

Kenneth A Howard

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.

83
papers

5,041
citations

36
h-index

70
g-index

90
ext. papers

5,661
ext. citations

7.9
avg, IF

5.45
L-index

#	Paper	IF	Citations
83	RNA interference in vitro and in vivo using a novel chitosan/siRNA nanoparticle system. <i>Molecular Therapy</i> , 2006 , 14, 476-84	11.7	486
82	Albumin-based drug delivery: harnessing nature to cure disease. <i>Molecular and Cellular Therapies</i> , 2016 , 4, 3		343
81	The influence of polymeric properties on chitosan/siRNA nanoparticle formulation and gene silencing. <i>Biomaterials</i> , 2007 , 28, 1280-8	15.6	339
80	Importance of lateral and steric stabilization of polyelectrolyte gene delivery vectors for extended systemic circulation. <i>Molecular Therapy</i> , 2002 , 5, 463-72	11.7	249
79	Chitosan/siRNA nanoparticle-mediated TNF-alpha knockdown in peritoneal macrophages for anti-inflammatory treatment in a murine arthritis model. <i>Molecular Therapy</i> , 2009 , 17, 162-8	11.7	232
78	Size-Dependent Accumulation of PEGylated Silane-Coated Magnetic Iron Oxide Nanoparticles in Murine Tumors. <i>ACS Nano</i> , 2009 , 3, 1947-51	16.7	221
77	Multifunctional Bismuth Selenide Nanocomposites for Antitumor Thermo-Chemotherapy and Imaging. <i>ACS Nano</i> , 2016 , 10, 984-97	16.7	199
76	Cellular disposal of miR23b by RAB27-dependent exosome release is linked to acquisition of metastatic properties. <i>Cancer Research</i> , 2014 , 74, 5758-71	10.1	195
75	Comparative analysis of discrete exosome fractions obtained by differential centrifugation. <i>Journal of Extracellular Vesicles</i> , 2014 , 3, 25011	16.4	187
74	Antimicrobial effect of chitosan nanoparticles on streptococcus mutans biofilms. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 3892-5	4.8	162
73	Multimodal Imaging-Guided Antitumor Photothermal Therapy and Drug Delivery Using Bismuth Selenide Spherical Sponge. <i>ACS Nano</i> , 2016 , 10, 9646-9658	16.7	157
72	Decreased binding to proteins and cells of polymeric gene delivery vectors surface modified with a multivalent hydrophilic polymer and retargeting through attachment of transferrin. <i>Journal of Biological Chemistry</i> , 2000 , 275, 3793-802	5.4	129
71	Quantitative proteomics of fractionated membrane and lumen exosome proteins from isogenic metastatic and nonmetastatic bladder cancer cells reveal differential expression of EMT factors. <i>Proteomics</i> , 2014 , 14, 699-712	4.8	123
70	Polycation-based nanoparticle delivery of RNAi therapeutics: adverse effects and solutions. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 1717-29	18.5	120
69	Steric stabilization of poly-L-Lysine/DNA complexes by the covalent attachment of semitelechelic poly[N-(2-hydroxypropyl)methacrylamide]. <i>Bioconjugate Chemistry</i> , 2000 , 11, 492-501	6.3	98
68	Delivery of siRNA from lyophilized polymeric surfaces. <i>Biomaterials</i> , 2008 , 29, 506-12	15.6	91
67	Highly porous PEGylated Bi2S3 nano-urchins as a versatile platform for in vivo triple-modal imaging, photothermal therapy and drug delivery. <i>Nanoscale</i> , 2016 , 8, 16005-16	7.7	76

