Sehoon Kim

List of Publications by Year
in descending order

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59 papers	2,336 citations	236925 25 h-index	214800 47 g-index
61 all docs	61 docs citations	61 times ranked	3911 citing authors

#	Article	IF	Citations
1	Recent trends in molecular aggregates: An exploration of biomedicine. Aggregate, 2022, 3, .	9.9	50
2	Multifunctionâ€Harnessed Afterglow Nanosensor for Molecular Imaging of Acute Kidney Injury In Vivo. Small, 2022, 18, e2200245.	10.0	17
3	Anisotropic Plasmonic Gold Nanorodâ€“Indocyanine Green@Reduced Graphene Oxideâ€“Doxorubicin Nanohybrids for Image-Guided Enhanced Tumor Theranostics. ACS Omega, 2022, 7, 15186-15199.	3.5	6
4	Aggregation-induced emission nanoparticles with improved optical absorption for boosting fluorescence signal of tumors in vivo. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 280, 121534.	3.9	1
5	Superoxide-responsive fluorogenic molecular probes for optical bioimaging of neurodegenerative events in Alzheimer's disease. Analyst, The, 2021, 146, 4748-4755.	3.5	8
6	Photoechogenic Inflatable Nanohybrids for Upconversion-Mediated Sonotheranostics. ACS Nano, 2021, 15, 18394-18402.	14.6	8
7	Plasmon-Triggered Upconversion Emissions and Hot Carrier Injection for Combinatorial Photothermal and Photodynamic Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 58422-58433.	8.0	19
8	Hydrolytic surface erosion of mesoporous silica nanoparticles for efficient intracellular delivery of cytochrome c. Journal of Colloid and Interface Science, 2020, 560, 416-425.	9.4	17
9	Calcium-doped mesoporous silica nanoparticles as a lysosomolytic nanocarrier for amine-free loading and cytosolic delivery of siRNA. Journal of Industrial and Engineering Chemistry, 2020, 81, 71-80.	5.8	19
10	800Ânm near-infrared light-excitable intense green-emitting Li(Gd,Y)F4:Yb,Er-based core/shell/shell upconversion nanophosphors for efficient liver cancer cell imaging. Materials and Design, 2020, 195, 108941.	7.0	19
11	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. ACS Nano, 2020, 14, 15793-15805.	14.6	22
12	Lung-targeted delivery of TGF-Î² antisense oligonucleotides to treat pulmonary fibrosis. Journal of Controlled Release, 2020, 322, 108-121.	9.9	20
13	Ultraâ€pHâ€Sensitive Small Molecule Probe Showing a Ratiometric Fluorescence Color Change. ChemPhotoChem, 2020, 4, 393-397.	3.0	11
14	Intra-mitochondrial self-assembly to overcome the intracellular enzymatic degradation of <scp>l</scp>-peptides. Chemical Communications, 2020, 56, 6265-6268.	4.1	11
15	Curcumin-Pluronic Nanoparticles: A Theranostic Nanoformulation for Alzheimer's Disease. Critical Reviews in Biomedical Engineering, 2020, 48, 153-168.	0.9	11
16	Dual-color fluorescent nanoparticles showing perfect color-specific photoswitching for bioimaging and super-resolution microscopy. Nature Communications, 2019, 10, 3089.	12.8	85
17	Heterochiral Assembly of Amphiphilic Peptides Inside the Mitochondria for Supramolecular Cancer Therapeutics. ACS Nano, 2019, 13, 11022-11033.	14.6	69
18	Cyclic Hydrazideâ€Functionalized Poly(ethylene oxide) Frameworks for the Synthesis of pHâ€Cleavable Drugâ€Carriers and Their Applications for the Stabilization of Gold Nanoparticles. Macromolecular Chemistry and Physics, 2019, 220, 1900075.	2.2	0

