

Hyun Seok Song

List of Publications by Year in descending order

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43
papers

3,128
citations

172457
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276875
41
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44
all docs

44
docs citations

44
times ranked

3914
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ food spoilage monitoring using a wireless chemical receptor-conjugated graphene electronic nose. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113908.	10.1	27
2	Detection and discrimination of SARS-CoV-2 spike protein-derived peptides using THz metamaterials. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113981.	10.1	27
3	Photosensitive Nanodiscs Composed of Human Photoreceptors for Refractive Index Modulation at Selective Wavelengths. <i>Nano Letters</i> , 2022, 22, 6825-6832.	9.1	4
4	Wireless portable bioelectronic nose device for multiplex monitoring toward food freshness/spoilage. <i>Biosensors and Bioelectronics</i> , 2022, 215, 114551.	10.1	27
5	Real-time monitoring of geosmin based on an aptamer-conjugated graphene field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2021, 174, 112804.	10.1	30
6	Label-free brain tissue imaging using large-area terahertz metamaterials. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112663.	10.1	59
7	High-performance portable graphene field-effect transistor device for detecting Gram-positive and -negative bacteria. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112514.	10.1	39
8	Ultrasensitive, Selective, and Highly Stable Bioelectronic Nose That Detects the Liquid and Gaseous Cadaverine. <i>Analytical Chemistry</i> , 2019, 91, 12181-12190.	6.5	36
9	Conducting Nanomaterial Sensor Using Natural Receptors. <i>Chemical Reviews</i> , 2019, 119, 36-93.	47.7	159
10	Artificial Rod and Cone Photoreceptors with Human-Like Spectral Sensitivities. <i>Advanced Materials</i> , 2018, 30, e1706764.	21.0	12
11	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
12	Clinical proteomic analysis of scrub typhus infection. <i>Clinical Proteomics</i> , 2018, 15, 6.	2.1	10
13	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
14	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. <i>Biosensors and Bioelectronics</i> , 2017, 89, 187-200.	10.1	112
15	Humidity-Tolerant Single-Stranded DNA-Functionalized Graphene Probe for Medical Applications of Exhaled Breath Analysis. <i>Advanced Functional Materials</i> , 2017, 27, 1700068.	14.9	47
16	Dopamine Receptor D1 Agonism and Antagonism Using a Field-Effect Transistor Assay. <i>ACS Nano</i> , 2017, 11, 5950-5959.	14.6	25
17	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
18	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

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19	Self-assembled RNA-triple-helix hydrogel scaffold for microRNA modulation in the tumour microenvironment. <i>Nature Materials</i> , 2016, 15, 353-363.	27.5	231
20	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging <i>In Vivo</i> . <i>ACS Nano</i> , 2016, 10, 1512-1521.	14.6	157
21	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
22	Personalizing Biomaterials for Precision Nanomedicine Considering the Local Tissue Microenvironment. <i>Advanced Healthcare Materials</i> , 2015, 4, 1584-1599.	7.6	44
23	An Ultrasensitive, Selective, Multiplexed Superbioelectronic Nose That Mimics the Human Sense of Smell. <i>Nano Letters</i> , 2015, 15, 6559-6567.	9.1	129
24	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
25	Nanovesicle-based platform for the electrophysiological monitoring of aquaporin-4 and the real-time detection of its antibody. <i>Biosensors and Bioelectronics</i> , 2014, 61, 140-146.	10.1	6
26	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
27	Production of Olfactory Receptors and Nanovesicles Using Heterologous Cell Systems for Bioelectronic Nose. , 2014, , 145-170.		0
28	Optical measurement of peptide hormone using artificial hormone receptor cell-line. , 2013, , .		0
29	Highly selective and sensitive detection of neurotransmitters using receptor-modified single-walled carbon nanotube sensors. <i>Nanotechnology</i> , 2013, 24, 285501.	2.6	40
30	Human Taste Receptor-Functionalized Field Effect Transistor as a Human-Like Nanobioelectronic Tongue. <i>Nano Letters</i> , 2013, 13, 172-178.	9.1	104
31	Large-scale Graphene Micropattern Nano-biohybrids: High-Performance Transducers for FET-Type Flexible Fluidic HIV Immunoassays. <i>Advanced Materials</i> , 2013, 25, 4177-4185.	21.0	97
32	Bioelectronic nose with high sensitivity and selectivity using chemically functionalized carbon nanotube combined with human olfactory receptor. <i>Journal of Biotechnology</i> , 2012, 157, 467-472.	3.8	96
33	Ultrasensitive Flexible Graphene Based Field-Effect Transistor (FET)-Type Bioelectronic Nose. <i>Nano Letters</i> , 2012, 12, 5082-5090.	9.1	312
34	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
35	Screening of cell-penetrating peptides using mRNA display. <i>Biotechnology Journal</i> , 2012, 7, 387-396.	3.5	13
36	Mimicking the human smell sensing mechanism with an artificial nose platform. <i>Biomaterials</i> , 2012, 33, 1722-1729.	11.4	106

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37	Nanovesicle-based bioelectronic nose platform mimicking human olfactory signal transduction. Biosensors and Bioelectronics, 2012, 35, 335-341.	10.1	149
38	“Bioelectronic super-taster” device based on taste receptor-carbon nanotube hybrid structures. Lab on A Chip, 2011, 11, 2262.	6.0	71
39	Integration of biomolecules and nanomaterials: Towards highly selective and sensitive biosensors. Biotechnology Journal, 2011, 6, 1310-1316.	3.5	29
40	Recent advances in electronic and bioelectronic noses and their biomedical applications. Enzyme and Microbial Technology, 2011, 48, 427-437.	3.2	125
41	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
42	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
43	Expression, Solubilization and Purification of a Human Olfactory Receptor from Escherichia coli. Current Microbiology, 2009, 59, 309-314.	2.2	46