

Hasan Uludag

List of Publications by Year in descending order

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219
papers

9,240
citations

31902

53
h-index

58464

82
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221
all docs

221
docs citations

221
times ranked

10669
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology of mammalian cell encapsulation. <i>Advanced Drug Delivery Reviews</i> , 2000, 42, 29-64.	6.6	565
2	Current state of fabrication technologies and materials for bone tissue engineering. <i>Acta Biomaterialia</i> , 2018, 80, 1-30.	4.1	387
3	Nanofibers as new-generation materials: From spinning and nano-spinning fabrication techniques to emerging applications. <i>Applied Materials Today</i> , 2019, 17, 1-35.	2.3	296
4	Characterization of rhBMP-2 pharmacokinetics implanted with biomaterial carriers in the rat ectopic model. , 1999, 46, 193-202.		238
5	“Magic bullets”™ for bone diseases: progress in rational design of bone-seeking medicinal agents. <i>Chemical Society Reviews</i> , 2007, 36, 507-531.	18.7	214
6	Implantation of recombinant human bone morphogenetic proteins with biomaterial carriers: A correlation between protein pharmacokinetics and osteoinduction in the rat ectopic model. , 2000, 50, 227-238.		174
7	Carrier Systems for Bone Morphogenetic Proteins. <i>Clinical Orthopaedics and Related Research</i> , 1999, 367, S95-S106.	0.7	166
8	Nanoparticulate Systems for Growth Factor Delivery. <i>Pharmaceutical Research</i> , 2009, 26, 1561-1580.	1.7	157
9	Biodegradable amphiphilic poly(ethylene oxide)-block-polyesters with grafted polyamines as supramolecular nanocarriers for efficient siRNA delivery. <i>Biomaterials</i> , 2009, 30, 242-253.	5.7	156
10	A review of nanostructured surfaces and materials for dental implants: surface coating, patterning and functionalization for improved performance. <i>Biomaterials Science</i> , 2018, 6, 1312-1338.	2.6	149
11	Formulation and Delivery of siRNA by Oleic Acid and Stearic Acid Modified Polyethylenimine. <i>Molecular Pharmaceutics</i> , 2009, 6, 121-133.	2.3	132
12	Molecular Dynamics Simulations of DNA/PEI Complexes: Effect of PEI Branching and Protonation State. <i>Biophysical Journal</i> , 2011, 100, 2754-2763.	0.2	127
13	Aliphatic Lipid Substitution on 2 kDa Polyethylenimine Improves Plasmid Delivery and Transgene Expression. <i>Molecular Pharmaceutics</i> , 2009, 6, 1798-1815.	2.3	124
14	Supramolecular assemblies in functional siRNA delivery: Where do we stand?. <i>Biomaterials</i> , 2012, 33, 2546-2569.	5.7	121
15	Bisphosphonates as a Foundation of Drug Delivery to Bone. <i>Current Pharmaceutical Design</i> , 2002, 8, 1929-1944.	0.9	113
16	The induction of tumor apoptosis in B16 melanoma following STAT3 siRNA delivery with a lipid-substituted polyethylenimine. <i>Biomaterials</i> , 2010, 31, 1420-1428.	5.7	110
17	Conjugation of Arginine-Glycine-Aspartic Acid Peptides to Poly(ethylene oxide)-b-poly(ϵ -caprolactone) Micelles for Enhanced Intracellular Drug Delivery to Metastatic Tumor Cells. <i>Biomacromolecules</i> , 2007, 8, 874-884.	2.6	107
18	Multifunctional Polymeric Micelles for Enhanced Intracellular Delivery of Doxorubicin to Metastatic Cancer Cells. <i>Pharmaceutical Research</i> , 2008, 25, 2555-2566.	1.7	106

