

Kota Shiba

List of Publications by Year in descending order

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papers

963
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394421

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Two Dimensional Array of Piezoresistive Nanomechanical Membrane-Type Surface Stress Sensor (MSS) with Improved Sensitivity. <i>Sensors</i> , 2012, 12, 15873-15887.	3.8	66
2	Highly Networked Capsular Silica-Porphyrin Hybrid Nanostructures as Efficient Materials for Acetone Vapor Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9945-9954.	8.0	58
3	Data-driven nanomechanical sensing: specific information extraction from a complex system. <i>Scientific Reports</i> , 2017, 7, 3661.	3.3	43
4	Effect of Cationic Surfactant Micelles on Hydroxyapatite Nanocrystal Formation: An Investigation into the Inorganic-Organic Interfacial Interactions. <i>Crystal Growth and Design</i> , 2016, 16, 1463-1471.	3.0	41
5	Functional Nanoparticles-Coated Nanomechanical Sensor Arrays for Machine Learning-Based Quantitative Odor Analysis. <i>ACS Sensors</i> , 2018, 3, 1592-1600.	7.8	38
6	Microfluidic syntheses of well-defined sub-micron nanoporous titania spherical particles. <i>Chemical Communications</i> , 2009, , 6851.	4.1	36
7	Focus on the interlude between topographic transition and cell response on shape-memory surfaces. <i>Polymer</i> , 2014, 55, 5961-5968.	3.8	34
8	Controlled growth of silica-titania hybrid functional nanoparticles through a multistep microfluidic approach. <i>Chemical Communications</i> , 2015, 51, 15854-15857.	4.1	32
9	Smell identification of spices using nanomechanical membrane-type surface stress sensors. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 1102B3.	1.5	29
10	Strain-based chemical sensing using metal-organic framework nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18007-18014.	10.3	29
11	Mesoporous Silica Spherical Particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2483-2494.	0.9	26
12	Oxide-based inorganic/organic and nanoporous spherical particles: synthesis and functional properties. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 023002.	6.1	24
13	Effects of Center Metals in Porphines on Nanomechanical Gas Sensing. <i>Sensors</i> , 2018, 18, 1640.	3.8	24
14	Discrimination of Methanol from Ethanol in Gasoline Using a Membrane-type Surface Stress Sensor Coated with Copper(I) Complex. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 648-654.	3.2	24
15	Discrimination of structurally similar odorous molecules with various concentrations by using a nanomechanical sensor. <i>Analytical Methods</i> , 2018, 10, 3720-3726.	2.7	23
16	Preparation of well-defined titania-silica spherical particles. <i>Journal of Materials Chemistry</i> , 2012, 22, 9963.	6.7	21
17	Effective Surface Functionalization of Carbon Fibers for Fiber/Polymer Composites with Tailor-Made Interfaces. <i>ChemPlusChem</i> , 2014, 79, 197-210.	2.8	21
18	Free-hand gas identification based on transfer function ratios without gas flow control. <i>Scientific Reports</i> , 2019, 9, 9768.	3.3	21

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19	Double-Side-Coated Nanomechanical Membrane-Type Surface Stress Sensor (MSS) for One-Chip One-Channel Setup. <i>Langmuir</i> , 2013, 29, 7551-7556.	3.5	19
20	Analysis of nanomechanical sensing signals; physical parameter estimation for gas identification. <i>AIP Advances</i> , 2018, 8, .	1.3	19
21	Size-Controlled Syntheses of Nanoporous Silica Spherical Particles through a Microfluidic Approach. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8180-8183.	3.7	17
22	Graphene Oxide as a Sensing Material for Gas Detection Based on Nanomechanical Sensors in the Static Mode. <i>Chemosensors</i> , 2020, 8, 82.	3.6	17
23	Preparation of mono-dispersed titanium oxide octadecylamine hybrid spherical particles in the submicron size range. <i>RSC Advances</i> , 2012, 2, 1343-1349.	3.6	16
24	Preparation of europium(III)-doped hydroxyapatite nanocrystals in the presence of cationic surfactant. <i>Colloids and Interface Science Communications</i> , 2016, 13, 1-5.	4.1	16
25	Precise Synthesis of Well-Defined Inorganic-Organic Hybrid Particles. <i>Chemical Record</i> , 2018, 18, 950-968.	5.8	14
26	Effective preparation of graphite nanoparticles using mechanochemical solid-state reactions. <i>Solid State Communications</i> , 2014, 190, 28-32.	1.9	13
27	Synthesis of Cytocompatible Luminescent Titania/Fluorescein Hybrid Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6825-6834.	8.0	12
28	Fabrication of Silica-Protein Hierarchical Nanoarchitecture with Gas-Phase Sensing Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5908-5917.	0.9	12
29	Pattern recognition of solid materials by multiple probe gases. <i>Materials Horizons</i> , 2019, 6, 580-586.	12.2	11
30	Determination of quasi-primary odors by endpoint detection. <i>Scientific Reports</i> , 2021, 11, 12070.	3.3	11
31	Syntheses of zirconium-containing titania particles with spherical morphology and uniform size by microfluidic reactions. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 507-512.	1.1	10
32	Preparation of nanoporous titania spherical nanoparticles. <i>Journal of Solid State Chemistry</i> , 2013, 199, 317-325.	2.9	10
33	Effects of Coating Materials on Two Dimensional Stress-Induced Deflection of Nanomechanical Sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2908-2912.	0.9	10
34	Deposition of a titania layer on spherical porous silica particles and their nanostructure-induced vapor sensing properties. <i>Nanoscale</i> , 2017, 9, 16791-16799.	5.6	10
35	Nanomechanical Recognition and Discrimination of Volatile Molecules by Au Nanocages Deposited on Membrane-Type Surface Stress Sensors. <i>ACS Applied Nano Materials</i> , 2020, 3, 4061-4068.	5.0	10
36	Finite Element Analysis on Nanomechanical Detection of Small Particles: Toward Virus Detection. <i>Frontiers in Microbiology</i> , 2016, 7, 488.	3.5	9

