Heebeom Koo

List of Publications by Year
in descending order

99 papers	8,942 citations	41258 49 h-index	39575 94 g-index
104 all docs	104 docs citations	104 times ranked	12718 citing authors

#	Article	IF	Citations
1	Multifunctional nanoparticles for multimodal imaging and theragnosis. Chemical Society Reviews, 2012, 41, 2656-2672.	18.7	1,258
2	Active Targeting Strategies Using Biological Ligands for Nanoparticle Drug Delivery Systems. Cancers, 2019, 11, 640.	1.7	441
3	In Vivo Targeted Delivery of Nanoparticles for Theranosis. Accounts of Chemical Research, 2011, 44, 1018-1028.	7.6	398
4	Self-assembled nanoparticles based on hyaluronic acid-ceramide (HA-CE) andÂPluronicÂ® for tumor-targeted delivery of docetaxel. Biomaterials, 2011, 32, 7181-7190.	5.7	283
5	Tumor-targeting hyaluronic acid nanoparticles for photodynamic imaging and therapy. Biomaterials, 2012, 33, 3980-3989.	5.7	268
6	Biomedical applications of copper-free click chemistry: in vitro, in vivo, and ex vivo. Chemical Science, 2019, 10, 7835-7851.	3.7	245
7	Polyethylene glycol-conjugated hyaluronic acid-ceramide self-assembled nanoparticles for targeted delivery of doxorubicin. Biomaterials, 2012, 33, 1190-1200.	5.7	237
8	Bioorthogonal Copperâ€Free Click Chemistry Inâ€...Vivo for Tumorâ€Targeted Delivery of Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 11836-11840.	7.2	235
9	Tumor-Targeting Peptide Conjugated pH-Responsive Micelles as a Potential Drug Carrier for Cancer Therapy. Bioconjugate Chemistry, 2010, 21, 208-213.	1.8	214
10	Comparative study of photosensitizer loaded and conjugated glycol chitosan nanoparticles for cancer therapy. Journal of Controlled Release, 2011, 152, 21-29.	4.8	206
11	Tumor-targeting multi-functional nanoparticles for theragnosis: New paradigm for cancer therapy. Advanced Drug Delivery Reviews, 2012, 64, 1447-1458.	6.6	197
12	Visualization of the Degradation of a Disulfide Polymer, Linear Poly(ethylenimine sulfide), for Gene Delivery. Bioconjugate Chemistry, 2007, 18, 13-18.	1.8	178
13	Photosensitizer-Conjugated Human Serum Albumin Nanoparticles for Effective Photodynamic Therapy. Theranostics, 2011, 1, 230-239.	4.6	174
14	In vivo tumor diagnosis and photodynamic therapy via tumoral pH-responsive polymeric micelles. Chemical Communications, 2010, 46, 5668.	2.2	173
15	Chemical Tumor-Targeting of Nanoparticles Based on Metabolic Glycoengineering and Click Chemistry. ACS Nano, 2014, 8, 2048-2063.	7.3	167
16	The movement of self-assembled amphiphilic polymeric nanoparticles in the vitreous and retina after intravitreal injection. Biomaterials, 2012, 33, 3485-3493.	5.7	163
17	Photonic hydrogel sensors. Biotechnology Advances, 2016, 34, 250-271.	6.0	157
18	Tumor-homing photosensitizer-conjugated glycol chitosan nanoparticles for synchronous photodynamic imaging and therapy based on cellular on/off system. Biomaterials, 2011, 32, 4021-4029.	5.7	155