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19	Recent developments in nanoparticle-based drug delivery and targeting systems with emphasis on protein-based nanoparticles. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 499-515.	2.4	98
20	A comparison of the effectiveness of cationic polymers poly-L-lysine (PLL) and polyethylenimine (PEI) for non-viral delivery of plasmid DNA to bone marrow stromal cells (BMSC). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 65, 388-397.	2.0	97
21	A simple and rapid nonviral approach to efficiently transfect primary tissue-derived cells using polyethylenimine. <i>Nature Protocols</i> , 2012, 7, 935-945.	5.5	97
22	Growth Factor Delivery for Bone Tissue Engineering. <i>Journal of Drug Targeting</i> , 2001, 9, 407-429.	2.1	93
23	A comparative evaluation of poly-L-lysine-palmitic acid and Lipofectamine 2000 for plasmid delivery to bone marrow stromal cells. <i>Biomaterials</i> , 2007, 28, 4693-4704.	5.7	93
24	Preparation of BMP-2 Containing Bovine Serum Albumin (BSA) Nanoparticles Stabilized by Polymer Coating. <i>Pharmaceutical Research</i> , 2008, 25, 2896-2909.	1.7	90
25	Polyethylenimine-PEG coated albumin nanoparticles for BMP-2 delivery. <i>Biomaterials</i> , 2010, 31, 952-963.	5.7	90
26	Virus-mimetic polymeric micelles for targeted siRNA delivery. <i>Biomaterials</i> , 2010, 31, 5886-5893.	5.7	87
27	STAT3 Silencing in Dendritic Cells by siRNA Polyplexes Encapsulated in PLGA Nanoparticles for the Modulation of Anticancer Immune Response. <i>Molecular Pharmaceutics</i> , 2010, 7, 1643-1654.	2.3	86
28	Delivery Systems for BMPs: Factors Contributing to Protein Retention at an Application Site. <i>Journal of Bone and Joint Surgery - Series A</i> , 2001, 83, S1-128-S1-135.	1.4	85
29	Polyethylenimine-coated albumin nanoparticles for BMP-2 delivery. <i>Biotechnology Progress</i> , 2008, 24, 945-956.	1.3	83
30	Lipid and hydrophobic modification of cationic carriers on route to superior gene vectors. <i>Soft Matter</i> , 2010, 6, 2124.	1.2	82
31	Impact of Lipid Substitution on Assembly and Delivery of siRNA by Cationic Polymers. <i>Macromolecular Bioscience</i> , 2011, 11, 662-672.	2.1	77
32	Microencapsulated human hepatoma (HepG2) cells: In vitro growth and protein release. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 1213-1224.	3.0	74
33	Thermodynamics of Polyethylenimine-DNA Binding and DNA Condensation. <i>Biophysical Journal</i> , 2010, 99, 201-207.	0.2	74
34	rhBMP-Collagen Sponges as Osteoinductive Devices: Effects of in Vitro Sponge Characteristics and Protein pl on in Vivo rhBMP Pharmacokinetics. <i>Annals of the New York Academy of Sciences</i> , 1999, 875, 369-378.	1.8	73
35	Growth factor delivery for bone tissue repair: an update. <i>Expert Opinion on Drug Delivery</i> , 2004, 1, 19-36.	2.4	70
36	Prospects for RNAi Therapy of COVID-19. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 916.	2.0	69

