioparticulates with Therapeutics for Cancer Immunotherapy. *Bioconjugate Chemistry*, **2018**, 29, 702-708	6.3	12
59	Cancer-on-a-Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. *Small*, **2021**, 17, e2004282	11	12
58	Developing Insulin Delivery Devices with Glucose Responsiveness. *Trends in Pharmacological Sciences*, **2021**, 42, 31-44	13.2	11
57	Biomedical polymers: synthesis, properties, and applications.. *Science China Chemistry*, **2022**, 1-66	7.9	11
56	Engineering Protein Delivery Depots for Cancer Immunotherapy. *Bioconjugate Chemistry*, **2019**, 30, 515-524	5.3	10
55	Tailoring non-viral delivery vehicles for transporting genome-editing tools. *Science China Materials*, **2017**, 60, 511-515	7.1	10
54	Iron oxide nanoparticles augment the intercellular mitochondrial transfer-mediated therapy. *Science Advances*, **2021**, 7, eabj0534	14.3	10
53	Glucose-Responsive Insulin Delivery by Microneedle-Array Patches Loaded with Hypoxia-Sensitive Vesicles. *Methods in Molecular Biology*, **2017**, 1570, 251-259	1.4	9
52	Fibrin gel enhances the antitumor effects of chimeric antigen receptor T cells in glioblastoma. *Science Advances*, **2021**, 7, eabg5841	14.3	9
51	A forskolin-conjugated insulin analog targeting endogenous glucose-transporter for glucose-responsive insulin delivery. *Biomaterials Science*, **2019**, 7, 4508-4513	7.4	9
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