

Paper Performance

- 2024** - Active site engineering of Zn-doped mesoporous ceria toward highly efficient organophosphorus hydrolase-mimicking nanozyme - [Biosensors and Bioelectronics]
- 2024** - Rapid detection of Salmonella using an aptamer-functionalized PDA liposome sensor with naked-eye colorimetric sensing - [Materials Advances]
- 2024** - Colorimetric and Electrochemical Dual-Mode Detection of Thioredoxin 1 Based on the Efficient Peroxidase-Mimicking and Electrocatalytic Property of Prussian Blue Nanoparticles - [Biosensors]
- 2024** - Ultrahigh peroxidase-like catalytic performance of Cu -N 4 and Cu -N 4 S active sites-containing reduced graphene oxide for sensitive electrochemical biosensing - [Biosensors and Bioelectronics]
- 2024** - Histidine?cysteine?copper hybrid nanoflowers as active site-inspired laccase mimics for the colorimetric detection of phenolic compounds in PDMS microfluidic devices - [Sensors and Actuators B: Chemical]
- 2024** - Recent advances on nanozyme-based electrochemical biosensors for cancer biomarker detection - [TrAC Trends in Analytical Chemistry]
- 2023** - Foldable paper microfluidic device based on single iron site-containing hydrogel nanozyme for efficient glucose biosensing - [Chemical Engineering Journal]
- 2023** - Diversified component incorporated hybrid nanoflowers: A versatile material for biosensing and biomedical applications - [Korean Journal of Chemical Engineering]
- 2023** - Construction of a rapid electrochemical biosensor consisting of a nanozyme/aptamer conjugate for waterborne microcystin detection - [ANALYST]
- 2023** - Highly Crystalline Oxidase-like MnOOH Nanowire-Incorporated Paper Dipstick for One-Step Colorimetric Detection of Dopamine - [Chemosensors]
- 2023** - Highly Efficient Fluorescent Detection of Vitamin B12 Based on the Inner Filter Effect of Dithiol-Functionalized Silver Nanoparticles - [Nanomaterials]

2023 - Ficin-copper hybrid nanoflowers with enhanced peroxidase-like activity for colorimetric detection of biothiols - [Microchimica Acta]

2023 - Highly Conductive Peroxidase-like Ce-MoS₂ Nanoflowers for the Simultaneous Electrochemical Detection of Dopamine and Epinephrine - [Biosensors]

2023 - 나노기술 기반 약물전달시스템 연구의 최근 동향 - [KSBB Journal]

2022 - Aptamer-functionalized and silver-coated polydopamine-copper hybrid nanoflower adsorbent embedded with magnetic nanoparticles for efficient mercury removal - [Chemosphere]

2022 - Dual-Functional Peroxidase-Copper Phosphate Hybrid Nanoflowers for Sensitive Detection of Biological Thiols - [International Journal of Molecular Sciences]

2022 - Nanoceria-based lateral flow immunoassay for hydrogen peroxide-free colorimetric biosensing for C-reactive protein - [ANALYTICAL AND BIOANALYTICAL CHEMISTRY]

2022 - High capacity and inexpensive multivalent cathode materials for aqueous rechargeable Zn-ion battery fabricated via in situ electrochemical oxidation of VO₂ nanorods - [Journal of Power Sources]

2022 - Rational Development of Co-Doped Mesoporous Ceria with High Peroxidase-Mimicking Activity at Neutral pH for Paper-Based Colorimetric Detection of Multiple Biomarkers - [Advanced Functional Materials]

2022 - 프리시안블루 나노입자의 특성과 생물공학적 응용 연구 동향 - [KSBB Journal]

2022 - Silver Nanoparticle-coated Polydopamine-Copper Hybrid Nanoflowers as Ultrasensitive Surface-enhanced Raman Spectroscopy Probes for Detecting Thiol-Containing Molecules - [Sensors and Actuators, B: Chemical]

2022 - Laccase-mimicking Mn-Cu hybrid nanoflowers for paper-based visual detection of phenolic neurotransmitters and rapid degradation of dyes - [Journal of Nanobiotechnology]

2022 - Comparison of Optical and Electrical Sensor Characteristics for Efficient Analysis of Attachment and Detachment of Aptamer - [BIOSENSORS-BASEL]

2022 - Tailoring Nanostructured Supports to Achieve High Performance in Enzymatic Biofuel Cells - [ACS Applied Energy Materials]

2022 - Polydopamine-Coated Co₃O₄ Nanoparticles as an Efficient Catalase Mimic for Fluorescent Detection of Sulfide Ion - [Biosensors]