66	Chitosan/siRNA nanoparticles biofunctionalize nerve implants and enable neurite outgrowth. <i>Nano Letters</i> , 2010 , 10, 3933-9	11.5	76
65	siRNA nanoparticle functionalization of nanostructured scaffolds enables controlled multilineage differentiation of stem cells. <i>Molecular Therapy</i> , 2010 , 18, 2018-27	11.7	76
64	Pulmonary gene silencing in transgenic EGFP mice using aerosolised chitosan/siRNA nanoparticles. <i>Pharmaceutical Research</i> , 2010 , 27, 2520-7	4.5	72
63	Pellet-free isolation of human and bovine milk extracellular vesicles by size-exclusion chromatography. <i>Journal of Extracellular Vesicles</i> , 2017 , 6, 1294340	16.4	71
62	Tumour exosomes display differential mechanical and complement activation properties dependent on malignant state: implications in endothelial leakiness. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 29685	16.4	69
61	Spatial mapping and quantification of soft and hard protein coronas at silver nanocubes. <i>Nano Letters</i> , 2014 , 14, 2086-93	11.5	65
60	Accumulation of magnetic iron oxide nanoparticles coated with variably sized polyethylene glycol in murine tumors. <i>Nanoscale</i> , 2012 , 4, 2352-61	7.7	54
59	Protection and Systemic Translocation of siRNA Following Oral Administration of Chitosan/siRNA Nanoparticles. <i>Molecular Therapy - Nucleic Acids</i> , 2013 , 2, e76	10.7	52
58	Intracellular bacteria engage a STING-TBK1-MVB12b pathway to enable paracrine cGAS-STING signalling. <i>Nature Microbiology</i> , 2019 , 4, 701-713	26.6	50
57	Intraperitoneal administration of chitosan/DsiRNA nanoparticles targeting TNF α prevents radiation-induced fibrosis. <i>Radiotherapy and Oncology</i> , 2010 , 97, 143-8	5.3	48
56	Surface functionalisation of PLGA nanoparticles for gene silencing. <i>Biomaterials</i> , 2010 , 31, 5671-7	15.6	48
55	Nanocarrier stimuli-activated gene delivery. <i>Small</i> , 2007 , 3, 54-7	11	47
54	Bioresponsive hyperbranched polymers for siRNA and miRNA delivery. <i>Journal of Drug Targeting</i> , 2010 , 18, 812-20	5.4	41
53	Intracellular siRNA and precursor miRNA trafficking using bioresponsive copolypeptides. <i>Journal of Gene Medicine</i> , 2008 , 10, 81-93	3.5	41
52	Direct force measurements between siRNA and chitosan molecules using force spectroscopy. <i>Biophysical Journal</i> , 2007 , 93, 952-9	2.9	41
51	Ultraporous interweaving electrospun microfibers from PCL-PEO binary blends and their inflammatory responses. <i>Nanoscale</i> , 2014 , 6, 3392-402	7.7	39
50	Direct demonstration of a neonatal Fc receptor (FcRn)-driven endosomal sorting pathway for cellular recycling of albumin. <i>Journal of Biological Chemistry</i> , 2017 , 292, 13312-13322	5.4	39
49	Polycation-based nanoparticle delivery for improved RNA interference therapeutics. <i>Expert Opinion on Biological Therapy</i> , 2007 , 7, 1811-22	5.4	39

