Min-Ho Lee

List of Publications by Year
in descending order

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59	1,756	218677	289244
papers	citations	26 h-index	40 g-index

60	60	60	2251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lowâ€Temperature Synthesis of Largeâ€Scale Molybdenum Disulfide Thin Films Directly on a Plastic Substrate Using Plasmaâ€Enhanced Chemical Vapor Deposition. Advanced Materials, 2015, 27, 5223-5229.	21.0	180
2	Gold nanoparticle/MXene for multiple and sensitive detection of oncomiRs based on synergetic signal amplification. Biosensors and Bioelectronics, 2020, 159, 112208.	10.1	95
3	Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous au nanoparticle for avian influenza virus (H5N1) in chicken serum. Materials Science and Engineering C, 2019, 99, 511-519.	7.3	87
4	Laser-induced graphene interdigitated electrodes for label-free or nanolabel-enhanced highly sensitive capacitive aptamer-based biosensors. Biosensors and Bioelectronics, 2020, 164, 112272.	10.1	70
5	Detachable microfluidic device implemented with electrochemical aptasensor (DeMEA) for sequential analysis of cancerous exosomes. Biosensors and Bioelectronics, 2020, 169, 112622.	10.1	66
6	Recent advances in sensitive surface-enhanced Raman scattering-based lateral flow assay platforms for point-of-care diagnostics of infectious diseases. Sensors and Actuators B: Chemical, 2021, 329, 129214.	7.8	65
7	â€˜Laccase-likeâ€™ properties of coral-like silver citrate micro-structures for the degradation and determination of phenolic pollutants and adrenaline. Journal of Hazardous Materials, 2021, 412, 125211.	12.4	57
8	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanospike on micro-gap/PCB system for detecting troponin I in human serum. Colloids and Surfaces B: Biointerfaces, 2019, 175, 343-350.	5.0	54
9	Waferâ€Scale and Lowâ€Temperature Growth of 1Tâ€WS₂ Film for Efficient and Stable Hydrogen Evolution Reaction. Small, 2020, 16, e1905000.	10.0	53
10	Label-Free Impedance Sensing of Aflatoxin B1 with Polyaniline Nanofibers/Au Nanoparticle Electrode Array. Sensors, 2018, 18, 1320.	3.8	49
11	A sensitive electrochemical sensor for in vitro detection of parathyroid hormone based on a MoS2-graphene composite. Scientific Reports, 2016, 6, 34587.	3.3	46
12	Kaempferol conjugated gold nanoclusters enabled efficient for anticancer therapeutics to A549 lung cancer cells . International Journal of Nanomedicine, 2019, Volume 14, 5147-5157.	6.7	45
13	Rapid, multiplexed, and nucleic acid amplification-free detection of SARS-CoV-2 RNA using an electrochemical biosensor. Biosensors and Bioelectronics, 2022, 195, 113649.	10.1	45
14	Magnetic Particles: Their Applications from Sample Preparations to Biosensing Platforms. Micromachines, 2020, 11, 302.	2.9	42
15	A MoS2@Ti3C2Tx MXene hybrid-based electrochemical aptasensor (MEA) for sensitive and rapid detection of Thyroxine. Bioelectrochemistry, 2021, 137, 107674.	4.6	42
16	2D Materials in Development of Electrochemical Point-of-Care Cancer Screening Devices. Micromachines, 2019, 10, 662.	2.9	37
17	Dual enzyme-like properties of silver nanoparticles decorated Ag2WO4 nanorods and its application for H2O2 and glucose sensing. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110840.	5.0	37
18	Flexible MoS₂â€“Polyimide Electrode for Electrochemical Biosensors and Their Applications for the Highly Sensitive Quantification of Endocrine Hormones: PTH, T3, and T4. Analytical Chemistry, 2020, 92, 6327-6333.	6.5	37