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19	Hyaluronic Acidâ€“Gold Nanoparticle/Interferon Î± Complex for Targeted Treatment of Hepatitis C Virus Infection. ACS Nano, 2012, 6, 9522-9531.	7.3	149
20	Tumorâ€Homing Polyâ€siRNA/Glycol Chitosan Selfâ€Crossâ€Linked Nanoparticles for Systemic siRNA Delivery in Cancer Treatment. Angewandte Chemie - International Edition, 2012, 51, 7203-7207.	7.2	149
21	Real-time and non-invasive optical imaging of tumor-targeting glycol chitosan nanoparticles in various tumor models. Biomaterials, 2011, 32, 5252-5261.	5.7	133
22	Nanoprobes for biomedical imaging in living systems. Nano Today, 2011, 6, 204-220.	6.2	129
23	Cancer-targeted MDR-1 siRNA delivery using self-cross-linked glycol chitosan nanoparticles to overcome drug resistance. Journal of Controlled Release, 2015, 198, 1-9.	4.8	117
24	Tumorâ€Targeting Gold Particles for Dual Computed Tomography/Optical Cancer Imaging. Angewandte Chemie - International Edition, 2011, 50, 9348-9351.	7.2	116
25	Light-responsive nanomedicine for biophotonic imaging and targeted therapy. Advanced Drug Delivery Reviews, 2019, 138, 133-147.	6.6	106
26	Extracellular matrix remodeling in vivo for enhancing tumor-targeting efficiency of nanoparticle drug carriers using the pulsed high intensity focused ultrasound. Journal of Controlled Release, 2017, 263, 68-78.	4.8	104
27	Photo-crosslinked hyaluronic acid nanoparticles with improved stability for inÂvivo tumor-targeted drug delivery. Biomaterials, 2013, 34, 5273-5280.	5.7	95
28	Matrix Metalloproteinase Sensitive Gold Nanorod for Simultaneous Bioimaging and Photothermal Therapy of Cancer. Bioconjugate Chemistry, 2010, 21, 2173-2177.	1.8	92
29	Effect of the stability and deformability of self-assembled glycol chitosan nanoparticles on tumor-targeting efficiency. Journal of Controlled Release, 2012, 163, 2-9.	4.8	89
30	Enhanced drug-loading and therapeutic efficacy of hydrotropic oligomer-conjugated glycol chitosan nanoparticles for tumor-targeted paclitaxel delivery. Journal of Controlled Release, 2013, 172, 823-831.	4.8	88
31	Poly(ethylene oxide sulfide):Â New Poly(ethylene glycol) Derivatives Degradable in Reductive Conditions. Biomacromolecules, 2005, 6, 24-26.	2.6	87
32	Application of click chemistry in nanoparticle modification and its targeted delivery. Biomaterials Research, 2018, 22, 13.	3.2	85
33	Recent advances in nanoparticle carriers for photodynamic therapy. Quantitative Imaging in Medicine and Surgery, 2018, 8, 433-443.	1.1	85
34	Cathepsinâ€…Bâ€Specific Metabolic Precursor for Inâ€…Vivo Tumorâ€Specific Fluorescence Imaging. Angewandte Chemie - International Edition, 2016, 55, 14698-14703.	7.2	81
35	Inorganic Nanoparticles for Image-Guided Therapy. Bioconjugate Chemistry, 2017, 28, 124-134.	1.8	77
36	Molecular imaging based on metabolic glycoengineering and bioorthogonal click chemistry. Biomaterials, 2017, 132, 28-36.	5.7	75

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37	Overcoming the obstacles of current photodynamic therapy in tumors using nanoparticles. Bioactive Materials, 2022, 8, 20-34.	8.6	73
38	Optical Imaging of Cancer-Related Proteases Using Near-Infrared Fluorescence Matrix Metalloproteinase-Sensitive and Cathepsin B-Sensitive Probes. Theranostics, 2012, 2, 179-189.	4.6	69
39	Hyaluronic acid-ceramide-based optical/MR dual imaging nanoprobe for cancer diagnosis. Journal of Controlled Release, 2012, 162, 111-118.	4.8	67
40	Biodegradable branched poly(ethylenimine sulfide) for gene delivery. Biomaterials, 2010, 31, 988-997.	5.7	62
41	Caspase Sensitive Gold Nanoparticle for Apoptosis Imaging in Live Cells. Bioconjugate Chemistry, 2010, 21, 1939-1942.	1.8	62
42	InÂvivo stem cell tracking with imageable nanoparticles that bind bioorthogonal chemical receptors on the stem cell surface. Biomaterials, 2017, 139, 12-29.	5.7	62
43	Optimized phospholipid-based nanoparticles for inner ear drug delivery and therapy. Biomaterials, 2018, 171, 133-143.	5.7	59
44	Novel lower critical solution temperature phase transition materials effectively control osmosis by mild temperature changes. Chemical Communications, 2012, 48, 3845.	2.2	58
45	Copperâ€Free Click Chemistry: Applications in Drug Delivery, Cell Tracking, and Tissue Engineering. Advanced Materials, 2022, 34, e2107192.	11.1	58
46	Cell Labeling and Tracking Method without Distorted Signals by Phagocytosis of Macrophages. Theranostics, 2014, 4, 420-431.	4.6	57
47	Folate-modified PLGA nanoparticles for tumor-targeted delivery of pheophorbide a inÂvivo. Biochemical and Biophysical Research Communications, 2018, 498, 523-528.	1.0	56
48	pHâ€Sensitive Nanoflash for Tumoral Acidic pH Imaging in Live Animals. Small, 2010, 6, 2539-2544.	5.2	53
49	Real Time, High Resolution Video Imaging of Apoptosis in Single Cells with a Polymeric Nanoprobe. Bioconjugate Chemistry, 2011, 22, 125-131.	1.8	51
50	Nano-sized metabolic precursors for heterogeneous tumor-targeting strategy using bioorthogonal click chemistry inÂvivo. Biomaterials, 2017, 148, 1-15.	5.7	51
51	Early diagnosis of arthritis in mice with collagen-induced arthritis, using a fluorogenic matrix metalloproteinase 3-specific polymeric probe. Arthritis and Rheumatism, 2011, 63, 3824-3832.	6.7	50
52	Polysaccharide-based Nanoparticles for Gene Delivery. Topics in Current Chemistry, 2017, 375, 31.	3.0	49
53	Bioorthogonal Click Chemistry-Based Synthetic Cell Glue. Small, 2015, 11, 6458-6466.	5.2	47
54	A new biodegradable crosslinked polyethylene oxide sulfide (PEOS) hydrogel for controlled drug release. International Journal of Pharmaceutics, 2009, 374, 58-65.	2.6	42