48	Human-Serum-Albumin-Coated Prussian Blue Nanoparticles as pH-/Thermotriggered Drug-Delivery Vehicles for Cancer Thermochemotherapy. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 53-62 ^{3,1}		36
47	A hyaluronic acid-based hydrogel enabling CD44-mediated chondrocyte binding and gapmer oligonucleotide release for modulation of gene expression in osteoarthritis. <i>Journal of Controlled Release</i> , 2017 , 253, 153-159	11.7	35
46	Generation of a double transgenic humanized neonatal Fc receptor (FcRn)/albumin mouse to study the pharmacokinetics of albumin-linked drugs. <i>Journal of Controlled Release</i> , 2016 , 223, 22-30	11.7	28
45	Protection against bubonic and pneumonic plague with a single dose microencapsulated sub-unit vaccine. <i>Vaccine</i> , 2006 , 24, 4433-9	4.1	28
44	Fatty Acid-Modified Gapmer Antisense Oligonucleotide and Serum Albumin Constructs for Pharmacokinetic Modulation. <i>Molecular Therapy</i> , 2017 , 25, 1710-1717	11.7	26
43	Synthesis of click-reactive HPMA copolymers using RAFT polymerization for drug delivery applications. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 5091-5099	2.5	25
42	An albumin-mediated cholesterol design-based strategy for tuning siRNA pharmacokinetics and gene silencing. <i>Journal of Controlled Release</i> , 2016 , 232, 143-51	11.7	25
41	Physicochemical and biological characterisation of an antisense oligonucleotide targeted against the bcl-2 mRNA complexed with cationic-hydrophilic copolymers. <i>European Journal of Pharmaceutical Sciences</i> , 2000 , 10, 169-77	5.1	24
40	Fibrin-hyaluronic acid hydrogel-based delivery of antisense oligonucleotides for ADAMTS5 inhibition in co-delivered and resident joint cells in osteoarthritis. <i>Journal of Controlled Release</i> , 2019 , 294, 247-258	11.7	23
39	Polycation-based nanoparticles for RNAi-mediated cancer treatment. <i>Cancer Letters</i> , 2014 , 352, 66-80	9.9	20
38	Hyaluronic Acid Molecular Weight-Dependent Modulation of Mucin Nanostructure for Potential Mucosal Therapeutic Applications. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2359-2367	5.6	19
37	Chitosan-based nanoparticles for mucosal delivery of RNAi therapeutics. <i>Advances in Genetics</i> , 2014 , 88, 325-52	3.3	19
36	Regulation of Gdf5 expression in joint remodelling, repair and osteoarthritis. <i>Scientific Reports</i> , 2020 , 10, 157	4.9	18
35	Cell type and transfection reagent-dependent effects on viability, cell content, cell cycle and inflammation of RNAi in human primary mesenchymal cells. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 53, 35-44	5.1	18
34	Tunable CD44-specific cellular retargeting with hyaluronic acid nanoshells. <i>Pharmaceutical Research</i> , 2015 , 32, 1462-74	4.5	18
33	Peritoneal macrophages mediated delivery of chitosan/siRNA nanoparticle to the lesion site in a murine radiation-induced fibrosis model. <i>Acta Oncologica</i> , 2013 , 52, 1730-8	3.2	17
32	Cellular recycling-driven in vivo half-life extension using recombinant albumin fusions tuned for neonatal Fc receptor (FcRn) engagement. <i>Journal of Controlled Release</i> , 2018 , 287, 132-141	11.7	17
31	Neonatal Fc Receptor Binding Tolerance toward the Covalent Conjugation of Payloads to Cysteine 34 of Human Albumin Variants. <i>Molecular Pharmaceutics</i> , 2016 , 13, 677-82	5.6	16

