

Hye Jin Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3440025/publications.pdf>

Version: 2024-02-01

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	Adsorptive removal of herbicides with similar structures from water over nitrogen-enriched carbon, derived from melamine@metal-azolate framework-6. <i>Environmental Research</i> , 2022, 204, 111991.	3.7	7
2	Recent research trends in voltammetric sensing platforms for hormones and their applications to human serum analyses. <i>Analytical Sciences</i> , 2022, 38, 11-21.	0.8	5
3	Development of metal enhanced fluorescent nanomaterials featuring gold nanocubes in proximity to carbon nanodots. <i>Dyes and Pigments</i> , 2022, 197, 109896.	2.0	3
4	Recent research trends in fluorescent <sc>reporters–based</sc> lateral flow immunoassay for protein biomarkers specific to acute myocardial infarction. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 4-10.	1.0	4
5	Electrocatalytic determination of hydrazine concentrations with polyelectrolyte supported AuCo nanoparticles on carbon electrodes. <i>Catalysis Today</i> , 2022, 403, 11-18.	2.2	4
6	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112109119.	3.3	40
7	Determination of protein tyrosine kinase-7 concentration using electrocatalytic reaction and an aptamer-antibody sandwich assay platform. <i>Catalysis Today</i> , 2021, 359, 76-82.	2.2	6
8	Application of Metal–Organic Frameworks in Adsorptive Removal of Organic Contaminants from Water, Fuel and Air. <i>Chemistry - an Asian Journal</i> , 2021, 16, 185-196.	1.7	31
9	A serotonin voltammetric biosensor composed of carbon nanocomposites and DNA aptamer. <i>Mikrochimica Acta</i> , 2021, 188, 146.	2.5	9
10	A short PEG linker alters the <i>in vivo</i> pharmacokinetics of trastuzumab to yield high-contrast immuno-PET images. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2993-2997.	2.9	8
11	Fluorescent paper strip immunoassay with carbon nanodots@silica for determination of human serum amyloid A1. <i>Mikrochimica Acta</i> , 2021, 188, 386.	2.5	7
12	Biofunctionalized Carbon <sc>Nanodot–Polystyrene</sc> Bead Conjugates for Bioanalysis Applications. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 776-777.	1.0	2
13	Carbon nanomaterials and metallic nanoparticles-incorporated electrochemical sensors for small metabolites: Detection methodologies and applications. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 234-243.	2.5	32
14	Gold Nanoparticle-Enhanced and Roll-to-Roll Nanoimprinted LSPR Platform for Detecting Interleukin-10. <i>Frontiers in Chemistry</i> , 2020, 8, 285.	1.8	22
15	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. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112065.	5.3	19
16	Nanocomposites of poly(<sc>l</sc>-methionine), carbon nanotube–graphene complexes and Au nanoparticles on screen printed carbon electrodes for electrochemical analyses of dopamine and uric acid in human urine solutions. <i>Analyst</i> , 2020, 145, 3656-3665.	1.7	13
17	Voltammetric layer-by-layer biosensor featuring purine nucleoside phosphorylase and chitosan for inosine in human serum solutions. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126840.	4.0	12
18	Ni(OH) ₂ Decorated Pt-Cu Octahedra for Ethanol Electrooxidation Reaction. <i>Frontiers in Chemistry</i> , 2019, 7, 608.	1.8	15

