

Tai Hyun Park

List of Publications by Year in descending order

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152
papers

7,245
citations

50276

46
h-index

62596

80
g-index

155
all docs

155
docs citations

155
times ranked

7948
citing authors

#	ARTICLE	IF	CITATIONS
1	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
2	Integration of Cell Culture and Microfabrication Technology. Biotechnology Progress, 2003, 19, 243-253.	2.6	439
3	Ultrasensitive Flexible Graphene Based Field-Effect Transistor (FET)-Type Bioelectronic Nose. Nano Letters, 2012, 12, 5082-5090.	9.1	312
4	Polypyrrole Nanotubes Conjugated with Human Olfactory Receptors: High-Performance Transducers for FET-Type Bioelectronic Noses. Angewandte Chemie - International Edition, 2009, 48, 2755-2758.	13.8	195
5	Single-Carbon-Atomic-Resolution Detection of Odorant Molecules using a Human Olfactory Receptor-based Bioelectronic Nose. Advanced Materials, 2009, 21, 91-94.	21.0	171
6	Conducting Nanomaterial Sensor Using Natural Receptors. Chemical Reviews, 2019, 119, 36-93.	47.7	159
7	Nanovesicle-based bioelectronic nose platform mimicking human olfactory signal transduction. Biosensors and Bioelectronics, 2012, 35, 335-341.	10.1	149
8	An Ultrasensitive, Selective, Multiplexed Superbioelectronic Nose That Mimics the Human Sense of Smell. Nano Letters, 2015, 15, 6559-6567.	9.1	129
9	Recent advances in electronic and bioelectronic noses and their biomedical applications. Enzyme and Microbial Technology, 2011, 48, 427-437.	3.2	125
10	Mimicking the human smell sensing mechanism with an artificial nose platform. Biomaterials, 2012, 33, 1722-1729.	11.4	106
11	Human Taste Receptor-Functionalized Field Effect Transistor as a Human-Like Nanobioelectronic Tongue. Nano Letters, 2013, 13, 172-178.	9.1	104
12	Piezoelectric olfactory biosensor: ligand specificity and dose-dependence of an olfactory receptor expressed in a heterologous cell system. Biosensors and Bioelectronics, 2005, 20, 1327-1332.	10.1	103
13	A peptide receptor-based bioelectronic nose for the real-time determination of seafood quality. Biosensors and Bioelectronics, 2013, 39, 244-249.	10.1	100
14	A bioelectronic sensor based on canine olfactory nanovesicle-carbon nanotube hybrid structures for the fast assessment of food quality. Analyst, The, 2012, 137, 3249.	3.5	99
15	Piezoelectric biosensor using olfactory receptor protein expressed in Escherichia coli. Biosensors and Bioelectronics, 2006, 21, 1981-1986.	10.1	98
16	Large-Scale Graphene Micropattern Nano-biohybrids: High-Performance Transducers for FET-Type Flexible Fluidic HIV Immunoassays. Advanced Materials, 2013, 25, 4177-4185.	21.0	97
17	Bioelectronic nose with high sensitivity and selectivity using chemically functionalized carbon nanotube combined with human olfactory receptor. Journal of Biotechnology, 2012, 157, 467-472.	3.8	96
18	A portable and multiplexed bioelectronic sensor using human olfactory and taste receptors. Biosensors and Bioelectronics, 2017, 87, 901-907.	10.1	87

