Seungjoo Haam

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5267507/publications.pdf

Version: 2024-02-01

129 papers	4,528 citations	126907 33 h-index	110387 64 g-index
135 all docs	135 docs citations	135 times ranked	6981 citing authors

#	Article	IF	Citations
1	Convertible Organic Nanoparticles for Nearâ€Infrared Photothermal Ablation of Cancer Cells. Angewandte Chemie - International Edition, 2011, 50, 441-444.	13.8	440
2	Multifunctional Magnetoâ€Polymeric Nanohybrids for Targeted Detection and Synergistic Therapeutic Effects on Breast Cancer. Angewandte Chemie - International Edition, 2007, 46, 8836-8839.	13.8	311
3	pHâ€Triggered Drugâ€Releasing Magnetic Nanoparticles for Cancer Therapy Guided by Molecular Imaging by MRI. Advanced Materials, 2011, 23, 2436-2442.	21.0	194
4	Potential clinical applications of terahertz radiation. Journal of Applied Physics, 2019, 125, .	2.5	192
5	Antibody conjugated magnetic PLGA nanoparticles for diagnosis and treatment of breast cancer. Journal of Materials Chemistry, 2007, 17, 2695.	6.7	176
6	Prostate cancer cell death produced by the co-delivery of Bcl-xL shRNA and doxorubicin using an aptamer-conjugated polyplex. Biomaterials, 2010, 31, 4592-4599.	11.4	153
7	Smart Drugâ€Loaded Polymer Gold Nanoshells for Systemic and Localized Therapy of Human Epithelial Cancer. Advanced Materials, 2009, 21, 4339-4342.	21.0	151
8	Study of freshly excised brain tissues using terahertz imaging. Biomedical Optics Express, 2014, 5, 2837.	2.9	145
9	Urchinâ€Shaped Manganese Oxide Nanoparticles as pHâ€Responsive Activatable T₁ Contrast Agents for Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2011, 50, 10589-10593.	13.8	141
10	Porous gold nanoparticles for attenuating infectivity of influenza A virus. Journal of Nanobiotechnology, 2020, 18, 54.	9.1	113
11	Co-delivery of paclitaxel and gemcitabine via CD44-targeting nanocarriers as a prodrug with synergistic antitumor activity against human biliary cancer. Biomaterials, 2015, 53, 763-774.	11.4	112
12	Hyaluronan-modified magnetic nanoclusters for detection of CD44-overexpressing breast cancer by MR imaging. Biomaterials, 2011, 32, 7941-7950.	11.4	104
13	Targetable Gold Nanorods for Epithelial Cancer Therapy Guided by Nearâ€IR Absorption Imaging. Small, 2012, 8, 746-753.	10.0	98
14	Delivery of Cancer Therapeutics Using Nanotechnology. Pharmaceutics, 2013, 5, 294-317.	4.5	98
15	Terahertz reflectometry imaging for low and high grade gliomas. Scientific Reports, 2016, 6, 36040.	3.3	90
16	Consecutive Targetable Smart Nanoprobe for Molecular Recognition of Cytoplasmic microRNA in Metastatic Breast Cancer. ACS Nano, 2012, 6, 8525-8535.	14.6	83
17	Specific Nearâ€IR Absorption Imaging of Glioblastomas Using Integrinâ€Targeting Gold Nanorods. Advanced Functional Materials, 2011, 21, 1082-1088.	14.9	71
18	Novel hyaluronic acid (HA) coated drug carriers (HCDCs) for human breast cancer treatment. Biotechnology and Bioengineering, 2008, 99, 442-454.	3.3	65

