Homan Kang

List of Publications by Year
in descending order

93 papers	3,252 citations	159358 30 h-index	155451 55 g-index
101 all docs	101 docs citations	101 times ranked	5173 citing authors

#	Article	IF	Citations
1	Tumorâ€Associated Immuneâ€Cellâ€Mediated Tumorâ€Targeting Mechanism with NIRâ€II Fluorescence Imaging. Advanced Materials, 2022, 34, e2106500.	11.1	36
2	Fast and Durable Intraoperative Nearâ€infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
3	Fast and Durable Intraoperative Nearâ€infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores. Angewandte Chemie, 2022, 134, .	1.6	3
4	Highly sensitive near-infrared SERS nanoprobes for in vivo imaging using gold-assembled silica nanoparticles with controllable nanogaps. Journal of Nanobiotechnology, 2022, 20, 130.	4.2	26
5	Injectable Thermosensitive Hydrogels for a Sustained Release of Iron Nanochelators. Advanced Science, 2022, 9, e2200872.	5.6	27
6	Topical pH Sensing NIR Fluorophores for Intraoperative Imaging and Surgery of Disseminated Ovarian Cancer. Advanced Science, 2022, 9, e2201416.	5.6	11
7	Image-guided drug delivery of nanotheranostics for targeted lung cancer therapy. Theranostics, 2022, 12, 4147-4162.	4.6	4
8	Fluorescent nanodiamond â€“ hyaluronate conjugates for target-specific molecular imaging. RSC Advances, 2021, 11, 23073-23081.	1.7	5
9	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. International Journal of Molecular Sciences, 2021, 22, 1752.	1.8	14
10	Whole body fluorescence lifetime multiplexing of tumor receptor expression. , 2021, , .		0
11	CD117-targeted intraoperative imaging of gastrointestinal stromal tumor using zwitterionic near-infrared fluorophores. , 2021, , .		0
12	ZW800â€PEG: A Renal Clearable Zwitterionic Nearâ€Infrared Fluorophore for Potential Clinical Translation. Angewandte Chemie, 2021, 133, 13966-13971.	1.6	5
13	ZW800â€PEG: A Renal Clearable Zwitterionic Nearâ€Infrared Fluorophore for Potential Clinical Translation. Angewandte Chemie - International Edition, 2021, 60, 13847-13852.	7.2	36
14	Graphical and SERS dual-modal identifier for encoding OBOC library. Sensors and Actuators B: Chemical, 2020, 303, 127211.	4.0	7
15	Colonyâ€stimulating factor 1 and its receptor are new potential therapeutic targets for allergic asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 357-369.	2.7	25
16	Renal Clearable Theranostic Nanoplatforms for Gastrointestinal Stromal Tumors. Advanced Materials, 2020, 32, e1905899.	11.1	34
17	Sizeâ€Dependent EPR Effect of Polymeric Nanoparticles on Tumor Targeting. Advanced Healthcare Materials, 2020, 9, e1901223.	3.9	264
18	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. Nano Research, 2020, 13, 3338-3346.	5.8	56

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19	Combating iron overload: a case for deferoxamine-based nanochelators. Nanomedicine, 2020, 15, 1341-1356.	1.7	21
20	Facile formulation of a long-wavelength cyanine for optical imaging in the second near-infrared window. Biomaterials Science, 2020, 8, 4199-4205.	2.6	16
21	Vaccine visualization using a zwitterionic near-infrared fluorophore (Conference Presentation). , 2020, , .		0
22	Chemical Modulation of Bioengineered Exosomes for Tissueâ€Specific Biodistribution. Advanced Therapeutics, 2019, 2, 1900111.	1.6	26
23	Renal clearable nanochelators for iron overload therapy. Nature Communications, 2019, 10, 5134.	5.8	83
24	Targeted molecular imaging of TLR4 in hepatocellular carcinoma using zwitterionic near-infrared fluorophores. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1548-1555.	1.1	18
25	Realâ€Time Imaging of Vaccine Biodistribution Using Zwitterionic NIR Nanoparticles. Advanced Healthcare Materials, 2019, 8, 1900035.	3.9	10
26	Two-dimensional SERS encoding method for on-bead peptide sequencing in high-throughput bioanalysis. Chemical Communications, 2019, 55, 2700-2703.	2.2	11
27	Fluorescence Lifetime-Based Tumor Contrast Enhancement Using an EGFR Antibodyâ€“Labeled Near-Infrared Fluorophore. Clinical Cancer Research, 2019, 25, 6653-6661.	3.2	24
28	Highly-Soluble Cyanine J-aggregates Entrapped by Liposomes for In Vivo Optical Imaging around 930 nm. Theranostics, 2019, 9, 381-390.	4.6	33
29	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2019, 11, 8374-8381.	4.0	21
30	Realâ€Time Imaging of Brain Tumor for Imageâ€Guided Surgery. Advanced Healthcare Materials, 2018, 7, e1800066.	3.9	67
31	Antibodyâ€Based Therapeutics: Ultrasensitive NIRâ€SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). Advanced Healthcare Materials, 2018, 7, 1870019.	3.9	0
32	Ultrasensitive NIRâ€SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. Advanced Healthcare Materials, 2018, 7, 1700870.	3.9	17
33	Theranostic nanosystems for targeted cancer therapy. Nano Today, 2018, 23, 59-72.	6.2	86
34	Development of a smartphone-based rapid dual fluorescent diagnostic system for the simultaneous detection of influenza A and H5 subtype in avian influenza A-infected patients. Theranostics, 2018, 8, 6132-6148.	4.6	29
35	Renallyâ€Clearable Polymeric Nanochelator for Iron Overload Therapy. FASEB Journal, 2018, 32, 571.7.	0.2	0
36	PSMA-targeted contrast agents for intraoperative imaging of prostate cancer,. Chemical Communications, 2017, 53, 1611-1614.	2.2	34

