

Seungjoo Haam

List of Publications by Year in descending order

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100
papers

4,073
citations

186209

28
h-index

123376

61
g-index

110
all docs

110
docs citations

110
times ranked

7307
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid detection of influenza A (H1N1) virus by conductive polymer-based nanoparticle via optical response to virus-specific binding. <i>Nano Research</i> , 2022, 15, 2254-2262.	5.8	13
2	Microfluidic device for one-step detection of breast cancer-derived exosomal mRNA in blood using signal-amplifiable 3D nanostructure. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113753.	5.3	36
3	Simultaneous dual-targeted monitoring of breast cancer circulating miRNA via surface-enhanced Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114143.	5.3	21
4	Bending-insensitive Flexible SERS Sensor for Stable and Sensitive Detection on Curved Surfaces. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	3
5	Cell-mimetic biosensors to detect avian influenza virus via viral fusion. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114407.	5.3	7
6	Cationic poly(amino acid) surface functionalized manganese nanoparticles for nitric oxide-based immunotherapy and magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5402-5409.	2.9	7
7	Scalable fabrication of inkless, transfer-printed graphene-based textile microsupercapacitors with high rate capabilities. <i>Journal of Power Sources</i> , 2021, 481, 228939.	4.0	28
8	The effect of pH and transition metal ions on cysteine-assisted gold aggregation for a distinct colorimetric response. <i>RSC Advances</i> , 2021, 11, 9664-9674.	1.7	6
9	Advanced Nanomaterials for Preparedness Against (Re-)Emerging Viral Diseases. <i>Advanced Materials</i> , 2021, 33, e2005927.	11.1	24
10	In vivo monitoring platform of transplanted human stem cells using magnetic resonance imaging. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113039.	5.3	4
11	Sphingomyelin-based liposomes with different cholesterol contents and polydopamine coating as a controlled delivery system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 618, 126447.	2.3	13
12	Highly Sensitive and Reliable microRNA Detection with a Recyclable Microfluidic Device and an Easily Assembled SERS Substrate. <i>ACS Omega</i> , 2021, 6, 19656-19664.	1.6	10
13	Application of Nanomaterials as an Advanced Strategy for the Diagnosis, Prevention, and Treatment of Viral Diseases. <i>Pharmaceutics</i> , 2021, 13, 1570.	2.0	17
14	Immunomagnetic microfluidic integrated system for potency-based multiple separation of heterogeneous stem cells with high throughput capabilities. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113576.	5.3	6
15	Kinetic stability modulation of polymeric nanoparticles for enhanced detection of influenza virus via penetration of viral fusion peptides. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9658-9669.	2.9	7
16	Advanced Nanomaterials for Preparedness Against (Re-)Emerging Viral Diseases (Adv. Mater. 47/2021). <i>Advanced Materials</i> , 2021, 33, 2170366.	11.1	1
17	Surfactant-free galvanic replacement for synthesis of raspberry-like silver nanostructure pattern with multiple hot-spots as sensitive and reproducible SERS substrates. <i>Applied Surface Science</i> , 2020, 505, 144548.	3.1	18
18	Preparation of High-Elongation and High-Toughness Poly(L-lactide) Using Multi-Arm Methyl- β -Cyclodextrin-Poly(L-lactide). <i>Macromolecular Research</i> , 2020, 28, 257-265.	1.0	2