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19	Rational Design of Inflammation-Responsive Inflatable Nanogels for Ultrasound Molecular Imaging. Chemistry of Materials, 2019, 31, 2905-2912.	6.7	17
20	Cumulative directional calcium gluing between phosphate and silicate: A facile, robust and biocompatible strategy for siRNA delivery by amine-free non-positive vector. Biomaterials, 2019, 209, 126-137.	11.4	19
21	Tumor microenvironment-responsive fluorogenic nanoprobe for ratiometric dual-channel imaging of lymph node metastasis. Colloids and Surfaces B: Biointerfaces, 2019, 179, 9-16.	5.0	16
22	Theranostic iRGD peptide containing cisplatin prodrug: Dual-cargo tumor penetration for improved imaging and therapy. Journal of Controlled Release, 2019, 300, 73-80.	9.9	30
23	Surface pH buffering to promote degradation of mesoporous silica nanoparticles under a physiological condition. Journal of Colloid and Interface Science, 2019, 533, 463-470.	9.4	41
24	Intense Red-Emitting Upconversion Nanophosphors (800 nm-Driven) with a Core/Double-Shell Structure for Dual-Modal Upconversion Luminescence and Magnetic Resonance in Vivo Imaging Applications. ACS Applied Materials & Interfaces, 2018, 10, 12331-12340.	8.0	46
25	Near-infrared fluorescent probes for the detection of glutathione and their application in the fluorescence imaging of living cells and tumor-bearing mice. Journal of Materials Chemistry B, 2018, 6, 2541-2546.	5.8	60
26	Biologically activatable azobenzene polymers targeted at drug delivery and imaging applications. Biomaterials, 2018, 185, 333-347.	11.4	54
27	Solid-Phase Synthesis of Peptide-Conjugated Perylene Diimide Bolaamphiphile and Its Application in Photodynamic Therapy. ACS Omega, 2018, 3, 5896-5902.	3.5	9
28	Proton Transfer Hydrogels: Versatility and Applications. Journal of the American Chemical Society, 2018, 140, 6700-6709.	13.7	37
29	Simultaneous Delivery of Electrostatically Complexed Multiple Gene-Targeting siRNAs and an Anticancer Drug for Synergistically Enhanced Treatment of Prostate Cancer. Molecular Pharmaceutics, 2018, 15, 3777-3785.	4.6	4
30	Nootropic nanocomplex with enhanced blood-brain barrier permeability for treatment of traumatic brain injury-associated neurodegeneration. Journal of Controlled Release, 2018, 284, 152-159.	9.9	13
31	A fluorogenic molecular nanoprobe with an engineered internal environment for sensitive and selective detection of biological hydrogen sulfide. Chemical Communications, 2017, 53, 2275-2278.	4.1	18
32	How Can Doxorubicin Loading Orchestrate in Vitro Degradation Behaviors of Mesoporous Silica Nanoparticles under a Physiological Condition?. Langmuir, 2017, 33, 4974-4980.	3.5	28
33	An activatable anticancer polymerâ€“drug conjugate based on the self-immolative azobenzene motif. Journal of Materials Chemistry B, 2017, 5, 4574-4578.	5.8	24
34	Controlled Synthesis of CuInS₂/ZnS Nanocubes and Their Sensitive Photoluminescence Response toward Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2017, 9, 32097-32105.	8.0	13
35	Highly Bright and Photostable Li(Gd,Y)F₄:Yb,Er/LiGdF₄Core/Shell Upconversion Nanophosphors for Bioimaging Applications. Particle and Particle Systems Characterization, 2017, 34, 1600183.	2.3	18
36	Size-engineered biocompatible polymeric nanophotosensitizer for locoregional photodynamic therapy of cancer. Colloids and Surfaces B: Biointerfaces, 2016, 144, 303-310.	5.0	11

