

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	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
2	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
3	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
4	Highly Concentrated, Conductive, Defect-free Graphene Ink for Screen-Printed Sensor Application. <i>Nano-Micro Letters</i> , 2021, 13, 87.	27.0	36
5	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
6	Pushbutton-activated microfluidic dispenser for droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113159.	10.1	30
7	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
8	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
9	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
10	3D Hierarchical Polyaniline-Metal Hybrid Nanopillars: Morphological Control and Its Antibacterial Application. <i>Nanomaterials</i> , 2021, 11, 2716.	4.1	6
11	Touchable 3D hierarchically structured polyaniline nanoweb for capture and detection of pathogenic bacteria. <i>Nano Convergence</i> , 2021, 8, 30.	12.1	5
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Antibacterial Nanopillar Array for an Implantable Intraocular Lens. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000447.	7.6	19
20	Plasmonic heating-based portable digital PCR system. <i>Lab on A Chip</i> , 2020, 20, 3560-3568.	6.0	22
21	Combinatorial biophysical cue sensor array for controlling neural stem cell fate. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112125.	10.1	20
22	An electrophoretic DNA extraction device using a nanofilter for molecular diagnosis of pathogens. <i>Nanoscale</i> , 2020, 12, 5048-5054.	5.6	11
23	Flexible nanopillar-based immunoelectrochemical biosensor for noninvasive detection of Amyloid beta. <i>Nano Convergence</i> , 2020, 7, 29.	12.1	16
24	An efficient isolation of foodborne pathogen using surface-modified porous sponge. <i>Food Chemistry</i> , 2019, 270, 445-451.	8.2	16
25	Potentiometric performance of flexible pH sensor based on polyaniline nanofiber arrays. <i>Nano Convergence</i> , 2019, 6, 9.	12.1	69
26	Smartphone operable centrifugal system (SOCS) for on-site DNA extraction from foodborne bacterial pathogen. <i>Biomicrofluidics</i> , 2019, 13, 034111.	2.4	4
27	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
28	Development of bufferless gel electrophoresis chip for easy preparation and rapid DNA separation. <i>Electrophoresis</i> , 2018, 39, 456-461.	2.4	3
29	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
30	A Disposable and Multi-Chamber Film-Based PCR Chip for Detection of Foodborne Pathogen. <i>Sensors</i> , 2018, 18, 3158.	3.8	15
31	Flexible nanopillar-based electrochemical sensors for genetic detection of foodborne pathogens. <i>Nano Convergence</i> , 2018, 5, 15.	12.1	35
32	Ultrasonic fabrication of flexible antibacterial ZnO nanopillar array film. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 172-178.	5.0	23
33	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
34	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
35	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
36	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

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37	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
38	Flexible and Disposable Sensing Platforms Based on Newspaper. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34978-34984.	8.0	46
39	Protein-directed assembly of cobalt phosphate hybrid nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 44-50.	9.4	69
40	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
41	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
42	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
43	Nanopillar films with polyoxometalate-doped polyaniline for electrochemical detection of hydrogen peroxide. <i>Analyst</i> , 2016, 141, 1319-1324.	3.5	44
44	Advances in microbial biosynthesis of metal nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 521-534.	3.6	144
45	Bio-inspired Hierarchical Nanoweb for Green Catalysis. <i>Small</i> , 2015, 11, 4292-4297.	10.0	7
46	Multifunctional Polyurethane Sponge for Polymerase Chain Reaction Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4699-4705.	8.0	23
47	Dopamine-Assisted Synthesis of Carbon-Coated Silica for PCR Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15633-15640.	8.0	27
48	Ultrasonic bonding method for heterogeneous microstructures using self-balancing jig. <i>Lab on a Chip</i> , 2015, 15, 1412-1416.	6.0	12
49	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
50	A hybrid composite of gold and graphene oxide as a PCR enhancer. <i>RSC Advances</i> , 2015, 5, 93117-93121.	3.6	4
51	Sonochemical-assisted synthesis of 3D graphene/nanoparticle foams and their application in supercapacitor. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 422-428.	8.2	35
52	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
53	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
54	Superparamagnetic Fe_2O_3 nanoparticles as an easily recoverable catalyst for the chemical recycling of PET. <i>Green Chemistry</i> , 2014, 16, 279-286.	9.0	144

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55	Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images. <i>Advanced Materials</i> , 2014, 26, 6119-6124.	21.0	42
56	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
57	Micropillar arrays enabling single microbial cell encapsulation in hydrogels. <i>Lab on A Chip</i> , 2014, 14, 1873.	6.0	18
58	Highly ordered gold-nanotube films for flow-injection amperometric glucose biosensors. <i>RSC Advances</i> , 2014, 4, 40286.	3.6	8
59	3D printed modules for integrated microfluidic devices. <i>RSC Advances</i> , 2014, 4, 32876-32880.	3.6	139
60	Facile fabrication of plastic template for three-dimensional micromixer-embedded microfluidic device. <i>Biochip Journal</i> , 2013, 7, 104-111.	4.9	3
61	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
62	A continuous tilting of micromolds for fabricating polymeric microstructures in microinjection. <i>Lab on A Chip</i> , 2013, 13, 4321.	6.0	5
63	Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. <i>ACS Nano</i> , 2013, 7, 2453-2460.	14.6	99
64	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. <i>Sensors</i> , 2012, 12, 10136-10147.	3.8	15
65	Development of a Plastic-Based Microfluidic Immunosensor Chip for Detection of H1N1 Influenza. <i>Sensors</i> , 2012, 12, 10810-10819.	3.8	27
66	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
67	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
68	<i>In Vitro</i> Biosynthesis of Metal Nanoparticles in Microdroplets. <i>ACS Nano</i> , 2012, 6, 6998-7008.	14.6	42
69	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
70	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
71	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
72	Synthesis of Stable Silica-Dye Hybrid Nanomaterial as DNA Carrier. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 686-690.	0.9	6

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73	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
74	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
75	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
76	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
77	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
78	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