Yuanyu Huang

List of Publications by Year in descending order

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85 papers	5,832 citations	66234 42 h-index	76769 74 g-index
88 all docs	88 docs citations	88 times ranked	7165 citing authors

#	Article	IF	Citations
1	Therapeutic siRNA: state of the art. Signal Transduction and Targeted Therapy, 2020, 5, 101.	7.1	674
2	Enhanced Gene Delivery and siRNA Silencing by Gold Nanoparticles Coated with Charge-Reversal Polyelectrolyte. ACS Nano, 2010, 4, 5505-5511.	7.3	370
3	Preclinical and Clinical Advances of GalNAc-Decorated Nucleic Acid Therapeutics. Molecular Therapy - Nucleic Acids, 2017, 6, 116-132.	2.3	221
4	The challenge and prospect of mRNA therapeutics landscape. Biotechnology Advances, 2020, 40, 107534.	6.0	221
5	RNAi therapeutic and its innovative biotechnological evolution. Biotechnology Advances, 2019, 37, 801-825.	6.0	196
6	Multifunctional aptamer-based nanoparticles for targeted drug delivery to circumvent cancer resistance. Biomaterials, 2016, 91, 44-56.	5.7	186
7	Adaptive Amphiphilic Dendrimerâ€Based Nanoassemblies as Robust and Versatile siRNA Delivery Systems. Angewandte Chemie - International Edition, 2014, 53, 11822-11827.	7.2	181
8	Functionalized Nanoscale Micelles Improve Drug Delivery for Cancer Therapy in Vitro and in Vivo. Nano Letters, 2013, 13, 2528-2534.	4.5	178
9	Bioinspired exosome-like therapeutics and delivery nanoplatforms. Biomaterials, 2020, 242, 119925.	5.7	161
10	A Dual Targeting Dendrimer-Mediated siRNA Delivery System for Effective Gene Silencing in Cancer Therapy. Journal of the American Chemical Society, 2018, 140, 16264-16274.	6.6	159
11	Systemic Administration of Combinatorial dsiRNAs via Nanoparticles Efficiently Suppresses HIV-1 Infection in Humanized Mice. Molecular Therapy, 2011, 19, 2228-2238.	3.7	149
12	An estrogen receptor Î± suppressor, microRNAâ€22, is downregulated in estrogen receptor Î±â€positive human breast cancer cell lines and clinical samples. FEBS Journal, 2010, 277, 1684-1694.	2.2	148
13	Elimination Pathways of Systemically Delivered siRNA. Molecular Therapy, 2011, 19, 381-385.	3.7	125
14	Advances of nanoparticles as drug delivery systems for disease diagnosis and treatment. Chinese Chemical Letters, 2023, 34, 107518.	4.8	124
15	Clinical advances of siRNA therapeutics. Journal of Gene Medicine, 2019, 21, e3097.	1.4	120
16	Membraneâ€destabilizing ionizable lipid empowered imagingâ€guided siRNA delivery and cancer treatment. Exploration, 2021, 1, 35-49.	5.4	106
17	Enhanced endosomal/lysosomal escape by distearoyl phosphoethanolamine-polycarboxybetaine lipid for systemic delivery of siRNA. Journal of Controlled Release, 2014, 176, 104-114.	4.8	102
18	Amphiphilic and biodegradable methoxy polyethylene glycol-block-(polycaprolactone-graft-poly(2-(dimethylamino)ethyl methacrylate)) as an effective gene carrier. Biomaterials, 2011, 32, 879-889.	5.7	97