#	ARTICLE	IF	CITATIONS
19	Cytotoxic and anticancer properties of new ruthenium polypyridyl complexes with different lipophilicities. <i>Journal of Inorganic Biochemistry</i> , 2018, 180, 204-210.	1.5	14
20	Identification of Plasma Membrane Glycoproteins Specific to Human Glioblastoma Multiforme Cells Using Lectin Arrays and LC-MS/MS. <i>Proteomics</i> , 2018, 18, 1700302.	1.3	8
21	Layer-by-layer electrochemical biosensors configuring xanthine oxidase and carbon nanotubes/graphene complexes for hypoxanthine and uric acid in human serum solutions. <i>Biosensors and Bioelectronics</i> , 2018, 121, 265-271.	5.3	58
22	Electrochemical investigation on ionizable levofloxacin transfer reaction across liquid/liquid interfaces and potential applications to milk analysis. <i>Electrochimica Acta</i> , 2018, 282, 964-972.	2.6	14
23	An aptamer-aptamer sandwich assay with nanorod-enhanced surface plasmon resonance for attomolar concentration of norovirus capsid protein. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1029-1036.	4.0	33
24	Second Harmonic Scattering from Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17447-17455.	1.5	12
25	Gold Nanostar Enhanced Surface Plasmon Resonance Detection of an Antibiotic at Attomolar Concentrations via an Aptamer-Antibody Sandwich Assay. <i>Analytical Chemistry</i> , 2017, 89, 6624-6630.	3.2	78
26	New cyclopentadienyl rhodium catalysts for electrochemical hydrogen production. <i>Catalysis Today</i> , 2017, 295, 75-81.	2.2	5
27	Electrochemical immunoassay for amyloid-beta 1-42 peptide in biological fluids interfacing with a gold nanoparticle modified carbon surface. <i>Catalysis Today</i> , 2017, 295, 41-47.	2.2	27
28	Electrochemical Biosensing: From the Bench to the Real World. <i>ChemElectroChem</i> , 2017, 4, 751-752.	1.7	0
29	Amperometric bromate-sensitive sensor via layer-by-layer assembling of metalloporphyrin and polyelectrolytes on carbon nanotubes modified surfaces. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 157-166.	4.0	16
30	Tandem Femto- and Nanomolar Analysis of Two Protein Biomarkers in Plasma on a Single Mixed Antibody Monolayer Surface Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2017, 89, 12562-12568.	3.2	14
31	Electrochemical sandwich-type biosensors for α -1 antitrypsin with carbon nanotubes and alkaline phosphatase labeled antibody-silver nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 89, 959-963.	5.3	48
32	Femtomolar Detection of Tau Proteins in Undiluted Plasma Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2016, 88, 7793-7799.	3.2	65
33	Gel electrophoretic analysis of differently shaped interacting and non-interacting bioconjugated nanoparticles. <i>RSC Advances</i> , 2016, 6, 109613-109619.	1.7	3
34	Comprehensive Analysis of Low-Molecular-Weight Human Plasma Proteome Using Top-Down Mass Spectrometry. <i>Journal of Proteome Research</i> , 2016, 15, 229-244.	1.8	28
35	Highly sensitive electrochemical sensing based on 2-hydroxypropyl- β -cyclodextrin-functionalized graphene nanoribbons. <i>Electrochemistry Communications</i> , 2016, 66, 10-15.	2.3	20
36	Amperometric sensing of sodium, calcium and potassium in biological fluids using a microhole supported liquid/gel interface. <i>Journal of Electroanalytical Chemistry</i> , 2016, 769, 5-10.	1.9	14

