

Kyoung G Lee

List of Publications by Year in descending order

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78
papers

2,987
citations

172457

29
h-index

175258

52
g-index

78
all docs

78
docs citations

78
times ranked

4884
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hierarchical Hollow Spheres of Fe ₂ O ₃ @Polyaniline for Lithium Ion Battery Anodes. <i>Advanced Materials</i> , 2013, 25, 6250-6255. | 21.0 | 311 |
| 2 | Superparamagnetic γ -Fe ₂ O ₃ nanoparticles as an easily recoverable catalyst for the chemical recycling of PET. <i>Green Chemistry</i> , 2014, 16, 279-286. | 9.0 | 144 |
| 3 | Advances in microbial biosynthesis of metal nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 521-534. | 3.6 | 144 |
| 4 | 3D printed modules for integrated microfluidic devices. <i>RSC Advances</i> , 2014, 4, 32876-32880. | 3.6 | 139 |
| 5 | Extremely Fast Self-Healable Bio-Based Supramolecular Polymer for Wearable Real-Time Sweat-Monitoring Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46165-46175. | 8.0 | 110 |
| 6 | One-step sonochemical synthesis of a graphene oxide-manganese oxide nanocomposite for catalytic glycolysis of poly(ethylene terephthalate). <i>Nanoscale</i> , 2012, 4, 3879. | 5.6 | 99 |
| 7 | Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. <i>ACS Nano</i> , 2013, 7, 2453-2460. | 14.6 | 99 |
| 8 | Ultrathin sandwich-like MoS ₂ @N-doped carbon nanosheets for anodes of lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 324-329. | 5.6 | 99 |
| 9 | Clustered Regularly Interspaced Short Palindromic Repeats-Mediated Surface-Enhanced Raman Scattering Assay for Multidrug-Resistant Bacteria. <i>ACS Nano</i> , 2020, 14, 17241-17253. | 14.6 | 89 |
| 10 | Hierarchical porous microspheres of the Co ₃ O ₄ @graphene with enhanced electrocatalytic performance for electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2017, 89, 612-619. | 10.1 | 85 |
| 11 | High performance flexible pH sensor based on polyaniline nanopillar array electrode. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 53-58. | 9.4 | 82 |
| 12 | Highly self-healable and flexible cable-type pH sensors for real-time monitoring of human fluids. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111946. | 10.1 | 78 |
| 13 | Protein-directed assembly of cobalt phosphate hybrid nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 44-50. | 9.4 | 69 |
| 14 | Potentiometric performance of flexible pH sensor based on polyaniline nanofiber arrays. <i>Nano Convergence</i> , 2019, 6, 9. | 12.1 | 69 |
| 15 | Metal-Oxide-Doped Silica Nanoparticles for the Catalytic Glycolysis of Polyethylene Terephthalate. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 824-828. | 0.9 | 67 |
| 16 | Continuous In Situ Synthesis of ZnSe/ZnS Core/Shell Quantum Dots in a Microfluidic Reaction System and its Application for Light-Emitting Diodes. <i>Small</i> , 2012, 8, 3257-3262. | 10.0 | 65 |
| 17 | Three-Dimensional Expanded Graphene-Metal Oxide Film via Solid-State Microwave Irradiation for Aqueous Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22364-22371. | 8.0 | 58 |
| 18 | Flexible and Disposable Sensing Platforms Based on Newspaper. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34978-34984. | 8.0 | 46 |

