

Cheol-Hee Ahn

List of Publications by Year in descending order

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59
papers

3,596
citations

172457

29
h-index

128289

60
g-index

61
all docs

61
docs citations

61
times ranked

5769
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-sensitive, injectable, and tissue adhesive sol-gel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. <i>Soft Matter</i> , 2010, 6, 977.	2.7	336
2	A Near-Infrared-Fluorescence-Quenched Gold-Nanoparticle Imaging Probe for In Vivo Drug Screening and Protease Activity Determination. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2804-2807.	13.8	310
3	Hypoxia-responsive polymeric nanoparticles for tumor-targeted drug delivery. <i>Biomaterials</i> , 2014, 35, 1735-1743.	11.4	296
4	Biodegradable poly(ethylenimine) for plasmid DNA delivery. <i>Journal of Controlled Release</i> , 2002, 80, 273-282.	9.9	292
5	Polymeric Nanoparticle-Based Activatable Near-Infrared Nanosensor for Protease Determination In Vivo. <i>Nano Letters</i> , 2009, 9, 4412-4416.	9.1	149
6	Heparin-Coated Gold Nanoparticles for Liver-Specific CT Imaging. <i>Chemistry - A European Journal</i> , 2009, 15, 13341-13347.	3.3	146
7	Molecular imaging of monodendron jacketed linear polymers by scanning force microscopy. <i>Macromolecular Rapid Communications</i> , 1998, 19, 359-366.	3.9	126
8	Tumor-Targeting Gold Particles for Dual Computed Tomography/Optical Cancer Imaging. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9348-9351.	13.8	116
9	Biodegradable Poly(ethylene glycol)-co-poly(L-lysine)-g-histidine Multiblock Copolymers for Nonviral Gene Delivery. <i>Macromolecules</i> , 2004, 37, 1903-1916.	4.8	115
10	Targeted multimodal imaging modalities. <i>Advanced Drug Delivery Reviews</i> , 2014, 76, 60-78.	13.7	113
11	Biocompatible Glycol Chitosan-Coated Gold Nanoparticles for Tumor-Targeting CT Imaging. <i>Pharmaceutical Research</i> , 2014, 31, 1418-1425.	3.5	108
12	Direct Imaging of Cerebral Thromboemboli Using Computed Tomography and Fibrin-targeted Gold Nanoparticles. <i>Theranostics</i> , 2015, 5, 1098-1114.	10.0	101
13	Matrix Metalloproteinase Sensitive Gold Nanorod for Simultaneous Bioimaging and Photothermal Therapy of Cancer. <i>Bioconjugate Chemistry</i> , 2010, 21, 2173-2177.	3.6	92
14	Dye-Condensed Biopolymeric Hybrids: Chromophoric Aggregation and Self-Assembly toward Fluorescent Bionanoparticles for Near Infrared Bioimaging. <i>Chemistry of Materials</i> , 2009, 21, 5819-5825.	6.7	90
15	Thrombin-activatable fluorescent peptide incorporated gold nanoparticles for dual optical/computed tomography thrombus imaging. <i>Biomaterials</i> , 2018, 150, 125-136.	11.4	79
16	Temperature/pH-Sensitive Hydrogels Prepared from Pluronic Copolymers End-Capped with Carboxylic Acid Groups via an Oligolactide Spacer. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1172-1176.	3.9	73
17	Epitaxial Adsorption of Monodendron-Jacketed Linear Polymers on Highly Oriented Pyrolytic Graphite. <i>Langmuir</i> , 2000, 16, 6862-6867.	3.5	70
18	Synthesis and Micellization of Star-Shaped Poly(ethylene glycol)-block-Poly(ϵ -caprolactone). <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1684-1692.	2.2	70