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37	Establishing an Immortalized Human Osteoprecursor Cell Line: OPC1. <i>Journal of Bone and Mineral Research</i> , 1999, 14, 1721-1733.	3.1	67
38	Engineering temperature-sensitive poly(N-isopropylacrylamide) polymers as carriers of therapeutic proteins. <i>Biotechnology and Bioengineering</i> , 2001, 73, 510-521.	1.7	65
39	Cellular uptake pathways of lipid-modified cationic polymers in gene delivery to primary cells. <i>Biomaterials</i> , 2012, 33, 7834-7848.	5.7	65
40	Specific effects of PEGylation on gene delivery efficacy of polyethylenimine: Interplay between PEG substitution and N/P ratio. <i>Acta Biomaterialia</i> , 2012, 8, 3941-3955.	4.1	63
41	Poly-L-lysine-coated albumin nanoparticles: Stability, mechanism for increasing in vitro enzymatic resilience, and siRNA release characteristics. <i>Acta Biomaterialia</i> , 2010, 6, 4277-4284.	4.1	62
42	Designing proteins for bone targeting. <i>Advanced Drug Delivery Reviews</i> , 2005, 57, 1011-1036.	6.6	61
43	Induction of Apoptosis by Survivin Silencing through siRNA Delivery in a Human Breast Cancer Cell Line. <i>Molecular Pharmaceutics</i> , 2011, 8, 1821-1830.	2.3	61
44	Noggin suppression decreases BMP-2-induced osteogenesis of human bone marrow-derived mesenchymal stem cells <i>In Vitro</i> . <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3672-3680.	1.2	61
45	Bisphosphonate-decorated lipid nanoparticles designed as drug carriers for bone diseases. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 684-693.	2.1	61
46	Palmitic acid substitution on cationic polymers for effective delivery of plasmid DNA to bone marrow stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 493-504.	2.1	60
47	Colorimetric assay for cellular activity in microcapsules. <i>Biomaterials</i> , 1990, 11, 708-712.	5.7	59
48	Bisphosphonate Conjugation to Proteins as a Means To Impart Bone Affinity. <i>Biotechnology Progress</i> , 2000, 16, 258-267.	1.3	59
49	Bisphosphonate-Derivatized Liposomes to Control Drug Release from Collagen/Hydroxyapatite Scaffolds. <i>Molecular Pharmaceutics</i> , 2011, 8, 1025-1034.	2.3	59
50	Targeting Systemically Administered Proteins to Bone by Bisphosphonate Conjugation. <i>Biotechnology Progress</i> , 2002, 18, 604-611.	1.3	58
51	Recent attempts at RNA-mediated P-glycoprotein downregulation for reversal of multidrug resistance in cancer. <i>Medicinal Research Reviews</i> , 2013, 33, 33-53.	5.0	58
52	Effects of size and topology of DNA molecules on intracellular delivery with non-viral gene carriers. <i>BMC Biotechnology</i> , 2008, 8, 23.	1.7	57
53	Effective response of doxorubicin-sensitive and -resistant breast cancer cells to combinational siRNA therapy. <i>Journal of Controlled Release</i> , 2013, 172, 219-228.	4.8	56
54	RGD-grafted thermoreversible polymers to facilitate attachment of BMP-2 responsive C2C12 cells. <i>Biomaterials</i> , 2005, 26, 7329-7338.	5.7	55

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55	In Vitro Osteogenic Response of Rat Bone Marrow Cells to bFGF and BMP-2 Treatments. <i>Clinical Orthopaedics and Related Research</i> , 2006, 443, 113-123.	0.7	55
56	Osteogenic Differentiation of Human Mesenchymal Stem Cells Cultured with Dexamethasone, Vitamin D3, Basic Fibroblast Growth Factor, and Bone Morphogenetic Protein-2. <i>Connective Tissue Research</i> , 2012, 53, 117-131.	1.1	52
57	Pharmacokinetics and bone formation by BMP-2 entrapped in polyethylenimine-coated albumin nanoparticles. <i>Biomaterials</i> , 2009, 30, 5143-5155.	5.7	51
58	Lipid substitution on low molecular weight (0.6–2.0 kDa) polyethylenimine leads to a higher zeta potential of plasmid DNA and enhances transgene expression. <i>Acta Biomaterialia</i> , 2011, 7, 2209-2217.	4.1	51
59	Orthodontic Tooth Movement in Alveolar Cleft Repaired with a Tissue Engineering Bone: An Experimental Study in Dogs. <i>Tissue Engineering - Part A</i> , 2011, 17, 1313-1325.	1.6	50
60	Anabolic effects of low-intensity pulsed ultrasound on human gingival fibroblasts. <i>Archives of Oral Biology</i> , 2009, 54, 743-748.	0.8	48
61	Improved Bone Delivery of Osteoprotegerin by Bisphosphonate Conjugation in a Rat Model of Osteoarthritis. <i>Molecular Pharmaceutics</i> , 2009, 6, 634-640.	2.3	48
62	Investigating siRNA delivery to chronic myeloid leukemia K562 cells with lipophilic polymers for therapeutic BCR-ABL down-regulation. <i>Journal of Controlled Release</i> , 2013, 172, 495-503.	4.8	48
63	Systematic evaluation of a tissue-engineered bone for maxillary sinus augmentation in large animal canine model. <i>Bone</i> , 2010, 46, 91-100.	1.4	45
64	Bone Regeneration with Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Using Absorbable Collagen Sponges (ACS): Influence of Processing on ACS Characteristics and Formulation. <i>Pharmaceutical Development and Technology</i> , 1999, 4, 387-396.	1.1	44
65	Viability and protein secretion from human Hepatoma (HepG2) cells encapsulated in 400- μ m polyacrylate microcapsules by submerged nozzle-liquid jet extrusion. <i>Biotechnology and Bioengineering</i> , 1994, 44, 1199-1204.	1.7	43
66	A Dendritic Tetra(bisphosphonic acid) for Improved Targeting of Proteins to Bone. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3710-3714.	7.2	43
67	A comparison of mineral affinity of bisphosphonate–protein conjugates constructed with disulfide and thioether linkages. <i>Biomaterials</i> , 2006, 27, 769-784.	5.7	43
68	At the Intersection of Biomaterials and Gene Therapy: Progress in Non-viral Delivery of Nucleic Acids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 131.	2.0	43
69	Further Investigation of Lipid-Substituted Poly(L-Lysine) Polymers for Transfection of Human Skin Fibroblasts. <i>Biomacromolecules</i> , 2008, 9, 1618-1630.	2.6	42
70	Nucleic-acid based gene therapeutics: delivery challenges and modular design of nonviral gene carriers and expression cassettes to overcome intracellular barriers for sustained targeted expression. <i>Journal of Drug Targeting</i> , 2012, 20, 301-328.	2.1	42
71	Effective Non-Viral Delivery of siRNA to Acute Myeloid Leukemia Cells with Lipid-Substituted Polyethylenimines. <i>PLoS ONE</i> , 2012, 7, e44197.	1.1	42
72	Molecular Dynamics Simulations for Complexation of DNA with 2 kDa PEI Reveal Profound Effect of PEI Architecture on Complexation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2405-2413.	1.2	41

