

# Min-Ho Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,756  
citations

218677

26  
h-index

289244

40  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid, multiplexed, and nucleic acid amplification-free detection of SARS-CoV-2 RNA using an electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113649.	10.1	45
2	Polypyrrole-palladium nanocomposite as a high-efficiency transducer for thrombin detection with liposomes as a label. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3205-3217.	3.7	4
3	A pretreatment-free electrical capacitance biosensor for exosome detection in undiluted serum. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113872.	10.1	28
4	Recombinant Histidine-Tagged Nano-protein-based Highly Sensitive Electro-Sensing Device for Salivary Cortisol. <i>Bioelectrochemistry</i> , 2022, 144, 108046.	4.6	7
5	Reduced acoustic resonator dimensions improve focusing efficiency of bacteria and submicron particles. <i>Analyst</i> , The, 2022, 147, 274-281.	3.5	8
6	Efficient and rapid synthesis of ultrathin nickel-metal organic framework nanosheets for the sensitive determination of glucose. <i>Microchemical Journal</i> , 2022, 179, 107462.	4.5	13
7	Rapid electrochemical dual-target biosensor composed of an Aptamer/MXene hybrid on Au microgap electrodes for cytokines detection. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114159.	10.1	36
8	The first progress of plasma-based transition metal dichalcogenide synthesis: a stable 1T phase and promising applications. <i>Nanoscale Advances</i> , 2022, 4, 2962-2972.	4.6	10
9	Chromism-Integrated Sensors and Devices for Visual Indicators. <i>Sensors</i> , 2022, 22, 4288.	3.8	4
10	Advances of MXenes; Perspectives on Biomedical Research. <i>Biosensors</i> , 2022, 12, 454.	4.7	22
11	A MoS <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene hybrid-based electrochemical aptasensor (MEA) for sensitive and rapid detection of Thyroxine. <i>Bioelectrochemistry</i> , 2021, 137, 107674.	4.6	42
12	Recent advances in sensitive surface-enhanced Raman scattering-based lateral flow assay platforms for point-of-care diagnostics of infectious diseases. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129214.	7.8	65
13	An efficient and rapid synthesis route to highly fluorescent copper microspheres for the selective and sensitive excitation wavelength-dependent dual-mode sensing of NADH. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128887.	7.8	15
14	Solvent-induced charge formation and electrophoretic deposition of colloidal iron oxide nanoparticles. <i>Surfaces and Interfaces</i> , 2021, 22, 100815.	3.0	10
15	Fabrication of Electrochemical Influenza Virus (H1N1) Biosensor Composed of Multifunctional DNA Four-Way Junction and Molybdenum Disulfide Hybrid Material. <i>Materials</i> , 2021, 14, 343.	2.9	20
16	Recent Advances in CRP Biosensor Based on Electrical, Electrochemical and Optical Methods. <i>Sensors</i> , 2021, 21, 3024.	3.8	13
17	“Laccase-like” properties of coral-like silver citrate micro-structures for the degradation and determination of phenolic pollutants and adrenaline. <i>Journal of Hazardous Materials</i> , 2021, 412, 125211.	12.4	57
18	Portable Chemiluminescence-Based Lateral Flow Assay Platform for the Detection of Cortisol in Human Serum. <i>Biosensors</i> , 2021, 11, 191.	4.7	16

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19	Highly Sensitive Electrochemical Sensor for Diagnosis of Diabetic Ketoacidosis (DKA) by Measuring Ketone Bodies in Urine. <i>Sensors</i> , 2021, 21, 4902.	3.8	7
20	Concurrent and Selective Determination of Dopamine and Serotonin with Flexible WS <sub>2</sub> /Graphene/Polyimide Electrode Using Cold Plasma. <i>Small</i> , 2021, 17, e2102757.	10.0	14
21	Dimeric-serotonin bivalent ligands induced gold nanoparticle aggregation for highly sensitive and selective serotonin biosensor. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113447.	10.1	15
22	Ultrasensitive Materials for Electrochemical Biosensor Labels. <i>Sensors</i> , 2021, 21, 89.	3.8	24
23	Wafer-Scale and Low-Temperature Growth of 1Tâ€WS <sub>2</sub> Film for Efficient and Stable Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e1905000.	10.0	53
24	Quantitative Determination of Triiodothyronine by Electrochemical Impedance Spectroscopic Biosensor Using Gold Nanoparticle-Modified Electrode. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7163-7168.	0.9	5
25	Detachable microfluidic device implemented with electrochemical aptasensor (DeMEA) for sequential analysis of cancerous exosomes. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112622.	10.1	66
26	Magnetic Particles: Their Applications from Sample Preparations to Biosensing Platforms. <i>Micromachines</i> , 2020, 11, 302.	2.9	42
27	A MoS <sub>2</sub> -Au nanoparticle-modified immunosensor for T3 biomarker detection in clinical serum samples. <i>Electrochimica Acta</i> , 2020, 342, 136065.	5.2	23
28	Fabrication of electrochemical biosensor composed of multi-functional DNA/rhodium nanoplate heterolayer for thyroxine detection in clinical sample. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111240.	5.0	28
29	Dual enzyme-like properties of silver nanoparticles decorated Ag <sub>2</sub> WO <sub>4</sub> nanorods and its application for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110840.	5.0	37
30	Flexible MoS <sub>2</sub> -Polyimide Electrode for Electrochemical Biosensors and Their Applications for the Highly Sensitive Quantification of Endocrine Hormones: PTH, T3, and T4. <i>Analytical Chemistry</i> , 2020, 92, 6327-6333.	6.5	37
31	Î <sup>2</sup> -Hydroxybutyrate dehydrogenase decorated MXene nanosheets for the amperometric determination of Î <sup>2</sup> -hydroxybutyrate. <i>Mikrochimica Acta</i> , 2020, 187, 277.	5.0	33
32	Gold nanoparticle/MXene for multiple and sensitive detection of oncomiRs based on synergetic signal amplification. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112208.	10.1	95
33	Laser-induced graphene interdigitated electrodes for label-free or nanolabel-enhanced highly sensitive capacitive aptamer-based biosensors. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112272.	10.1	70
34	Development of a Movable Membrane Probe for the Pretreatment of Target Analytes in the Electrochemistry Based Assay. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3356-3356.	0.0	0
35	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. <i>Nanomaterials</i> , 2019, 9, 1000.	4.1	30
36	&lt;p&gt;Kaempferol conjugated gold nanoclusters enabled efficient for anticancer therapeutics to A549 lung cancer cells&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5147-5157.	6.7	45

