

# Won Jong Rhee

## List of Publications by Year in descending order

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72  
papers

3,141  
citations

159358

30  
h-index

161609

54  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3836  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Dot-Fluorescent Protein FRET Probes for Sensing Intracellular pH. ACS Nano, 2012, 6, 2917-2924.	7.3	308
2	Fluorescent Probes for Live-Cell RNA Detection. Annual Review of Biomedical Engineering, 2009, 11, 25-47.	5.7	217
3	Exosomes Derived from Human Induced Pluripotent Stem Cells Ameliorate the Aging of Skin Fibroblasts. International Journal of Molecular Sciences, 2018, 19, 1715.	1.8	140
4	Simultaneous and multiplexed detection of exosome microRNAs using molecular beacons. Biosensors and Bioelectronics, 2016, 86, 202-210.	5.3	131
5	In situ single step detection of exosome microRNA using molecular beacon. Biomaterials, 2015, 54, 116-125.	5.7	128
6	Exosome-mediated microRNA-497 delivery for anti-cancer therapy in a microfluidic 3D lung cancer model. Lab on A Chip, 2020, 20, 548-557.	3.1	114
7	Enhancement of neurite outgrowth in PC12 cells by iron oxide nanoparticles. Biomaterials, 2011, 32, 2871-2877.	5.7	111
8	Simultaneous multiplexed detection of exosomal microRNAs and surface proteins for prostate cancer diagnosis. Biosensors and Bioelectronics, 2019, 146, 111749.	5.3	104
9	Isolation and Characterization of an Apoptosis-Inhibiting Component from the Hemolymph of Bombyx mori. Biochemical and Biophysical Research Communications, 2001, 285, 224-228.	1.0	87
10	Isolation of cabbage exosome-like nanovesicles and investigation of their biological activities in human cells. Bioactive Materials, 2021, 6, 4321-4332.	8.6	83
11	HuR regulates the expression of stress-sensitive genes and mediates inflammatory response in human umbilical vein endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6858-6863.	3.3	80
12	High-throughput generation of spheroids using magnetic nanoparticles for three-dimensional cell culture. Biomaterials, 2013, 34, 8555-8563.	5.7	75
13	Target accessibility and signal specificity in live-cell detection of BMP-4 mRNA using molecular beacons. Nucleic Acids Research, 2008, 36, e30-e30.	6.5	74
14	Silkworm hemolymph as a potent inhibitor of apoptosis in Sf9 cells. Biochemical and Biophysical Research Communications, 2002, 295, 779-783.	1.0	67
15	Silkworm Hemolymph Inhibits Baculovirus-Induced Insect Cell Apoptosis. Biochemical and Biophysical Research Communications, 2000, 271, 186-190.	1.0	64
16	Inhibition of Human Cell Apoptosis by Silkworm Hemolymph. Biotechnology Progress, 2002, 18, 874-878.	1.3	64
17	Enhancement of recombinant protein production in Chinese hamster ovary cells through anti-apoptosis engineering using 30Kc6 gene. Biotechnology and Bioengineering, 2006, 95, 459-467.	1.7	64
18	Safe and Targeted Sonodynamic Cancer Therapy Using Biocompatible Exosome-Based Nanosensitizers. ACS Applied Materials & Interfaces, 2021, 13, 25575-25588.	4.0	58