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73	A molecular dynamics simulation study on the effect of lipid substitution on polyethylenimine mediated siRNA complexation. <i>Biomaterials</i> , 2013, 34, 2822-2833.	5.7	41
74	Polymeric delivery of siRNA for dual silencing of Mcl-1 and P-glycoprotein and apoptosis induction in drug-resistant breast cancer cells. <i>Cancer Gene Therapy</i> , 2013, 20, 169-177.	2.2	40
75	Polymeric nanoparticle-mediated silencing of CD44 receptor in CD34+ acute myeloid leukemia cells. <i>Leukemia Research</i> , 2014, 38, 1299-1308.	0.4	40
76	TRAIL therapy and prospective developments for cancer treatment. <i>Journal of Controlled Release</i> , 2020, 326, 335-349.	4.8	39
77	Molecular Dynamics Simulations of PEI Mediated DNA Aggregation. <i>Biomacromolecules</i> , 2011, 12, 3698-3707.	2.6	38
78	Targeting CXCR4/SDF-1 axis by lipopolymer complexes of siRNA in acute myeloid leukemia. <i>Journal of Controlled Release</i> , 2016, 224, 8-21.	4.8	38
79	STAT3 Knockdown in B16 Melanoma by siRNA Lipopolyplexes Induces Bystander Immune Response In Vitro and In Vivo. <i>Translational Oncology</i> , 2011, 4, 178-188.	1.7	37
80	Bone Affinity of a Bisphosphonate-Conjugated Protein in Vivo. <i>Biotechnology Progress</i> , 2000, 16, 1115-1118.	1.3	36
81	RGD Conjugation to Polyethylenimine Does Not Improve DNA Delivery to Bone Marrow Stromal Cells. <i>Biomacromolecules</i> , 2006, 7, 1481-1488.	2.6	36
82	Osteogenic Response of Bone Marrow Stromal Cells from Normal and Ovariectomized Rats Treated with a Low Dose of Basic Fibroblast Growth Factor. <i>Tissue Engineering</i> , 2007, 13, 809-817.	4.9	36
83	Relationship between the Extent of Lipid Substitution on Poly(L-lysine) and the DNA Delivery Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 841-848.	4.0	36
84	Improved transfection efficiency of an aliphatic lipid substituted 2 kDa polyethylenimine is attributed to enhanced nuclear association and uptake in rat bone marrow stromal cell. <i>Journal of Gene Medicine</i> , 2011, 13, 46-59.	1.4	36
85	Molecular modeling of polynucleotide complexes. <i>Biomaterials</i> , 2014, 35, 7068-7076.	5.7	36
86	Immune cell proliferation is suppressed by the interferon- γ -induced indoleamine 2,3-dioxygenase expression of fibroblasts populated in collagen gel (FPCG). <i>Journal of Cellular Biochemistry</i> , 2003, 90, 206-217.	1.2	35
87	Cationic polymer-mediated small interfering RNA delivery for P-glycoprotein down-regulation in tumor cells. <i>Cancer</i> , 2010, 116, 5544-5554.	2.0	35
88	Palmitic Acid-Modified Poly-L-Lysine for Non-Viral Delivery of Plasmid DNA to Skin Fibroblasts. <i>Biomacromolecules</i> , 2007, 8, 1059-1063.	2.6	33
89	Effective down-regulation of Breast Cancer Resistance Protein (BCRP) by siRNA delivery using lipid-substituted aliphatic polymers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 33-42.	2.0	33
90	Protein expression following non-viral delivery of plasmid DNA coding for basic FGF and BMP-2 in a rat ectopic model. <i>Biomaterials</i> , 2012, 33, 3363-3374.	5.7	33