#	Article	IF	Citations
19	Nanovesicle-mediated systemic delivery of microRNA-34a for CD44 overexpressing gastric cancer stem cell therapy. Biomaterials, 2016, 105, 12-24.	11.4	63
20	Label-free brain tissue imaging using large-area terahertz metamaterials. Biosensors and Bioelectronics, 2020, 170, 112663.	10.1	59
21	Redoxable heteronanocrystals functioning magnetic relaxation switch for activatable T1 and T2 dual-mode magnetic resonance imaging. Biomaterials, 2016, 101, 121-130.	11.4	58
22	Synthesis and characterization of mesoporous Fe/SiO2 for magnetic drug targeting. Journal of Materials Chemistry, 2006, 16, 1617.	6.7	55
23	Highly robust, uniform and ultra-sensitive surface-enhanced Raman scattering substrates for microRNA detection fabricated by using silver nanostructures grown in gold nanobowls. Nanoscale, 2018, 10, 3680-3687.	5.6	53
24	A Biodegradable Polymersome Containing Bclâ€xL siRNA and Doxorubicin as a Dual Delivery Vehicle for a Synergistic Anticancer Effect. Macromolecular Bioscience, 2013, 13, 745-754.	4.1	46
25	Anchored Proteinaseâ€Targetable Optomagnetic Nanoprobes for Molecular Imaging of Invasive Cancer Cells. Angewandte Chemie - International Edition, 2012, 51, 945-948.	13.8	42
26	Aptamer-modified magnetic nanoprobe for molecular MR imaging of VEGFR2 on angiogenic vasculature. Nanoscale Research Letters, 2013, 8, 399.	5.7	39
27	Magnetic nanocomplexes and the physiological challenges associated with their use for cancer imaging and therapy. Journal of Materials Chemistry B, 2013, 1, 729-739.	5.8	36
28	Hyaluronic acid receptor-targetable imidazolized nanovectors for induction of gastric cancer cell death by RNA interference. Biomaterials, 2013, 34, 4327-4338.	11.4	36
29	Macroscopic Ag nanostructure array patterns with high-density hotspots for reliable and ultra-sensitive SERS substrates. Nano Research, 2019, 12, 2554-2558.	10.4	35
30	Conformational characteristics of Î²-glucan in laminarin probed by terahertz spectroscopy. Applied Physics Letters, 2009, 94, .	3.3	34
31	Gadoliniumâ€Enriched Polyaniline Particles (GPAPs) for Simultaneous Diagnostic Imaging and Localized Photothermal Therapy of Epithelial Cancer. Advanced Healthcare Materials, 2014, 3, 1408-1414.	7.6	34
32	Sensitive Plasmonic Detection of miR-10b in Biological Samples Using Enzyme-Assisted Target Recycling and Developed LSPR Probe. ACS Applied Materials & Interfaces, 2019, 11, 18923-18929.	8.0	34
33	Efficient CD44-targeted magnetic resonance imaging (MRI) of breast cancer cells using hyaluronic acid (HA)-modified MnFe2O4 nanocrystals. Nanoscale Research Letters, 2013, 8, 149.	5.7	33
34	Effectively enhanced sensitivity of a polyanilineâ€“carbon nanotube composite thin film bolometric near-infrared sensor. Journal of Materials Chemistry, 2012, 22, 3215.	6.7	31
35	A Highly Crystalline Manganeseâ€Doped Iron Oxide Nanocontainer with Predesigned Void Volume and Shape for Theranostic Applications. Advanced Materials, 2013, 25, 3202-3208.	21.0	31
36	Aptamer-conjugated magnetic nanoparticles enable efficient targeted detection of integrin Î±vÎ²3 via magnetic resonance imaging. Journal of Biomedical Materials Research - Part A, 2014, 102, 49-59.	4.0	31