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19	Peptidoglycan-Binding Protein Metamaterials Mediated Enhanced and Selective Capturing of Gram-Positive Bacteria and Their Specific, Ultra-Sensitive, and Reproducible Detection via Surface-Enhanced Raman Scattering. <i>ACS Sensors</i> , 2020, 5, 3099-3108.	4.0	13
20	Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. <i>ACS Omega</i> , 2020, 5, 27749-27755.	1.6	4
21	Highly Dense and Accessible Nanogaps in Au@Ag Alloy Patterned Nanostructures for Surface-Enhanced Raman Spectroscopy Analysis. <i>ACS Applied Nano Materials</i> , 2020, 3, 5920-5927.	2.4	14
22	Co-delivery of antigens and immunostimulants via a polymersome for improvement of antigen-specific immune response. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5620-5626.	2.9	19
23	Matrix metalloproteinase 9-activatable peptide-conjugated hydrogel-based fluorogenic intraocular-lens sensor. <i>Biosensors and Bioelectronics</i> , 2020, 162, 112254.	5.3	19
24	Porous gold nanoparticles for attenuating infectivity of influenza A virus. <i>Journal of Nanobiotechnology</i> , 2020, 18, 54.	4.2	113
25	Cell-mimic polymersome-shielded islets for long-term immune protection of neonatal porcine islet-like cell clusters. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2476-2482.	2.9	12
26	Morphological features and pathogenicity of mutated canine influenza viruses from China and South Korea. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 1607-1613.	1.3	1
27	Dengue Virus@Polymersome Hybrid Nanovesicles for Advanced Drug Screening Using Real-Time Single Nanoparticle@Virus Tracking. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6876-6884.	4.0	8
28	Inner structure- and surface-controlled hollow MnO nanocubes for high sensitive MR imaging contrast effect. <i>Nano Convergence</i> , 2020, 7, 16.	6.3	12
29	Cationic Poly(Amino Acid) Vaccine Adjuvant for Promoting Both Cell-Mediated and Humoral Immunity Against Influenza Virus. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800953.	3.9	20
30	Preparation of High-quality Glabridin Extract from <i>Glycyrrhiza glabra</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 666-674.	1.4	8
31	Macroscopic Ag nanostructure array patterns with high-density hotspots for reliable and ultra-sensitive SERS substrates. <i>Nano Research</i> , 2019, 12, 2554-2558.	5.8	35
32	Pipetting-based immunoassay for point-of-care testing: Application for detection of the influenza A virus. <i>Scientific Reports</i> , 2019, 9, 16661.	1.6	19
33	Sensitive Plasmonic Detection of miR-10b in Biological Samples Using Enzyme-Assisted Target Recycling and Developed LSPR Probe. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18923-18929.	4.0	34
34	Efficient Self-Assembled MicroRNA Delivery System Consisting of Cholesterol-Conjugated MicroRNA and PEGylated Polycationic Polymer for Tumor Treatment. <i>ACS Applied Bio Materials</i> , 2019, 2, 2219-2228.	2.3	5
35	Formation of Interstitial Hot-Spots Using the Reduced Gap-Size between Plasmonic Microbeads Pattern for Surface-Enhanced Raman Scattering Analysis. <i>Sensors</i> , 2019, 19, 1046.	2.1	16
36	PEGylated Magnetic Nano-Assemblies as Contrast Agents for Effective T2-Weighted MR Imaging. <i>Nanomaterials</i> , 2019, 9, 410.	1.9	6