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19	Intracellular cleavable poly(2-dimethylaminoethyl methacrylate) functionalized mesoporous silica nanoparticles for efficient siRNA delivery in vitro and in vivo. Nanoscale, 2013, 5, 4291.	2.8	92
20	Ternary complexes of amphiphilic polycaprolactone-graft-poly (N,N-dimethylaminoethyl methacrylate), DNA and polyglutamic acid-graft-poly(ethylene glycol) for gene delivery. Biomaterials, 2011, 32, 4283-4292.	5.7	79
21	A Near-Infrared-II Polymer with Tandem Fluorophores Demonstrates Superior Biodegradability for Simultaneous Drug Tracking and Treatment Efficacy Feedback. ACS Nano, 2021, 15, 5428-5438.	7.3	79
22	Ultrabright and Multicolorful Fluorescence of Amphiphilic Polyethyleneimine Polymer Dots for Efficiently Combined Imaging and Therapy. Scientific Reports, 2013, 3, 3036.	1.6	78
23	The Promising Nanocarrier for Doxorubicin and siRNA Co-delivery by PDMAEMA-based Amphiphilic Nanomicelles. ACS Applied Materials & Interfaces, 2016, 8, 4347-4356.	4.0	76
24	Improved Nucleic Acid Therapy with Advanced Nanoscale Biotechnology. Molecular Therapy - Nucleic Acids, 2020, 19, 581-601.	2.3	74
25	pH-Sensitive Nanomicelles for High-Efficiency siRNA Delivery in Vitro and in Vivo: An Insight into the Design of Polycations with Robust Cytosolic Release. Nano Letters, 2016, 16, 6916-6923.	4.5	71
26	Effects of hydrophobic core components in amphiphilic PDMAEMA nanoparticles on siRNA delivery. Biomaterials, 2015, 48, 45-55.	5.7	63
27	Structural contributions of blocked or grafted poly(2-dimethylaminoethyl methacrylate) on PEGylated polycaprolactone nanoparticles in siRNA delivery. Biomaterials, 2011, 32, 8730-8742.	5.7	62
28	Fluorinated Oligoethylenimine Nanoassemblies for Efficient siRNA-Mediated Gene Silencing in Serum-Containing Media by Effective Endosomal Escape. Nano Letters, 2018, 18, 6301-6311.	4.5	61
29	Polycation-detachable nanoparticles self-assembled from mPEG-PCL-g-SS-PDMAEMA for in vitro and in vivo siRNA delivery. Acta Biomaterialia, 2013, 9, 7746-7757.	4.1	60
30	Nano-herb medicine and PDT induced synergistic immunotherapy for colon cancer treatment. Biomaterials, 2021, 269, 120654.	5.7	60
31	Self-assembling supramolecular dendrimer nanosystem for PET imaging of tumors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11454-11459.	3.3	58
32	Core Role of Hydrophobic Core of Polymeric Nanomicelle in Endosomal Escape of siRNA. Nano Letters, 2021, 21, 3680-3689.	4.5	58
33	An efficient and high-throughput electroporation microchip applicable for siRNA delivery. Lab on A Chip, 2011, 11, 163-172.	3.1	56
34	Identification of SARS-CoV-2-against aptamer with high neutralization activity by blocking the RBD domain of spike protein 1. Signal Transduction and Targeted Therapy, 2021, 6, 227.	7.1	56
35	siRNA Knockdown of RRM2 Effectively Suppressed Pancreatic Tumor Growth Alone or Synergistically with Doxorubicin. Molecular Therapy - Nucleic Acids, 2018, 12, 805-816.	2.3	52
36	Efficient delivery of nucleic acid molecules into skin by combined use of microneedle roller and flexible interdigitated electroporation array. Theranostics, 2018, 8, 2361-2376.	4.6	51