#	Article	IF	Citations
37	Measuring water contents in animal organ tissues using terahertz spectroscopic imaging. Biomedical Optics Express, 2018, 9, 1582.	2.9	30
38	Reactive Oxygen Speciesâ€Regulating Polymersome as an Antiviral Agent against Influenza Virus. Small, 2017, 13, 1700818.	10.0	28
39	Scalable fabrication of inkless, transfer-printed graphene-based textile microsupercapacitors with high rate capabilities. Journal of Power Sources, 2021, 481, 228939.	7.8	28
40	One-step electrochemical fabrication of vertically self-organized silver nanograss. Journal of Materials Chemistry A, 2013, 1, 4851.	10.3	27
41	Terahertz Reflection-Mode Biological Imaging Based on InP HBT Source and Detector. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 274-283.	3.1	27
42	A Strainâ€Regulated, Refillable Elastic Patch for Controlled Release. Advanced Materials Interfaces, 2016, 3, 1500803.	3.7	26
43	Self-fabricated dextran-coated gold nanoparticles using pyrenyl dextran as a reducible stabilizer and their application as CT imaging agents for atherosclerosis. Journal of Materials Chemistry, 2012, 22, 17518.	6.7	25
44	Efficient antiviral co-delivery using polymersomes by controlling the surface density of cell-targeting groups for influenza A virus treatment. Polymer Chemistry, 2018, 9, 2116-2123.	3.9	25
45	Advanced Nanomaterials for Preparedness Against (Reâ€)Emerging Viral Diseases. Advanced Materials, 2021, 33, e2005927.	21.0	24
46	Terahertz otoscope and potential for diagnosing otitis media. Biomedical Optics Express, 2016, 7, 1201.	2.9	22
47	Simultaneous dual-targeted monitoring of breast cancer circulating miRNA via surface-enhanced Raman spectroscopy. Biosensors and Bioelectronics, 2022, 207, 114143.	10.1	21
48	Highly selective CD44-specific gold nanorods for photothermal ablation of tumorigenic subpopulations generated in MCF7 mammospheres. Nanotechnology, 2012, 23, 465101.	2.6	20
49	Redox-sensitive colorimetric polyaniline nanoprobes synthesized by a solvent-shift process. Nano Research, 2013, 6, 356-364.	10.4	20
50	Cationic Poly(Amino Acid) Vaccine Adjuvant for Promoting Both Cellâ€Mediated and Humoral Immunity Against Influenza Virus. Advanced Healthcare Materials, 2019, 8, e1800953.	7.6	20
51	Ï€-Hyaluronan nanocarriers for CD44-targeted and pH-boosted aromatic drug delivery. Journal of Materials Chemistry B, 2013, 1, 5686.	5.8	19
52	Co-delivery of antigens and immunostimulantsviaa polymersome for improvement of antigen-specific immune response. Journal of Materials Chemistry B, 2020, 8, 5620-5626.	5.8	19
53	Matrix metalloproteinase 9-activatable peptide-conjugated hydrogel-based fluorogenic intraocular-lens sensor. Biosensors and Bioelectronics, 2020, 162, 112254.	10.1	19
54	ADSORPTION AND STEAM REGENERATION OF n-HEXANE, MEK, AND TOLUENE ON ACTIVATED CARBON FIBER. Separation Science and Technology, 2001, 36, 263-281.	2.5	18