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37	A visually distinguishable light interfering bioresponsive silica nanoparticle hydrogel sensor fabricated through the molecular imprinting technique. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7120-7128.	2.9	13
38	Preparation of Chlorophyll-free Young Barley Leaf Extract Powders Using Supercritical Carbon Dioxide Modified with Cosolvent. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 997-1006.	1.4	1
39	Highly robust, uniform and ultra-sensitive surface-enhanced Raman scattering substrates for microRNA detection fabricated by using silver nanostructures grown in gold nanobowls. <i>Nanoscale</i> , 2018, 10, 3680-3687.	2.8	53
40	Convenient Monitoring System of Intracellular microRNA Expression during Adipogenesis via Mechanical Stimulus-Induced Exocytosis of Lipovesicular miRNA Beacon. <i>Advanced Healthcare Materials</i> , 2018, 7, 1701019.	3.9	7
41	Efficient antiviral co-delivery using polymersomes by controlling the surface density of cell-targeting groups for influenza A virus treatment. <i>Polymer Chemistry</i> , 2018, 9, 2116-2123.	1.9	25
42	Highly Energetic Materials-Hosted 3D Inverse Opal-like Porous Carbon: Stabilization/Desensitization of Explosives. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43857-43864.	4.0	7
43	Host Cell Mimic Polymersomes for Rapid Detection of Highly Pathogenic Influenza Virus via a Viral Fusion and Cell Entry Mechanism. <i>Advanced Functional Materials</i> , 2018, 28, 1800960.	7.8	12
44	Enhancement of Capturing Efficacy for Circulating Tumor Cells by Centrifugation. <i>Biochip Journal</i> , 2018, 12, 38-45.	2.5	5
45	Point-of-Care Diagnostics: Host Cell Mimic Polymersomes for Rapid Detection of Highly Pathogenic Influenza Virus via a Viral Fusion and Cell Entry Mechanism (<i>Adv. Funct. Mater.</i> 34/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870236.	7.8	1
46	DSG2 Is a Functional Cell Surface Marker for Identification and Isolation of Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 115-127.	2.3	21
47	Fluorescent nanoswitch for monitoring specific pluripotency-related microRNAs of induced pluripotent stem cells: Development of polyethyleneimine-oligonucleotide hybridization probes. <i>Nano Research</i> , 2017, 10, 2545-2559.	5.8	2
48	Minimum hyaluronic acid (HA) modified magnetic nanocrystals with less facilitated cancer migration and drug resistance for targeting CD44 abundant cancer cells by MR imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1400-1407.	2.9	9
49	Instantaneous pH-Boosted Functionalization of Stellate Gold Nanoparticles for Intracellular Imaging of miRNA. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17702-17709.	4.0	11
50	Strategies for using nanoprobe to perceive and treat cancer activity: a review. <i>Journal of Biological Engineering</i> , 2017, 11, 13.	2.0	11
51	Antiviral Agents: Reactive Oxygen Species-Regulating Polymersome as an Antiviral Agent against Influenza Virus (<i>Small</i> 32/2017). <i>Small</i> , 2017, 13, .	5.2	1
52	Reactive Oxygen Species-Regulating Polymersome as an Antiviral Agent against Influenza Virus. <i>Small</i> , 2017, 13, 1700818.	5.2	28
53	Anchored protease-activatable polymersomes for molecular diagnostics of metastatic cancer cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9571-9578.	2.9	14
54	Nanovesicle-mediated systemic delivery of microRNA-34a for CD44 overexpressing gastric cancer stem cell therapy. <i>Biomaterials</i> , 2016, 105, 12-24.	5.7	63

