Byoung Chan Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	2,219 citations	27 h-index	46 g-index
56 ext. papers	2,385 ext. citations	7.7 avg, IF	4.55 L-index

#	Paper	IF	Citations
56	Specific detection of Cronobacter sakazakii in powdered infant formula using ssDNA aptamer. *Analyst, The*, **2021**, 146, 3534-3542	5	1
55	Continuous Surveillance of Bioaerosols On-Site Using an Automated Bioaerosol-Monitoring System. *ACS Sensors*, **2020**, 5, 395-403	9.2	12
54	Rapid isolation of bacteria-specific aptamers with a non-SELEX-based method. *Analytical Biochemistry*, **2020**, 591, 113542	3.1	8
53	The development of paper discs immobilized with luciferase/D-luciferin for the detection of ATP from airborne bacteria. *Sensors and Actuators B: Chemical*, **2018**, 260, 274-281	8.5	14
52	A colorimetric assay for detection of 6-OH-BDE-47 using 6-OH-BDE-47-specific aptamers and gold nanoparticles. *Sensors and Actuators B: Chemical*, **2017**, 248, 298-304	8.5	7
51	Broadly reactive aptamers targeting bacteria belonging to different genera using a sequential toggle cell-SELEX. *Scientific Reports*, **2017**, 7, 43641	4.9	28
50	An aptamer cocktail-functionalized photocatalyst with enhanced antibacterial efficiency towards target bacteria. *Journal of Hazardous Materials*, **2016**, 318, 247-254	12.8	23
49	Efficient protein digestion using highly-stable and reproducible trypsin coatings on magnetic nanofibers. *Chemical Engineering Journal*, **2016**, 288, 770-777	14.7	14
48	Highly sensitive sandwich-type SPR based detection of whole H5Nx viruses using a pair of aptamers. *Biosensors and Bioelectronics*, **2016**, 86, 293-300	11.8	79
47	DNA aptamers for selective identification and separation of flame retardant chemicals. *Analytica Chimica Acta*, **2016**, 936, 208-15	6.6	6
46	Fast and continuous microorganism detection using aptamer-conjugated fluorescent nanoparticles on an optofluidic platform. *Biosensors and Bioelectronics*, **2015**, 67, 303-8	11.8	43
45	Bacterial target-specific photocatalyst for the enhancement of antibacterial property to targets. *Applied Catalysis B: Environmental*, **2014**, 148, 568-572	21.8	8
44	Aptamer cocktails: enhancement of sensing signals compared to single use of aptamers for detection of bacteria. *Biosensors and Bioelectronics*, **2014**, 54, 195-8	11.8	58
43	A dip-stick type biosensor using bioluminescent bacteria encapsulated in color-coded alginate microbeads for detection of water toxicity. *Analyst, The*, **2014**, 139, 4696-701	5	15
42	Isolation and characterization of DNA aptamers against Escherichia coli using a bacterial cell-systematic evolution of ligands by exponential enrichment approach. *Analytical Biochemistry*, **2013**, 436, 22-8	3.1	76
41	Enzyme precipitate coatings of glucose oxidase onto carbon paper for biofuel cell applications. *Biotechnology and Bioengineering*, **2012**, 109, 318-24	4.9	12
40	Ethanol-Dispersed Polymer Nanofibers as a Highly Selective Cell Isolation and Release Platform for CD4+ T Lymphocytes. *Advanced Functional Materials*, **2012**, 22, 4448-4455	15.6	9

39	A sensitive and reliable detection of thrombin via enzyme-precipitate-coating-linked aptamer assay. *Chemical Communications*, **2012**, 48, 5971-3	5.8	12
38	Highly Efficient Enzyme Immobilization and Stabilization within Meso-Structured Onion-Like Silica for Biodiesel Production. *Chemistry of Materials*, **2012**, 24, 924-929	9.6	64
37	Magnetic mesoporous materials for removal of environmental wastes. *Journal of Hazardous Materials*, **2011**, 192, 1140-7	12.8	71
36	Enzyme precipitate coatings of lipase on polymer nanofibers. *Bioprocess and Biosystems Engineering* , **2011**, 34, 841-7	3.7	12
35	A subtractively optimized DNA microarray using non-sequenced genomic probes for the detection of food-borne pathogens. *Applied Biochemistry and Biotechnology*, **2011**, 164, 183-93	3.2	5
34	Rapid and efficient protein digestion using trypsin-coated magnetic nanoparticles under pressure cycles. *Proteomics*, **2011**, 11, 309-18	4.8	27
33	Highly stable enzyme precipitate coatings and their electrochemical applications. *Biosensors and Bioelectronics*, **2011**, 26, 1980-6	11.8	47
32	Immobilization of glucose oxidase into polyaniline nanofiber matrix for biofuel cell applications. *Biosensors and Bioelectronics*, **2011**, 26, 3908-13	11.8	80
31	Trypsin coatings on electrospun and alcohol-dispersed polymer nanofibers for a trypsin digestion column. *Analytical Chemistry*, **2010**, 82, 7828-34	7.8	23
30	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. *Biosensors and Bioelectronics*, **2010**, 26, 655-60	11.8	42
29	Implementation of random bacterial genomic DNA microarray chip (RBGDMC) for screening of dominant bacteria in complex cultures. *Applied Biochemistry and Biotechnology*, **2010**, 162, 2284-93	3.2	1
28	Robust trypsin coating on electrospun polymer nanofibers in rigorous conditions and its uses for protein digestion. *Biotechnology and Bioengineering*, **2010**, 107, 917-23	4.9	16
27	Nanobiocatalysis for protein digestion in proteomic analysis. *Proteomics*, **2010**, 10, 687-99	4.8	50
26	Highly stable trypsin-aggregate coatings on polymer nanofibers for repeated protein digestion. *Proteomics*, **2009**, 9, 1893-900	4.8	54
25	Prediction and classification of the modes of genotoxic actions using bacterial biosensors specific for DNA damages. *Biosensors and Bioelectronics*, **2009**, 25, 767-72	11.8	24
24	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. *Journal of Materials Chemistry*, **2009**, 19, 7864		43
23	Enzyme-Nanofiber Composites for Biocatalysis Applications. *ACS Symposium Series*, **2008**, 254-262	0.4	2
22	Construction of a nrdA::luxCDABE Fusion and Its Use in Escherichia coli as a DNA Damage Biosensor. *Sensors*, **2008**, 8, 1297-1307	3.8	20