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19	Nano-sized metabolic precursors for heterogeneous tumor-targeting strategy using bioorthogonal click chemistry <i>in vivo</i> . <i>Biomaterials</i> , 2017, 148, 1-15.	11.4	51
20	Design and Synthesis of a New pH Sensitive Polymeric Sensor Using Fluorescence Resonance Energy Transfer. <i>Chemistry of Materials</i> , 2005, 17, 6213-6215.	6.7	45
21	Tissue adhesive FK506-loaded polymeric nanoparticles for multi-layered nano-shielding of pancreatic islets to enhance xenograft survival in a diabetic mouse model. <i>Biomaterials</i> , 2018, 154, 182-196.	11.4	43
22	Hyperacute direct thrombus imaging using computed tomography and gold nanoparticles. <i>Annals of Neurology</i> , 2013, 73, 617-625.	5.3	39
23	Synthesis of biodegradable multi-block copolymers of poly(L-lysine) and poly(ethylene glycol) as a non-viral gene carrier. <i>Journal of Controlled Release</i> , 2004, 97, 567-574.	9.9	38
24	Preparation and characterization of cisplatin-incorporated chitosan hydrogels, microparticles, and nanoparticles. <i>Macromolecular Research</i> , 2006, 14, 573-578.	2.4	34
25	Xenotransplantation of layer-by-layer encapsulated non-human primate islets with a specified immunosuppressive drug protocol. <i>Journal of Controlled Release</i> , 2017, 258, 10-21.	9.9	33
26	Emerging Albumin-Binding Anticancer Drugs for Tumor-Targeted Drug Delivery: Current Understandings and Clinical Translation. <i>Pharmaceutics</i> , 2022, 14, 728.	4.5	33
27	Fluorescent Dye Labeled Iron Oxide/Silica Core/Shell Nanoparticle as a Multimodal Imaging Probe. <i>Pharmaceutical Research</i> , 2014, 31, 3371-3378.	3.5	32
28	Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	32
29	Drug release behavior of poly(ϵ -caprolactone)- <i>b</i> -Poly(acrylic acid) Shell Crosslinked Micelles below the Critical Micelle Concentration. <i>Macromolecular Research</i> , 2005, 13, 397-402.	2.4	31
30	Single synchronous delivery of FK506-loaded polymeric microspheres with pancreatic islets for the successful treatment of streptozocin-induced diabetes in mice. <i>Drug Delivery</i> , 2017, 24, 1350-1359.	5.7	29
31	A supramolecular host-guest interaction-mediated injectable hydrogel system with enhanced stability and sustained protein release. <i>Acta Biomaterialia</i> , 2021, 131, 286-301.	8.3	29
32	A novel pH-sensitive PEG-PPG-PEG copolymer displaying a closed-loop sol-gel-sol transition. <i>Journal of Materials Chemistry</i> , 2009, 19, 8198.	6.7	27
33	High-Performance Printed Circuit Board Materials Based on Benzoxazine and Epoxy Blend System. <i>Macromolecular Research</i> , 2018, 26, 388-393.	2.4	25
34	Development of a pH sensitive nanocarrier using calcium phosphate coated gold nanoparticles as a platform for a potential theranostic material. <i>Macromolecular Research</i> , 2012, 20, 319-326.	2.4	24
35	Study on chemotaxis and chemokinesis of bone marrow-derived mesenchymal stem cells in hydrogel-based 3D microfluidic devices. <i>Biomaterials Research</i> , 2016, 20, 25.	6.9	24
36	One-Step-Detection of Matrix Metalloproteinase Activity Using a Fluorogenic Peptide Probe-Immobilized Diagnostic Kit. <i>Bioconjugate Chemistry</i> , 2010, 21, 1378-1384.	3.6	21