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19	Bioelectronic nose combined with a microfluidic system for the detection of gaseous trimethylamine. <i>Biosensors and Bioelectronics</i> , 2015, 71, 179-185.	10.1	86
20	Real-time monitoring of odorant-induced cellular reactions using surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2009, 25, 55-60.	10.1	83
21	Nanovesicle-Based Bioelectronic Nose for the Diagnosis of Lung Cancer from Human Blood. <i>Advanced Healthcare Materials</i> , 2014, 3, 360-366.	7.6	83
22	Inhibition of apoptosis by recombinant 30K protein originating from silkworm hemolymph. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 523-528.	2.1	82
23	Recent advances in the development of bioelectronic nose. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 22-29.	2.6	82
24	Cell-based olfactory biosensor using microfabricated planar electrode. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2659-2664.	10.1	80
25	Real-time monitoring of geosmin and 2-methylisoborneol, representative odor compounds in water pollution using bioelectronic nose with human-like performance. <i>Biosensors and Bioelectronics</i> , 2015, 74, 199-206.	10.1	80
26	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. <i>ACS Nano</i> , 2016, 10, 7287-7296.	14.6	78
27	Human Dopamine Receptor-Conjugated Multidimensional Conducting Polymer Nanofiber Membrane for Dopamine Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28897-28903.	8.0	76
28	High-throughput generation of spheroids using magnetic nanoparticles for three-dimensional cell culture. <i>Biomaterials</i> , 2013, 34, 8555-8563.	11.4	75
29	Bioelectronic Tongue Using Heterodimeric Human Taste Receptor for the Discrimination of Sweeteners with Human-like Performance. <i>ACS Nano</i> , 2014, 8, 9781-9789.	14.6	75
30	Cell-based measurement of odorant molecules using surface plasmon resonance. <i>Enzyme and Microbial Technology</i> , 2006, 39, 375-380.	3.2	71
31	“Bioelectronic super-taster” device based on taste receptor-carbon nanotube hybrid structures. <i>Lab on A Chip</i> , 2011, 11, 2262.	6.0	71
32	Fed-batch operation of recombinant <i>Escherichia coli</i> containing <i>trp</i> promoter with controlled specific growth rate. <i>Biotechnology and Bioengineering</i> , 1994, 43, 995-999.	3.3	68
33	Silkworm hemolymph as a potent inhibitor of apoptosis in Sf9 cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 779-783.	2.1	67
34	Silkworm Hemolymph Inhibits Baculovirus-Induced Insect Cell Apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2000, 271, 186-190.	2.1	64
35	Inhibition of Human Cell Apoptosis by Silkworm Hemolymph. <i>Biotechnology Progress</i> , 2002, 18, 874-878.	2.6	64
36	Enhancement of recombinant protein production in Chinese hamster ovary cells through anti-apoptosis engineering using 30Kc6 gene. <i>Biotechnology and Bioengineering</i> , 2006, 95, 459-467.	3.3	64

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37	Bioelectronic Nose Using Odorant Binding Protein-Derived Peptide and Carbon Nanotube Field-Effect Transistor for the Assessment of <i>Salmonella</i> Contamination in Food. <i>Analytical Chemistry</i> , 2016, 88, 11283-11287.	6.5	61
38	Nanodisc-Based Bioelectronic Nose Using Olfactory Receptor Produced in <i>Escherichia coli</i> for the Assessment of the Death-Associated Odor Cadaverine. <i>ACS Nano</i> , 2017, 11, 11847-11855.	14.6	59
39	The targeting of endothelial progenitor cells to a specific location within a microfluidic channel using magnetic nanoparticles. <i>Biomedical Microdevices</i> , 2009, 11, 287-296.	2.8	57
40	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.	3.3	54
41	Ultrasensitive and Selective Recognition of Peptide Hormone Using Close-Packed Arrays of hPTHr-Conjugated Polymer Nanoparticles. <i>ACS Nano</i> , 2012, 6, 5549-5558.	14.6	52
42	Enzyme delivery using the 30Kc19 protein and human serum albumin nanoparticles. <i>Biomaterials</i> , 2014, 35, 1696-1704.	11.4	51
43	Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015, 4, 1339-1347.	7.6	51
44	High-performance bioelectronic tongue using ligand binding domain T1R1 VFT for umami taste detection. <i>Biosensors and Bioelectronics</i> , 2018, 117, 628-636.	10.1	49
45	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.	2.6	48
46	Inhibition of Apoptosis by a <i>Bombyx mori</i> Gene. <i>Biotechnology Progress</i> , 2008, 20, 324-329.	2.6	48
47	Cell-based microfluidic platform for mimicking human olfactory system. <i>Biosensors and Bioelectronics</i> , 2015, 74, 554-561.	10.1	48
48	Human dopamine receptor nanovesicles for gate-potential modulators in high-performance field-effect transistor biosensors. <i>Scientific Reports</i> , 2014, 4, 4342.	3.3	47
49	Expression, Solubilization and Purification of a Human Olfactory Receptor from <i>Escherichia coli</i> . <i>Current Microbiology</i> , 2009, 59, 309-314.	2.2	46
50	Anti-apoptosis engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 76-82.	2.6	45
51	Enhancement of recombinant human EPO production and sialylation in chinese hamster ovary cells through <i>Bombyx mori</i> 30Kc19 gene expression. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1634-1642.	3.3	45
52	Bioelectronic Nose: An Emerging Tool for Odor Standardization. <i>Trends in Biotechnology</i> , 2017, 35, 301-307.	9.3	43
53	The bioelectronic nose and tongue using olfactory and taste receptors: Analytical tools for food quality and safety assessment. <i>Biotechnology Advances</i> , 2018, 36, 371-379.	11.7	43
54	Highly selective and sensitive detection of neurotransmitters using receptor-modified single-walled carbon nanotube sensors. <i>Nanotechnology</i> , 2013, 24, 285501.	2.6	40

