Homan Kang

List of Publications by Year in Descending Order

83 papers	2,340 citations	26 h-index	46 g-index
100 ext. papers	2,767 ext. citations	8.3 avg, IF	4.72 L-index

#	Paper	IF	Citations
83	Fast and Durable Intraoperative Near-infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores.. *Angewandte Chemie - International Edition*, **2022**,	16.4	4
82	Highly sensitive near-infrared SERS nanoprobes for in vivo imaging using gold-assembled silica nanoparticles with controllable nanogaps.. *Journal of Nanobiotechnology*, **2022**, 20, 130	9.4	3
81	Injectable Thermosensitive Hydrogels for a Sustained Release of Iron Nanochelators.. *Advanced Science*, **2022**, e2200872	13.6	3
80	Topical pH Sensing NIR Fluorophores for Intraoperative Imaging and Surgery of Disseminated Ovarian Cancer.. *Advanced Science*, **2022**, e2201416	13.6	2
79	Tumor-Associated Immune Cell Mediated Tumor Targeting Mechanism with NIR-II Fluorescence Imaging.. *Advanced Materials*, **2021**, e2106500	24	6
78	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. *Angewandte Chemie*, **2021**, 133, 13966-13971	3.6	3
77	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. *Angewandte Chemie - International Edition*, **2021**, 60, 13847-13852	16.4	10
76	Fluorescent nanodiamond - hyaluronate conjugates for target-specific molecular imaging. *RSC Advances*, **2021**, 11, 23073-23081	3.7	2
75	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
74	Combating iron overload: a case for deferoxamine-based nanochelators. *Nanomedicine*, **2020**,	5.6	7
73	Facile formulation of a long-wavelength cyanine for optical imaging in the second near-infrared window. *Biomaterials Science*, **2020**, 8, 4199-4205	7.4	7
72	Renal Clearable Theranostic Nanoplatforms for Gastrointestinal Stromal Tumors. *Advanced Materials*, **2020**, 32, e1905899	24	12
71	Size-Dependent EPR Effect of Polymeric Nanoparticles on Tumor Targeting. *Advanced Healthcare Materials*, **2020**, 9, e1901223	10.1	129
70	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. *Nano Research*, **2020**, 13, 3338-3346	10	17
69	Graphical and SERS dual-modal identifier for encoding OBOC library. *Sensors and Actuators B: Chemical*, **2020**, 303, 127211	8.5	5
68	Colony-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	9.3	13
67	Targeted molecular imaging of TLR4 in hepatocellular carcinoma using zwitterionic near-infrared fluorophores. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 1548-1555	3.6	10

66	Real-Time Imaging of Vaccine Biodistribution Using Zwitterionic NIR Nanoparticles. *Advanced Healthcare Materials*, **2019**, 8, e1900035	10.1	6
65	Chemical Modulation of Bioengineered Exosomes for Tissue-Specific Biodistribution. *Advanced Therapeutics*, **2019**, 2, 1900111	4.9	13
64	Renal clearable nanochelators for iron overload therapy. *Nature Communications*, **2019**, 10, 5134	17.4	34
63	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. *ACS Applied Materials & Interfaces*, **2019**, 11, 8374-8381	9.5	11
62	Two-dimensional SERS encoding method for on-bead peptide sequencing in high-throughput bioanalysis. *Chemical Communications*, **2019**, 55, 2700-2703	5.8	7
61	Fluorescence Lifetime-Based Tumor Contrast Enhancement Using an EGFR Antibody-Labeled Near-Infrared Fluorophore. *Clinical Cancer Research*, **2019**, 25, 6653-6661	12.9	13
60	Highly-Soluble Cyanine J-aggregates Entrapped by Liposomes for Optical Imaging around 930 nm. *Theranostics*, **2019**, 9, 381-390	12.1	20
59	Real-Time Imaging of Brain Tumor for Image-Guided Surgery. *Advanced Healthcare Materials*, **2018**, 7, e1800066	10.1	32
58	Antibody-Based Therapeutics: Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). *Advanced Healthcare Materials*, **2018**, 7, 1870019	10.1	
57	Renally-Clearable Polymeric Nanochelator for Iron Overload Therapy. *FASEB Journal*, **2018**, 32, 571.7	0.9	
56	Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. *Advanced Healthcare Materials*, **2018**, 7, 1700870	10.1	12
55	Theranostic Nanosystems for Targeted Cancer Therapy. *Nano Today*, **2018**, 23, 59-72	17.9	58
54	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	12.1	17
53	PSMA-targeted contrast agents for intraoperative imaging of prostate cancer. *Chemical Communications*, **2017**, 53, 1611-1614	5.8	27
52	Intraoperative Near-Infrared Fluorescence Imaging of Thymus in Preclinical Models. *Annals of Thoracic Surgery*, **2017**, 103, 1132-1141	2.7	3
51	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. *RSC Advances*, **2017**, 7, 40255-40261	3.7	13
50	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. *Nanoscale*, **2017**, 9, 12556-12564	7.7	25
49	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. *RSC Advances*, **2017**, 7, 29679-29685	3.7	1

