

# Kwang-sun Kim

## List of Publications by Year in descending order

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57  
papers

1,516  
citations

361413  
20  
h-index

330143  
37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wash-Free, Sandwich-Type Protein Detection Using Direct Electron Transfer and Catalytic Signal Amplification of Multiple Redox Labels. <i>Analytical Chemistry</i> , 2022, 94, 2163-2171.	6.5	12
2	Wash-Free Amperometric <i>Escherichia coli</i> Detection via Rapid and Specific Proteolytic Cleavage by Its Outer Membrane OmpT. <i>Analytical Chemistry</i> , 2022, 94, 4756-4762.	6.5	8
3	A MoS <sub>2</sub> based silver-doped ZnO nanocomposite and its antibacterial activity against $\beta$ -lactamase expressing <i>Escherichia coli</i> . <i>RSC Advances</i> , 2022, 12, 7268-7275.	3.6	6
4	Repurposing of Ciclopirox to Overcome the Limitations of Zidovudine (Azidothymidine) against Multidrug-Resistant Gram-Negative Bacteria. <i>Pharmaceutics</i> , 2022, 14, 552.	4.5	1
5	Bioconjugated Thymol-Zinc Oxide Nanocomposite as a Selective and Biocompatible Antibacterial Agent against <i>Staphylococcus</i> Species. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6770.	4.1	4
6	Black phosphorus-based CuS nanoplatform: Near-infrared-responsive and reactive oxygen species-generating agent against environmental bacterial pathogens. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108226.	6.7	8
7	Potential Novel Food-Related and Biomedical Applications of Nanomaterials Combined with Bacteriocins. <i>Pharmaceutics</i> , 2021, 13, 86.	4.5	20
8	Au@ZnO Conjugated Black Phosphorus as a Near-Infrared Light-Triggering and Recurrence-Suppressing Nanoantibiotic Platform against <i>Staphylococcus aureus</i> . <i>Pharmaceutics</i> , 2021, 13, 52.	4.5	22
9	A New Surface Charge Neutralizing Nano-Adjuvant to Potentiate Polymyxins in Killing Mcr-1 Mediated Drug-Resistant <i>Escherichia coli</i> . <i>Pharmaceutics</i> , 2021, 13, 250.	4.5	15
10	An Inducible Expression System for Recombinant Sca Proteins with an Autotransporter Domain from <i>Orientia Tsutsugamushi</i> in <i>Escherichia coli</i> . <i>Protein and Peptide Letters</i> , 2021, 28, 241-248.	0.9	0
11	Solid-phase recombinase polymerase amplification using an extremely low concentration of a solution primer for sensitive electrochemical detection of hepatitis B viral DNA. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113065.	10.1	24
12	Bovine Serum Albumin-Immobilized Black Phosphorus-Based $\beta$ -Fe <sub>2</sub> O <sub>3</sub> Nanocomposites: A Promising Biocompatible Nanoplatform. <i>Biomedicines</i> , 2021, 9, 858.	3.2	6
13	Genome analysis of <i>Streptococcus salivarius</i> subsp. <i>thermophilus</i> type strain ATCC 19258 and its comparison to equivalent strain NCTC 12958. <i>Archives of Microbiology</i> , 2021, 203, 1843-1849.	2.2	6
14	Biomimetic Nanoparticles Coated with Bacterial Outer Membrane Vesicles as a New-Generation Platform for Biomedical Applications. <i>Pharmaceutics</i> , 2021, 13, 1887.	4.5	30
15	Positive control synthesis method for COVID-19 diagnosis by one-step real-time RT-PCR. <i>Clinica Chimica Acta</i> , 2020, 511, 149-153.	1.1	17
16	A New Nano-Platform of Erythromycin Combined with Ag Nano-Particle ZnO Nano-Structure against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Pharmaceutics</i> , 2020, 12, 841.	4.5	21
17	A nontoxic biocompatible nanocomposite comprising black phosphorus with Au@ $\beta$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>RSC Advances</i> , 2020, 10, 16162-16167.	3.6	9
18	Recent Advances in Nanomaterial-Based Wound-Healing Therapeutics. <i>Pharmaceutics</i> , 2020, 12, 499.	4.5	129