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55	Artificial Chemical Reporter Targeting Strategy Using Bioorthogonal Click Reaction for Improving Active-Targeting Efficiency of Tumor. Molecular Pharmaceutics, 2017, 14, 1558-1570.	2.3	42
56	PAMAM dendrimer with a 1,2-diaminoethane surface facilitates endosomal escape for enhanced pDNA delivery. Polymer, 2011, 52, 339-346.	1.8	40
57	Liverâ€Specific and Echogenic Hyaluronic Acid Nanoparticles Facilitating Liver Cancer Discrimination. Advanced Functional Materials, 2013, 23, 5518-5529.	7.8	39
58	Cathepsin B-sensitive nanoprobe for in vivo tumor diagnosis. Journal of Materials Chemistry, 2011, 21, 17631.	6.7	38
59	Gas-generating polymeric microspheres for long-term and continuous inÂvivo ultrasound imaging. Biomaterials, 2012, 33, 936-944.	5.7	38
60	Gelatinâ€“chlorin e6 conjugate for in vivo photodynamic therapy. Journal of Nanobiotechnology, 2019, 17, 50.	4.2	38
61	Multi-core vesicle nanoparticles based on vesicle fusion for delivery of chemotherapic drugs. Biomaterials, 2011, 32, 7924-7931.	5.7	36
62	Hyaluronateâ€“Gold Nanorod/DR5 Antibody Complex for Noninvasive Theranosis of Skin Cancer. ACS Applied Materials & Interfaces, 2016, 8, 32202-32210.	4.0	35
63	Rhamnolipid nanoparticles for in vivo drug delivery and photodynamic therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 19, 12-21.	1.7	35
64	InÂvivo fluorescence imaging for cancer diagnosis using receptor-targeted epidermal growth factor-based nanoprobe. Biomaterials, 2013, 34, 9149-9159.	5.7	33
65	DNA Amplification in Neutral Liposomes for Safe and Efficient Gene Delivery. ACS Nano, 2014, 8, 4257-4267.	7.3	32
66	Optimized Combination of Photodynamic Therapy and Chemotherapy Using Gelatin Nanoparticles Containing Tirapazamine and Pheophorbide a. ACS Applied Materials & Interfaces, 2021, 13, 10812-10821.	4.0	32
67	Precise Targeting of Liver Tumor Using Glycol Chitosan Nanoparticles: Mechanisms, Key Factors, and Their Implications. Molecular Pharmaceutics, 2016, 13, 3700-3711.	2.3	30
68	Non-invasive stem cell tracking in hindlimb ischemia animal model using bio-orthogonal copper-free click chemistry. Biochemical and Biophysical Research Communications, 2016, 479, 779-786.	1.0	29
69	Rhamnolipid-coated W/O/W double emulsion nanoparticles for efficient delivery of doxorubicin/erlotinib and combination chemotherapy. Journal of Nanobiotechnology, 2021, 19, 411.	4.2	27
70	New cationic lipids for gene transfer with high efficiency and low toxicity: T-shape cholesterol ester derivatives. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2637-2641.	1.0	26
71	Multifunctional nanoparticles for gene delivery and spinal cord injury. Journal of Biomedical Materials Research - Part A, 2015, 103, 3474-3482.	2.1	25
72	Multifunctional Chitosan Nanoparticles for Tumor Imaging and Therapy. Advances in Polymer Science, 2011, , 139-161.	0.4	23