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|----|---|------|-----------|
| 19 | Nanopillar films with polyoxometalate-doped polyaniline for electrochemical detection of hydrogen peroxide. <i>Analyst</i> , 2016, 141, 1319-1324. | 3.5 | 44 |
| 20 | Polyoxometalate-grafted graphene nanohybrid for electrochemical detection of hydrogen peroxide and glucose. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 51-56. | 9.4 | 43 |
| 21 | Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods and Study of Growing Mechanism of Silica. <i>ACS Nano</i> , 2010, 4, 3933-3942. | 14.6 | 42 |
| 22 | <i>In Vitro</i> Biosynthesis of Metal Nanoparticles in Microdroplets. <i>ACS Nano</i> , 2012, 6, 6998-7008. | 14.6 | 42 |
| 23 | Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images. <i>Advanced Materials</i> , 2014, 26, 6119-6124. | 21.0 | 42 |
| 24 | Fabrication of Flexible, Redoxable, and Conductive Nanopillar Arrays with Enhanced Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22220-22226. | 8.0 | 40 |
| 25 | Effect of Support Size on the Catalytic Activity of Metal-Oxide-Doped Silica Particles in the Glycolysis of Polyethylene Terephthalate. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6544-6549. | 0.9 | 37 |
| 26 | Synthesis and utilization of <i>E. coli</i> -encapsulated PEG-based microdroplet using a microfluidic chip for biological application. <i>Biotechnology and Bioengineering</i> , 2010, 107, 747-751. | 3.3 | 36 |
| 27 | Highly Concentrated, Conductive, Defect-free Graphene Ink for Screen-Printed Sensor Application. <i>Nano-Micro Letters</i> , 2021, 13, 87. | 27.0 | 36 |
| 28 | Sonochemical-assisted synthesis of 3D graphene/nanoparticle foams and their application in supercapacitor. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 422-428. | 8.2 | 35 |
| 29 | Flexible nanopillar-based electrochemical sensors for genetic detection of foodborne pathogens. <i>Nano Convergence</i> , 2018, 5, 15. | 12.1 | 35 |
| 30 | Large-Area and 3D Polyaniline Nanoweb Film for Flexible Supercapacitors with High Rate Capability and Long Cycle Life. <i>ACS Applied Energy Materials</i> , 2020, 3, 7746-7755. | 5.1 | 33 |
| 31 | Pushbutton-activated microfluidic dispenser for droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113159. | 10.1 | 30 |
| 32 | Plastic-Chip-Based Magnetophoretic Immunoassay for Point-of-Care Diagnosis of Tuberculosis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23489-23497. | 8.0 | 29 |
| 33 | Development of a Plastic-Based Microfluidic Immunosensor Chip for Detection of H1N1 Influenza. <i>Sensors</i> , 2012, 12, 10810-10819. | 3.8 | 27 |
| 34 | Dopamine-Assisted Synthesis of Carbon-Coated Silica for PCR Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15633-15640. | 8.0 | 27 |
| 35 | Electrochemical characterization of reduced graphene oxide as an ion-to-electron transducer and application of screen-printed all-solid-state potassium ion sensors. <i>Carbon Letters</i> , 2020, 30, 73-80. | 5.9 | 26 |
| 36 | Droplet-based digital PCR system for detection of single-cell level of foodborne pathogens. <i>Biochip Journal</i> , 2017, 11, 329-337. | 4.9 | 25 |

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|----|--|------|-----------|
| 37 | Sonochemical synthesis of Pt-deposited SiO ₂ nanocomposite and its catalytic application for polymer electrolyte membrane fuel cell under low-humidity conditions. <i>Catalysis Communications</i> , 2012, 21, 86-90. | 3.3 | 23 |
| 38 | Multifunctional Polyurethane Sponge for Polymerase Chain Reaction Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4699-4705. | 8.0 | 23 |
| 39 | Ultrasonic fabrication of flexible antibacterial ZnO nanopillar array film. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 172-178. | 5.0 | 23 |
| 40 | Direct Solvent-Free Modification of the Inner Wall of the Microchip for Rapid DNA Extraction with Enhanced Capturing Efficiency. <i>Macromolecular Research</i> , 2020, 28, 249-256. | 2.4 | 23 |
| 41 | 3D Hierarchical Nanotopography for On-Site Rapid Capture and Sensitive Detection of Infectious Microbial Pathogens. <i>ACS Nano</i> , 2021, 15, 4777-4788. | 14.6 | 23 |
| 42 | Plasmonic heating-based portable digital PCR system. <i>Lab on A Chip</i> , 2020, 20, 3560-3568. | 6.0 | 22 |
| 43 | Fabrication of newspaper-based potentiometric platforms for flexible and disposable ion sensors. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 167-173. | 9.4 | 21 |
| 44 | Combinatorial biophysical cue sensor array for controlling neural stem cell fate. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112125. | 10.1 | 20 |
| 45 | Antibacterial Nanopillar Array for an Implantable Intraocular Lens. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000447. | 7.6 | 19 |
| 46 | Synthesis and characterization of gold-deposited red, green and blue fluorescent silica nanoparticles for biosensor application. <i>Chemical Communications</i> , 2010, 46, 6374. | 4.1 | 18 |
| 47 | Micropillar arrays enabling single microbial cell encapsulation in hydrogels. <i>Lab on A Chip</i> , 2014, 14, 1873. | 6.0 | 18 |
| 48 | The investigation of protein A and <i>Salmonella</i> antibody adsorption onto biosensor surfaces by atomic force microscopy. <i>Biotechnology and Bioengineering</i> , 2008, 99, 949-959. | 3.3 | 17 |
| 49 | Preparation of ultrathin defect-free graphene sheets from graphite via fluidic delamination for solid-contact ion-to-electron transducers in potentiometric sensors. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 817-824. | 9.4 | 17 |
| 50 | An efficient isolation of foodborne pathogen using surface-modified porous sponge. <i>Food Chemistry</i> , 2019, 270, 445-451. | 8.2 | 16 |
| 51 | Flexible nanopillar-based immunoelectrochemical biosensor for noninvasive detection of Amyloid beta. <i>Nano Convergence</i> , 2020, 7, 29. | 12.1 | 16 |
| 52 | Synthesis of Bioactive Microcapsules Using a Microfluidic Device. <i>Sensors</i> , 2012, 12, 10136-10147. | 3.8 | 15 |
| 53 | A Disposable and Multi-Chamber Film-Based PCR Chip for Detection of Foodborne Pathogen. <i>Sensors</i> , 2018, 18, 3158. | 3.8 | 15 |
| 54 | Surface-Modified Mesh Filter for Direct Nucleic Acid Extraction and its Application to Gene Expression Analysis. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700642. | 7.6 | 14 |