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55	C. elegans-on-a-chip for in situ and in vivo Ag nanoparticles uptake and toxicity assay. Scientific Reports, 2017, 7, 40225.	3.3	38
56	Magnetic Nanoparticle-Embedded Hydrogel Sheet with a Groove Pattern for Wound Healing Application. ACS Biomaterials Science and Engineering, 2019, 5, 3909-3921.	5.2	38
57	A protein delivery system using 30Kc19 cell-penetrating protein originating from silkworm. Biomaterials, 2012, 33, 9127-9134.	11.4	37
58	Purification of recombinant 30K protein produced in Escherichia coli and its anti-apoptotic effect in mammalian and insect cell systems. Enzyme and Microbial Technology, 2003, 33, 466-471.	3.2	36
59	Enhancement of odorant detection sensitivity by the expression of odorant-binding protein. Biosensors and Bioelectronics, 2008, 23, 1017-1023.	10.1	36
60	Ultrasensitive, Selective, and Highly Stable Bioelectronic Nose That Detects the Liquid and Gaseous Cadaverine. Analytical Chemistry, 2019, 91, 12181-12190.	6.5	36
61	Silkworm hemolymph as a substitute for fetal bovine serum in insect cell culture. Biotechnology Letters, 1996, 10, 401.	0.5	34
62	A dietary anthocyanin cyanidin-3-O-glucoside binds to PPARs to regulate glucose metabolism and insulin sensitivity in mice. Communications Biology, 2020, 3, 514.	4.4	34
63	Detection of aquaporin-4 antibody using aquaporin-4 extracellular loop-based carbon nanotube biosensor for the diagnosis of neuromyelitis optica. Biosensors and Bioelectronics, 2016, 78, 87-91.	10.1	33
64	Human-like smelling of a rose scent using an olfactory receptor nanodisc-based bioelectronic nose. Scientific Reports, 2018, 8, 13945.	3.3	32
65	Screening of target-specific olfactory receptor and development of olfactory biosensor for the assessment of fungal contamination in grain. Sensors and Actuators B: Chemical, 2015, 210, 9-16.	7.8	31
66	Intrinsic Hydrophobic Cairnlike Multilayer Films for Antibacterial Effect with Enhanced Durability. ACS Applied Materials & Interfaces, 2015, 7, 26117-26123.	8.0	31
67	Swimming characteristics of magnetic bacterium, Magnetospirillum sp. AMB-1, and implications as toxicity measurement. Biotechnology and Bioengineering, 2001, 76, 11-16.	3.3	29
68	Enhancement of cellular olfactory signal by electrical stimulation. Electrophoresis, 2009, 30, 3283-3288.	2.4	29
69	Enhancement of recombinant human EPO production and glycosylation in serum-free suspension culture of CHO cells through expression and supplementation of 30Kc19. Applied Microbiology and Biotechnology, 2012, 96, 671-683.	3.6	29
70	Anti-cancer stemness and anti-invasive activity of bitter taste receptors, TAS2R8 and TAS2R10, in human neuroblastoma cells. PLoS ONE, 2017, 12, e0176851.	2.5	29
71	Bioelectronic nose and its application to smell visualization. Journal of Biological Engineering, 2016, 10, 17.	4.7	27
72	In-situ food spoilage monitoring using a wireless chemical receptor-conjugated graphene electronic nose. Biosensors and Bioelectronics, 2022, 200, 113908.	10.1	27