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73	T1-Weighted MR imaging of liver tumor by gadolinium-encapsulated glycol chitosan nanoparticles without non-specific toxicity in normal tissues. Nanoscale, 2016, 8, 9736-9745.	2.8	23
74	Hyaluronidase-sensitive SPIONs for MR/optical dual imaging nanoprobes. Macromolecular Research, 2011, 19, 861-867.	1.0	21
75	In vivo NIRF Imaging of Tumor Targetability of Nanosized Liposomes in Tumorâ€Bearing Mice. Macromolecular Bioscience, 2012, 12, 849-856.	2.1	21
76	Chlorin e6-Loaded PEG-PCL Nanoemulsion for Photodynamic Therapy and In Vivo Drug Delivery. International Journal of Molecular Sciences, 2019, 20, 3958.	1.8	18
77	Analysis of the Relationship between the Molecular Weight and Transfection Efficiency/Cytotoxicity of Poly-L-arginine on a Mammalian Cell Line. Bulletin of the Korean Chemical Society, 2009, 30, 927-930.	1.0	17
78	Controlled Detachment of Chemically Glued Cells. Bioconjugate Chemistry, 2016, 27, 2601-2604.	1.8	15
79	Cathepsinâ€...Bâ€Specific Metabolic Precursor for Inâ€...Vivo Tumorâ€Specific Fluorescence Imaging. Angewandte Chemie, 2016, 128, 14918-14923.	1.6	13
80	Lowering glutathione level by buthionine sulfoximine enhances in vivo photodynamic therapy using chlorin e6-loaded nanoparticles. Dyes and Pigments, 2020, 176, 108207.	2.0	13
81	Emulsan-based nanoparticles for inÂvivo drug delivery to tumors. Biochemical and Biophysical Research Communications, 2019, 508, 326-331.	1.0	12
82	Intratympanic administration of alpha-lipoic acid-loaded pluronic F-127 nanoparticles ameliorates acute hearing loss. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 32, 102329.	1.7	10
83	Siteâ€Specific In Vivo Bioorthogonal Ligation via Chemical Modulation. Advanced Healthcare Materials, 2016, 5, 2510-2516.	3.9	9
84	A Study of the Effects of Doxorubicin-Containing Liposomes on Osteogenesis of 3D Stem Cell Spheroids Derived from Gingiva. Materials, 2019, 12, 2693.	1.3	9
85	Click chemistry-mediated tumor-targeting of SN38-loaded nanoparticles using trastuzumab. Biochemical and Biophysical Research Communications, 2019, 515, 207-213.	1.0	9
86	In vivo vocal fold augmentation using an injectable polyethylene glycol hydrogel based on click chemistry. Biomaterials Science, 2021, 9, 108-115.	2.6	9
87	Methotrexate-loaded nanoparticles ameliorate experimental model of autoimmune arthritis by regulating the balance of interleukin-17-producing T cells and regulatory T cells. Journal of Translational Medicine, 2022, 20, 85.	1.8	8
88	Cellular viability and osteogenic differentiation potential of human gingivaâ€derived stem cells in 2D culture following treatment with anionic, cationic, and neutral liposomes containing doxorubicin. Experimental and Therapeutic Medicine, 2018, 16, 4457-4462.	0.8	7
89	A Dodecapeptide Selected by Phage Display as a Potential Theranostic Probe for Colon Cancers. Translational Oncology, 2020, 13, 100798.	1.7	7
90	Selection and identification of a novel bone-targeting peptide for biomedical imaging of bone. Scientific Reports, 2020, 10, 10576.	1.6	7

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91	The effects of doxorubicinâ€loaded liposomes on viability, stem cell surface marker expression and secretion of vascular endothelial growth factor of threeâ€dimensional stem cell spheroids. Experimental and Therapeutic Medicine, 2018, 15, 4950-4960.	0.8	6
92	Double hit strategy using pH-sensitive liposomes containing doxorubicin and pheophorbide-a for combination tumor therapy. Colloids and Interface Science Communications, 2022, 46, 100565.	2.0	6
93	Development of minoxidil-loaded double emulsion PLGA nanoparticles for the treatment of hair loss. Journal of Industrial and Engineering Chemistry, 2022, 113, 161-169.	2.9	6
94	A comparative study of the effect of drug hydrophobicity on nanoparticle drug delivery in vivo using two photosensitizers. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102151.	1.7	5
95	Structural control of self-assembled peptide nanostructures to develop peptide vesicles for photodynamic therapy of cancer. Materials Today Bio, 2022, 16, 100337.	2.6	5
96	Dimeric Î±-Helical Cell Penetrating Peptide Mounted with HER2-Selective Affibody. Biomaterials Science, 2021, 9, 7826-7831.	2.6	3
97	In vitro Gene Delivery to HepG2 Cells with a Novel Galactosylated Polyornithine. Bulletin of the Korean Chemical Society, 2009, 30, 1622-1624.	1.0	2
98	Cell Adhesion: Bioorthogonal Click Chemistry-Based Synthetic Cell Glue(Small 48/2015). Small, 2015, 11, 6457-6457.	5.2	1
99	Cancer Therapy: Polymeric Nanoparticles. , 0, , 1258-1284.		0