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37	mRNA vaccines for COVID-19 and diverse diseases. Journal of Controlled Release, 2022, 345, 314-333.	4.8	50
38	Efficient hepatic delivery and protein expression enabled by optimized mRNA and ionizable lipid nanoparticle. Bioactive Materials, 2020, 5, 1053-1061.	8.6	49
39	ROS-Activatable siRNA-Engineered Polyplex for NIR-Triggered Synergistic Cancer Treatment. ACS Applied Materials & Interfaces, 2020, 12, 32289-32300.	4.0	49
40	Heterostructures Made of Upconversion Nanoparticles and Metalâ€“Organic Frameworks for Biomedical Applications. Advanced Science, 2022, 9, e2103911.	5.6	49
41	Binary and ternary complexes based on polycaprolactone-graft-poly (N, N-dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.7	48
42	The effect of guanidinylation of PEGylated poly(2-aminoethyl methacrylate) on the systemic delivery of siRNA. Biomaterials, 2013, 34, 3120-3131.	5.7	46
43	Thermostable ionizable lipid-like nanoparticle (iLAND) for RNAi treatment of hyperlipidemia. Science Advances, 2022, 8, eabm1418.	4.7	46
44	Pharmacokinetic Behaviors of Intravenously Administered siRNA in Glandular Tissues. Theranostics, 2016, 6, 1528-1541.	4.6	45
45	Polymer-Based Nanomaterials for Noninvasive Cancer Photothermal Therapy. ACS Applied Polymer Materials, 2020, 2, 4289-4305.	2.0	43
46	Comprehensive analysis of sequence-specific stability of siRNA. FASEB Journal, 2010, 24, 4844-4855.	0.2	38
47	Viral Proteinâ€Pseudotyped and siRNAâ€Electroporated Extracellular Vesicles for Cancer Immunotherapy. Advanced Functional Materials, 2020, 30, 2006515.	7.8	37
48	Rolling microneedle electrode array (RoMEA) empowered nucleic acid delivery and cancer immunotherapy. Nano Today, 2021, 36, 101017.	6.2	37
49	The pH-Triggered Triblock Nanocarrier Enabled Highly Efficient siRNA Delivery for Cancer Therapy. Theranostics, 2017, 7, 3432-3445.	4.6	33
50	Recent advances in photothermal and RNA interfering synergistic therapy. Chinese Chemical Letters, 2021, 32, 1010-1016.	4.8	33
51	Ionizable lipid-assisted efficient hepatic delivery of gene editing elements for oncotherapy. Bioactive Materials, 2022, 9, 590-601.	8.6	33
52	Conscription of Immune Cells by Lightâ€Activatable Silencing NKâ€Derived Exosome (LASNEO) for Synergetic Tumor Eradication. Advanced Science, 2022, 9, .	5.6	30
53	Elaboration on the Distribution of Hydrophobic Segments in the Chains of Amphiphilic Cationic Polymers for Small Interfering RNA Delivery. ACS Applied Materials & Interfaces, 2017, 9, 32463-32474.	4.0	27
54	From mouse to mouseâ€ear cress: Nanomaterials as vehicles in plant biotechnology. Exploration, 2021, 1, 9-20.	5.4	27