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91	In Vitro Osteogenic Induction Of Human Gingival Fibroblasts For Bone Regeneration. Open Dentistry Journal, 2011, 5, 139-145.	0.2	32
92	Proliferation of peripheral blood mononuclear cells is suppressed by the indoleamine 2,3-dioxygenase expression of interferon- β -treated skin cells in a co-culture system. Wound Repair and Regeneration, 2003, 11, 337-345.	1.5	31
93	Progress in RNAi-mediated Molecular Therapy of Acute and Chronic Myeloid Leukemia. Molecular Therapy - Nucleic Acids, 2015, 4, e240.	2.3	31
94	Combinational siRNA delivery using hyaluronic acid modified amphiphilic polyplexes against cell cycle and phosphatase proteins to inhibit growth and migration of triple-negative breast cancer cells. Acta Biomaterialia, 2018, 66, 294-309.	4.1	31
95	Metabolic activity of CHO fibroblasts in HEMA-MMA microcapsules. Biotechnology and Bioengineering, 1992, 39, 672-678.	1.7	30
96	Metabolic Activity and Proliferation of Cho Cells in Hydroxyethyl Methacrylate-Methyl Methacrylate (Hema-Mma) Microcapsules. Cell Transplantation, 1993, 2, 175-182.	1.2	29
97	Mouse Pancreatic Islets Are Resistant to Indoleamine 2,3 Dioxygenase-Induced General Control Nonderepressible-2 Kinase Stress Pathway and Maintain Normal Viability and Function. American Journal of Pathology, 2009, 174, 196-205.	1.9	29
98	Bone Morphogenetic Protein Binding Peptide Mechanism and Enhancement of Osteogenic Protein-1 Induced Bone Healing. Spine, 2010, 35, 2049-2056.	1.0	28
99	Bisphosphonate-coated BSA nanoparticles lack bone targeting after systemic administration. Journal of Drug Targeting, 2010, 18, 611-626.	2.1	28
100	Additive nanocomplexes of cationic lipopolymers for improved non-viral gene delivery to mesenchymal stem cells. Journal of Materials Chemistry B, 2015, 3, 3972-3982.	2.9	28
101	Small hydrophobe substitution on polyethylenimine for plasmid DNA delivery: Optimal substitution is critical for effective delivery. Acta Biomaterialia, 2016, 33, 213-224.	4.1	28
102	The Interaction of Cationic Polymers and Their Bisphosphonate Derivatives with Hydroxyapatite. Macromolecular Bioscience, 2007, 7, 656-670.	2.1	27
103	Matrix forming characteristics of inner and outer human meniscus cells on 3D collagen scaffolds under normal and low oxygen tensions. BMC Musculoskeletal Disorders, 2013, 14, 353.	0.8	27
104	A Delicate Balance When Substituting a Small Hydrophobe onto Low Molecular Weight Polyethylenimine to Improve Its Nucleic Acid Delivery Efficiency. ACS Applied Materials & Interfaces, 2015, 7, 24822-24832.	4.0	27
105	Multiphasic Collagen Scaffolds for Engineered Tissue Interfaces. Advanced Functional Materials, 2018, 28, 1804730.	7.8	27
106	Current outlook on drug resistance in chronic myeloid leukemia (CML) and potential therapeutic options. Drug Discovery Today, 2019, 24, 1355-1369.	3.2	27
107	Conjugation of arginine-glycine-aspartic acid peptides to thermoreversible N-isopropylacrylamide polymers. Journal of Polymer Science Part A, 2003, 41, 3989-4000.	2.5	26
108	Imparting bone mineral affinity to osteogenic proteins through heparin-bisphosphonate conjugates. Journal of Controlled Release, 2004, 98, 255-268.	4.8	26

