Hyung-Mo Kim

List of Publications by Year
in descending order

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40	980	361045	454577
papers	citations	20	30
		h-index	g-index

41	41	41	1280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-quantum yield alloy-typed core/shell CdSeZnS/ZnS quantum dots for bio-applications. Journal of Nanobiotechnology, 2022, 20, 22.	4.2	22
2	Lateral Flow Immunoassay with Quantum-Dot-Embedded Silica Nanoparticles for Prostate-Specific Antigen Detection. Nanomaterials, 2022, 12, 33.	1.9	21
3	Multi-Quantum Dots-Embedded Silica-Encapsulated Nanoparticle-Based Lateral Flow Assay for Highly Sensitive Exosome Detection. Nanomaterials, 2021, 11, 768.	1.9	27
4	Auâ€“Ag assembled on silica nanoprobes for visual semiquantitative detection of prostate-specific antigen. Journal of Nanobiotechnology, 2021, 19, 73.	4.2	23
5	Silver-Assembled Silica Nanoparticles in Lateral Flow Immunoassay for Visual Inspection of Prostate-Specific Antigen. Sensors, 2021, 21, 4099.	2.1	11
6	Optimizing the Aspect Ratio of Nanopatterned Mesoporous TiO2 Thin-Film Layer to Improve Energy Conversion Efficiency of Perovskite Solar Cells. International Journal of Molecular Sciences, 2021, 22, 12235.	1.8	6
7	Sensitive and selective detection of 4-aminophenol in the presence of acetaminophen using goldâ€“silver coreâ€“shell nanoparticles embedded in silica nanostructures. Journal of Industrial and Engineering Chemistry, 2020, 83, 208-213.	2.9	16
8	Surface Modification of a Stable CdSeZnS/ZnS Alloy Quantum Dot for Immunoassay. Journal of Nanomaterials, 2020, 2020, 1-9.	1.5	5
9	Sensitive detection of virus with broad dynamic range based on highly bright quantum dot-embedded nanoprobe and magnetic beads. Journal of Industrial and Engineering Chemistry, 2020, 90, 319-326.	2.9	10
10	A Lateral Flow Immunoassay for Prostateâ€Specific Antigen Detection Using <scp>Silicaâ€Coated CdSe</scp>@<scp>ZnS</scp> Quantum Dots. Bulletin of the Korean Chemical Society, 2020, 41, 989-993.	1.0	9
11	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. Nano Research, 2020, 13, 3338-3346.	5.8	56
12	Facile Histamine Detection by Surface-Enhanced Raman Scattering Using SiO2@Au@Ag Alloy Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 4048.	1.8	26
13	Facile Synthesis of Cubic Magnetic <scp>Upâ€Conversion</scp> Nanoparticles. Bulletin of the Korean Chemical Society, 2020, 41, 682-685.	1.0	0
14	Sensitive Colorimetric Detection of Prostate Specific Antigen Using a Peroxidase-Mimicking Anti-PSA Antibody Coated Au Nanoparticle. Biochip Journal, 2020, 14, 158-168.	2.5	20
15	Silica-Coated Magnetic Iron Oxide Nanoparticles Grafted onto Graphene Oxide for Protein Isolation. Nanomaterials, 2020, 10, 117.	1.9	57
16	Plasmonic and charging effects in dye-sensitized solar cells with Au nanoparticles incorporated into the channels of freestanding TiO2 nanotube arrays by an electrodeposition method. Journal of Industrial and Engineering Chemistry, 2019, 80, 311-317.	2.9	13
17	4-Mercaptobenzoic Acid Labeled Gold-Silver-Alloy-Embedded Silica Nanoparticles as an Internal Standard Containing Nanostructures for Sensitive Quantitative Thiram Detection. International Journal of Molecular Sciences, 2019, 20, 4841.	1.8	40
18	Control of Silver Coating on Raman Label Incorporated Gold Nanoparticles Assembled Silica Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 1258.	1.8	26

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19	Fabrication of Remarkably Bright QD Denselyâ€Embedded Silica Nanoparticle. Bulletin of the Korean Chemical Society, 2019, 40, 9-13.	1.0	7
20	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. Scientific Reports, 2018, 8, 6290.	1.6	44
21	Polyethylene Glycol-Engrafted Graphene Oxide as Biocompatible Materials for Peptide Nucleic Acid Delivery into Cells. Bioconjugate Chemistry, 2018, 29, 528-537.	1.8	45
22	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. ACS Applied Materials & Interfaces, 2018, 10, 40748-40755.	4.0	49
23	Assembly of Plasmonic and Magnetic Nanoparticles with Fluorescent Silica Shell Layer for Tri-functional SERS-Magnetic-Fluorescence Probes and Its Bioapplications. Scientific Reports, 2018, 8, 13938.	1.6	30
24	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. Nanoscale, 2017, 9, 2548-2555.	2.8	39
25	Highly sensitive and reliable SERS probes based on nanogap control of a Auâ€“Ag alloy on silica nanoparticles. RSC Advances, 2017, 7, 7015-7021.	1.7	45
26	Glucose detection using 4-mercaptophenyl boronic acid-incorporated silver nanoparticles-embedded silica-coated graphene oxide as a SERS substrate. Biochip Journal, 2017, 11, 46-56.	2.5	43
27	Carbon-doped freestanding TiO₂ nanotube arrays in dye-sensitized solar cells. New Journal of Chemistry, 2017, 41, 285-289.	1.4	17
28	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. Nanomaterials, 2017, 7, 146.	1.9	8
29	Adenosine Triphosphate-Encapsulated Liposomes with Plasmonic Nanoparticles for Surface Enhanced Raman Scattering-Based Immunoassays. Sensors, 2017, 17, 1480.	2.1	8
30	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. PLoS ONE, 2017, 12, e0178651.	1.1	18
31	Facile Method for Preparation of Silica Coated Monodisperse Superparamagnetic Microspheres. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	14
32	Ag Nanoparticleâ€“Functionalized Open-Ended Freestanding TiO2 Nanotube Arrays with a Scattering Layer for Improved Energy Conversion Efficiency in Dye-Sensitized Solar Cells. Nanomaterials, 2016, 6, 117.	1.9	25
33	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. Nanomaterials, 2016, 6, 176.	1.9	13
34	Î²-CD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. Scientific Reports, 2016, 6, 26082.	1.6	31
35	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
36	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

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37	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
38	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. RSC Advances, 2015, 5, 21050-21053.	1.7	12
39	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. PLoS ONE, 2015, 10, e0143727.	1.1	27
40	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. Journal of Industrial and Engineering Chemistry, 2014, 20, 2646-2649.	2.9	65