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19	Detection of exosome miRNAs using molecular beacons for diagnosing prostate cancer. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 52-63.	1.9	55
20	Beneficial effect of silkworm hemolymph on a CHO cell system: Inhibition of apoptosis and increase of EPO production. <i>Biotechnology and Bioengineering</i> , 2005, 91, 793-800.	1.7	54
21	Simultaneous detection of mRNA and protein stem cell markers in live cells. <i>BMC Biotechnology</i> , 2009, 9, 30.	1.7	51
22	Enzyme delivery using the 30Kc19 protein and human serum albumin nanoparticles. <i>Biomaterials</i> , 2014, 35, 1696-1704.	5.7	51
23	Exosomes: Biogenesis, Composition, Functions, and Their Role in Pre-metastatic Niche Formation. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 689-701.	1.4	50
24	Kinetic Effect of Silkworm Hemolymph on the Delayed Host Cell Death in an Insect Cell-Baculovirus System. <i>Biotechnology Progress</i> , 1999, 15, 1028-1032.	1.3	48
25	Inhibition of Apoptosis by a Bombyx mori Gene. <i>Biotechnology Progress</i> , 2008, 20, 324-329.	1.3	48
26	Tat Peptide Is Capable of Importing Large Nanoparticles Across Nuclear Membrane in Digitonin Permeabilized Cells. <i>Annals of Biomedical Engineering</i> , 2009, 37, 2018-2027.	1.3	48
27	Antioxidative Effects of Carrot-Derived Nanovesicles in Cardiomyoblast and Neuroblastoma Cells. <i>Pharmaceutics</i> , 2021, 13, 1203.	2.0	46
28	Slow non-specific accumulation of 2'-deoxy and 2'-O-methyl oligonucleotide probes at mitochondria in live cells. <i>Nucleic Acids Research</i> , 2010, 38, e109-e109.	6.5	40
29	Inhibition of tumor progression and M2 microglial polarization by extracellular vesicle-mediated microRNA-124 in a 3D microfluidic glioblastoma microenvironment. <i>Theranostics</i> , 2021, 11, 9687-9704.	4.6	38
30	Regulation of morphogenesis and neural differentiation of human mesenchymal stem cells using carbon nanotube sheets. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 587.	0.6	37
31	A protein delivery system using 30Kc19 cell-penetrating protein originating from silkworm. <i>Biomaterials</i> , 2012, 33, 9127-9134.	5.7	37
32	Inhibition of apoptosis using exosomes in Chinese hamster ovary cell culture. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1331-1339.	1.7	32
33	Development and comparative analysis of human urine exosome isolation strategies. <i>Process Biochemistry</i> , 2020, 88, 197-203.	1.8	32
34	The profiles of microRNAs from urinary extracellular vesicles (EVs) prepared by various isolation methods and their correlation with serum EV microRNAs. <i>Diabetes Research and Clinical Practice</i> , 2020, 160, 108010.	1.1	29
35	Engineered extracellular vesicle-based sonotheranostics for dual stimuli-sensitive drug release and photoacoustic imaging-guided chemo-sonodynamic cancer therapy. <i>Theranostics</i> , 2022, 12, 1247-1266.	4.6	29
36	Single-step equipment-free extracellular vesicle concentration using super absorbent polymer beads. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12074.	5.5	27

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37	Vascular Smooth Muscle Cell-Derived Exosomal MicroRNAs Regulate Endothelial Cell Migration Under PDGF Stimulation. <i>Cells</i> , 2020, 9, 639.	1.8	25
38	Î±-Galactosidase delivery using 30Kc19-human serum albumin nanoparticles for effective treatment of Fabry disease. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 10395-10402.	1.7	24
39	Inhibition of HeLa Cell Apoptosis by Storageâ€Protein 2. <i>Biotechnology Progress</i> , 2007, 23, 1441-1446.	1.3	23
40	Exosome-mediated Let7c-5p Delivery for Breast Cancer Therapeutic Development. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 513-520.	1.4	22
41	Soluble expression and stability enhancement of transcription factors using 30Kc19 cell-penetrating protein. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3523-3532.	1.7	21
42	Delivery of Molecular Beacons for Live-Cell Imaging and Analysis of RNA. <i>Methods in Molecular Biology</i> , 2011, 714, 159-174.	0.4	18
43	Proteinâ€™stabilizing and cellâ€™penetrating properties of Î±â€™helix domain of 30Kc19 protein. <i>Biotechnology Journal</i> , 2016, 11, 1443-1451.	1.8	18
44	Expression of Bombyx mori 30Kc19 protein in Escherichia coli and its anti-apoptotic effect in Sf9 cell. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 645-650.	1.4	17
45	Identification and characterization of a novel cell-penetrating peptide of 30Kc19 protein derived from Bombyx mori. <i>Process Biochemistry</i> , 2014, 49, 1516-1526.	1.8	17
46	Microfluidic three-dimensional cell culture of stem cells for high-throughput analysis. <i>World Journal of Stem Cells</i> , 2019, 11, 803-816.	1.3	17
47	Enhanced production of recombinant protein in Escherichia coli using silkworm hemolymph. <i>Biotechnology and Bioprocess Engineering</i> , 2005, 10, 353-356.	1.4	16
48	Translation inhibition reveals interaction of 2'-deoxy and 2'-O-methyl molecular beacons with mRNA targets in living cells. <i>Nucleic Acids Research</i> , 2009, 37, 4977-4986.	6.5	16
49	Dimerization of 30Kc19 protein in the presence of amphiphilic moiety and importance of Cysâ€™57 during cell penetration. <i>Biotechnology Journal</i> , 2014, 9, 1582-1593.	1.8	15
50	Inhibition of apoptosis in HeLa cell by silkworm storage protein 1, SP1. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 807-813.	1.4	15
51	Exosome-based antisense locked nucleic acid delivery for inhibition of type II collagen degradation in chondrocyte. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 126-135.	2.9	12
52	Anti-apoptotic mechanism of silkworm hemolymph in HeLa cell apoptosis. <i>Process Biochemistry</i> , 2013, 48, 1375-1380.	1.8	11
53	Use of molecular beacons to image effects of titanium surface microstructure on Î²1 integrin expression in live osteoblast-like cells. <i>Biomaterials</i> , 2010, 31, 7640-7647.	5.7	10
54	Single Step In Situ Detection of Surface Protein and MicroRNA in Clustered Extracellular Vesicles Using Flow Cytometry. <i>Journal of Clinical Medicine</i> , 2021, 10, 319.	1.0	10

