Hye Jin Lee

List of Publications by Year
in descending order

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65 papers	2,602 citations	185998 28 h-index	189595 50 g-index
66 all docs	66 docs citations	66 times ranked	3651 citing authors

#	Article	IF	Citations
1	Real-Time Surface Plasmon Resonance Imaging Measurements for the Multiplexed Determination of Protein Adsorption/Desorption Kinetics and Surface Enzymatic Reactions on Peptide Microarrays. Analytical Chemistry, 2004, 76, 5677-5684.	3.2	181
2	Enzymatically Amplified Surface Plasmon Resonance Imaging Detection of DNA by Exonuclease III Digestion of DNA Microarrays. Analytical Chemistry, 2005, 77, 5096-5100.	3.2	160
3	Surface Plasmon Resonance Imaging Measurements of Antibody Arrays for the Multiplexed Detection of Low Molecular Weight Protein Biomarkers. Analytical Chemistry, 2006, 78, 6504-6510.	3.2	159
4	Nanoparticle-Enhanced Surface Plasmon Resonance Detection of Proteins at Attomolar Concentrations: Comparing Different Nanoparticle Shapes and Sizes. Analytical Chemistry, 2012, 84, 1702-1707.	3.2	148
5	Microarray methods for protein biomarker detection. Analyst, The, 2008, 133, 975.	1.7	134
6	Creating Advanced Multifunctional Biosensors with Surface Enzymatic Transformations. Langmuir, 2006, 22, 5241-5250.	1.6	103
7	Sustainable production of formic acid by electrolytic reduction of gaseous carbon dioxide. Journal of Materials Chemistry A, 2015, 3, 3029-3034.	5.2	95
8	Ultra-sensitive detection of IgE using biofunctionalized nanoparticle-enhanced SPR. Talanta, 2010, 81, 1755-1759.	2.9	85
9	Attomolar detection of protein biomarkers using biofunctionalized gold nanorods with surface plasmon resonance. Analyst, The, 2010, 135, 2528.	1.7	78
10	Ultrasensitive and Ultrawide Range Detection of a Cardiac Biomarker on a Surface Plasmon Resonance Platform. Analytical Chemistry, 2014, 86, 814-819.	3.2	78
11	Gold Nanostar Enhanced Surface Plasmon Resonance Detection of an Antibiotic at Attomolar Concentrations via an Aptamer-Antibody Sandwich Assay. Analytical Chemistry, 2017, 89, 6624-6630.	3.2	78
12	Amperometric bioaffinity sensing platform for avian influenza virus proteins with aptamer modified gold nanoparticles on carbon chips. Biosensors and Bioelectronics, 2015, 72, 355-361.	5.3	65
13	Femtomolar Detection of Tau Proteins in Undiluted Plasma Using Surface Plasmon Resonance. Analytical Chemistry, 2016, 88, 7793-7799.	3.2	65
14	Surface Enzyme Kinetics for Biopolymer Microarrays:Â a Combination of Langmuir and Michaelisâ"Menten Concepts. Langmuir, 2005, 21, 4050-4057.	1.6	61
15	Amperometric phenol biosensor based on covalent immobilization of tyrosinase on Au nanoparticle modified screen printed carbon electrodes. Talanta, 2013, 116, 991-996.	2.9	59
16	Layer-by-layer electrochemical biosensors configuring xanthine oxidase and carbon nanotubes/graphene complexes for hypoxanthine and uric acid in human serum solutions. Biosensors and Bioelectronics, 2018, 121, 265-271.	5.3	58
17	Voltammetric determination of paraquat at DNAâ€"gold nanoparticle composite electrodes. Electrochimica Acta, 2010, 55, 7892-7896.	2.6	55
18	Amperometric detection of catechol using tyrosinase modified electrodes enhanced by the layer-by-layer assembly of gold nanocubes and polyelectrolytes. Biosensors and Bioelectronics, 2014, 61, 147-151.	5.3	54