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109	Novel targets for sensitizing breast cancer cells to TRAIL-induced apoptosis with siRNA delivery. <i>International Journal of Cancer</i> , 2018, 142, 597-606.	2.3	26
110	Effect of molecular weight of thermoreversible polymer on in vivo retention of rhBMP-2. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 57, 92-100.	3.0	25
111	Synthetic Thermoreversible Polymers Are Compatible with Osteoinductive Activity of Recombinant Human Bone Morphogenetic Protein 2. <i>Tissue Engineering</i> , 2002, 8, 429-440.	4.9	24
112	A Comparative Evaluation of Disulfide-Linked and Hydrophobically-Modified PEI for Plasmid Delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 873-892.	1.9	24
113	Identification of Potential Drug Targets in Cancer Signaling Pathways using Stochastic Logical Models. <i>Scientific Reports</i> , 2016, 6, 23078.	1.6	24
114	Development of PEI-RANK siRNA Complex Loaded PLGA Nanocapsules for the Treatment of Osteoporosis. <i>Tissue Engineering - Part A</i> , 2019, 25, 34-43.	1.6	24
115	Imparting bone affinity to glycoproteins through the conjugation of bisphosphonates. <i>Pharmaceutical Research</i> , 2003, 20, 978-987.	1.7	23
116	Additive Polyplexes to Undertake siRNA Therapy against CDC20 and Survivin in Breast Cancer Cells. <i>Biomacromolecules</i> , 2018, 19, 4193-4206.	2.6	23
117	Imparting mineral affinity to proteins with thiol-labile disulfide linkages. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 618-628.	2.1	22
118	Synthesis, characterization and in vitro evaluation of a bone targeting delivery system for salmon Calcitonin. <i>International Journal of Pharmaceutics</i> , 2010, 394, 26-34.	2.6	22
119	BSA Nanoparticles for siRNA Delivery: Coating Effects on Nanoparticle Properties, Plasma Protein Adsorption, and In Vitro siRNA Delivery. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-10.	1.1	22
120	Effective down-regulation of signal transducer and activator of transcription 3 (STAT3) by polyplexes of siRNA and lipid-substituted polyethyleneimine for sensitization of breast tumor cells to conventional chemotherapy. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3216-3228.	2.1	22
121	Nucleic acid combinations: A new frontier for cancer treatment. <i>Journal of Controlled Release</i> , 2017, 256, 153-169.	4.8	22
122	siRNA-Mediated Down-Regulation of P-glycoprotein in a Xenograft Tumor Model in NOD-SCID Mice. <i>Pharmaceutical Research</i> , 2011, 28, 2516-2529.	1.7	21
123	Targeting Cell Cycle Proteins in Breast Cancer Cells with siRNA by Using Lipid-Substituted Polyethylenimines. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 14.	2.0	21
124	siRNA/lipopolymer nanoparticles to arrest growth of chronic myeloid leukemia cells in vitro and in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 130, 66-70.	2.0	21
125	Electrospun gelatin matrices with bioactive pDNA polyplexes. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 296-308.	3.6	21
126	An overview of the use of biomaterials, nanotechnology, and stem cells for detection and treatment of COVID-19: towards a framework to address future global pandemics. <i>Emergent Materials</i> , 2021, 4, 19-34.	3.2	21