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55	Understanding the mechanistic roles of 30Kc6 gene in apoptosis and specific productivity in antibody-producing Chinese hamster ovary cells. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1243-1253.	1.7	9
56	Enhancement of human erythropoietin production in Chinese hamster ovary cells through supplementation of 30Kc19-30Kc6 fusion protein. <i>Process Biochemistry</i> , 2015, 50, 973-980.	1.8	9
57	Colorimetric biosensor using dual amplification of enzyme-free reaction through universal hybridization chain reaction system. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1567-1574.	1.7	9
58	Silkworm Storage Protein 1 Inhibits Autophagy-Mediated Apoptosis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 318.	1.8	9
59	Phenylboronic Acid-conjugated Exosomes for Enhanced Anticancer Therapeutic Effect by Increasing Doxorubicin Loading Efficiency. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 78-85.	1.4	9
60	Extracellular vesicles with high dual drug loading for safe and efficient combination chemo-phototherapy. <i>Biomaterials Science</i> , 2022, 10, 2817-2830.	2.6	9
61	Isolation and Characterization of Urinary Extracellular Vesicles from Healthy Donors and Patients with Castration-Resistant Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7134.	1.8	9
62	Stabilization of cellular mitochondrial enzyme complex and sialyltransferase activity through supplementation of 30Kc19 protein. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2155-2163.	1.7	8
63	Anti-oxidative effects of silkworm storage protein 1 in HeLa cell. <i>Process Biochemistry</i> , 2017, 55, 199-206.	1.8	8
64	Cell death in culture: Molecular mechanisms, detections, and inhibition strategies. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 37-53.	2.9	8
65	Extracellular Vesicle miRNA Detection Using Molecular Beacons. <i>Methods in Molecular Biology</i> , 2017, 1660, 287-294.	0.4	6
66	Nanostructured Probes for <i>In Vivo</i> Gene Detection. , 2010, , 143-165.		5
67	Anti-apoptotic effects of the alpha-helix domain of silkworm storage protein 1. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 671-678.	1.4	4
68	Bioreducible Polyspermine-Based Gene Carriers for Efficient siRNA Delivery: Effects of PEG Conjugation on Gene Silencing Efficiency. <i>Macromolecular Research</i> , 2018, 26, 1135-1142.	1.0	4
69	Inhibition of Endoplasmic Reticulum Stress-induced Apoptosis by Silkworm Storage Protein 1. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 194-200.	1.4	4
70	Anti-inflammatory effects of silkworm hemolymph on lipopolysaccharide-stimulated macrophages. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1784-1789.	1.2	2
71	Beneficial Effects of Silkworm Hemolymph on the Cultivation of Insect Cell-Baculovirus System. <i>ACS Symposium Series</i> , 2002, , 153-162.	0.5	1
72	Live Cell Detection of Monoclonal Antibody Light and Heavy Chain mRNAs using Molecular Beacons. <i>KSBB Journal</i> , 2016, 31, 33-39.	0.1	0