#	ARTICLE	IF	CITATIONS
37	Direct Detection of $\hat{1}\pm$ -1 Antitrypsin in Serum Samples using Surface Plasmon Resonance with a New Aptamerâ€“Antibody Sandwich Assay. <i>Analytical Chemistry</i> , 2015, 87, 7235-7240.	3.2	32
38	Amperometric bioaffinity sensing platform for avian influenza virus proteins with aptamer modified gold nanoparticles on carbon chips. <i>Biosensors and Bioelectronics</i> , 2015, 72, 355-361.	5.3	65
39	Voltammetric Studies of Topotecan Transfer Across Liquid/Liquid Interfaces and Sensing Applications. <i>Analytical Chemistry</i> , 2015, 87, 5356-5362.	3.2	34
40	Sustainable production of formic acid by electrolytic reduction of gaseous carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3029-3034.	5.2	95
41	Dual Nanoparticle Amplified Surface Plasmon Resonance Detection of Thrombin at Subattomolar Concentrations. <i>Analytical Chemistry</i> , 2014, 86, 9824-9829.	3.2	44
42	Ultrasensitive and Ultrawide Range Detection of a Cardiac Biomarker on a Surface Plasmon Resonance Platform. <i>Analytical Chemistry</i> , 2014, 86, 814-819.	3.2	78
43	Voltammetric Studies of Cu(II) Ion Transfer Reaction with Picolinamide-phenylenevinylene across Liquid/liquid Interfaces and Their Sensing Applications. <i>Electrochimica Acta</i> , 2014, 123, 198-204.	2.6	18
44	Carbon anode thin films for lithium batteries. <i>Current Applied Physics</i> , 2014, 14, 1010-1015.	1.1	10
45	Amperometric detection of catechol using tyrosinase modified electrodes enhanced by the layer-by-layer assembly of gold nanocubes and polyelectrolytes. <i>Biosensors and Bioelectronics</i> , 2014, 61, 147-151.	5.3	54
46	Amperometric phenol biosensor based on covalent immobilization of tyrosinase on Au nanoparticle modified screen printed carbon electrodes. <i>Talanta</i> , 2013, 116, 991-996.	2.9	59
47	Parts per Trillion Detection of Ni(II) Ions by Nanoparticle-Enhanced Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2012, 84, 10091-10096.	3.2	27
48	Highly sensitive electrochemical detection of proteins using aptamer-coated gold nanoparticles and surface enzyme reactions. <i>Analyst, The</i> , 2012, 137, 2011.	1.7	39
49	Nanoparticle-Enhanced Surface Plasmon Resonance Detection of Proteins at Attomolar Concentrations: Comparing Different Nanoparticle Shapes and Sizes. <i>Analytical Chemistry</i> , 2012, 84, 1702-1707.	3.2	148
50	Improved dimensional stability of Nafion membrane modified using a layer by layer self-assembly of biophilic polymers. <i>Current Applied Physics</i> , 2012, 12, 1235-1238.	1.1	4
51	A high-performing nanostructured TiO ₂ filter for volatile organic compounds using atomic layer deposition. <i>Chemical Communications</i> , 2011, 47, 5605-5607.	2.2	30
52	Amperometric Detection of Parathion and Methyl Parathion with a Microholeâ€“ETIES. <i>Electroanalysis</i> , 2011, 23, 2049-2056.	1.5	23
53	Bioaffinity detection of pathogens on surfaces. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 169-177.	2.9	25
54	Voltammetric determination of paraquat at DNAâ€“gold nanoparticle composite electrodes. <i>Electrochimica Acta</i> , 2010, 55, 7892-7896.	2.6	55

#	ARTICLE	IF	CITATIONS
55	Ultra-sensitive detection of IgE using biofunctionalized nanoparticle-enhanced SPR. <i>Talanta</i> , 2010, 81, 1755-1759.	2.9	85
56	Attomolar detection of protein biomarkers using biofunctionalized gold nanorods with surface plasmon resonance. <i>Analyst</i> , The, 2010, 135, 2528.	1.7	78
57	Amperometric tape ion sensors for cadmium(II) ion analysis. <i>Talanta</i> , 2009, 78, 66-70.	2.9	33
58	Microarray methods for protein biomarker detection. <i>Analyst</i> , The, 2008, 133, 975.	1.7	134
59	Enhanced bioaffinity sensing using surface plasmons, surface enzyme reactions, nanoparticles and diffraction gratings. <i>Analyst</i> , The, 2008, 133, 596.	1.7	25
60	Creating Advanced Multifunctional Biosensors with Surface Enzymatic Transformations. <i>Langmuir</i> , 2006, 22, 5241-5250.	1.6	103
61	Surface Plasmon Resonance Imaging Measurements of Antibody Arrays for the Multiplexed Detection of Low Molecular Weight Protein Biomarkers. <i>Analytical Chemistry</i> , 2006, 78, 6504-6510.	3.2	159
62	Enzymatically Amplified Surface Plasmon Resonance Imaging Detection of DNA by Exonuclease III Digestion of DNA Microarrays. <i>Analytical Chemistry</i> , 2005, 77, 5096-5100.	3.2	160
63	Fabricating RNA Microarrays with RNA-DNA Surface Ligation Chemistry. <i>Analytical Chemistry</i> , 2005, 77, 7832-7837.	3.2	46
64	Surface Enzyme Kinetics for Biopolymer Microarrays: A Combination of Langmuir and Michaelis-Menten Concepts. <i>Langmuir</i> , 2005, 21, 4050-4057.	1.6	61
65	Real-Time Surface Plasmon Resonance Imaging Measurements for the Multiplexed Determination of Protein Adsorption/Desorption Kinetics and Surface Enzymatic Reactions on Peptide Microarrays. <i>Analytical Chemistry</i> , 2004, 76, 5677-5684.	3.2	181