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127	Advances in biology of acute lymphoblastic leukemia (ALL) and therapeutic implications. American Journal of Blood Research, 2018, 8, 29-56.	0.6	21
128	Impact of Tether Length on Bone Mineral Affinity of Protein-Bisphosphonate Conjugates. Pharmaceutical Research, 2004, 21, 608-616.	1.7	20
129	Multiple siRNA delivery against cell cycle and anti-apoptosis proteins using lipid-substituted polyethylenimine in triple-negative breast cancer and nonmalignant cells. Journal of Biomedical Materials Research - Part A, 2016, 104, 3031-3044.	2.1	20
130	A di(bisphosphonic acid) for protein coupling and targeting to bone. Journal of Pharmaceutical Sciences, 2004, 93, 2788-2799.	1.6	19
131	Probing the Effect of miRNA on siRNA-PEI Polyplexes. Journal of Physical Chemistry B, 2015, 119, 5475-5486.	1.2	19
132	Biomaterials for polynucleotide delivery to anchorage-independent cells. Journal of Materials Chemistry B, 2017, 5, 7238-7261.	2.9	18
133	<i>BCR-Abl</i> Silencing by siRNA: A Potent Approach to Sensitize Chronic Myeloid Leukemia Cells to Tyrosine Kinase Inhibitor Therapy. Stem Cells and Development, 2019, 28, 734-744.	1.1	18
134	Imparting Mineral Affinity to Fetuin by Bisphosphonate Conjugation: A Comparison of Three Bisphosphonate Conjugation Schemes. Molecular Pharmaceutics, 2005, 2, 392-406.	2.3	17
135	Probing the Effects of Lipid Substitution on Polycation Mediated DNA Aggregation: A Molecular Dynamics Simulations Study. Biomacromolecules, 2012, 13, 2982-2988.	2.6	17
136	Macrophages Inhibit Migration, Metabolic Activity and Osteogenic Differentiation of Human Mesenchymal Stem Cells in vitro. Cells Tissues Organs, 2012, 195, 473-483.	1.3	17
137	Single and Combinational siRNA Therapy of Cancer Cells: Probing Changes in Targeted and Nontargeted Mediators after siRNA Treatment. Molecular Pharmaceutics, 2016, 13, 4116-4128.	2.3	17
138	Construction of a PLGA based, targeted siRNA delivery system for treatment of osteoporosis. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1859-1873.	1.9	17
139	Cholesterol grafted cationic lipopolymers: Potential siRNA carriers for selective chronic myeloid leukemia therapy. Journal of Biomedical Materials Research - Part A, 2020, 108, 565-580.	2.1	17
140	A systematic comparison of lipopolymers for siRNA delivery to multiple breast cancer cell lines: In vitro studies. Acta Biomaterialia, 2020, 102, 351-366.	4.1	17
141	Temperature-sensitive polymer-conjugated IFN- γ induces the expression of IDO mRNA and activity by fibroblasts populated in collagen gel (FPCG). Journal of Cellular Physiology, 2004, 201, 146-154.	2.0	16
142	Realizing the potential of gene-based molecular therapies in bone repair. Journal of Bone and Mineral Research, 2013, 28, 2245-2262.	3.1	16
143	Polymeric micelles for <i>MCL-1</i> gene silencing in breast tumors following systemic administration. Nanomedicine, 2016, 11, 2319-2339.	1.7	16
144	Biomaterials to Facilitate Delivery of RNA Agents in Bone Regeneration and Repair. ACS Biomaterials Science and Engineering, 2017, 3, 1195-1206.	2.6	16

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145	Reactivity of temperature-sensitive, protein-conjugating polymers prepared by a photopolymerization process. <i>Journal of Applied Polymer Science</i> , 2000, 75, 583-592.	1.3	15
146	Cleavage of Disulfide-Linked Fetuin ² -Bisphosphonate Conjugates with Three Physiological Thiols. <i>Biomacromolecules</i> , 2005, 6, 2800-2808.	2.6	15
147	Effect of Nonviral Plasmid Delivered Basic Fibroblast Growth Factor and Low Intensity Pulsed Ultrasound on Mandibular Condylar Growth: A Preliminary Study. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	15
148	Fibronectin-modified surfaces for evaluating the influence of cell adhesion on sensitivity of leukemic cells to siRNA nanoparticles. <i>Nanomedicine</i> , 2016, 11, 1123-1138.	1.7	15
149	siRNA-mediated BCR-ABL silencing in primary chronic myeloid leukemia cells using lipopolymers. <i>Journal of Controlled Release</i> , 2019, 310, 141-154.	4.8	15
150	Microencapsulated human hepatoma (HepG2) cells: capsule-to-capsule variations in protein secretion and permeability. <i>Journal of Controlled Release</i> , 1995, 33, 273-283.	4.8	14
151	Effect of basic fibroblast growth factor in mouse embryonic stem cell culture and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 371-382.	1.3	14
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