

Chuntae Kim

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

809
citations

567281

15
h-index

580821

25
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25
all docs

25
docs citations

25
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	A phage- and colorimetric sensor-based artificial nose model for banana ripening analysis. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131763.	7.8	17
2	Investigation of colorimetric biosensor array based on programable surface chemistry of M13 bacteriophage towards artificial nose for volatile organic compound detection: From basic properties of the biosensor to practical application. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113339.	10.1	26
3	Recent Trends in Exhaled Breath Diagnosis Using an Artificial Olfactory System. <i>Biosensors</i> , 2021, 11, 337.	4.7	25
4	Hierarchical Cluster Analysis of Medical Chemicals Detected by a Bacteriophage-Based Colorimetric Sensor Array. <i>Nanomaterials</i> , 2020, 10, 121.	4.1	22
5	Virus-Incorporated Biomimetic Nanocomposites for Tissue Regeneration. <i>Nanomaterials</i> , 2019, 9, 1014.	4.1	19
6	Modifying Plasmonic-Field Enhancement and Resonance Characteristics of Spherical Nanoparticles on Metallic Film: Effects of Faceting Spherical Nanoparticle Morphology. <i>Coatings</i> , 2019, 9, 387.	2.6	15
7	Implementation of Combinatorial Genetic and Microenvironmental Engineering to Microbial-Based Field-Deployable Microbead Biosensors for Highly Sensitive and Remote Chemical Detection. <i>ACS Sensors</i> , 2019, 4, 2716-2723.	7.8	7
8	Intermolecular distance measurement with TNT suppressor on the M13 bacteriophage-based Förster resonance energy transfer system. <i>Scientific Reports</i> , 2019, 9, 496.	3.3	4
9	Improvement of High Affinity and Selectivity on Biosensors Using Genetically Engineered Phage by Binding Isotherm Screening. <i>Viruses</i> , 2019, 11, 248.	3.3	9
10	Experimental and numerical evaluation of a genetically engineered M13 bacteriophage with high sensitivity and selectivity for 2,4,6-trinitrotoluene. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5666-5670.	2.8	8
11	M13 Bacteriophage/Silver Nanowire Surface-Enhanced Raman Scattering Sensor for Sensitive and Selective Pesticide Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10388-10397.	8.0	69
12	Fabrication of Self-Assembled Nanoporous Structures from a Self-Templating M13 Bacteriophage. <i>ACS Applied Nano Materials</i> , 2018, 1, 2851-2857.	5.0	5
13	Ternary Aligned Nanofibers of RGD Peptide-Displaying M13 Bacteriophage/PLGA/Graphene Oxide for Facilitated Myogenesis. <i>Nanotheranostics</i> , 2018, 2, 144-156.	5.2	26
14	Self-Assembled Nanoporous Biofilms from Functionalized Nanofibrous M13 Bacteriophage. <i>Viruses</i> , 2018, 10, 322.	3.3	13
15	Bioinspired M-13 bacteriophage-based photonic nose for differential cell recognition. <i>Chemical Science</i> , 2017, 8, 921-927.	7.4	46
16	M-13 bacteriophage based structural color sensor for detecting antibiotics. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 757-762.	7.8	27
17	Biomimetic self-templating optical structures fabricated by genetically engineered M13 bacteriophage. <i>Biosensors and Bioelectronics</i> , 2016, 85, 853-859.	10.1	29
18	Identification of Endocrine Disrupting Chemicals using a Virus-Based Colorimetric Sensor. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3097-3101.	3.3	30

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19	Virus based Full Colour Pixels using a Microheater. Scientific Reports, 2015, 5, 13757.	3.3	14
20	M13 Bacteriophage-Based Self-Assembly Structures and Their Functional Capabilities. Mini-Reviews in Organic Chemistry, 2015, 12, 271-281.	1.3	42
21	Cell-Adhesive Matrices Composed of RGD Peptide-Displaying M13 Bacteriophage/Poly(lactic-co-glycolic acid) Nanofibers Beneficial to Myoblast Differentiation. Journal of Nanoscience and Nanotechnology, 2015, 15, 7907-7912.	0.9	22
22	Recent progress of M13 virus-based chemical and biological sensing. Toxicology and Environmental Health Sciences, 2015, 7, 251-261.	2.1	1
23	RGD peptide-displaying M13 bacteriophage/PLGA nanofibers as cell-adhesive matrices for smooth muscle cells. Journal of the Korean Physical Society, 2015, 66, 12-16.	0.7	11
24	Bioinspired piezoelectric nanogenerators based on vertically aligned phage nanopillars. Energy and Environmental Science, 2015, 8, 3198-3203.	30.8	115
25	Biomimetic virus-based colourimetric sensors. Nature Communications, 2014, 5, 3043.	12.8	207