30	The Immunomodulatory Drug Glatiramer Acetate is Also an Effective Antimicrobial Agent that Kills Gram-negative Bacteria. <i>Scientific Reports</i> , 2017 , 7, 15653	4.9	15
29	An Albumin-Oligonucleotide Assembly for Potential Combinatorial Drug Delivery and Half-Life Extension Applications. <i>Molecular Therapy - Nucleic Acids</i> , 2017 , 9, 284-293	10.7	15
28	Albumin-based drug delivery using cysteine 34 chemical conjugates - important considerations and requirements. <i>Therapeutic Delivery</i> , 2017 , 8, 511-519	3.8	15
27	Albumin-based drug designs for pharmacokinetic modulation. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2020 , 16, 783-795	5.5	15
26	Site-selective conjugation of an anticoagulant aptamer to recombinant albumins and maintenance of neonatal Fc receptor binding. <i>Nanotechnology</i> , 2017 , 28, 204004	3.4	14
25	Independent Validation of a Diagnostic Noninvasive 3-MicroRNA Ratio Model () for Prostate Cancer in Cell-Free Urine. <i>Clinical Chemistry</i> , 2019 , 65, 540-548	5.5	14
24	Size-Selective Phagocytic Clearance of Fibrillar β Synuclein through Conformational Activation of Complement Receptor 4. <i>Journal of Immunology</i> , 2020 , 204, 1345-1361	5.3	13
23	Formulation of a microparticle carrier for oral polyplex-based DNA vaccines. <i>Journal of Financial Economics</i> , 2004 , 1674, 149-57	6.6	12
22	FcRn overexpression in human cancer drives albumin recycling and cell growth; a mechanistic basis for exploitation in targeted albumin-drug designs. <i>Journal of Controlled Release</i> , 2020 , 322, 53-63	11.7	11
21	The random co-polymer glatiramer acetate rapidly kills primary human leukocytes through sialic-acid-dependent cell membrane damage. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 425-437	3.8	10
20	A new class of recombinant human albumin with multiple surface thiols exhibits stable conjugation and enhanced FcRn binding and blood circulation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 3735-3743	5.4	9
19	Mucin-mediated nanocarrier disassembly for triggered uptake of oligonucleotides as a delivery strategy for the potential treatment of mucosal tumours. <i>Nanoscale</i> , 2016 , 8, 12599-607	7.7	9
18	Optimised approach to albumin-drug conjugates using monobromomaleimide-C-2 linkers. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 7870-7873	3.9	9
17	Surface analysis of PEGylated nano-shields on nanoparticles installed by hydrophobic anchors. <i>Pharmaceutical Research</i> , 2013 , 30, 1758-67	4.5	9
16	The application of RNAi-based treatments for inflammatory bowel disease. <i>Drug Delivery and Translational Research</i> , 2014 , 4, 4-18	6.2	9
15	Mucus barrier-triggered disassembly of siRNA nanocarriers. <i>Nanoscale</i> , 2014 , 6, 12547-54	7.7	8
14	Programmable half-life and anti-tumour effects of bispecific T-cell engager-albumin fusions with tuned FcRn affinity. <i>Communications Biology</i> , 2021 , 4, 310	6.7	8
13	Oligonucleotide delivery to the lung: waiting to inhale. <i>Molecular Therapy - Nucleic Acids</i> , 2012 , 1, e1	10.7	7

12	Clinical translation of RNAi-based treatments for respiratory diseases. <i>Drug Delivery and Translational Research</i> , 2013 , 3, 84-99	6.2	5
11	Roadmap on nanomedicine. <i>Nanotechnology</i> , 2021 , 32, 012001	3.4	5
10	Nanomedicine: Working Towards Defining the Field. <i>Advances in Delivery Science and Technology</i> , 2016 , 1-12		3
9	Visualization of thermally activated nanocarriers using in situ atomic force microscopy. <i>Nanotechnology</i> , 2007 , 18, 185501	3.4	3
8	Palmitoylated phosphodiester gapmer designs with albumin binding capacity and maintained in vitro gene silencing activity. <i>Journal of Gene Medicine</i> , 2018 , 20, e3025	3.5	3
7	RNA interference-based therapeutics and diagnostics. <i>Drug Delivery and Translational Research</i> , 2014 , 4, 1-2	6.2	2
6	Extended blood circulation and joint accumulation of a p(HPMA-co-AzMA)-based nanoconjugate in a murine model of rheumatoid arthritis. <i>Molecular and Cellular Therapies</i> , 2014 , 2, 29		2
5	Chip-Free Microscale-Incubator-Based Synthesis of Chitosan-Based Gene Silencing Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 279-285	3.1	1
4	Targeting the IL-6-Yap-Snail signalling axis in synovial fibroblasts ameliorates inflammatory arthritis. <i>Annals of the Rheumatic Diseases</i> , 2021 ,	2.4	1
3	Albumin-Binding Fatty Acid-Modified Gapmer Antisense Oligonucleotides for Modulation of Pharmacokinetics. <i>Methods in Molecular Biology</i> , 2020 , 2176, 163-174	1.4	1
2	Mucosal Delivery of RNAi Therapeutics. <i>Advances in Delivery Science and Technology</i> , 2013 , 97-125		0
1	FcRn expression in cancer: Mechanistic basis and therapeutic opportunities. <i>Journal of Controlled Release</i> , 2021 , 337, 248-257	11.7	0