

Sehoon Kim

List of Publications by Year in descending order

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Version: 2024-02-01

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	Nanophotosensitizers toward advanced photodynamic therapy of Cancer. <i>Cancer Letters</i> , 2013, 334, 176-187.	7.2	253
2	Dye/Peroxalate Aggregated Nanoparticles with Enhanced and Tunable Chemiluminescence for Biomedical Imaging of Hydrogen Peroxide. <i>ACS Nano</i> , 2012, 6, 6759-6766.	14.6	168
3	Conjugated polymer nanoparticles for biomedical in vivo imaging. <i>Chemical Communications</i> , 2010, 46, 1617.	4.1	160
4	Chemiluminescence-Generating Nanoreactor Formulation for Near-Infrared Imaging of Hydrogen Peroxide and Glucose Level in vivo. <i>Advanced Functional Materials</i> , 2010, 20, 2644-2648.	14.9	124
5	Self-assembled mirror DNA nanostructures for tumor-specific delivery of anticancer drugs. <i>Journal of Controlled Release</i> , 2016, 243, 121-131.	9.9	102
6	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
7	Phthalocyanine-Aggregated Polymeric Nanoparticles as Tumor-Homing Near-Infrared Absorbers for Photothermal Therapy of Cancer. <i>Theranostics</i> , 2012, 2, 871-879.	10.0	89
8	Dual-color fluorescent nanoparticles showing perfect color-specific photoswitching for bioimaging and super-resolution microscopy. <i>Nature Communications</i> , 2019, 10, 3089.	12.8	85
9	Rational design for enhancing inflammation-responsive in vivo chemiluminescence via nanophotonic energy relay to near-infrared AIE-active conjugated polymer. <i>Biomaterials</i> , 2016, 84, 111-118.	11.4	75
10	Organically Modified Silica Nanoparticles with Intraparticle Heavy-Atom Effect on the Encapsulated Photosensitizer for Enhanced Efficacy of Photodynamic Therapy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12641-12644.	3.1	74
11	Heterochiral Assembly of Amphiphilic Peptides Inside the Mitochondria for Supramolecular Cancer Therapeutics. <i>ACS Nano</i> , 2019, 13, 11022-11033.	14.6	69
12	Gadolinium-coordinated elastic nanogels for in vivo tumor targeting and imaging. <i>Biomaterials</i> , 2013, 34, 6846-6852.	11.4	64
13	Multifunctional Photonics Nanoparticles for Crossing the Blood-Brain Barrier and Effecting Optically Trackable Brain Theranostics. <i>Advanced Functional Materials</i> , 2016, 26, 7057-7066.	14.9	61
14	Near-infrared fluorescent probes for the detection of glutathione and their application in the fluorescence imaging of living cells and tumor-bearing mice. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2541-2546.	5.8	60
15	Biologically activatable azobenzene polymers targeted at drug delivery and imaging applications. <i>Biomaterials</i> , 2018, 185, 333-347.	11.4	54
16	Recent trends in molecular aggregates: An exploration of biomedicine. <i>Aggregate</i> , 2022, 3, .	9.9	50
17	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. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12331-12340.	8.0	46
18	Surface pH buffering to promote degradation of mesoporous silica nanoparticles under a physiological condition. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 463-470.	9.4	41

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19	Proton Transfer Hydrogels: Versatility and Applications. <i>Journal of the American Chemical Society</i> , 2018, 140, 6700-6709.	13.7	37
20	Biolighted Nanotorch Capable of Systemic Self-Delivery and Diagnostic Imaging. <i>ACS Nano</i> , 2015, 9, 9906-9911.	14.6	36
21	Iodinated Photosensitizing Chitosan: Self-Assembly into Tumor-Homing Nanoparticles with Enhanced Singlet Oxygen Generation. <i>Bioconjugate Chemistry</i> , 2012, 23, 1022-1028.	3.6	34
22	Heavy-Atom Construction of Photosensitizer Nanoparticles for Enhanced Photodynamic Therapy of Cancer. <i>Small</i> , 2011, 7, 112-118.	10.0	33
23	Theranostic iRGD peptide containing cisplatin prodrug: Dual-cargo tumor penetration for improved imaging and therapy. <i>Journal of Controlled Release</i> , 2019, 300, 73-80.	9.9	30
24	Activatable iRGD-based peptide monolith: Targeting, internalization, and fluorescence activation for precise tumor imaging. <i>Journal of Controlled Release</i> , 2016, 237, 177-184.	9.9	28
25	How Can Doxorubicin Loading Orchestrate in Vitro Degradation Behaviors of Mesoporous Silica Nanoparticles under a Physiological Condition?. <i>Langmuir</i> , 2017, 33, 4974-4980.	3.5	28
26	Co-delivery of chemosensitizing siRNA and an anticancer agent via multiple monocomplexation-induced hydrophobic association. <i>Journal of Controlled Release</i> , 2015, 210, 105-114.	9.9	27
27	Directed molecular assembly into a biocompatible photosensitizing nanocomplex for locoregional photodynamic therapy. <i>Journal of Controlled Release</i> , 2015, 209, 12-19.	9.9	24
28	An activatable anticancer polymer-drug conjugate based on the self-immolative azobenzene motif. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4574-4578.	5.8	24
29	Injectable Single-Component Peptide Depot: Autonomously Rechargeable Tumor Photosensitization for Repeated Photodynamic Therapy. <i>ACS Nano</i> , 2020, 14, 15793-15805.	14.6	22
30	Lung-targeted delivery of TGF- β 2 antisense oligonucleotides to treat pulmonary fibrosis. <i>Journal of Controlled Release</i> , 2020, 322, 108-121.	9.9	20
31	Cumulative directional calcium gluing between phosphate and silicate: A facile, robust and biocompatible strategy for siRNA delivery by amine-free non-positive vector. <i>Biomaterials</i> , 2019, 209, 126-137.	11.4	19
32	Calcium-doped mesoporous silica nanoparticles as a lysosomolytic nanocarrier for amine-free loading and cytosolic delivery of siRNA. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 71-80.	5.8	19
33	800 nm near-infrared light-excitable intense green-emitting Li(Gd,Y)F ₄ :Yb,Er-based core/shell/shell upconversion nanophosphors for efficient liver cancer cell imaging. <i>Materials and Design</i> , 2020, 195, 108941.	7.0	19
34	Plasmon-Triggered Upconversion Emissions and Hot Carrier Injection for Combinatorial Photothermal and Photodynamic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58422-58433.	8.0	19
35	A fluorogenic molecular nanoprobe with an engineered internal environment for sensitive and selective detection of biological hydrogen sulfide. <i>Chemical Communications</i> , 2017, 53, 2275-2278.	4.1	18
36	Highly Bright and Photostable Li(Gd,Y)F ₄ :Yb,Er/LiGdF ₄ Core/Shell Upconversion Nanophosphors for Bioimaging Applications. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600183.	2.3	18

