

# Changyoon Baek

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

499  
citations

759233

12  
h-index

677142

22  
g-index

32  
all docs

32  
docs citations

32  
times ranked

776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of peptide stabilized fluorescent gold nanocluster/graphene oxide nanocomplex and its application in turn-on detection of metalloproteinase-9. <i>Biosensors and Bioelectronics</i> , 2017, 89, 666-672.	10.1	79
2	Fabrication of ultrasensitive electrochemical biosensor for dengue fever viral RNA Based on CRISPR/Cpf1 reaction. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128677.	7.8	54
3	Label-Free Impedance Sensing of Aflatoxin B1 with Polyaniline Nanofibers/Au Nanoparticle Electrode Array. <i>Sensors</i> , 2018, 18, 1320.	3.8	49
4	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
5	The microfluidic chip module for the detection of murine norovirus in oysters using charge switchable micro-bead beating. <i>Biosensors and Bioelectronics</i> , 2015, 67, 625-633.	10.1	37
6	Electric Cell-Substrate Impedance Sensing (ECIS) with Microelectrode Arrays for Investigation of Cancer Cell " Fibroblasts Interaction. <i>PLoS ONE</i> , 2016, 11, e0153813.	2.5	37
7	Local transdermal delivery of phenylephrine to the anal sphincter muscle using microneedles. <i>Journal of Controlled Release</i> , 2011, 154, 138-147.	9.9	35
8	Electrical dual-sensing method for real-time quantitative monitoring of cell-secreted MMP-9 and cellular morphology during migration process. <i>Biosensors and Bioelectronics</i> , 2016, 77, 631-637.	10.1	27
9	Shape Control of Cellulose Nanocrystals via Compositional Acid Hydrolysis. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1293-1298.	1.1	17
10	Nanostructured Au-Pt hybrid disk electrodes for enhanced parathyroid hormone detection in human serum. <i>Bioelectrochemistry</i> , 2019, 128, 165-174.	4.6	16
11	Integrated microsystems for the <i>in situ</i> genetic detection of dengue virus in whole blood using direct sample preparation and isothermal amplification. <i>Analyst</i> , The, 2020, 145, 2405-2411.	3.5	16
12	A microfluidic system for the separation and detection of <i>E. coli</i> O157:H7 in soil sample using ternary interactions between humic acid, bacteria, and a hydrophilic surface. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 238-244.	7.8	12
13	Electrospun Nanofibers Embedded with Copper Oxide Nanoparticles to Improve Antiviral Function. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4174-4178.	0.9	11
14	Discrimination and isolation of the virus from free RNA fragments for the highly sensitive measurement of SARS-CoV-2 abundance on surfaces using a graphene oxide nano surface. <i>Nano Convergence</i> , 2021, 8, 31.	12.1	9
15	Facile and foldable point-of-care biochip for nucleic acid based-colorimetric detection of murine norovirus in fecal samples using G-quadruplex and graphene oxide coated microbeads. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113878.	10.1	9
16	Semi-automatic instrumentation for nucleic acid extraction and purification to quantify pathogens on surfaces. <i>Analyst</i> , The, 2019, 144, 6586-6594.	3.5	8
17	Microvalve-assisted bead-beating system for selective nucleic acid preparation from bacteria and viruses. <i>Biochip Journal</i> , 2015, 9, 332-338.	4.9	6
18	Self-assembly of an upconverting nanocomplex and its application to turn-on detection of metalloproteinase-9 in living cells. <i>Nanotechnology</i> , 2016, 27, 405101.	2.6	5

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19	Direct buffer composition of blood pre-process for nucleic acid based diagnostics. <i>Biochip Journal</i> , 2017, 11, 255-261.	4.9	5
20	Differences in the gut microbiome composition of Korean children and adult samples based on different DNA isolation kits. <i>PLoS ONE</i> , 2022, 17, e0264291.	2.5	5
21	Mismatch-introduced DNA probes constructed on the basis of thermodynamic analysis enable the discrimination of single nucleotide variants. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5337-5345.	3.7	3
22	Bacterial Isolation by Adsorption on Graphene Oxide from Large Volume Sample. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6975-6979.	0.9	3
23	The Effect of Chemical and Physical Characteristics of Nano Graphene Oxide Layer on Epithelial Cell Behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11882-11886.	0.9	2
24	Short-Length DNA Adsorption on Graphene Oxide-Coated Microbeads for DNA Target Separation from Clinical Samples. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6364-6368.	0.9	2
25	A Simple Pipetting-based Method for Encapsulating Live Cells into Multi-layered Hydrogel Droplets. <i>Biochip Journal</i> , 2018, 12, 184-192.	4.9	2
26	Bacterial Adsorption on Nano Graphene Oxide-Coated Microbeads for Molecular Diagnosis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11887-11891.	0.9	2
27	A fluorescence color-encoded lipid-supported polymeric particle. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 840-845.	5.0	1
28	Elimination of Humic Acid from Aqueous Sample Using Zinc Oxide/Graphene Oxide-Coated Microbeads. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6360-6363.	0.9	1
29	Simple and portable on-site system for nucleic acid-based detection of <i>Clostridium difficile</i> in stool samples using two columns containing microbeads and loop-mediated isothermal amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 613-621.	3.7	1
30	A Novel Sensing Strategy for DNA Analysis Using Nanoscale Graphene Oxide-Coated Microbeads. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7986-7990.	0.9	0
31	Improvement of Heat Sink Effect Using Zinc Oxide Nanostructure. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6980-6984.	0.9	0
32	MDA-MB-231 Cell Beads Surrounded by Human Umbilical Vein Endothelial Cells for the In Vitro Study of Tumor Cell Intravasation. <i>Science of Advanced Materials</i> , 2017, 9, 1510-1516.	0.7	0