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19	Extracellular vesicle-associated antigens as a new vaccine platform against scrub typhus. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 602-607.	2.1	9
20	Antibacterial potential of Ni-doped zinc oxide nanostructure: comparatively more effective against Gram-negative bacteria including multi-drug resistant strains. <i>RSC Advances</i> , 2020, 10, 1232-1242.	3.6	66
21	Easy One-Pot Low-Temperature Synthesized Ag-ZnO Nanoparticles and Their Activity Against Clinical Isolates of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 216.	4.1	27
22	Black phosphorus nanomaterials as multi-potent and emerging platforms against bacterial infections. <i>Microbial Pathogenesis</i> , 2019, 137, 103800.	2.9	36
23	Design, synthesis, and discovery of novel oxindoles bearing 3-heterocycles as species-specific and combinatorial agents in eradicating <i>Staphylococcus</i> species. <i>Scientific Reports</i> , 2019, 9, 8012.	3.3	20
24	Nanomaterials as Delivery Vehicles and Components of New Strategies to Combat Bacterial Infections: Advantages and Limitations. <i>Microorganisms</i> , 2019, 7, 356.	3.6	69
25	Use of a Phosphatase-Like DT-Diaphorase Label for the Detection of Outer Membrane Vesicles. <i>Analytical Chemistry</i> , 2019, 91, 4680-4686.	6.5	8
26	Current Challenges in the Development of Vaccines and Drugs Against Emerging Vector-borne Diseases. <i>Current Medicinal Chemistry</i> , 2019, 26, 2974-2986.	2.4	14
27	Role of acid responsive genes in the susceptibility of <i>Escherichia coli</i> to ciclopirox. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 296-301.	2.1	5
28	The multi-faceted potential of plant-derived metabolites as antimicrobial agents against multidrug-resistant pathogens. <i>Microbial Pathogenesis</i> , 2018, 116, 209-214.	2.9	68
29	Washing-Free Electrochemical Detection of Amplified Double-Stranded DNAs Using a Zinc Finger Protein. <i>Analytical Chemistry</i> , 2018, 90, 4776-4782.	6.5	16
30	<i>Escherichia coli</i> OxyS RNA triggers cephalothin resistance by modulating the expression of CRP-associated genes. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 66-72.	2.1	3
31	Ultrasensitive Electrochemical Detection of miRNA-21 Using a Zinc Finger Protein Specific to DNA-RNA Hybrids. <i>Analytical Chemistry</i> , 2017, 89, 2024-2031.	6.5	65
32	Stress-responsively modulated ymdAB-clcC operon plays a role in biofilm formation and apramycin susceptibility in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	6
33	YmdB-mediated down-regulation of sucA inhibits biofilm formation and induces apramycin susceptibility in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 252-257.	2.1	10
34	Overexpression of MicA induces production of OmpC-enriched outer membrane vesicles that protect against <i>Salmonella</i> challenge. <i>Biochemical and Biophysical Research Communications</i> , 2017, 490, 991-996.	2.1	25
35	Nanovesicles: Diagnostic and Therapeutic Tools in Nanoscale Medicine. <i>Applied Science and Convergence Technology</i> , 2016, 25, 103-107.	0.9	1
36	Identification of novel sRNAs involved in biofilm formation, motility and fimbriae formation in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2015, 5, 15287.	3.3	86

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37	In vitro evaluation of ciclopirox as an adjuvant for polymyxin B against gram-negative bacteria. <i>Journal of Antibiotics</i> , 2015, 68, 395-398.	2.0	13
38	Systematic analysis of the role of bacterial Hfq-interacting sRNAs in the response to antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1659-1668.	3.0	62
39	Vaccination with <i>Klebsiella pneumoniae</i> -derived extracellular vesicles protects against bacteria-induced lethality via both humoral and cellular immunity. <i>Experimental and Molecular Medicine</i> , 2015, 47, e183-e183.	7.7	101
40	Electrophoretic Mobility Shift Assay of RNA-RNA Complexes. <i>Methods in Molecular Biology</i> , 2015, 1240, 153-163.	0.9	21
41	Regulation of Transcription from Two <i>ssrS</i> Promoters in 6S RNA Biogenesis. <i>Molecules and Cells</i> , 2013, 36, 227-234.	2.6	15
42	Interspecific bacterial sensing through airborne signals modulates locomotion and drug resistance. <i>Nature Communications</i> , 2013, 4, 1809.	12.8	102
43	<i>Escherichia coli</i> YmdB regulates biofilm formation independently of its role as an RNase III modulator. <i>BMC Microbiology</i> , 2013, 13, 266.	3.3	21
44	A novel fluorescent reporter system for monitoring and identifying RNase III activity and its target RNAs. <i>RNA Biology</i> , 2012, 9, 1167-1176.	3.1	6
45	Structural analysis of <i>Escherichia coli</i> C5 protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 963-967.	2.6	2
46	Ribonuclease E Modulation of the Bacterial SOS Response. <i>PLoS ONE</i> , 2012, 7, e38426.	2.5	19
47	Rho-dependent Termination of <i>ssrS</i> (6S RNA) Transcription in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 114-122.	3.4	32
48	Construction of an Efficient In Vitro System for Analysis of Transcription from Sigma 54-Dependent <i>pspA</i> Promoter. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 2129-2131.	1.9	0
49	Recognition and discrimination of target mRNAs by Sib RNAs, a cis-encoded sRNA family. <i>Nucleic Acids Research</i> , 2010, 38, 5851-5866.	14.5	59
50	Dual Function of RNase E for Control of M1 RNA Biosynthesis in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2008, 47, 762-770.	2.5	11
51	YmdB: a stress-responsive ribonuclease-binding regulator of <i>E. coli</i> RNase III activity. <i>Genes and Development</i> , 2008, 22, 3497-3508.	5.9	66
52	Expression of a Small Protein Encoded by the 3' Flanking Sequence of the <i>Escherichia coli</i> <i>rnpB</i> Gene. <i>Bulletin of the Korean Chemical Society</i> , 2007, 28, 1010-1014.	1.9	2
53	Selection and Analysis of Genomic Sequence-Derived RNA Motifs Binding to C5 Protein. <i>Bulletin of the Korean Chemical Society</i> , 2006, 27, 699-704.	1.9	1
54	Processing of M1 RNA at the 5' End Protects Its Primary Transcript from Degradation. <i>Journal of Biological Chemistry</i> , 2005, 280, 34667-34674.	3.4	16

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55	Kinetic Analysis of Precursor M1 RNA Molecules for Exploring Substrate Specificity of the N-Terminal Catalytic Half of RNase E. <i>Journal of Biochemistry</i> , 2004, 136, 693-699.	1.7	4
56	Regulation of 6S RNA biogenesis by switching utilization of both sigma factors and endoribonucleases. <i>Nucleic Acids Research</i> , 2004, 32, 6057-6068.	14.5	79
57	3'-end processing of precursor M1 RNA by the N-terminal half of RNase E. <i>FEBS Letters</i> , 2002, 529, 225-231.	2.8	12