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55	Systemic Administration of siRNA via cRGD-containing Peptide. Scientific Reports, 2015, 5, 12458.	1.6	26
56	Harnessing pH-Sensitive Polycation Vehicles for the Efficient siRNA Delivery. ACS Applied Materials & Interfaces, 2021, 13, 2218-2229.	4.0	25
57	A Pliable Electroporation Patch (ep-Patch) for Efficient Delivery of Nucleic Acid Molecules into Animal Tissues with Irregular Surface Shapes. Scientific Reports, 2015, 5, 7618.	1.6	24
58	Induction of lipid droplets in THP-1 macrophages by multi-walled carbon nanotubes in a diameter-dependent manner: A transcriptomic study. Toxicology Letters, 2020, 332, 65-73.	0.4	23
59	A photo-triggerable aptamer nanoswitch for spatiotemporal controllable siRNA delivery. Nanoscale, 2020, 12, 10939-10943.	2.8	23
60	Systemic and tumor-targeted delivery of siRNA by cyclic NGR and isoDGR motif-containing peptides. Biomaterials Science, 2016, 4, 494-510.	2.6	21
61	A novel polyethyleneimine-decorated FeOOH nanoparticle for efficient siRNA delivery. Chinese Chemical Letters, 2021, 32, 102-106.	4.8	21
62	Shear-responsive peptide/siRNA complexes as lung-targeting gene vectors. Chinese Chemical Letters, 2021, 32, 1731-1736.	4.8	18
63	Continuous Vector-free Gene Transfer with a Novel Microfluidic Chip and Nanoneedle Array. Current Drug Delivery, 2018, 16, 164-170.	0.8	17
64	Progress of Photodynamic and RNAi Combination Therapy in Cancer Treatment. ACS Biomaterials Science and Engineering, 2021, 7, 4420-4429.	2.6	17
65	Ionizable liposomal siRNA therapeutics enables potent and persistent treatment of Hepatitis B. Signal Transduction and Targeted Therapy, 2022, 7, 38.	7.1	17
66	Transcriptomic analysis revealed that multi-walled carbon nanotubes diameter-dependently induced pyroptosis in THP-1 macrophages. NanoImpact, 2020, 20, 100270.	2.4	13
67	Cell membrane-engineered nanoparticles for cancer therapy. Journal of Materials Chemistry B, 2022, 10, 7161-7172.	2.9	12
68	Surface Charge of Supramolecular Nanosystems for In Vivo Biodistribution: A MicroSPECT/CT Imaging Study. Small, 2020, 16, e2003290.	5.2	11
69	Pressure controllable aptamers picking strategy by targets competition. Chinese Chemical Letters, 2021, 32, 218-220.	4.8	11
70	Multivalent Engineering of Exosomes with Activatable Aptamer Probes for Specific Regulation and Monitoring of Cell Targeting. Analytical Chemistry, 2022, 94, 3840-3848.	3.2	11
71	Biosafety materials: Ushering in a new era of infectious disease diagnosis and treatment with the CRISPR/Cas system. Biosafety and Health, 2022, 4, 70-78.	1.2	10
72	siRNA-functionalized lanthanide nanoparticle enables efficient endosomal escape and cancer treatment. Nano Research, 2022, 15, 9160-9168.	5.8	10

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73	Advances of mRNA vaccines for COVID-19: A new prophylactic revolution begins. Asian Journal of Pharmaceutical Sciences, 2021, 16, 263-264.	4.3	8
74	Imaging-guided/improved diseases management for immune-strategies and beyond. Advanced Drug Delivery Reviews, 2022, 188, 114446.	6.6	8
75	Transdermal Delivery of Nucleic Acid Mediated by Punching and Electroporation. Methods in Molecular Biology, 2020, 2050, 101-112.	0.4	7
76	Comprehensive analysis of sequenceâ€specific stability of siRNA. FASEB Journal, 2010, 24, 4844-4855.	0.2	7
77	The microgravity enhanced polymer-mediated siRNA gene silence by improving cellular uptake. Biophysics Reports, 2020, 6, 266-277.	0.2	6
78	siRNA Design and GalNAc-Empowered Hepatic Targeted Delivery. Methods in Molecular Biology, 2021, 2282, 77-100.	0.4	6
79	A parylene-based flexible electroporation chip applicable for in vivo gene and siRNA delivery. , 2011, , .		5
80	Advanced microfluidic devices for cell electroporation and manipulation. , 2021, , 105-123.		3
81	Possibility for double optimization of siRNA intracellular delivery efficiency and antibacterial activity: Structure screening of pH-sensitive triblock amphiphilic polycation micelles. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112178.	2.5	2
82	siRNA mediated inhibition of pancreatic tumor growth and. Journal of Controlled Release, 2017, 259, e179-e180.	4.8	1
83	Bioimaging: Surface Charge of Supramolecular Nanosystems for In Vivo Biodistribution: A MicroSPECT/CT Imaging Study (Small 37/2020). Small, 2020, 16, 2070203.	5.2	0
84	Substrate-Free Dissolvable Microneedles with Barbed Structure Prepared by Modified Dual-Moulding Processes. , 2022, , .		0
85	Preparation and Evaluation of Rationally Designed Polymers for Efficient Endosomal Escape of siRNA. Biomaterial Engineering, 2022, , 181-197.	0.1	0