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37	Effect of molecular architecture on micellization, drug loading and releasing of multi-armed poly(ethylene glycol)-b-poly(μ -caprolactone) star polymers. <i>Colloid and Polymer Science</i> , 2013, 291, 1817-1827.	2.1	21
38	Reduction-sensitive Self-Assembled Aggregates as a Novel Delivery System. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 956-961.	2.2	20
39	Self-Healable Dielectric Polydimethylsiloxane Composite Based on Zinc-Imidazole Coordination Bond. <i>Macromolecular Research</i> , 2019, 27, 435-443.	2.4	18
40	Quantitative Imaging of Cerebral Thromboemboli In Vivo. <i>Stroke</i> , 2017, 48, 1376-1385.	2.0	15
41	Theragnostic Glycol Chitosan-Conjugated Gold Nanoparticles for Photoacoustic Imaging of Regional Lymph Nodes and Delivering Tumor Antigen to Lymph Nodes. <i>Nanomaterials</i> , 2021, 11, 1700.	4.1	15
42	Cathepsin B-Overexpressed Tumor Cell Activatable Albumin-Binding Doxorubicin Prodrug for Cancer-Targeted Therapy. <i>Pharmaceutics</i> , 2022, 14, 83.	4.5	15
43	How Did Conventional Nanoparticle-Mediated Photothermal Therapy Become "Hot" in Combination with Cancer Immunotherapy?. <i>Cancers</i> , 2022, 14, 2044.	3.7	15
44	Synthesis of Novel Biodegradable Cationic Dendrimers. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1608-1614.	3.9	14
45	Advances in Ion Conducting Membranes and Binders for High Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Polymer Reviews</i> , 2022, 62, 789-825.	10.9	12
46	Micelle Behavior of Copolymers Composed of Linear and Hyperbranched Blocks in Aqueous Solution. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1734-1738.	2.2	11
47	Dispersing Agents Impact Performance of Protonated Phosphonic Acid High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>ACS Energy Letters</i> , 2022, 7, 1642-1647.	17.4	11
48	Recent Trend of Ultrasound-Mediated Nanoparticle Delivery for Brain Imaging and Treatment. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 120-137.	8.0	10
49	Blends of Oppositely Charged PEG-PPG-PEG Copolymers Displaying Improved Physical Thermogelling Properties. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 692-697.	2.2	9
50	Activatable NIRF/MRI dual imaging probe using bio-inspired coating of glycol chitosan on superparamagnetic iron oxide nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 403-409.	5.8	9
51	Conjugation of histidine derivatives to PEGylated poly(L-lysine-co-L-phenylalanine) copolymer as a non-viral gene carrier. <i>Macromolecular Research</i> , 2010, 18, 545-550.	2.4	6
52	pH dependent drug release system using micelles stabilized by cationic drugs. <i>Macromolecular Research</i> , 2010, 18, 686-689.	2.4	6
53	Synthesis and characterization of Poly(L-lysine-co-L-proline) as a non-viral gene delivery vector. <i>Macromolecular Research</i> , 2006, 14, 129-131.	2.4	5
54	Combined Near-infrared Fluorescent Imaging and Micro-computed Tomography for Directly Visualizing Cerebral Thromboemboli. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	4

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55	Thiol-Responsive Gold Nanodot Swarm with Glycol Chitosan for Photothermal Cancer Therapy. <i>Molecules</i> , 2021, 26, 5980.	3.8	4
56	Biodegradable poly(lactide-co-glycolide) microspheres encapsulating hydrophobic contrast agents for transarterial chemoembolization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022, 33, 409-425.	3.5	4
57	Surface Modification of Polystyrene Beads with Sulfonamide Derivatives and Application to Water Softening System. <i>Macromolecular Research</i> , 2020, 28, 172-178.	2.4	3
58	Ultrasound-triggered imaging and drug delivery using microbubble-self-aggregate complexes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022, 33, 57-76.	3.5	3
59	Novel Potentially Biobased Copolyesters Comprising 1,3-Butanediol, 1,4-Cyclohexanedimethanol and Dimethyl Terephthalate; Effect of Different Catalysts on Polymerization Behavior. <i>Macromolecular Research</i> , 2022, 30, 51-60.	2.4	3