48	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. *PLoS ONE*, **2017**, 12, e0178651	3.7	13
47	Renal Clearable Organic Nanocarriers for Bioimaging and Drug Delivery. *Advanced Materials*, **2016**, 28, 8162-8168	24	90
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	6.3	24
45	PSA Detection with Femtomolar Sensitivity and a Broad Dynamic Range Using SERS Nanoprobes and an Area-Scanning Method. *ACS Sensors*, **2016**, 1, 645-649	9.2	59
44	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. *Environmental Science & Technology*, **2016**, 50, 11184-11192	10.3	45
43	Orientation and density control of bispecific anti-HER2 antibody on functionalized carbon nanotubes for amplifying effective binding reactivity to cancer cells. *Nanoscale*, **2015**, 7, 6363-73	7.7	11
42	Direct identification of on-bead peptides using surface-enhanced Raman spectroscopic barcoding system for high-throughput bioanalysis. *Scientific Reports*, **2015**, 5, 10144	4.9	24
41	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	1.7	9
40	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. *RSC Advances*, **2015**, 5, 32072-32077	3.7	13
39	Fluorescence-Raman dual modal endoscopic system for multiplexed molecular diagnostics. *Scientific Reports*, **2015**, 5, 9455	4.9	63
38	Corrigendum to "Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes" [Biomaterials 45 (2015) 81-92]. *Biomaterials*, **2015**, 65, 124-125	15.6	2
37	Pharmacokinetics, pharmacodynamics and toxicology of theranostic nanoparticles. *Nanoscale*, **2015** , 7, 18848-62	7.7	88
36	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERRS. *Analyst, The*, **2015**, 140, 3362-7	5	13
35	Fabrication of Ag nanoaggregates/SiO2 yolk□shell nanoprobes for surface-enhanced Raman scattering. *Journal of Industrial and Engineering Chemistry*, **2015**, 32, 34-38	6.3	5
34	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	6.3	11
33	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. *RSC Advances*, **2015**, 5, 21050-21053	3.7	10
32	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	15.6	62
31	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. *PLoS ONE*, **2015**, 10, e0143727	3.7	25