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73	Wireless portable bioelectronic nose device for multiplex monitoring toward food freshness/spoilage. <i>Biosensors and Bioelectronics</i> , 2022, 215, 114551.	10.1	27
74	Stabilization of enzymes by the recombinant 30Kc19 protein. <i>Process Biochemistry</i> , 2012, 47, 164-169.	3.7	26
75	Specificity of odorant-binding proteins: a factor influencing the sensitivity of olfactory receptor-based biosensors. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 55-62.	3.4	25
76	Dopamine Receptor D1 Agonism and Antagonism Using a Field-Effect Transistor Assay. <i>ACS Nano</i> , 2017, 11, 5950-5959.	14.6	25
77	One-step pretreatment of yellow poplar biomass using peracetic acid to enhance enzymatic digestibility. <i>Scientific Reports</i> , 2017, 7, 12216.	3.3	25
78	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.	3.6	24
79	Complete genome sequence of <i>Bacillus</i> sp. 275, producing extracellular cellulolytic, xylanolytic and ligninolytic enzymes. <i>Journal of Biotechnology</i> , 2017, 254, 59-62.	3.8	24
80	Ion-Channel-Coupled Receptor-Based Platform for a Real-Time Measurement of G-Protein-Coupled Receptor Activities. <i>ACS Nano</i> , 2015, 9, 1699-1706.	14.6	23
81	Efficient Encapsulation and Sustained Release of Basic Fibroblast Growth Factor in Nanofilm: Extension of the Feeding Cycle of Human Induced Pluripotent Stem Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25087-25097.	8.0	23
82	Microtechnology-based organ systems and whole-body models for drug screening. <i>Biotechnology Journal</i> , 2016, 11, 746-756.	3.5	22
83	Soluble expression and stability enhancement of transcription factors using 30Kc19 cell-penetrating protein. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3523-3532.	3.6	21
84	A triangle study of human, instrument and bioelectronic nose for non-destructive sensing of seafood freshness. <i>Scientific Reports</i> , 2018, 8, 547.	3.3	21
85	Microfluidic bead-based sensing platform for monitoring kinase activity. <i>Biosensors and Bioelectronics</i> , 2014, 57, 1-9.	10.1	18
86	Purification and functional reconstitution of human olfactory receptor expressed in <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 423-430.	2.6	18
87	Protein-stabilizing and cell-penetrating properties of Î±-helix domain of 30Kc19 protein. <i>Biotechnology Journal</i> , 2016, 11, 1443-1451.	3.5	18
88	Expression of <i>Bombyx mori</i> 30Kc19 protein in <i>Escherichia coli</i> and its anti-apoptotic effect in Sf9 cell. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 645-650.	2.6	17
89	Identification and characterization of a novel cell-penetrating peptide of 30Kc19 protein derived from <i>Bombyx mori</i> . <i>Process Biochemistry</i> , 2014, 49, 1516-1526.	3.7	17
90	<i>Asticcacaulis solisilvae</i> sp. nov., isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 3829-3834.	1.7	17

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91	Ultrasensitive Bioelectronic Tongue Based on the Venus Flytrap Domain of a Human Sweet Taste Receptor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2478-2487.	8.0	17
92	A high-throughput biomimetic bone-on-a-chip platform with artificial intelligence-assisted image analysis for osteoporosis drug testing. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	17
93	Characterization of bacteriophage λ Q λ mutant for stable and efficient production of recombinant protein in <i>Escherichia coli</i> system. <i>Biotechnology and Bioengineering</i> , 1998, 57, 529-535.	3.3	16
94	Enhanced production of recombinant protein in <i>Escherichia coli</i> using silkworm hemolymph. <i>Biotechnology and Bioprocess Engineering</i> , 2005, 10, 353-356.	2.6	16
95	Olfactory receptor-based CNT-FET sensor for the detection of DMMP as a simulant of sarin. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131188.	7.8	16
96	Miniaturization of polymerase chain reaction. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 213-220.	2.6	15
97	Dimerization of 30Kc19 protein in the presence of amphiphilic moiety and importance of Cys ϵ 57 during cell penetration. <i>Biotechnology Journal</i> , 2014, 9, 1582-1593.	3.5	15
98	Inhibition of apoptosis in HeLa cell by silkworm storage protein 1, SP1. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 807-813.	2.6	15
99	Ultrasensitive terahertz molecule sensor for observation of photoinduced conformational change in rhodopsin-nanovesicles. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1371-1375.	7.8	15
100	Coupling of olfactory receptor and ion channel for rapid and sensitive visualization of odorant response. <i>Acta Biomaterialia</i> , 2015, 22, 1-7.	8.3	14
101	Mild pretreatment of yellow poplar biomass using sequential dilute acid and enzymatically-generated peracetic acid to enhance cellulase accessibility. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 405-412.	2.6	14
102	FET-based nanobiosensors for the detection of smell and taste. <i>Science China Life Sciences</i> , 2020, 63, 1159-1167.	4.9	14
103	Growth limiting factors influencing high density culture of insect cells in Grace's medium. <i>Biotechnology Letters</i> , 1994, 16, 327.	2.2	13
104	Odorant detection using liposome containing olfactory receptor in the SPR system. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 188-193.	7.8	13
105	Peptide hormone sensors using human hormone receptor-carrying nanovesicles and graphene FETs. <i>Scientific Reports</i> , 2020, 10, 388.	3.3	13
106	Artificial Rod and Cone Photoreceptors with Human-like Spectral Sensitivities. <i>Advanced Materials</i> , 2018, 30, e1706764.	21.0	12
107	Intracellular Delivery of Recombinant RUNX2 Facilitated by Cell-Penetrating Protein for the Osteogenic Differentiation of hMSCs. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5202-5214.	5.2	12
108	Protective effects of silkworm hemolymph extract and its fractions on UV-induced photoaging. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 37-44.	2.6	11

