

Homan Kang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Multifunctional silver-embedded magnetic nanoparticles as SERS nanoprobe and their applications. <i>Small</i> , 2010 , 6, 119-25	11	161
82	Size-Dependent EPR Effect of Polymeric Nanoparticles on Tumor Targeting. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901223	10.1	129
81	Macroporous polystyrene-supported palladium catalyst containing a bulky N-heterocyclic carbene ligand for Suzuki reaction of aryl chlorides. <i>Organic Letters</i> , 2008 , 10, 1609-12	6.2	119
80	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. <i>Advanced Functional Materials</i> , 2012 , 22, 1843-1849	15.6	108
79	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011 , 6, 1463-80	5.6	108
78	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	15.6	106
77	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, 12541-9	9.5	105
76	Renal Clearable Organic Nanocarriers for Bioimaging and Drug Delivery. <i>Advanced Materials</i> , 2016 , 28, 8162-8168	24	90
75	Pharmacokinetics, pharmacodynamics and toxicology of theranostic nanoparticles. <i>Nanoscale</i> , 2015 , 7, 18848-62	7.7	88
74	Fluorescence-Raman dual modal endoscopic system for multiplexed molecular diagnostics. <i>Scientific Reports</i> , 2015 , 5, 9455	4.9	63
73	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	15.6	62
72	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. <i>Analytical Biochemistry</i> , 2009 , 391, 24-30	3.1	59
71	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	9.2	59
70	Theranostic Nanosystems for Targeted Cancer Therapy. <i>Nano Today</i> , 2018 , 23, 59-72	17.9	58
69	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 2646-2649	6.3	56
68	Fluorescence-based multiplex protein detection using optically encoded microbeads. <i>Molecules</i> , 2012 , 17, 2474-90	4.8	54
67	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, 3915-25	15.6	53

66	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	7.3	46
65	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. <i>Environmental Science & Technology</i> , 2016 , 50, 11184-11192	10.3	45
64	Ag shell-Au satellite hetero-nanostructure for ultra-sensitive, reproducible, and homogeneous NIR SERS activity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11859-63	9.5	41
63	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011 , 47, 2306-8	5.8	40
62	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	15.6	35
61	Renal clearable nanochelators for iron overload therapy. <i>Nature Communications</i> , 2019 , 10, 5134	17.4	34
60	Real-Time Imaging of Brain Tumor for Image-Guided Surgery. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800066	10.1	32
59	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7298-303	3.6	30
58	PSMA-targeted contrast agents for intraoperative imaging of prostate cancer. <i>Chemical Communications</i> , 2017 , 53, 1611-1614	5.8	27
57	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	7.7	25
56	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015 , 10, e0143727	3.7	25
55	Direct identification of on-bead peptides using surface-enhanced Raman spectroscopic barcoding system for high-throughput bioanalysis. <i>Scientific Reports</i> , 2015 , 5, 10144	4.9	24
54	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	6.3	24
53	Highly-Soluble Cyanine J-aggregates Entrapped by Liposomes for Optical Imaging around 930 nm. <i>Theranostics</i> , 2019 , 9, 381-390	12.1	20
52	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. <i>Nano Research</i> , 2020 , 13, 3338-3346	10	17
51	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	12.1	17
50	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, 579-83	1.3	16
49	Multilayer fluorescence optically encoded beads for protein detection. <i>Analytical Biochemistry</i> , 2010 , 396, 313-5	3.1	16

48	Plasmon-enhanced dye-sensitized solar cells using SiO ₂ spheres decorated with tightly assembled silver nanoparticles. <i>RSC Advances</i> , 2014 , 4, 19851	3.7	15
47	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, 12804-10	9.5	14
46	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015 , 5, 32072-32077	3.7	13
45	Chemical Modulation of Bioengineered Exosomes for Tissue-Specific Biodistribution. <i>Advanced Therapeutics</i> , 2019 , 2, 1900111	4.9	13
44	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	3.7	13
43	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERRS. <i>Analyst, The</i> , 2015 , 140, 3362-7	5	13
42	Preparation of polydiacetylene immobilized optically encoded beads. <i>Journal of Colloid and Interface Science</i> , 2011 , 355, 29-34	9.3	13
41	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. <i>PLoS ONE</i> , 2017 , 12, e0178651	3.7	13
40	Fluorescence Lifetime-Based Tumor Contrast Enhancement Using an EGFR Antibody-Labeled Near-Infrared Fluorophore. <i>Clinical Cancer Research</i> , 2019 , 25, 6653-6661	12.9	13
39	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	9.3	13
38	Renal Clearable Theranostic Nanoplatfoms for Gastrointestinal Stromal Tumors. <i>Advanced Materials</i> , 2020 , 32, e1905899	24	12
37	Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700870	10.1	12
36	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, 6363-73	7.7	11
35	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	6.3	11
34	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010 , 45, 3106-3108	4.3	11
33	Effect of Alkylamines on Morphology Control of Silver Nanoshells for Highly Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8374-8381	9.5	11
32	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	3.6	10
31	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015 , 5, 21050-21053	3.7	10