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19	Rapid electrochemical dual-target biosensor composed of an Aptamer/MXene hybrid on Au microgap electrodes for cytokines detection. Biosensors and Bioelectronics, 2022, 207, 114159.	10.1	36
20	Î²-Hydroxybutyrate dehydrogenase decorated MXene nanosheets for the amperometric determination of Î²-hydroxybutyrate. Mikrochimica Acta, 2020, 187, 277.	5.0	33
21	Electrochemical immunosensor for highly sensitive and quantitative detection of tumor necrosis factor-Î± in human serum. Bioelectrochemistry, 2018, 122, 93-102.	4.6	32
22	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. Micromachines, 2018, 9, 651.	2.9	31
23	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. Nanomaterials, 2019, 9, 1000.	4.1	30
24	In situ synthesis of MoS₂ on a polymer based gold electrode platform and its application in electrochemical biosensing. RSC Advances, 2015, 5, 10134-10138.	3.6	29
25	Photoluminescent AuNCs@UiO-66 for Ultrasensitive Detection of Mercury in Water Samples. ACS Omega, 2018, 3, 12052-12059.	3.5	28
26	Fabrication of electrochemical biosensor composed of multi-functional DNA/rhodium nanoplate heterolayer for thyroxine detection in clinical sample. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111240.	5.0	28
27	A pretreatment-free electrical capacitance biosensor for exosome detection in undiluted serum. Biosensors and Bioelectronics, 2022, 199, 113872.	10.1	28
28	Ultrasensitive Materials for Electrochemical Biosensor Labels. Sensors, 2021, 21, 89.	3.8	24
29	A MoS2â€“Au nanoparticle-modified immunosensor for T3 biomarker detection in clinical serum samples. Electrochimica Acta, 2020, 342, 136065.	5.2	23
30	Enhanced Detection of Infectious Pancreatic Necrosis Virus via Lateral Flow Chip and Fluorometric Biosensors Based on Self-Assembled Protein Nanoprobes. ACS Sensors, 2019, 4, 2937-2944.	7.8	22
31	Advances of MXenes; Perspectives on Biomedical Research. Biosensors, 2022, 12, 454.	4.7	22
32	Fabrication of Electrochemical Influenza Virus (H1N1) Biosensor Composed of Multifunctional DNA Four-Way Junction and Molybdenum Disulfide Hybrid Material. Materials, 2021, 14, 343.	2.9	20
33	Relay-race RNA/barcode gold nanoflower hybrid for wide and sensitive detection of microRNA in total patient serum. Biosensors and Bioelectronics, 2019, 141, 111468.	10.1	19
34	Development of the Troponin Detection System Based on the Nanostructure. Micromachines, 2019, 10, 203.	2.9	17
35	Nanostructured Au-Pt hybrid disk electrodes for enhanced parathyroid hormone detection in human serum. Bioelectrochemistry, 2019, 128, 165-174.	4.6	16
36	Portable Chemiluminescence-Based Lateral Flow Assay Platform for the Detection of Cortisol in Human Serum. Biosensors, 2021, 11, 191.	4.7	16