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19	Electrochemical sandwich-type biosensors for Î±â˜1 antitrypsin with carbon nanotubes and alkaline phosphatase labeled antibody-silver nanoparticles. Biosensors and Bioelectronics, 2017, 89, 959-963.	5.3	48
20	Fabricating RNA Microarrays with RNAâ˜DNA Surface Ligation Chemistry. Analytical Chemistry, 2005, 77, 7832-7837.	3.2	46
21	Dual Nanoparticle Amplified Surface Plasmon Resonance Detection of Thrombin at Subattomolar Concentrations. Analytical Chemistry, 2014, 86, 9824-9829.	3.2	44
22	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112109119.	3.3	40
23	Highly sensitive electrochemical detection of proteins using aptamer-coated gold nanoparticles and surface enzyme reactions. Analyst, The, 2012, 137, 2011.	1.7	39
24	Voltammetric Studies of Topotecan Transfer Across Liquid/Liquid Interfaces and Sensing Applications. Analytical Chemistry, 2015, 87, 5356-5362.	3.2	34
25	Amperometric tape ion sensors for cadmium(II) ion analysis. Talanta, 2009, 78, 66-70.	2.9	33
26	An aptamer-aptamer sandwich assay with nanorod-enhanced surface plasmon resonance for attomolar concentration of norovirus capsid protein. Sensors and Actuators B: Chemical, 2018, 273, 1029-1036.	4.0	33
27	Direct Detection of Î±-1 Antitrypsin in Serum Samples using Surface Plasmon Resonance with a New Aptamerâ€“Antibody Sandwich Assay. Analytical Chemistry, 2015, 87, 7235-7240.	3.2	32
28	Carbon nanomaterials and metallic nanoparticles-incorporated electrochemical sensors for small metabolites: Detection methodologies and applications. Current Opinion in Electrochemistry, 2020, 22, 234-243.	2.5	32
29	Application of Metalâ€Organic Frameworks in Adsorptive Removal of Organic Contaminants from Water, Fuel and Air. Chemistry - an Asian Journal, 2021, 16, 185-196.	1.7	31
30	A high-performing nanostructured TiO2 filter for volatile organic compounds using atomic layer deposition. Chemical Communications, 2011, 47, 5605-5607.	2.2	30
31	Comprehensive Analysis of Low-Molecular-Weight Human Plasma Proteome Using Top-Down Mass Spectrometry. Journal of Proteome Research, 2016, 15, 229-244.	1.8	28
32	Parts per Trillion Detection of Ni(II) Ions by Nanoparticle-Enhanced Surface Plasmon Resonance. Analytical Chemistry, 2012, 84, 10091-10096.	3.2	27
33	Electrochemical immunoassay for amyloid-beta 1â€“42 peptide in biological fluids interfacing with a gold nanoparticle modified carbon surface. Catalysis Today, 2017, 295, 41-47.	2.2	27
34	Enhanced bioaffinity sensing using surface plasmons, surface enzyme reactions, nanoparticles and diffraction gratings. Analyst, The, 2008, 133, 596.	1.7	25
35	Bioaffinity detection of pathogens on surfaces. Journal of Industrial and Engineering Chemistry, 2010, 16, 169-177.	2.9	25
36	Amperometric Detection of Parathion and Methyl Parathion with a Microholeâ€ITIES. Electroanalysis, 2011, 23, 2049-2056.	1.5	23