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109	Partially Digested Osteoblast Cell Line-Derived Extracellular Matrix Induces Rapid Mineralization and Osteogenesis. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1134-1146.	5.2	11
110	Cellular engineering for the high-level production of recombinant proteins in mammalian cell systems. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1042-1048.	2.7	10
111	Influences of Media Compositions on Characteristics of Isolated Bacteria Exhibiting Lignocellulolytic Activities from Various Environmental Sites. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 931-942.	2.9	10
112	Visual detection of odorant geraniol enabled by integration of a human olfactory receptor into polydiacetylene/lipid nano-assembly. <i>Nanoscale</i> , 2019, 11, 7582-7587.	5.6	10
113	Optimization of recombinant <i>Escherichia coli</i> fed-batch fermentation for bovine somatotropin. <i>Biotechnology Letters</i> , 1994, 16, 1119-1124.	2.2	9
114	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.	3.7	9
115	Identification of a Lung Cancer Biomarker Using a Cancer Cell Line and Screening of Olfactory Receptors for Biomarker Detection. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 55-62.	2.6	9
116	Correlation between in vitro binding activity of sweeteners to cloned human sweet taste receptor and sensory evaluation. <i>Food Science and Biotechnology</i> , 2021, 30, 675-682.	2.6	9
117	Multilayer Nanofilms via Inkjet Printing for Stabilizing Growth Factor and Designing Desired Cell Developments. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700216.	7.6	8
118	Enzyme delivery using protein-stabilizing and cell-penetrating 30Kc19 protein nanoparticles. <i>Process Biochemistry</i> , 2017, 63, 76-83.	3.7	8
119	Exploring Binding Mechanisms between Curcumin and Silkworm 30Kc19 Protein Using Spectroscopic Analyses and Computational Simulations. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 605-616.	2.6	8
120	Complete genome sequence of <i>Enterobacter cloacae</i> GGT036: A furfural tolerant soil bacterium. <i>Journal of Biotechnology</i> , 2015, 193, 43-44.	3.8	7
121	Micelle-stabilized Olfactory Receptors for a Bioelectronic Nose Detecting Butter Flavors in Real Fermented Alcoholic Beverages. <i>Scientific Reports</i> , 2020, 10, 9064.	3.3	7
122	Bioelectronic sensor mimicking the human neuroendocrine system for the detection of hypothalamic-pituitary-adrenal axis hormones in human blood. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112071.	10.1	7
123	Quantitative measurement of general odorant using electroantennogram of male silkworm moth, <i>Bombyx mori</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2000, 5, 150-152.	2.6	6
124	Analysis of two-stage continuous operation of <i>Escherichia coli</i> containing bacteriophage λ vector. <i>Bioprocess and Biosystems Engineering</i> , 2000, 23, 557-563.	3.4	6
125	Comparative Evaluation of Sensitivity to Hexanal Between Human and Canine Olfactory Receptors. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 1007-1012.	2.6	6
126	Enhanced osteogenic differentiation of human mesenchymal stem cells by direct delivery of Cbfl ² protein. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2897-2910.	3.3	6