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37	Highly Sensitive ELISA Using Membrane-Based Microwave-Mediated Electrochemical Immunoassay for Thyroid-Stimulating Hormone Detection. <i>IEEE Sensors Journal</i> , 2019, 19, 9826-9831.	4.7	9
38	Enhanced Detection of Infectious Pancreatic Necrosis Virus via Lateral Flow Chip and Fluorometric Biosensors Based on Self-Assembled Protein Nanoprobes. <i>ACS Sensors</i> , 2019, 4, 2937-2944.	7.8	22
39	Design of 3D Structure Membrane for the Increased Sensitivity in Enzyme Linked Immunosorbent Assay (mELISA). <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4171.	2.5	1
40	2D Materials in Development of Electrochemical Point-of-Care Cancer Screening Devices. <i>Micromachines</i> , 2019, 10, 662.	2.9	37
41	Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous Au nanoparticle for avian influenza virus (H5N1) in chicken serum. <i>Materials Science and Engineering C</i> , 2019, 99, 511-519.	7.3	87
42	Relay-race RNA/barcode gold nanoflower hybrid for wide and sensitive detection of microRNA in total patient serum. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111468.	10.1	19
43	Nanostructured Au-Pt hybrid disk electrodes for enhanced parathyroid hormone detection in human serum. <i>Bioelectrochemistry</i> , 2019, 128, 165-174.	4.6	16
44	Development of the Troponin Detection System Based on the Nanostructure. <i>Micromachines</i> , 2019, 10, 203.	2.9	17
45	Robust Bioengineered Apoferritin Nanoprobes for Ultrasensitive Detection of Infectious Pancreatic Necrosis Virus. <i>Analytical Chemistry</i> , 2019, 91, 5841-5849.	6.5	14
46	Biosynthesized Highly Stable Au/C Nanodots: Ideal Probes for the Selective and Sensitive Detection of Hg <sup>2+</sup> Ions. <i>Nanomaterials</i> , 2019, 9, 245.	4.1	12
47	Aptamer Affinity-Bead Mediated Capture and Displacement of Gram-Negative Bacteria Using Acoustophoresis. <i>Micromachines</i> , 2019, 10, 770.	2.9	5
48	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
49	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanoparticle on micro-gap/PCB system for detecting troponin I in human serum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 343-350.	5.0	54
50	Electrochemical immunosensor for highly sensitive and quantitative detection of tumor necrosis factor- $\alpha$ in human serum. <i>Bioelectrochemistry</i> , 2018, 122, 93-102.	4.6	32
51	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. <i>Micromachines</i> , 2018, 9, 651.	2.9	31
52	Photoluminescent AuNCs@UiO-66 for Ultrasensitive Detection of Mercury in Water Samples. <i>ACS Omega</i> , 2018, 3, 12052-12059.	3.5	28
53	Membrane-Based Microwave-Mediated Electrochemical Immunoassay for the In Vitro, Highly Sensitive Detection of Osteoporosis-Related Biomarkers. <i>Sensors</i> , 2018, 18, 2933.	3.8	6
54	Label-Free Impedance Sensing of Aflatoxin B1 with Polyaniline Nanofibers/Au Nanoparticle Electrode Array. <i>Sensors</i> , 2018, 18, 1320.	3.8	49

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55	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
56	A sensitive electrochemical sensor for in vitro detection of parathyroid hormone based on a MoS <sub>2</sub> -graphene composite. Scientific Reports, 2016, 6, 34587.	3.3	46
57	Low-Temperature Synthesis of Large-Scale Molybdenum Disulfide Thin Films Directly on a Plastic Substrate Using Plasma-Enhanced Chemical Vapor Deposition. Advanced Materials, 2015, 27, 5223-5229.	21.0	180
58	In situ synthesis of MoS <sub>2</sub> on a polymer based gold electrode platform and its application in electrochemical biosensing. RSC Advances, 2015, 5, 10134-10138.	3.6	29
59	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