#	Article	IF	Citations
55	Surfactant-free galvanic replacement for synthesis of raspberry-like silver nanostructure pattern with multiple hot-spots as sensitive and reproducible SERS substrates. Applied Surface Science, 2020, 505, 144548.	6.1	18
56	Application of Nanomaterials as an Advanced Strategy for the Diagnosis, Prevention, and Treatment of Viral Diseases. Pharmaceutics, 2021, 13, 1570.	4.5	17
57	Magnetic Nanoclusters Engineered by Polymerâ€Controlled Selfâ€Assembly for the Accurate Diagnosis of Atherosclerotic Plaques via Magnetic Resonance Imaging. Macromolecular Bioscience, 2014, 14, 943-952.	4.1	16
58	Formation of Interstitial Hot-Spots Using the Reduced Gap-Size between Plasmonic Microbeads Pattern for Surface-Enhanced Raman Scattering Analysis. Sensors, 2019, 19, 1046.	3.8	16
59	Effect of Ligand Structure on MnO Nanoparticles for Enhanced T₁ Magnetic Resonance Imaging of Inflammatory Macrophages. European Journal of Inorganic Chemistry, 2012, 2012, 5960-5965.	2.0	15
60	Water-stable single-walled carbon nanotubes coated by pyrenyl polyethylene glycol for fluorescence imaging and photothermal therapy. Biochip Journal, 2012, 6, 396-403.	4.9	15
61	Investigation of Keratinizing Squamous Cell Carcinoma of the Tongue Using Terahertz Reflection Imaging. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 247-256.	2.2	15
62	Comparative hyperthermia effects of silica–gold nanoshells with different surface coverage of gold clusters on epithelial tumor cells. International Journal of Nanomedicine, 2015, 10, 261.	6.7	14
63	Cancer theranosis using mono-disperse, mesoporous gold nanoparticles obtained via a robust, high-yield synthetic methodology. RSC Advances, 2016, 6, 13554-13561.	3.6	14
64	Anchored protease-activatable polymersomes for molecular diagnostics of metastatic cancer cells. Journal of Materials Chemistry B, 2017, 5, 9571-9578.	5.8	14
65	Highly Dense and Accessible Nanogaps in Auâ€“Ag Alloy Patterned Nanostructures for Surface-Enhanced Raman Spectroscopy Analysis. ACS Applied Nano Materials, 2020, 3, 5920-5927.	5.0	14
66	Fabrication of a near-infrared sensor using a polyaniline conducting polymer thin film. Thin Solid Films, 2012, 520, 6818-6821.	1.8	13
67	A visually distinguishable light interfering bioresponsive silica nanoparticle hydrogel sensor fabricated through the molecular imprinting technique. Journal of Materials Chemistry B, 2019, 7, 7120-7128.	5.8	13
68	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. ACS Sensors, 2020, 5, 3099-3108.	7.8	13
69	Synthesis of Stable Magnetic Polyaniline Nanohybrids with Pyrene as a Cross-Linker for Simultaneous Diagnosis by Magnetic Resonance Imaging and Photothermal Therapy. European Journal of Inorganic Chemistry, 2015, 2015, 3740-3747.	2.0	12
70	Host Cell Mimic Polymersomes for Rapid Detection of Highly Pathogenic Influenza Virus via a Viral Fusion and Cell Entry Mechanism. Advanced Functional Materials, 2018, 28, 1800960.	14.9	12
71	Cell-mimic polymersome-shielded islets for long-term immune protection of neonatal porcine islet-like cell clusters. Journal of Materials Chemistry B, 2020, 8, 2476-2482.	5.8	12
72	Inner structure- and surface-controlled hollow MnO nanocubes for high sensitive MR imaging contrast effect. Nano Convergence, 2020, 7, 16.	12.1	12

#	Article	IF	Citations
73	Double-ligand modulation for engineering magnetic nanoclusters. Nanoscale Research Letters, 2013, 8, 104.	5.7	11
74	Instantaneous pH-Boosted Functionalization of Stellate Gold Nanoparticles for Intracellular Imaging of miRNA. ACS Applied Materials & Interfaces, 2017, 9, 17702-17709.	8.0	11
75	miRNA sensing hydrogels capable of self-signal amplification for early diagnosis of Alzheimer's disease. Biosensors and Bioelectronics, 2022, 209, 114279.	10.1	11
76	Synthesis and characterization of fluorescent magneto polymeric nanoparticles (FMPNs) for bimodal imaging probes. Journal of Colloid and Interface Science, 2009, 340, 176-181.	9.4	10
77	Highly Sensitive and Reliable microRNA Detection with a Recyclable Microfluidic Device and an Easily Assembled SERS Substrate. ACS Omega, 2021, 6, 19656-19664.	3.5	10
78	Representation of Solidâ^'Liquid Equilibrium ofl-Ornithineâ^'l-Aspartate + Water + Methanol System Using the Chen Model for Mixed-Solvent Electrolyte Solution. Journal of Chemical & Engineering Data, 2001, 46, 1387-1391.	1.9	9
79	Minimum hyaluronic acid (HA) modified magnetic nanocrystals with less facilitated cancer migration and drug resistance for targeting CD44 abundant cancer cells by MR imaging. Journal of Materials Chemistry B, 2017, 5, 1400-1407.	5.8	9
80	Spectrally encoded slit confocal microscopy using a wavelength-swept laser. Journal of Biomedical Optics, 2015, 20, 036016.	2.6	8
81	Colourimetric redox-polyaniline nanoindicator for in situ vesicular trafficking of intracellular transport. Nano Research, 2015, 8, 1169-1179.	10.4	8
82	A Multistep Photothermicâ€Driven Drug Release System Using Wireâ€Framed Au Nanobundles. Advanced Healthcare Materials, 2015, 4, 255-263.	7.6	8
83	Improvement of Terahertz Wave Radiation for InAs Nanowires by Simple Dipping into Tap Water. Scientific Reports, 2016, 6, 36094.	3.3	8
84	Dengue Virusâ€“Polymersome Hybrid Nanovesicles for Advanced Drug Screening Using Real-Time Single Nanoparticleâ€“Virus Tracking. ACS Applied Materials & Interfaces, 2020, 12, 6876-6884.	8.0	8
85	Low-Loss Polytetrafluoroethylene Hexagonal Porous Fiber for Terahertz Pulse Transmission in the 6G Mobile Communication Window. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4623-4630.	4.6	8
86	Terahertz pulse imaging of fresh brain tumor. , 2011, , .		7
87	Convenient Monitoring System of Intracellular microRNA Expression during Adipogenesis via Mechanical Stimulusâ€Induced Exocytosis of Lipovesicular miRNA Beacon. Advanced Healthcare Materials, 2018, 7, 1701019.	7.6	7
88	Highly Energetic Materials-Hosted 3D Inverse Opal-like Porous Carbon: Stabilization/Desensitization of Explosives. ACS Applied Materials & Interfaces, 2018, 10, 43857-43864.	8.0	7
89	Bandgap-controlled hollow polyaniline nanostructures synthesized by Mn-dependent nano-confined polymerization. Nanoscale, 2019, 11, 2434-2438.	5.6	7
90	Kinetic stability modulation of polymeric nanoparticles for enhanced detection of influenza virus via penetration of viral fusion peptides. Journal of Materials Chemistry B, 2021, 9, 9658-9669.	5.8	7

