Chuntae Kim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11262989/publications.pdf

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25	809	567281	580821
papers	citations	15 h-index	25 g-index

25	25	25	1039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomimetic virus-based colourimetric sensors. Nature Communications, 2014, 5, 3043.	12.8	207
2	Bioinspired piezoelectric nanogenerators based on vertically aligned phage nanopillars. Energy and Environmental Science, 2015, 8, 3198-3203.	30.8	115
3	M13 Bacteriophage/Silver Nanowire Surface-Enhanced Raman Scattering Sensor for Sensitive and Selective Pesticide Detection. ACS Applied Materials & Interfaces, 2018, 10, 10388-10397.	8.0	69
4	Bioinspired M-13 bacteriophage-based photonic nose for differential cell recognition. Chemical Science, 2017, 8, 921-927.	7.4	46
5	M13 Bacteriophage-Based Self-Assembly Structures and Their Functional Capabilities. Mini-Reviews in Organic Chemistry, 2015, 12, 271-281.	1.3	42
6	Identification of Endocrine Disrupting Chemicals using a Virusâ€Based Colorimetric Sensor. Chemistry - an Asian Journal, 2016, 11, 3097-3101.	3.3	30
7	Biomimetic self-templating optical structures fabricated by genetically engineered M13 bacteriophage. Biosensors and Bioelectronics, 2016, 85, 853-859.	10.1	29
8	M-13 bacteriophage based structural color sensor for detecting antibiotics. Sensors and Actuators B: Chemical, 2017, 240, 757-762.	7.8	27
9	Ternary Aligned Nanofibers of RGD Peptide-Displaying M13 Bacteriophage/PLGA/Graphene Oxide for Facilitated Myogenesis. Nanotheranostics, 2018, 2, 144-156.	5.2	26
10	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. Biosensors and Bioelectronics, 2021, 188, 113339.	10.1	26
11	Recent Trends in Exhaled Breath Diagnosis Using an Artificial Olfactory System. Biosensors, 2021, 11, 337.	4.7	25
12	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
13	Hierarchical Cluster Analysis of Medical Chemicals Detected by a Bacteriophage-Based Colorimetric Sensor Array. Nanomaterials, 2020, 10, 121.	4.1	22
14	Virus-Incorporated Biomimetic Nanocomposites for Tissue Regeneration. Nanomaterials, 2019, 9, 1014.	4.1	19
15	A phage- and colorimetric sensor-based artificial nose model for banana ripening analysis. Sensors and Actuators B: Chemical, 2022, 362, 131763.	7.8	17
16	Modifying Plasmonic-Field Enhancement and Resonance Characteristics of Spherical Nanoparticles on Metallic Film: Effects of Faceting Spherical Nanoparticle Morphology. Coatings, 2019, 9, 387.	2.6	15
17	Virus based Full Colour Pixels using a Microheater. Scientific Reports, 2015, 5, 13757.	3.3	14
18	Self-Assembled Nanoporous Biofilms from Functionalized Nanofibrous M13 Bacteriophage. Viruses, 2018, 10, 322.	3.3	13

#	Article	IF	Citations
19	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
20	Improvement of High Affinity and Selectivity on Biosensors Using Genetically Engineered Phage by Binding Isotherm Screening. Viruses, 2019, 11, 248.	3.3	9
21	Experimental and numerical evaluation of a genetically engineered M13 bacteriophage with high sensitivity and selectivity for 2,4,6-trinitrotoluene. Organic and Biomolecular Chemistry, 2019, 17, 5666-5670.	2.8	8
22	Implementation of Combinatorial Genetic and Microenvironmental Engineering to Microbial-Based Field-Deployable Microbead Biosensors for Highly Sensitive and Remote Chemical Detection. ACS Sensors, 2019, 4, 2716-2723.	7.8	7
23	Fabrication of Self-Assembled Nanoporous Structures from a Self-Templating M13 Bacteriophage. ACS Applied Nano Materials, 2018, 1, 2851-2857.	5.0	5
24	Intermolecular distance measurement with TNT suppressor on the M13 bacteriophage-based FÃ¶rster resonance energy transfer system. Scientific Reports, 2019, 9, 496.	3.3	4
25	Recent progress of M13 virus-based chemical and biological sensing. Toxicology and Environmental Health Sciences, 2015, 7, 251-261.	2.1	1