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37	Preparation of Phospholipid Vesicle-Templated Calcium Phosphate Nanostructures and Their Cytocompatibility. <i>Crystal Growth and Design</i> , 2016, 16, 2843-2849.	3.0	9
38	Hybrid preparation of terbium(ⁱⁱⁱ)-doped mesoporous silica particles with calcium phosphates. <i>RSC Advances</i> , 2017, 7, 19479-19485.	3.6	9
39	An investigation into nanohybrid states of europium (III) complex with hydroxyapatite nanocrystals. <i>Optical Materials</i> , 2018, 84, 252-258.	3.6	9
40	Sorption-induced static mode nanomechanical sensing with viscoelastic receptor layers for multistep injection-purge cycles. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	9
41	Preparation of Monodispersed Spherical Titaniaâ€œOctadecylamine Particles Containing Silane-Coupling Reagents. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1040-1047.	3.2	8
42	Mesoporous silica coated silicaâ€œtitania spherical particles: from impregnation to coreâ€œshell formation. <i>Dalton Transactions</i> , 2016, 45, 18742-18749.	3.3	8
43	Surface-engineered mesoporous silica particles with luminescent, cytocompatible and targeting properties for cancer cell imaging. <i>RSC Advances</i> , 2017, 7, 13643-13652.	3.6	8
44	Microchannel measurements of viscosity for both gases and liquids. <i>Lab on A Chip</i> , 2021, 21, 2805-2811.	6.0	8
45	Preparation of Eu(ⁱⁱⁱ) acetylacetonate-doped well-defined titania particles with efficient photoluminescence properties. <i>Dalton Transactions</i> , 2018, 47, 1972-1980.	3.3	7
46	Preparation of luminescent titania/dye hybrid nanoparticles and their dissolution properties for controlling cellular environments. <i>RSC Advances</i> , 2015, 5, 104343-104353.	3.6	6
47	Finite Element Analysis on Nanomechanical Sensing of Cellular Forces. <i>Analytical Sciences</i> , 2016, 32, 1189-1194.	1.6	6
48	Aero-Thermo-Dynamic Mass Analysis. <i>Scientific Reports</i> , 2016, 6, 28849.	3.3	6
49	Designed synthesis of well-defined titania/iron(ⁱⁱⁱ) acetylacetonate nanohybrids with magnetic/luminescent properties. <i>RSC Advances</i> , 2016, 6, 55750-55754.	3.6	6
50	Effective Composite Preparation between Graphite and Iron Particles by the Interfacial Mediation of Force-Activated Oxygen Atoms. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16736-16753.	3.7	5
51	Microfluidic Production of Autofluorescent BSA Hydrogel Microspheres and Their Sequential Trapping for Fluorescence-Based On-Chip Permanganate Sensing. <i>Sensors</i> , 2020, 20, 5886.	3.8	5
52	Odor-Based Nanomechanical Discrimination of Fuel Oils Using a Single Type of Designed Nanoparticles with Nonlinear Viscoelasticity. <i>ACS Omega</i> , 2021, 6, 23389-23398.	3.5	5
53	Chemical Etching Route to Prepare Nanometer-size Spherical Titaniaâ€œOctadecylamine Hybrid Particles. <i>Chemistry Letters</i> , 2012, 41, 479-481.	1.3	4
54	Preparation of Monodispersed Nanoporous Eu(III)/Titania Loaded with Ibuprofen: Optimum Loading, Luminescence, and Sustained Release. <i>Inorganic Chemistry</i> , 2021, 60, 8765-8776.	4.0	4

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55	Nanomechanical Sensors. , 2016, , 177-196.		3
56	Cytotoxicity and Cancer Detection Ability of the Luminescent Nanoporous Silica Spheres Immobilized with Folic Acid Derivative. Key Engineering Materials, 0, 529-530, 630-635.	0.4	2
57	Membrane-type Surface stress Sensor (MSS) for artificial olfactory system. , 2019, , 27-38.		2
58	Effects of surfactant removal processes from titania/octadecylamine hybrid particles on their nanostructures and dispersibility in phosphate buffered saline. Results in Physics, 2019, 13, 102215.	4.1	2
59	Humidity and VOC Sensing Performance of a PVP and PVP/ZSM5 Composite. , 2019, , .		2
60	Nanomechanical Sensors (MSS/AMA) for Odor/Mass Analyses. Journal of the Mass Spectrometry Society of Japan, 2018, 66, 25-29.	0.1	1
61	Membrane-type Surface Stress Sensor (MSS) for Artificial Olfaction. , 2019, , .		1
62	Identification of gas species and their concentrations by using sorption kinetics of viscoelastic film. , 2022, , .		1
63	Frontispiece: Effective Surface Functionalization of Carbon Fibers for Fiber/Polymer Composites with Tailor-Made Interfaces. ChemPlusChem, 2014, 79, .	2.8	0
64	Particulate Titania Coating on Poly(Dimethylsiloxane) Films for Improving Osteoconductive Ability. Key Engineering Materials, 0, 782, 151-157.	0.4	0
65	Data-driven analyses of smells-Quantitative prediction by the combination of MSS, functional nanoparticles, and machine learning-. Journal of Japan Association on Odor Environment, 2018, 49, 305-314.	0.0	0