

Homan Kang

List of Publications by Year in descending order

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93
papers

3,252
citations

159358

30
h-index

155451

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101
all docs

101
docs citations

101
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Dependent EPR Effect of Polymeric Nanoparticles on Tumor Targeting. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901223.	3.9	264
2	Multifunctional Silver-Embedded Magnetic Nanoparticles as SERS Nanoprobes and Their Applications. <i>Small</i> , 2010, 6, 119-125.	5.2	184
3	Macroporous Polystyrene-Supported Palladium Catalyst Containing a Bulky <i>N</i> -Heterocyclic Carbene Ligand for Suzuki Reaction of Aryl Chlorides. <i>Organic Letters</i> , 2008, 10, 1609-1612.	2.4	132
4	Single-Step and Rapid Growth of Silver Nanoshells as SERS-Active Nanostructures for Label-Free Detection of Pesticides. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12541-12549.	4.0	130
5	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011, 6, 1463-1480.	1.7	127
6	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. <i>Advanced Functional Materials</i> , 2012, 22, 1843-1849.	7.8	123
7	Renal Clearable Organic Nanocarriers for Bioimaging and Drug Delivery. <i>Advanced Materials</i> , 2016, 28, 8162-8168.	11.1	122
8	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. <i>Advanced Functional Materials</i> , 2013, 23, 3719-3727.	7.8	121
9	Pharmacokinetics, pharmacodynamics and toxicology of theranostic nanoparticles. <i>Nanoscale</i> , 2015, 7, 18848-18862.	2.8	115
10	Theranostic nanosystems for targeted cancer therapy. <i>Nano Today</i> , 2018, 23, 59-72.	6.2	86
11	Renal clearable nanochelators for iron overload therapy. <i>Nature Communications</i> , 2019, 10, 5134.	5.8	83
12	PSA Detection with Femtomolar Sensitivity and a Broad Dynamic Range Using SERS Nanoprobes and an Area-Scanning Method. <i>ACS Sensors</i> , 2016, 1, 645-649.	4.0	74
13	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. <i>Scientific Reports</i> , 2015, 5, 9455.	1.6	73
14	Fluorescence-Based Multiplex Protein Detection Using Optically Encoded Microbeads. <i>Molecules</i> , 2012, 17, 2474-2490.	1.7	71
15	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. <i>Biomaterials</i> , 2015, 45, 81-92.	5.7	69
16	Real-Time Imaging of Brain Tumor for Image-Guided Surgery. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800066.	3.9	67
17	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. <i>Analytical Biochemistry</i> , 2009, 391, 24-30.	1.1	65
18	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2646-2649.	2.9	65

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19	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. <i>Biomaterials</i> , 2009, 30, 3915-3925.	5.7	58
20	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. <i>Nano Research</i> , 2020, 13, 3338-3346.	5.8	56
21	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. <i>Environmental Science & Technology</i> , 2016, 50, 11184-11192.	4.6	53
22	One-step synthesis of silver nanoshells with bumps for highly sensitive near-IR SERS nanoprobe. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4415-4421.	2.9	51
23	Ag Shell-Au Satellite Hetero-Nanostructure for Ultra-Sensitive, Reproducible, and Homogeneous NIR SERS Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11859-11863.	4.0	49
24	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011, 47, 2306-2308.	2.2	47
25	Luminescent Graphene Oxide with a Peptide-Quencher Complex for Optical Detection of Cell-Secreted Proteases by a Turn-On Response. <i>Advanced Functional Materials</i> , 2014, 24, 5119-5128.	7.8	38
26	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13847-13852.	7.2	36
27	Tumor-Associated Immune-Cell-Mediated Tumor-Targeting Mechanism with NIR-Fluorescence Imaging. <i>Advanced Materials</i> , 2022, 34, e2106500.	11.1	36
28	Large scale synthesis of surface-enhanced Raman scattering nanoprobe with high reproducibility and long-term stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 22-27.	2.9	34
29	PSMA-targeted contrast agents for intraoperative imaging of prostate cancer. <i>Chemical Communications</i> , 2017, 53, 1611-1614.	2.2	34
30	Renal Clearable Theranostic Nanoplatforams for Gastrointestinal Stromal Tumors. <i>Advanced Materials</i> , 2020, 32, e1905899.	11.1	34
31	Highly-Soluble Cyanine J-aggregates Entrapped by Liposomes for <i>In Vivo</i> Optical Imaging around 930 nm. <i>Theranostics</i> , 2019, 9, 381-390.	4.6	33
32	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7298.	1.3	32
33	Direct Identification of On-Bead Peptides Using Surface-Enhanced Raman Spectroscopic Barcoding System for High-Throughput Bioanalysis. <i>Scientific Reports</i> , 2015, 5, 10144.	1.6	29
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. <i>Theranostics</i> , 2018, 8, 6132-6148.	4.6	29
35	A dual modal silver bumpy nanoprobe for photoacoustic imaging and SERS multiplexed identification of in vivo lymph nodes. <i>Nanoscale</i> , 2017, 9, 12556-12564.	2.8	28
36	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015, 10, e0143727.	1.1	27