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55	Redoxable heteronanocrystals functioning magnetic relaxation switch for activatable T1 and T2 dual-mode magnetic resonance imaging. <i>Biomaterials</i> , 2016, 101, 121-130.	5.7	58
56	Cancer theranosis using mono-disperse, mesoporous gold nanoparticles obtained via a robust, high-yield synthetic methodology. <i>RSC Advances</i> , 2016, 6, 13554-13561.	1.7	14
57	Serially Ordered Magnetization of Nanoclusters via Control of Various Transition Metal Dopants for the Multifractionation of Cells in Microfluidic Magnetophoresis Devices. <i>Analytical Chemistry</i> , 2016, 88, 1078-1082.	3.2	5
58	Synthesis of Stable Magnetic Polyaniline Nanohybrids with Pyrene as a Cross-Linker for Simultaneous Diagnosis by Magnetic Resonance Imaging and Photothermal Therapy. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3740-3747.	1.0	12
59	Compensatory UTE/T2W Imaging of Inflammatory Vascular Wall in Hyperlipidemic Rabbits. <i>PLoS ONE</i> , 2015, 10, e0124572.	1.1	2
60	Scalable synthesis of djurleite copper sulphide (Cu _{1.94} S) hexagonal nanoplates from a single precursor copper thiocyanate and their photothermal properties. <i>CrystEngComm</i> , 2015, 17, 4627-4631.	1.3	36
61	Label-free detection of zinc oxide nanowire using a graphene wrapping method. <i>Biosensors and Bioelectronics</i> , 2015, 68, 481-486.	5.3	6
62	Self-Doped Conjugated Polymeric Nanoassembly by Simplified Process for Optical Cancer Theragnosis. <i>Advanced Functional Materials</i> , 2015, 25, 2260-2269.	7.8	20
63	Co-delivery of paclitaxel and gemcitabine via CD44-targeting nanocarriers as a prodrug with synergistic antitumor activity against human biliary cancer. <i>Biomaterials</i> , 2015, 53, 763-774.	5.7	112
64	Colourimetric redox-polyaniline nanoindicator for in situ vesicular trafficking of intracellular transport. <i>Nano Research</i> , 2015, 8, 1169-1179.	5.8	8
65	Feasibility of terahertz reflectometry for discrimination of human early gastric cancers. <i>Biomedical Optics Express</i> , 2015, 6, 1398.	1.5	69
66	Nanomaterials for Theranostics: Recent Advances and Future Challenges. <i>Chemical Reviews</i> , 2015, 115, 327-394.	23.0	1,063
67	A Multistep Photothermic-Driven Drug Release System Using Wire-Framed Au Nanobundles. <i>Advanced Healthcare Materials</i> , 2015, 4, 255-263.	3.9	8
68	Isolation of Foreign Material-Free Endothelial Progenitor Cells Using CD31 Aptamer and Therapeutic Application for Ischemic Injury. <i>PLoS ONE</i> , 2015, 10, e0131785.	1.1	21
69	Terahertz spectroscopic imaging and properties of gastrointestinal tract in a rat model. <i>Biomedical Optics Express</i> , 2014, 5, 4162.	1.5	32
70	Multimodal label-free detection and discrimination for small molecules using a nanoporous resonator. <i>Nature Communications</i> , 2014, 5, 3456.	5.8	19
71	Gadolinium-Enriched Polyaniline Particles (GPAPs) for Simultaneous Diagnostic Imaging and Localized Photothermal Therapy of Epithelial Cancer. <i>Advanced Healthcare Materials</i> , 2014, 3, 1408-1414.	3.9	34
72	Molecular recognition of proteolytic activity in metastatic cancer cells using fluorogenic gold nanoproboscopes. <i>Biosensors and Bioelectronics</i> , 2014, 57, 171-178.	5.3	15