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37	Reusable urine glucose sensor based on functionalized graphene oxide conjugated Au electrode with protective layers. Biotechnology Reports (Amsterdam, Netherlands), 2014, 3, 49-53.	4.4	15
38	An efficient and rapid synthesis route to highly fluorescent copper microspheres for the selective and sensitive excitation wavelength-dependent dual-mode sensing of NADH. Sensors and Actuators B: Chemical, 2021, 327, 128887.	7.8	15
39	Dimeric-serotonin bivalent ligands induced gold nanoparticle aggregation for highly sensitive and selective serotonin biosensor. Biosensors and Bioelectronics, 2021, 191, 113447.	10.1	15
40	Robust Bioengineered Apoferritin Nanoprobes for Ultrasensitive Detection of Infectious Pancreatic Necrosis Virus. Analytical Chemistry, 2019, 91, 5841-5849.	6.5	14
41	Concurrent and Selective Determination of Dopamine and Serotonin with Flexible WS₂/Graphene/Polyimide Electrode Using Cold Plasma. Small, 2021, 17, e2102757.	10.0	14
42	Recent Advances in CRP Biosensor Based on Electrical, Electrochemical and Optical Methods. Sensors, 2021, 21, 3024.	3.8	13
43	Efficient and rapid synthesis of ultrathin nickel-metal organic framework nanosheets for the sensitive determination of glucose. Microchemical Journal, 2022, 179, 107462.	4.5	13
44	Biosynthesized Highly Stable Au/C Nanodots: Ideal Probes for the Selective and Sensitive Detection of Hg2+ Ions. Nanomaterials, 2019, 9, 245.	4.1	12
45	Solvent-induced charge formation and electrophoretic deposition of colloidal iron oxide nanoparticles. Surfaces and Interfaces, 2021, 22, 100815.	3.0	10
46	The first progress of plasma-based transition metal dichalcogenide synthesis: a stable 1T phase and promising applications. Nanoscale Advances, 2022, 4, 2962-2972.	4.6	10
47	Highly Sensitive ELISA Using Membrane-Based Microwave-Mediated Electrochemical Immunoassay for Thyroid-Stimulating Hormone Detection. IEEE Sensors Journal, 2019, 19, 9826-9831.	4.7	9
48	Reduced acoustic resonator dimensions improve focusing efficiency of bacteria and submicron particles. Analyst, The, 2022, 147, 274-281.	3.5	8
49	Fabrication of Repeatedly Usable Pt-Electrode Chip Coated With Solidified Glucose Oxidase and Ascorbate Oxidase for the Quantification of Glucose in Urine. , 2019, 3, 1-4.		7
50	Highly Sensitive Electrochemical Sensor for Diagnosis of Diabetic Ketoacidosis (DKA) by Measuring Ketone Bodies in Urine. Sensors, 2021, 21, 4902.	3.8	7
51	Recombinant Histidine-Tagged Nano-protein-based Highly Sensitive Electro-Sensing Device for Salivary Cortisol. Bioelectrochemistry, 2022, 144, 108046.	4.6	7
52	Membrane-Based Microwave-Mediated Electrochemical Immunoassay for the In Vitro, Highly Sensitive Detection of Osteoporosis-Related Biomarkers. Sensors, 2018, 18, 2933.	3.8	6
53	Aptamer Affinity-Bead Mediated Capture and Displacement of Gram-Negative Bacteria Using Acoustophoresis. Micromachines, 2019, 10, 770.	2.9	5
54	Quantitative Determination of Triiodothyronine by Electrochemical Impedance Spectroscopic Biosensor Using Gold Nanoparticle-Modified Electrode. Journal of Nanoscience and Nanotechnology, 2020, 20, 7163-7168.	0.9	5

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55	Polypyrrole-palladium nanocomposite as a high-efficiency transducer for thrombin detection with liposomes as a label. Analytical and Bioanalytical Chemistry, 2022, 414, 3205-3217.	3.7	4
56	Chromism-Integrated Sensors and Devices for Visual Indicators. Sensors, 2022, 22, 4288.	3.8	4
57	Elimination of Humic Acid from Aqueous Sample Using Zinc Oxide/Graphene Oxide-Coated Microbeads. Journal of Nanoscience and Nanotechnology, 2018, 18, 6360-6363.	0.9	1
58	Design of 3D Structure Membrane for the Increased Sensitivity in Enzyme Linked Immunosorbent Assay (mELISA). Applied Sciences (Switzerland), 2019, 9, 4171.	2.5	1
59	Development of a Movable Membrane Probe for the Pretreatment of Target Analytes in the Electrochemistry Based Assay. ECS Meeting Abstracts, 2020, MA2020-02, 3356-3356.	0.0	0