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37	Injectable Thermosensitive Hydrogels for a Sustained Release of Iron Nanochelators. <i>Advanced Science</i> , 2022, 9, e2200872.	5.6	27
38	Chemical Modulation of Bioengineered Exosomes for Tissue-Specific Biodistribution. <i>Advanced Therapeutics</i> , 2019, 2, 1900111.	1.6	26
39	Highly sensitive near-infrared SERS nanoprobe for in vivo imaging using gold-assembled silica nanoparticles with controllable nanogaps. <i>Journal of Nanobiotechnology</i> , 2022, 20, 130.	4.2	26
40	Colony-stimulating factor 1 and its receptor are new potential therapeutic targets for allergic asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 357-369.	2.7	25
41	Fluorescence Lifetime-Based Tumor Contrast Enhancement Using an EGFR Antibody-Labeled Near-Infrared Fluorophore. <i>Clinical Cancer Research</i> , 2019, 25, 6653-6661.	3.2	24
42	Combating iron overload: a case for deferoxamine-based nanochelators. <i>Nanomedicine</i> , 2020, 15, 1341-1356.	1.7	21
43	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8374-8381.	4.0	21
44	Base Effects on Fabrication of Silver Nanoparticles Embedded Silica Nanocomposite for Surface-Enhanced Raman Scattering (SERS). <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 579-583.	0.9	19
45	Targeted molecular imaging of TLR4 in hepatocellular carcinoma using zwitterionic near-infrared fluorophores. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 1548-1555.	1.1	18
46	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. <i>PLoS ONE</i> , 2017, 12, e0178651.	1.1	18
47	Multilayer fluorescence optically encoded beads for protein detection. <i>Analytical Biochemistry</i> , 2010, 396, 313-315.	1.1	17
48	Plasmon-enhanced dye-sensitized solar cells using SiO ₂ spheres decorated with tightly assembled silver nanoparticles. <i>RSC Advances</i> , 2014, 4, 19851.	1.7	17
49	Ultrasensitive NIR-SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700870.	3.9	17
50	Facile formulation of a long-wavelength cyanine for optical imaging in the second near-infrared window. <i>Biomaterials Science</i> , 2020, 8, 4199-4205.	2.6	16
51	Polymer-Mediated Formation and Assembly of Silver Nanoparticles on Silica Nanospheres for Sensitive Surface-Enhanced Raman Scattering Detection. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12804-12810.	4.0	15
52	Synthesis of optically tunable bumpy silver nanoshells by changing the silica core size and their SERS activities. <i>RSC Advances</i> , 2017, 7, 40255-40261.	1.7	15
53	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERS. <i>Analyst</i> , 2015, 140, 3362-3367.	1.7	14
54	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1752.	1.8	14