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73	Efficient CD44-targeted magnetic resonance imaging (MRI) of breast cancer cells using hyaluronic acid (HA)-modified MnFe ₂ O ₄ nanocrystals. <i>Nanoscale Research Letters</i> , 2013, 8, 149.	3.1	33
74	A Biodegradable Polymersome Containing Bcl-2 siRNA and Doxorubicin as a Dual Delivery Vehicle for a Synergistic Anticancer Effect. <i>Macromolecular Bioscience</i> , 2013, 13, 745-754.	2.1	46
75	One-step electrochemical fabrication of vertically self-organized silver nanograss. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4851.	5.2	27
76	Hyaluronic acid receptor-targetable imidazolized nanovectors for induction of gastric cancer cell death by RNA interference. <i>Biomaterials</i> , 2013, 34, 4327-4338.	5.7	36
77	Redox-sensitive colorimetric polyaniline nanoprobe synthesized by a solvent-shift process. <i>Nano Research</i> , 2013, 6, 356-364.	5.8	20
78	Delivery of Cancer Therapeutics Using Nanotechnology. <i>Pharmaceutics</i> , 2013, 5, 294-317.	2.0	98
79	Effect of Ligand Structure on MnO Nanoparticles for Enhanced T ₁ Magnetic Resonance Imaging of Inflammatory Macrophages. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5960-5965.	1.0	15
80	Self-fabricated dextran-coated gold nanoparticles using pyrenyl dextran as a reducible stabilizer and their application as CT imaging agents for atherosclerosis. <i>Journal of Materials Chemistry</i> , 2012, 22, 17518.	6.7	25
81	Consecutive Targetable Smart Nanoprobe for Molecular Recognition of Cytoplasmic microRNA in Metastatic Breast Cancer. <i>ACS Nano</i> , 2012, 6, 8525-8535.	7.3	83
82	Innenrücktitelbild: Real-Time Quantitative Monitoring of Specific Peptide Cleavage by a Proteinase for Cancer Diagnosis (<i>Angew. Chem.</i> 24/2012). <i>Angewandte Chemie</i> , 2012, 124, 6119-6119.	1.6	0
83	Inside Back Cover: Real-Time Quantitative Monitoring of Specific Peptide Cleavage by a Proteinase for Cancer Diagnosis (<i>Angew. Chem. Int. Ed.</i> 24/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6015-6015.	7.2	0
84	Anchored Proteinase-Targetable Optomagnetic Nanoprobes for Molecular Imaging of Invasive Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 945-948.	7.2	42
85	Cancer Diagnosis by Terahertz Molecular Imaging Technique. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 74-81.	1.2	37
86	Hyaluronan-modified magnetic nanoclusters for detection of CD44-overexpressing breast cancer by MR imaging. <i>Biomaterials</i> , 2011, 32, 7941-7950.	5.7	104
87	Dextran-coated magnetic nanoclusters as highly sensitive contrast agents for magnetic resonance imaging of inflammatory macrophages. <i>Journal of Materials Chemistry</i> , 2011, 21, 12473.	6.7	32
88	Formation of MPEG-PLLA block copolymer microparticles using compressed carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1945-1951.	1.2	5
89	Specific Near-Infrared Absorption Imaging of Glioblastomas Using Integrin-Targeting Gold Nanorods. <i>Advanced Functional Materials</i> , 2011, 21, 1082-1088.	7.8	71
90	pH-Triggered Drug-Releasing Magnetic Nanoparticles for Cancer Therapy Guided by Molecular Imaging by MRI. <i>Advanced Materials</i> , 2011, 23, 2436-2442.	11.1	194

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91	Convertible Organic Nanoparticles for Near-Infrared Photothermal Ablation of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 441-444.	7.2	440
92	Prostate cancer cell death produced by the co-delivery of Bcl-xL shRNA and doxorubicin using an aptamer-conjugated polyplex. <i>Biomaterials</i> , 2010, 31, 4592-4599.	5.7	153
93	Magnetoplex based on MnFe ₂ O ₄ nanocrystals for magnetic labeling and MR imaging of human mesenchymal stem cells. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1275-1283.	0.8	9
94	Effects of Reaction Sequence on the Colloidal Polypyrrole Nanostructures and Conductivity. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 743-749.	1.3	9
95	Activatable nanomaterials at the forefront of biomedical sciences. <i>Journal of Materials Chemistry</i> , 2010, 20, 8194.	6.7	21
96	Gold-layered calcium phosphate plasmonic resonants for localized photothermal treatment of human epithelial cancer. <i>Journal of Materials Chemistry</i> , 2009, 19, 2902.	6.7	14
97	Self-labeled magneto nanoprobe using tri-aminated polysorbate 80 for detection of human mesenchymal stem cells. <i>Journal of Materials Chemistry</i> , 2009, 19, 8958.	6.7	21
98	Continuous flow magnetic cell fractionation based on antigen expression level. <i>Journal of Proteomics</i> , 2006, 68, 1-21.	2.4	42
99	PERMEATE FLUX BEHAVIOR DURING MICROFILTRATION OF PROTEIN-ADSORBED MICROSPHERES IN STIRRED CELL. , 2003, , .		0
100	Enzymatic synthesis of alkylglucosides by amphiphilic phase enzyme reaction. <i>Biotechnology Letters</i> , 2000, 22, 951-956.	1.1	7