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37	Multifunctional Photonics Nanoparticles for Crossing the Bloodâ€“Brain Barrier and Effecting Optically Trackable Brain Theranostics. Advanced Functional Materials, 2016, 26, 7057-7066.	14.9	61
38	Self-assembled mirror DNA nanostructures for tumor-specific delivery of anticancer drugs. Journal of Controlled Release, 2016, 243, 121-131.	9.9	102
39	Activatable iRGD-based peptide monolith: Targeting, internalization, and fluorescence activation for precise tumor imaging. Journal of Controlled Release, 2016, 237, 177-184.	9.9	28
40	Quantitative Ï‰-amination, Ï‰-azidolysis, and Ï‰-thiolation of poly(ethylene oxide)s through anionic mechanism. Macromolecular Research, 2016, 24, 188-195.	2.4	3
41	Rational design for enhancing inflammation-responsive inÂvivo chemiluminescence via nanophotonic energy relay to near-infrared AIE-active conjugated polymer. Biomaterials, 2016, 84, 111-118.	11.4	75
42	Azide-based heterobifunctional poly(ethylene oxide)s: NaN₃-initiated â€œlivingâ€• polymerization of ethylene oxide and chain end functionalizations. Polymer Chemistry, 2016, 7, 394-401.	3.9	8
43	Fluorogenic nanoreactor assembly with boosted sensing kinetics for timely imaging of cellular hydrogen peroxide. Chemical Communications, 2016, 52, 1131-1134.	4.1	5
44	Realâ€Time Imaging Reveals Glioblastoma Suppression Effects of Curcumin in Mouse Brains. Bulletin of the Korean Chemical Society, 2015, 36, 1528-1531.	1.9	2
45	Directed molecular assembly into a biocompatible photosensitizing nanocomplex for locoregional photodynamic therapy. Journal of Controlled Release, 2015, 209, 12-19.	9.9	24
46	Co-delivery of chemosensitizing siRNA and an anticancer agent via multiple monocomplexation-induced hydrophobic association. Journal of Controlled Release, 2015, 210, 105-114.	9.9	27
47	Biolighted Nanotorch Capable of Systemic Self-Delivery and Diagnostic Imaging. ACS Nano, 2015, 9, 9906-9911.	14.6	36
48	Low-bandgap biophotonic nanoblend: A platform for systemic disease targeting and functional imaging. Biomaterials, 2015, 39, 225-233.	11.4	17
49	pHâ€Sensitive Drugâ€Conjugates on Waterâ€Soluble Polymer Frameworks. Macromolecular Chemistry and Physics, 2015, 216, 265-276.	2.2	6
50	Gadolinium-coordinated elastic nanogels for inÂvivo tumor targeting and imaging. Biomaterials, 2013, 34, 6846-6852.	11.4	64
51	Nanophotosensitizers toward advanced photodynamic therapy of Cancer. Cancer Letters, 2013, 334, 176-187.	7.2	253
52	Phthalocyanine-Aggregated Polymeric Nanoparticles as Tumor-Homing Near-Infrared Absorbers for Photothermal Therapy of Cancer. Theranostics, 2012, 2, 871-879.	10.0	89
53	Iodinated Photosensitizing Chitosan: Self-Assembly into Tumor-Homing Nanoparticles with Enhanced Singlet Oxygen Generation. Bioconjugate Chemistry, 2012, 23, 1022-1028.	3.6	34
54	Dye/Peroxalate Aggregated Nanoparticles with Enhanced and Tunable Chemiluminescence for Biomedical Imaging of Hydrogen Peroxide. ACS Nano, 2012, 6, 6759-6766.	14.6	168

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55	Heavyâ€Atomic Construction of Photosensitizer Nanoparticles for Enhanced Photodynamic Therapy of Cancer. Small, 2011, 7, 112-118.	10.0	33
56	Chemiluminescenceâ€Generating Nanoreactor Formulation for Nearâ€Infrared Imaging of Hydrogen Peroxide and Glucose Level in vivo. Advanced Functional Materials, 2010, 20, 2644-2648.	14.9	124
57	Conjugated polymer nanoparticles for biomedical in vivo imaging. Chemical Communications, 2010, 46, 1617.	4.1	160
58	Organically Modified Silica Nanoparticles with Intraparticle Heavy-Atom Effect on the Encapsulated Photosensitizer for Enhanced Efficacy of Photodynamic Therapy. Journal of Physical Chemistry C, 2009, 113, 12641-12644.	3.1	74
59	Dye-Condensed Biopolymeric Hybrids: Chromophoric Aggregation and Self-Assembly toward Fluorescent Bionanoparticles for Near Infrared Bioimaging. Chemistry of Materials, 2009, 21, 5819-5825.	6.7	90