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55	Preparation of polydiacetylene immobilized optically encoded beads. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 29-34.	5.0	13
56	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015, 5, 32072-32077.	1.7	13
57	Ligand immobilization on polydiacetylene-coated and surface-enhanced Raman scattering-encoded beads for label-free detection. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 158-162.	2.9	12
58	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015, 5, 21050-21053.	1.7	12
59	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010, 45, 3106-3108.	1.7	11
60	Recyclable NHC-Ni Complex Immobilized on Magnetite/Silica Nanoparticles for C-S Cross-Coupling of Aryl Halides with Thiols. <i>Synlett</i> , 2010, 2010, 2518-2522.	1.0	11
61	Orientation and density control of bispecific anti-HER2 antibody on functionalized carbon nanotubes for amplifying effective binding reactivity to cancer cells. <i>Nanoscale</i> , 2015, 7, 6363-6373.	2.8	11
62	Two-dimensional SERS encoding method for on-bead peptide sequencing in high-throughput bioanalysis. <i>Chemical Communications</i> , 2019, 55, 2700-2703.	2.2	11
63	Topical pH Sensing NIR Fluorophores for Intraoperative Imaging and Surgery of Disseminated Ovarian Cancer. <i>Advanced Science</i> , 2022, 9, e2201416.	5.6	11
64	Real-time Imaging of Vaccine Biodistribution Using Zwitterionic NIR Nanoparticles. <i>Advanced Healthcare Materials</i> , 2019, 8, 1900035.	3.9	10
65	Fast and Durable Intraoperative Near-infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
66	Nanoslit membrane-integrated fluidic chip for protein detection based on size-dependent particle trapping. <i>Lab on A Chip</i> , 2014, 14, 237-243.	3.1	9
67	A fast and reliable readout method for quantitative analysis of surface-enhanced Raman scattering nanoprobe on chip surface. <i>Review of Scientific Instruments</i> , 2015, 86, 055004.	0.6	9
68	Quantum dot-assembled nanoparticles with polydiacetylene supramolecule toward label-free, multiplexed optical detection. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 44-48.	5.0	8
69	Graphical and SERS dual-modal identifier for encoding OBOC library. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127211.	4.0	7
70	Fabrication of Ag nanoaggregates/SiO ₂ yolk-shell nanoprobe for surface-enhanced Raman scattering. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 34-38.	2.9	6
71	Immobilization of Aptamer-Based Molecular Beacons Onto Optically-Encoded Micro-Sized Beads. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6249-6252.	0.9	5
72	Fluorescent nanodiamond hyaluronate conjugates for target-specific molecular imaging. <i>RSC Advances</i> , 2021, 11, 23073-23081.	1.7	5

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73	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. <i>Angewandte Chemie</i> , 2021, 133, 13966-13971.	1.6	5
74	Intraoperative Near-Infrared Fluorescence Imaging of Thymus in Preclinical Models. <i>Annals of Thoracic Surgery</i> , 2017, 103, 1132-1141.	0.7	4
75	Image-guided drug delivery of nanotheranostics for targeted lung cancer therapy. <i>Theranostics</i> , 2022, 12, 4147-4162.	4.6	4
76	Dihydroxylation of Olefins Catalyzed by Polystyrene-sg-imidazolium Resin-Supported Osmium Complex. <i>Synlett</i> , 2008, 2008, 2313-2316.	1.0	3
77	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]. <i>Biomaterials</i> , 2015, 65, 124-125.	5.7	3
78	Fast and Durable Intraoperative Near-Infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
79	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection (<i>Adv. Funct. Mater.</i> 30/2013). <i>Advanced Functional Materials</i> , 2013, 23, 3828-3828.	7.8	2
80	Nanoslit membrane integrated fluidic chip for micro/nano particle trapping and separation. , 2014, , .		2
81	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. <i>RSC Advances</i> , 2017, 7, 29679-29685.	1.7	1
82	Controlled Clustering of Gold Nanoparticles using Solid-support for Surface-enhanced Raman Spectroscopic Probes. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 941-944.	1.0	1
83	The Optical Property Characterization of SERS-Encoded Nanoprobe. , 2010, , .		0
84	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (<i>Adv. Funct. Mater.</i> 9/2012). <i>Advanced Functional Materials</i> , 2012, 22, 1774-1774.	7.8	0
85	Photoacoustic imaging and surface-enhanced Raman spectroscopy using dual modal contrast agents. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
86	Antibody-Based Therapeutics: Ultrasensitive NIR-SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (<i>Adv. Healthcare Mater.</i> 4/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870019.	3.9	0
87	Whole body fluorescence lifetime multiplexing of tumor receptor expression. , 2021, , .		0
88	CD117-targeted intraoperative imaging of gastrointestinal stromal tumor using zwitterionic near-infrared fluorophores. , 2021, , .		0
89	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. <i>Rapid Communication in Photoscience</i> , 2012, 1, 53-53.	0.1	0
90	Fluorescence-Raman (Dual-modal) Endoscopic System for Real-time in vivo Multiplexed Molecular Diagnosis. , 2014, , .		0

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91	Renallyâ€Clearable Polymeric Nanochelator for Iron Overload Therapy. FASEB Journal, 2018, 32, 571.7.	0.2	0
92	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. SSRN Electronic Journal, 0, , .	0.4	0
93	Vaccine visualization using a zwitterionic near-infrared fluorophore (Conference Presentation). , 2020, , .		0