#	Article	IF	Citations
91	Cell-mimetic biosensors to detect avian influenza virus via viral fusion. Biosensors and Bioelectronics, 2022, 212, 114407.	10.1	7
92	Cationic poly(amino acid) surface functionalized manganese nanoparticles for nitric oxide-based immunotherapy and magnetic resonance imaging. Journal of Materials Chemistry B, 2022, 10, 5402-5409.	5.8	7
93	PEGylated Magnetic Nano-Assemblies as Contrast Agents for Effective T2-Weighted MR Imaging. Nanomaterials, 2019, 9, 410.	4.1	6
94	Anodically Induced Chemical Etching of GaAs Wafers for a GaAs Nanowire-Based Flexible Terahertz Wave Emitter. ACS Applied Materials & Interfaces, 2020, 12, 50703-50712.	8.0	6
95	The effect of pH and transition metal ions on cysteine-assisted gold aggregation for a distinct colorimetric response. RSC Advances, 2021, 11, 9664-9674.	3.6	6
96	Immunomagnetic microfluidic integrated system for potency-based multiple separation of heterogeneous stem cells with high throughput capabilities. Biosensors and Bioelectronics, 2021, 194, 113576.	10.1	6
97	Synthesis of aminated polysorbate 80 for polyplexâ€mediated gene transfection. Biotechnology Progress, 2010, 26, 1528-1533.	2.6	5
98	Formation of MPEG-PLLA block copolymer microparticles using compressed carbon dioxide. Korean Journal of Chemical Engineering, 2011, 28, 1945-1951.	2.7	5
99	Stent containing CD44-targeting polymeric prodrug nanoparticles that release paclitaxel and gemcitabine in a time interval-controlled manner for synergistic human biliary cancer therapy. Journal of Materials Chemistry B, 2017, 5, 6317-6324.	5.8	5
100	Enhancement of Capturing Efficacy for Circulating Tumor Cells by Centrifugation. Biochip Journal, 2018, 12, 38-45.	4.9	5
101	Efficient Self-Assembled MicroRNA Delivery System Consisting of Cholesterol-Conjugated MicroRNA and PEGylated Polycationic Polymer for Tumor Treatment. ACS Applied Bio Materials, 2019, 2, 2219-2228.	4.6	5
102	Nanoparticle contrast agents for Terahertz medical imaging. , 2008, , .		4
103	Nondestructive evaluation on dispersion of steel fibers in UHPC using THz electromagnetic waves. Construction and Building Materials, 2018, 172, 293-299.	7.2	4
104	Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. ACS Omega, 2020, 5, 27749-27755.	3.5	4
105	In vivo monitoring platform of transplanted human stem cells using magnetic resonance imaging. Biosensors and Bioelectronics, 2021, 178, 113039.	10.1	4
106	Parameters determining the agglomeration behavior of anhydrous L-ornithine-L-aspartate (LOLA) crystals prepared by drowning out crystallization. Korean Journal of Chemical Engineering, 2003, 20, 1111-1117.	2.7	3
107	Agglomeration behavior of anhydrous L-ornithine-L-aspatate crystals during semi-batch drowning-out crystallization. Korean Journal of Chemical Engineering, 2006, 23, 819-826.	2.7	3
108	Bendingâ€Insensitive Flexible SERS Sensor for Stable and Sensitive Detection on Curved Surfaces. Advanced Materials Technologies, 2022, 7, .	5.8	3