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37	Intraoperative Near-Infrared Fluorescence Imaging of Thymus in Preclinical Models. Annals of Thoracic Surgery, 2017, 103, 1132-1141.	0.7	4
38	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. RSC Advances, 2017, 7, 40255-40261.	1.7	15
39	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. Nanoscale, 2017, 9, 12556-12564.	2.8	28
40	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. RSC Advances, 2017, 7, 29679-29685.	1.7	1
41	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. PLoS ONE, 2017, 12, e0178651.	1.1	18
42	PSA Detection with Femtomolar Sensitivity and a Broad Dynamic Range Using SERS Nanoprobes and an Area-Scanning Method. ACS Sensors, 2016, 1, 645-649.	4.0	74
43	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Tripletâ€“Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. Environmental Science & Technology, 2016, 50, 11184-11192.	4.6	53
44	Renal Clearable Organic Nanocarriers for Bioimaging and Drug Delivery. Advanced Materials, 2016, 28, 8162-8168.	11.1	122
45	Photoacoustic imaging and surface-enhanced Raman spectroscopy using dual modal contrast agents. Proceedings of SPIE, 2016, , .	0.8	0
46	Large scale synthesis of surface-enhanced Raman scattering nanoprobes with high reproducibility and long-term stability. Journal of Industrial and Engineering Chemistry, 2016, 33, 22-27.	2.9	34
47	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERRS. Analyst, The, 2015, 140, 3362-3367.	1.7	14
48	Fabrication of Ag nanoaggregates/SiO2 yolkâ€“shell nanoprobes for surface-enhanced Raman scattering. Journal of Industrial and Engineering Chemistry, 2015, 32, 34-38.	2.9	6
49	Ligand immobilization on polydiacetylene-coated and surface-enhanced Raman scattering-encoded beads for label-free detection. Journal of Industrial and Engineering Chemistry, 2015, 21, 158-162.	2.9	12
50	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. RSC Advances, 2015, 5, 21050-21053.	1.7	12
51	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. Biomaterials, 2015, 45, 81-92.	5.7	69
52	Orientation and density control of bispecific anti-HER2 antibody on functionalized carbon nanotubes for amplifying effective binding reactivity to cancer cells. Nanoscale, 2015, 7, 6363-6373.	2.8	11
53	Direct Identification of On-Bead Peptides Using Surface-Enhanced Raman Spectroscopic Barcoding System for High-Throughput Bioanalysis. Scientific Reports, 2015, 5, 10144.	1.6	29
54	A fast and reliable readout method for quantitative analysis of surface-enhanced Raman scattering nanoprobes on chip surface. Review of Scientific Instruments, 2015, 86, 055004.	0.6	9