30	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobes. *Journal of Materials Chemistry B*, **2014**, 2, 4415-4421	7.3	46
29	Nanoslit membrane-integrated fluidic chip for protein detection based on size-dependent particle trapping. *Lab on A Chip*, **2014**, 14, 237-43	7.2	7
28	Ag shell-Au satellite hetero-nanostructure for ultra-sensitive, reproducible, and homogeneous NIR SERS activity. *ACS Applied Materials & Interfaces*, **2014**, 6, 11859-63	9.5	41
27	Plasmon-enhanced dye-sensitized solar cells using SiO2 spheres decorated with tightly assembled silver nanoparticles. *RSC Advances*, **2014**, 4, 19851	3.7	15
26	Single-step and rapid growth of silver nanoshells as SERS-active nanostructures for label-free detection of pesticides. *ACS Applied Materials & Interfaces*, **2014**, 6, 12541-9	9.5	105
25	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 2646-2649	6.3	56
24	Luminescent Graphene Oxide with a Peptide-Quencher Complex for Optical Detection of Cell-Secreted Proteases by a Turn-On Response. *Advanced Functional Materials*, **2014**, 24, 5119-5128	15.6	35
23	Controlled Clustering of Gold Nanoparticles using Solid-support for Surface-enhanced Raman Spectroscopic Probes. *Bulletin of the Korean Chemical Society*, **2014**, 35, 941-944	1.2	1
22	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. *Advanced Functional Materials*, **2013**, 23, 3719-3727	15.6	106
21	Quantum dot-assembled nanoparticles with polydiacetylene supramolecule toward label-free, multiplexed optical detection. *Journal of Colloid and Interface Science*, **2013**, 394, 44-8	9.3	8
20	Polymer-mediated formation and assembly of silver nanoparticles on silica nanospheres for sensitive surface-enhanced Raman scattering detection. *ACS Applied Materials & Interfaces*, **2013**, 5, 12804-10	9.5	14
19	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection (Adv. Funct. Mater. 30/2013). *Advanced Functional Materials*, **2013**, 23, 3828-3828	15.6	1
18	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. *Advanced Functional Materials*, **2012**, 22, 1843-1849	15.6	108
17	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (Adv. Funct. Mater. 9/2012). *Advanced Functional Materials*, **2012**, 22, 1774-1774	15.6	
16	Fluorescence-based multiplex protein detection using optically encoded microbeads. *Molecules*, **2012**, 17, 2474-90	4.8	54
15	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. *Rapid Communication in Photoscience*, **2012**, 1, 53-53		
14	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. *Chemical Communications*, **2011**, 47, 2306-8	5.8	40
13	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. *Nanomedicine*, **2011**, 6, 1463-80	5.6	108

12	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. *Physical Chemistry Chemical Physics*, **2011**, 13, 7298-303	3.6	30
11	Immobilization of aptamer-based molecular beacons onto optically-encoded micro-sized beads. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 6249-52	1.3	5
10	Base effects on fabrication of silver nanoparticles embedded silica nanocomposite for surface-enhanced Raman scattering (SERS). *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 579-83	1.3	16
9	Preparation of polydiacetylene immobilized optically encoded beads. *Journal of Colloid and Interface Science*, **2011**, 355, 29-34	9.3	13
8	Recyclable NHC-Ni Complex Immobilized on Magnetite/Silica Nanoparticles for C-S Cross-Coupling of Aryl Halides with Thiols. *Synlett*, **2010**, 2010, 2518-2522	2.2	9
7	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. *Journal of Materials Science*, **2010**, 45, 3106-3108	4.3	11
6	Multilayer fluorescence optically encoded beads for protein detection. *Analytical Biochemistry*, **2010**, 396, 313-5	3.1	16
5	Multifunctional silver-embedded magnetic nanoparticles as SERS nanoprobes and their applications. *Small*, **2010**, 6, 119-25	11	161
4	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. *Biomaterials*, **2009**, 30, 3915-25	15.6	53
3	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. *Analytical Biochemistry*, **2009**, 391, 24-30	3.1	59
2	Macroporous polystyrene-supported palladium catalyst containing a bulky N-heterocyclic carbene ligand for Suzuki reaction of aryl chlorides. *Organic Letters*, **2008**, 10, 1609-12	6.2	119
1	Dihydroxylation of Olefins Catalyzed by Polystyrene-sg-imidazolium Resin-Supported Osmium Complex. *Synlett*, **2008**, 2008, 2313-2316	2.2	2