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37	Gold Nanoparticle-Enhanced and Roll-to-Roll Nanoimprinted LSPR Platform for Detecting Interleukin-10. Frontiers in Chemistry, 2020, 8, 285.	1.8	22
38	Highly sensitive electrochemical sensing based on 2-hydroxypropyl-Î²-cyclodextrin-functionalized graphene nanoribbons. Electrochemistry Communications, 2016, 66, 10-15.	2.3	20
39	A surface plasmon resonance biosensor in conjunction with a DNA aptamer-antibody bioreceptor pair for heterogeneous nuclear ribonucleoprotein A1 concentrations in colorectal cancer plasma solutions. Biosensors and Bioelectronics, 2020, 154, 112065.	5.3	19
40	Voltammetric Studies of Cu(II) Ion Transfer Reaction with Picolinamide-phenylenevinylene across Liquid/liquid Interfaces and Their Sensing Applications. Electrochimica Acta, 2014, 123, 198-204.	2.6	18
41	Amperometric bromate-sensitive sensor via layer-by-layer assembling of metalloporphyrin and polyelectrolytes on carbon nanotubes modified surfaces. Sensors and Actuators B: Chemical, 2017, 244, 157-166.	4.0	16
42	Ni(OH)2 Decorated Pt-Cu Octahedra for Ethanol Electrooxidation Reaction. Frontiers in Chemistry, 2019, 7, 608.	1.8	15
43	Amperometric sensing of sodium, calcium and potassium in biological fluids using a microhole supported liquid/gel interface. Journal of Electroanalytical Chemistry, 2016, 769, 5-10.	1.9	14
44	Tandem Femto- and Nanomolar Analysis of Two Protein Biomarkers in Plasma on a Single Mixed Antibody Monolayer Surface Using Surface Plasmon Resonance. Analytical Chemistry, 2017, 89, 12562-12568.	3.2	14
45	Cytotoxic and anticancer properties of new ruthenium polypyridyl complexes with different lipophilicities. Journal of Inorganic Biochemistry, 2018, 180, 204-210.	1.5	14
46	Electrochemical investigation on ionizable levofloxacin transfer reaction across liquid/liquid interfaces and potential applications to milk analysis. Electrochimica Acta, 2018, 282, 964-972.	2.6	14
47	Nanocomposites of poly(<scp>l</scp>-methionine), carbon nanotubeâ€“graphene complexes and Au nanoparticles on screen printed carbon electrodes for electrochemical analyses of dopamine and uric acid in human urine solutions. Analyst, The, 2020, 145, 3656-3665.	1.7	13
48	Second Harmonic Scattering from Silver Nanocubes. Journal of Physical Chemistry C, 2018, 122, 17447-17455.	1.5	12
49	Voltammetric layer-by-layer biosensor featuring purine nucleoside phosphorylase and chitosan for inosine in human serum solutions. Sensors and Actuators B: Chemical, 2019, 298, 126840.	4.0	12
50	Carbon anode thin films for lithium batteries. Current Applied Physics, 2014, 14, 1010-1015.	1.1	10
51	A serotonin voltammetric biosensor composed of carbon nanocomposites and DNA aptamer. Mikrochimica Acta, 2021, 188, 146.	2.5	9
52	Identification of Plasma Membrane Glycoproteins Specific to Human Glioblastoma Multiforme Cells Using Lectin Arrays and LCâ€MS/MS. Proteomics, 2018, 18, 1700302.	1.3	8
53	A short PEG linker alters the in vivo pharmacokinetics of trastuzumab to yield high-contrast immuno-PET images. Journal of Materials Chemistry B, 2021, 9, 2993-2997.	2.9	8
54	Adsorptive removal of herbicides with similar structures from water over nitrogen-enriched carbon, derived from melamine@metal-azolate framework-6. Environmental Research, 2022, 204, 111991.	3.7	7

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55	Fluorescent paper strip immunoassay with carbon nanodots@silica for determination of human serum amyloid A1. Mikrochimica Acta, 2021, 188, 386.	2.5	7
56	Determination of protein tyrosine kinase-7 concentration using electrocatalytic reaction and an aptamer-antibody sandwich assay platform. Catalysis Today, 2021, 359, 76-82.	2.2	6
57	New cyclopentadienyl rhodium catalysts for electrochemical hydrogen production. Catalysis Today, 2017, 295, 75-81.	2.2	5
58	Recent research trends in voltammetric sensing platforms for hormones and their applications to human serum analyses. Analytical Sciences, 2022, 38, 11-21.	0.8	5
59	Improved dimensional stability of Nafion membrane modified using a layer by layer self-assembly of biophilic polymers. Current Applied Physics, 2012, 12, 1235-1238.	1.1	4
60	Recent research trends in fluorescent <scp>reportersâ€based</scp> lateral flow immunoassay for protein biomarkers specific to acute myocardial infarction. Bulletin of the Korean Chemical Society, 2022, 43, 4-10.	1.0	4
61	Electrocatalytic determination of hydrazine concentrations with polyelectrolyte supported AuCo nanoparticles on carbon electrodes. Catalysis Today, 2022, 403, 11-18.	2.2	4
62	Gel electrophoretic analysis of differently shaped interacting and non-interacting bioconjugated nanoparticles. RSC Advances, 2016, 6, 109613-109619.	1.7	3
63	Development of metal enhanced fluorescent nanomaterials featuring gold nanocubes in proximity to carbon nanodots. Dyes and Pigments, 2022, 197, 109896.	2.0	3
64	Biofunctionalized Carbon <scp>Nanodotâ€Polystyrene</scp> Bead Conjugates for Bioanalysis Applications. Bulletin of the Korean Chemical Society, 2020, 41, 776-777.	1.0	2
65	Electrochemical Biosensing: From the Bench to the Real World. ChemElectroChem, 2017, 4, 751-752.	1.7	0