#	Article	IF	Citations
109	High-sensitivity terahertz imaging technique using nanoparticle probes for medical applications. , 2010, , .		2
110	Compensatory UTE/T2W Imaging of Inflammatory Vascular Wall in Hyperlipidemic Rabbits. PLoS ONE, 2015, 10, e0124572.	2.5	2
111	Characterization of Proton-Irradiated Polyaniline Nanoparticles Using Terahertz Thermal Spectroscopy. Crystals, 2021, 11, 765.	2.2	2
112	Effect of Ultrasound on Recrystallization of 3-Nitro-1,2,4-triazole-5-one.. Journal of Chemical Engineering of Japan, 2000, 33, 842-847.	0.6	2
113	Terahertz Spectral Properties of PEO-Based Anti-Adhesion Films Cross-Linked by Electron Beam Irradiation. Polymers, 2022, 14, 2008.	4.5	2
114	Characteristics of Gadolinium Oxide Nanoparticles Using Terahertz Spectroscopy (abstract). , 2009, , .		1
115	Absorption spectrum of gafchromicÂ® EBT2 film with angular rotation. Journal of the Korean Physical Society, 2015, 67, 52-56.	0.7	1
116	Study of the Drying Kinetics of a Hyaluronic Acid Pellet by Using Terahertz Time-Domain Spectroscopy. Journal of the Korean Physical Society, 2019, 75, 895-898.	0.7	1
117	Real-time fluorescence imaging of a drug release using polymeric nanoparticles. , 2007, , .		0
118	Terahertz dynamics of electrolytes in aqueous biological media. , 2008, , .		0
119	A new terahertz technique for cancer diagnosis: T probe. , 2009, , .		0
120	Binding-state-dependent characteristics of β-glucans in laminarin studied by terahertz time-domain spectroscopy. , 2009, , .		0
121	Optical Properties of Laminarin Using Terahertz Time-Domain Spectroscopy (abstract). , 2009, , .		0
122	Characterization of blood cells by using terahertz waves. , 2011, , .		0
123	Photo-thermal therapeutics control technique using terahertz waves. , 2012, , .		0
124	MR thermometry analysis program for laser- or high-intensity focused ultrasound (HIFU)-induced heating at a clinical MR scanner. Journal of the Korean Physical Society, 2014, 65, 2126-2131.	0.7	0
125	Terahertz characteristics of InGaAs with periodically-positioned InAlAs insertion layers. , 2015, , .		0
126	Diagnosing otitis media using terahertz otoscope. , 2016, , .		0

#	Article	IF	Citations
127	Charactering water Contents in Organ tissues Using THz Pulses. , 2018, , .		0
128	Detection of Keratinizing Squamous Cell Carcinoma of The Tongue Using Terahertz Reflection Imaging. , 2019, , .		0
129	Terahertz Characteristics of InGaAs with Periodic InAlAs Insertion Layers. Applied Science and Convergence Technology, 2018, 27, 173-177.	0.9	0