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|----|--|------|-----------|
| 55 | Dopamine-induced Pt and N-doped carbon@silica hybrids as high-performance anode catalysts for polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , 2014, 4, 42582-42584. | 3.6 | 12 |
| 56 | Ultrasonic bonding method for heterogeneous microstructures using self-balancing jig. <i>Lab on A Chip</i> , 2015, 15, 1412-1416. | 6.0 | 12 |
| 57 | Development of zinc oxide-based sub-micro pillar arrays for on-site capture and DNA detection of foodborne pathogen. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 54-61. | 9.4 | 12 |
| 58 | Synthesis of two-dimensional holey MnO ₂ /graphene oxide nanosheets with high catalytic performance for the glycolysis of poly(ethylene terephthalate). <i>Materials Today Communications</i> , 2021, 26, 101857. | 1.9 | 12 |
| 59 | Organoclay-assisted interfacial polymerization for microfluidic production of monodisperse PEG-microdroplets and in situ encapsulation of <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 289-294. | 3.3 | 11 |
| 60 | An electrophoretic DNA extraction device using a nanofilter for molecular diagnosis of pathogens. <i>Nanoscale</i> , 2020, 12, 5048-5054. | 5.6 | 11 |
| 61 | All-in-one pumpless portable genetic analysis microsystem for rapid naked-eye detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130307. | 7.8 | 11 |
| 62 | Multifunctional Printable Micropattern Array for Digital Nucleic Acid Assay for Microbial Pathogen Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3098-3108. | 8.0 | 9 |
| 63 | Highly ordered gold-nanotube films for flow-injection amperometric glucose biosensors. <i>RSC Advances</i> , 2014, 4, 40286. | 3.6 | 8 |
| 64 | All-in-One DNA Extraction Tube for Facilitated Real-Time Detection of Infectious Pathogens. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100430. | 7.6 | 8 |
| 65 | Bio-inspired Hierarchical Nanowebbs for Green Catalysis. <i>Small</i> , 2015, 11, 4292-4297. | 10.0 | 7 |
| 66 | Synthesis of a Stretchable Polyampholyte Hydrophilic Film with Compositional Gradient for Long-Term Stable, Substrate-Independent Fouling-Resistant Coating. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 7 |
| 67 | Synthesis of Stable Silica-Dye Hybrid Nanomaterial as DNA Carrier. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 686-690. | 0.9 | 6 |
| 68 | 3D Hierarchical Polyaniline-Metal Hybrid Nanopillars: Morphological Control and Its Antibacterial Application. <i>Nanomaterials</i> , 2021, 11, 2716. | 4.1 | 6 |
| 69 | A continuous tilting of micromolds for fabricating polymeric microstructures in microinjection. <i>Lab on A Chip</i> , 2013, 13, 4321. | 6.0 | 5 |
| 70 | Portable vibration-assisted filtration device for on-site isolation of blood cells or pathogenic bacteria from whole human blood. <i>Talanta</i> , 2018, 179, 207-212. | 5.5 | 5 |
| 71 | Touchable 3D hierarchically structured polyaniline nanoweb for capture and detection of pathogenic bacteria. <i>Nano Convergence</i> , 2021, 8, 30. | 12.1 | 5 |
| 72 | A hybrid composite of gold and graphene oxide as a PCR enhancer. <i>RSC Advances</i> , 2015, 5, 93117-93121. | 3.6 | 4 |

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|----|--|------|-----------|
| 73 | Smartphone operable centrifugal system (SOCS) for on-site DNA extraction from foodborne bacterial pathogen. <i>Biomicrofluidics</i> , 2019, 13, 034111. | 2.4 | 4 |
| 74 | Facile fabrication of plastic template for three-dimensional micromixer-embedded microfluidic device. <i>Biochip Journal</i> , 2013, 7, 104-111. | 4.9 | 3 |
| 75 | Development of bufferless gel electrophoresis chip for easy preparation and rapid DNA separation. <i>Electrophoresis</i> , 2018, 39, 456-461. | 2.4 | 3 |
| 76 | Sonochemical Preparation of Silica Nanorods for Gene Delivery Using Single-Walled Carbon Nanotubes as Templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 666-670. | 0.9 | 1 |
| 77 | Nanopatterning: Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images (<i>Adv. Mater.</i> 35/2014). <i>Advanced Materials</i> , 2014, 26, 6200-6200. | 21.0 | 0 |
| 78 | Real-Time PCR Test: All-in-One DNA Extraction Tube for Facilitated Real-Time Detection of Infectious Pathogens (<i>Adv. Healthcare Mater.</i> 14/2021). <i>Advanced Healthcare Materials</i> , 2021, 10, 2170067. | 7.6 | 0 |