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37	Low-bandgap biophotonic nanoblend: A platform for systemic disease targeting and functional imaging. <i>Biomaterials</i> , 2015, 39, 225-233.	11.4	17
38	Rational Design of Inflammation-Responsive Inflatable Nanogels for Ultrasound Molecular Imaging. <i>Chemistry of Materials</i> , 2019, 31, 2905-2912.	6.7	17
39	Hydrolytic surface erosion of mesoporous silica nanoparticles for efficient intracellular delivery of cytochrome c. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 416-425.	9.4	17
40	Multifunctional Harnessed Afterglow Nanosensor for Molecular Imaging of Acute Kidney Injury In Vivo. <i>Small</i> , 2022, 18, e2200245.	10.0	17
41	Tumor microenvironment-responsive fluorogenic nanoprobe for ratiometric dual-channel imaging of lymph node metastasis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 9-16.	5.0	16
42	Controlled Synthesis of CuInS ₂ /ZnS Nanocubes and Their Sensitive Photoluminescence Response toward Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32097-32105.	8.0	13
43	Nootropic nanocomplex with enhanced blood-brain barrier permeability for treatment of traumatic brain injury-associated neurodegeneration. <i>Journal of Controlled Release</i> , 2018, 284, 152-159.	9.9	13
44	Size-engineered biocompatible polymeric nanophotosensitizer for locoregional photodynamic therapy of cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 303-310.	5.0	11
45	Ultra-sensitive Small Molecule Probe Showing a Ratiometric Fluorescence Color Change. <i>ChemPhotoChem</i> , 2020, 4, 393-397.	3.0	11
46	Intra-mitochondrial self-assembly to overcome the intracellular enzymatic degradation of <sc> </sc>-peptides. <i>Chemical Communications</i> , 2020, 56, 6265-6268.	4.1	11
47	Curcumin-Pluronic Nanoparticles: A Theranostic Nanoformulation for Alzheimer's Disease. <i>Critical Reviews in Biomedical Engineering</i> , 2020, 48, 153-168.	0.9	11
48	Solid-Phase Synthesis of Peptide-Conjugated Perylene Diimide Bolaamphiphile and Its Application in Photodynamic Therapy. <i>ACS Omega</i> , 2018, 3, 5896-5902.	3.5	9
49	Azide-based heterobifunctional poly(ethylene oxide)s: NaN ₃ -initiated <i>living</i> polymerization of ethylene oxide and chain end functionalizations. <i>Polymer Chemistry</i> , 2016, 7, 394-401.	3.9	8
50	Superoxide-responsive fluorogenic molecular probes for optical bioimaging of neurodegenerative events in Alzheimer's disease. <i>Analyst</i> , 2021, 146, 4748-4755.	3.5	8
51	Photoechogetic Inflatable Nanohybrids for Upconversion-Mediated Sonoatheranostics. <i>ACS Nano</i> , 2021, 15, 18394-18402.	14.6	8
52	pH-sensitive Drug-Conjugates on Water-Soluble Polymer Frameworks. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 265-276.	2.2	6
53	Anisotropic Plasmonic Gold Nanorod@Reduced Graphene Oxide@Doxorubicin Nanohybrids for Image-Guided Enhanced Tumor Theranostics. <i>ACS Omega</i> , 2022, 7, 15186-15199.	3.5	6
54	Fluorogenic nanoreactor assembly with boosted sensing kinetics for timely imaging of cellular hydrogen peroxide. <i>Chemical Communications</i> , 2016, 52, 1131-1134.	4.1	5

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55	Simultaneous Delivery of Electrostatically Complexed Multiple Gene-Targeting siRNAs and an Anticancer Drug for Synergistically Enhanced Treatment of Prostate Cancer. <i>Molecular Pharmaceutics</i> , 2018, 15, 3777-3785.	4.6	4
56	Quantitative γ -amination, γ -azidolysis, and γ -thiolation of poly(ethylene oxide)s through anionic mechanism. <i>Macromolecular Research</i> , 2016, 24, 188-195.	2.4	3
57	Real-Time Imaging Reveals Glioblastoma Suppression Effects of Curcumin in Mouse Brains. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1528-1531.	1.9	2
58	Aggregation-induced emission nanoparticles with improved optical absorption for boosting fluorescence signal of tumors in vivo. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 280, 121534.	3.9	1
59	Cyclic Hydrazide-Functionalized Poly(ethylene oxide) Frameworks for the Synthesis of pH-Cleavable Drug-Carriers and Their Applications for the Stabilization of Gold Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900075.	2.2	0