21	Analysis of the toxic mode of action of silver nanoparticles using stress-specific bioluminescent bacteria. *Small*, **2008**, 4, 746-50	11	321
20	A novel bioluminescent bacterial biosensor using the highly specific oxidative stress-inducible pgi gene. *Biosensors and Bioelectronics*, **2008**, 24, 670-5	11.8	24
19	An oxidative stress-specific bacterial cell array chip for toxicity analysis. *Biosensors and Bioelectronics*, **2007**, 22, 2223-9	11.8	44
18	Characterization of superoxide-stress sensing recombinant Escherichia coli constructed using promoters for genes zwf and fpr fused to lux operon. *Applied Microbiology and Biotechnology*, **2007**, 74, 1276-83	5.7	11
17	Stable and continuous long-term enzymatic reaction using an enzyme-nanofiber composite. *Applied Microbiology and Biotechnology*, **2007**, 75, 1301-7	5.7	40
16	Discrimination of toxic impacts of various chemicals using chemicalgene expression profiling of Escherichia coli DNA microarray. *Process Biochemistry*, **2007**, 42, 392-400	4.8	4
15	Characterization ofgltA: luxCDABE fusion inEscherichia coli as a toxicity biosensor. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 516-521	3.1	14
14	Specific detection of DNA using quantum dots and magnetic beads for large volume samples. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 449-454	3.1	18
13	Expression analysis of stress-specific responsive genes in two-stage continuous cultures of Escherichia coli using cDNA microarray and real-time RT-PCR analysis. *Enzyme and Microbial Technology*, **2006**, 39, 440-446	3.8	7
12	Screening of target-specific stress-responsive genes for the development of cell-based biosensors using a DNA microarray. *Analytical Chemistry*, **2005**, 77, 8020-6	7.8	29
11	Preparation of biocatalytic nanofibres with high activity and stability via enzyme aggregate coating on polymer nanofibres. *Nanotechnology*, **2005**, 16, S382-8	3.4	161
10	Multiple and simultaneous detection of specific bacteria in enriched bacterial communities using a DNA microarray chip with randomly generated genomic DNA probes. *Analytical Chemistry*, **2005**, 77, 2311-7	7.8	23
9	A cell array biosensor for environmental toxicity analysis. *Biosensors and Bioelectronics*, **2005**, 21, 500-7	11.8	125
8	A multi-channel continuous water toxicity monitoring system: its evaluation and application to water discharged from a power plant. *Environmental Monitoring and Assessment*, **2005**, 109, 123-33	3.1	33
7	A magnetically separable, highly stable enzyme system based on nanocomposites of enzymes and magnetic nanoparticles shipped in hierarchically ordered, mesocellular, mesoporous silica. *Small*, **2005**, 1, 1203-7	11	99
6	Whole-cell-based biosensors for environmental biomonitoring and application. *Advances in Biochemical Engineering/Biotechnology*, **2004**, 87, 269-305	1.7	66
5	Development of a DNA microarray chip for the identification of sludge bacteria using an unsequenced random genomic DNA hybridization method. *Environmental Science & Technology* , **2004**, 38, 6767-74	10.3	28
4	Evaluation of a high throughput toxicity biosensor and comparison with a Daphnia magna bioassay. *Biosensors and Bioelectronics*, **2003**, 18, 821-6	11.8	34

3	Monitoring and classification of PAH toxicity using an immobilized bioluminescent bacteria. *Biosensors and Bioelectronics*, **2003**, 18, 571-7	11.8	46
2	A bioluminescent sensor for high throughput toxicity classification. *Biosensors and Bioelectronics*, **2003**, 18, 1015-21	11.8	67
1	The continuous monitoring of field water samples with a novel multi-channel two-stage mini-bioreactor system. *Environmental Monitoring and Assessment*, **2001**, 70, 71-81	3.1	19