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127	Protein-based direct reprogramming of fibroblasts to neuronal cells using 30Kc19 protein and transcription factor Ascl1. International Journal of Biochemistry and Cell Biology, 2020, 121, 105717.	2.8	6
128	Prevention of collagen hydrogel contraction using polydopamine-coating and alginate outer shell increases cell contractile force. , 2022, 136, 212780.		6
129	Temperature management strategy for efficient gene expression in a thermally inducible Escherichia coli/bacteriophage system. Biotechnology and Bioprocess Engineering, 2008, 13, 470-475.	2.6	5
130	Lineage Specific Differentiation of Magnetic Nanoparticle-Based Size Controlled Human Embryoid Body. ACS Biomaterials Science and Engineering, 2017, 3, 1719-1729.	5.2	5
131	Bioelectronic Skin Based on Nociceptive Ion Channel for Human-Like Perception of Cold Pains. Small, 2020, 16, e2001469.	10.0	5
132	Enhancement of Wound Healing Efficacy by Increasing the Stability and Skin-Penetrating Property of bFGF Using 30Kc19-Based Fusion Protein. Advanced Biology, 2021, 5, e2000176.	2.5	5
133	Development of a CHO cell line for stable production of recombinant antibodies against human MMP9. BMC Biotechnology, 2022, 22, 8.	3.3	5
134	Two - phase cultivation of insect cells for production of recombinant protein. Biotechnology Letters, 1995, 9, 719-724.	0.5	4
135	Oxidation-deficient silkworm hemolymph as a medium supplement for insect cell culture. Biotechnology and Bioprocess Engineering, 1998, 3, 87-90.	2.6	4
136	Effect of light intensity on the correlation between cell mass concentration and optical density in high density culture of a filamentous microorganism. Korean Journal of Chemical Engineering, 2015, 32, 1842-1846.	2.7	4
137	Bioelectronic Nose Using Olfactory Receptor-Embedded Nanodiscs. Methods in Molecular Biology, 2018, 1820, 239-249.	0.9	4
138	Bitter taste receptors protect against skin aging by inhibiting cellular senescence and enhancing wound healing. Nutrition Research and Practice, 2022, 16, 1.	1.9	4
139	Photosensitive Nanodiscs Composed of Human Photoreceptors for Refractive Index Modulation at Selective Wavelengths. Nano Letters, 2022, 22, 6825-6832.	9.1	4
140	Editorial: <i>Biotechnology Journal</i> in Asia – the first official AFOB special issue. Biotechnology Journal, 2013, 8, 1246-1248.	3.5	3
141	Substrates that limit high density cultures of Spodoptera frugiperda cells. Biotechnology Letters, 1999, 13, 425-429.	0.5	2
142	Rule-based in vitro molecular classification and visualization. Biochip Journal, 2013, 7, 29-37.	4.9	2
143	Anti-inflammatory effects of silkworm hemolymph on lipopolysaccharide-stimulated macrophages. Korean Journal of Chemical Engineering, 2013, 30, 1784-1789.	2.7	2
144	Antioxidant effect of protein-free silkworm hemolymph extract in mitochondrial membrane potential. Food Science and Biotechnology, 2013, 22, 233-239.	2.6	2

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145	Cellular direct conversion by cell penetrable OCT4-30Kc19 protein and BMP4 growth factor. Biomaterials Research, 2022, 26, .	6.9	2
146	Beneficial Effects of Silkworm Hemolymph on the Cultivation of Insect Cell-Baculovirus System. ACS Symposium Series, 2002, , 153-162.	0.5	1
147	Recent Advances in the Development of the Bioelectronic Sensor Using Sensory Receptors. Journal of Japan Association on Odor Environment, 2020, 51, 2-8.	0.0	1
148	Effect of incorrectly estimated parameters on the control of specific growth rate in E. coli fed-batch fermentation. Biotechnology and Bioprocess Engineering, 1996, 1, 22-25.	2.6	0
149	Biological Systems Engineering: An Overview. ACS Symposium Series, 2002, , 1-6.	0.5	0
150	Stem Cells: Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles (Adv. Healthcare Mater. 9/2015). Advanced Healthcare Materials, 2015, 4, 1418-1418.	7.6	0
151	Photoreceptors: Artificial Rod and Cone Photoreceptors with Human-Like Spectral Sensitivities (Adv.) Tj ETQq1 1 0.784314 rgBT /Over 21.0	21.0	0
152	Enhanced single-cell viability using 30Kc6 for efficient expansion of human induced pluripotent stem cells. Process Biochemistry, 2019, 78, 161-168.	3.7	0