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55	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. RSC Advances, 2015, 5, 32072-32077.	1.7	13
56	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. Scientific Reports, 2015, 5, 9455.	1.6	73
57	Corrigendum to â€œTarget-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranesâ€•[Biomaterials 45 (2015) 81â€“92]. Biomaterials, 2015, 65, 124-125.	5.7	3
58	Pharmacokinetics, pharmacodynamics and toxicology of theranostic nanoparticles. Nanoscale, 2015, 7, 18848-18862.	2.8	115
59	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. PLoS ONE, 2015, 10, e0143727.	1.1	27
60	Nanoslit membrane integrated fluidic chip for micro/nano particle trapping and separation. , 2014, , .		2
61	Luminescent Graphene Oxide with a Peptideâ€Quencher Complex for Optical Detection of Cellâ€Secreted Proteases by a Turnâ€On Response. Advanced Functional Materials, 2014, 24, 5119-5128.	7.8	38
62	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobes. Journal of Materials Chemistry B, 2014, 2, 4415-4421.	2.9	51
63	Nanoslit membrane-integrated fluidic chip for protein detection based on size-dependent particle trapping. Lab on A Chip, 2014, 14, 237-243.	3.1	9
64	Ag Shellâ€“Au Satellite Hetero-Nanostructure for Ultra-Sensitive, Reproducible, and Homogeneous NIR SERS Activity. ACS Applied Materials & Interfaces, 2014, 6, 11859-11863.	4.0	49
65	Plasmon-enhanced dye-sensitized solar cells using SiO2 spheres decorated with tightly assembled silver nanoparticles. RSC Advances, 2014, 4, 19851.	1.7	17
66	Single-Step and Rapid Growth of Silver Nanoshells as SERS-Active Nanostructures for Label-Free Detection of Pesticides. ACS Applied Materials & Interfaces, 2014, 6, 12541-12549.	4.0	130
67	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. Journal of Industrial and Engineering Chemistry, 2014, 20, 2646-2649.	2.9	65
68	Controlled Clustering of Gold Nanoparticles using Solid-support for Surface-enhanced Raman Spectroscopic Probes. Bulletin of the Korean Chemical Society, 2014, 35, 941-944.	1.0	1
69	Fluorescence-Raman (Dual-modal) Endoscopic System for Real-time in vivo Multiplexed Molecular Diagnosis. , 2014, , .		0
70	Nearâ€Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollowâ€Shell Assemblies for In Vivo Multiplex Detection. Advanced Functional Materials, 2013, 23, 3719-3727.	7.8	121
71	Quantum dot-assembled nanoparticles with polydiacetylene supramolecule toward label-free, multiplexed optical detection. Journal of Colloid and Interface Science, 2013, 394, 44-48.	5.0	8
72	Polymer-Mediated Formation and Assembly of Silver Nanoparticles on Silica Nanospheres for Sensitive Surface-Enhanced Raman Scattering Detection. ACS Applied Materials & Interfaces, 2013, 5, 12804-12810.	4.0	15

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73	Nanoprobes: Nearâ€Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollowâ€Shell Assemblies for In Vivo Multiplex Detection (Adv. Funct. Mater. 30/2013). Advanced Functional Materials, 2013, 23, 3828-3828.	7.8	2
74	Ultrasensitive, Biocompatible, Quantumâ€Dotâ€Embedded Silica Nanoparticles for Bioimaging. Advanced Functional Materials, 2012, 22, 1843-1849.	7.8	123
75	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (Adv. Funct. Mater. 9/2012). Advanced Functional Materials, 2012, 22, 1774-1774.	7.8	0
76	Fluorescence-Based Multiplex Protein Detection Using Optically Encoded Microbeads. Molecules, 2012, 17, 2474-2490.	1.7	71
77	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. Rapid Communication in Photoscience, 2012, 1, 53-53.	0.1	0
78	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. Chemical Communications, 2011, 47, 2306-2308.	2.2	47
79	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. Nanomedicine, 2011, 6, 1463-1480.	1.7	127
80	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. Physical Chemistry Chemical Physics, 2011, 13, 7298.	1.3	32
81	Immobilization of Aptamer-Based Molecular Beacons Onto Optically-Encoded Micro-Sized Beads. Journal of Nanoscience and Nanotechnology, 2011, 11, 6249-6252.	0.9	5
82	Base Effects on Fabrication of Silver Nanoparticles Embedded Silica Nanocomposite for Surface-Enhanced Raman Scattering (SERS). Journal of Nanoscience and Nanotechnology, 2011, 11, 579-583.	0.9	19
83	Preparation of polydiacetylene immobilized optically encoded beads. Journal of Colloid and Interface Science, 2011, 355, 29-34.	5.0	13
84	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. Journal of Materials Science, 2010, 45, 3106-3108.	1.7	11
85	Multilayer fluorescence optically encoded beads for protein detection. Analytical Biochemistry, 2010, 396, 313-315.	1.1	17
86	Multifunctional Silverâ€Embedded Magnetic Nanoparticles as SERS Nanoprobes and Their Applications. Small, 2010, 6, 119-125.	5.2	184
87	The Optical Property Characterization of SERS-Encoded Nanoprobe. , 2010, , .		0
88	Recyclable NHC-Ni Complex Immobilized on Magnetite/Silica Nanoparticles for C-S Cross-Coupling of Aryl Halides with Thiols. Synlett, 2010, 2010, 2518-2522.	1.0	11
89	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. Biomaterials, 2009, 30, 3915-3925.	5.7	58
90	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. Analytical Biochemistry, 2009, 391, 24-30.	1.1	65

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91	Macroporous Polystyrene-Supported Palladium Catalyst Containing a Bulky N-Heterocyclic Carbene Ligand for Suzuki Reaction of Aryl Chlorides. Organic Letters, 2008, 10, 1609-1612.	2.4	132
92	Dihydroxylation of Olefins Catalyzed by Polystyrene-sg-imidazolium Resin-Supported Osmium Complex. Synlett, 2008, 2008, 2313-2316.	1.0	3
93	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. SSRN Electronic Journal, 0, , .	0.4	0