30	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13847-13852	16.4	10
29	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	1.7	9
28	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	2.2	9
27	Quantum dot-assembled nanoparticles with polydiacetylene supramolecule toward label-free, multiplexed optical detection. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 44-8	9.3	8
26	Combating iron overload: a case for deferoxamine-based nanochelators. <i>Nanomedicine</i> , 2020 ,	5.6	7
25	Facile formulation of a long-wavelength cyanine for optical imaging in the second near-infrared window. <i>Biomaterials Science</i> , 2020 , 8, 4199-4205	7.4	7
24	Nanoslit membrane-integrated fluidic chip for protein detection based on size-dependent particle trapping. <i>Lab on A Chip</i> , 2014 , 14, 237-43	7.2	7
23	Two-dimensional SERS encoding method for on-bead peptide sequencing in high-throughput bioanalysis. <i>Chemical Communications</i> , 2019 , 55, 2700-2703	5.8	7
22	Real-Time Imaging of Vaccine Biodistribution Using Zwitterionic NIR Nanoparticles. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900035	10.1	6
21	Tumor-Associated Immune Cell Mediated Tumor Targeting Mechanism with NIR-II Fluorescence Imaging.. <i>Advanced Materials</i> , 2021 , e2106500	24	6
20	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	6.3	5
19	Immobilization of aptamer-based molecular beacons onto optically-encoded micro-sized beads. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6249-52	1.3	5
18	Graphical and SERS dual-modal identifier for encoding OBOC library. <i>Sensors and Actuators B: Chemical</i> , 2020 , 303, 127211	8.5	5
17	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
16	Fast and Durable Intraoperative Near-infrared Imaging of Ovarian Cancer Using Ultrabright Squaraine Fluorophores.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	4
15	Intraoperative Near-Infrared Fluorescence Imaging of Thymus in Preclinical Models. <i>Annals of Thoracic Surgery</i> , 2017 , 103, 1132-1141	2.7	3
14	ZW800-PEG: A Renal Clearable Zwitterionic Near-Infrared Fluorophore for Potential Clinical Translation. <i>Angewandte Chemie</i> , 2021 , 133, 13966-13971	3.6	3
13	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	9.4	3

12	Injectable Thermosensitive Hydrogels for a Sustained Release of Iron Nanochelators.. <i>Advanced Science</i> , 2022 , e2200872	13.6	3
11	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	15.6	2
10	Dihydroxylation of Olefins Catalyzed by Polystyrene- <i>sg</i> -imidazolium Resin-Supported Osmium Complex. <i>Synlett</i> , 2008 , 2008, 2313-2316	2.2	2
9	Fluorescent nanodiamond - hyaluronate conjugates for target-specific molecular imaging. <i>RSC Advances</i> , 2021 , 11, 23073-23081	3.7	2
8	Topical pH Sensing NIR Fluorophores for Intraoperative Imaging and Surgery of Disseminated Ovarian Cancer.. <i>Advanced Science</i> , 2022 , e2201416	13.6	2
7	Nanoslit-concentration-chip integrated microbead-based protein assay system for sensitive and quantitative detection. <i>RSC Advances</i> , 2017 , 7, 29679-29685	3.7	1
6	Nanoprobes: Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3828-3828	15.6	1
5	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	1.2	1
4	Antibody-Based Therapeutics: Ultrasensitive NIR-SERRS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation (Adv. Healthcare Mater. 4/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870019	10.1	
3	Quantum Dots: Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging (Adv. Funct. Mater. 9/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1774-1774	15.6	
2	Renally-Clearable Polymeric Nanochelator for Iron Overload Therapy. <i>FASEB Journal</i> , 2018 , 32, 571.7	0.9	
1	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		