

Tae-Hyung Kim

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,087
citations

218592

26
h-index

276775

41
g-index

77
all docs

77
docs citations

77
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of a surface-enhanced Raman spectroscopy-based analytical method consisting of multifunctional DNA three-way junction-conjugated porous gold nanoparticles and Au-Te nanoworm for C-reactive protein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3197-3204.	1.9	13
2	Graphene-Based Materials for Efficient Neurogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1351, 43-64.	0.8	2
3	Fat Graft with Allograft Adipose Matrix and Magnesium Hydroxide-Incorporated PLGA Microspheres for Effective Soft Tissue Reconstruction. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 553-563.	1.6	10
4	Recent Advances in Surface Plasmon Resonance Sensors for Sensitive Optical Detection of Pathogens. <i>Biosensors</i> , 2022, 12, 180.	2.3	45
5	Advances in Nanoparticles for Effective Delivery of RNA Therapeutics. <i>Biochip Journal</i> , 2022, 16, 128-145.	2.5	23
6	Receptorâ€Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	11
7	Biomaterials as therapeutic drug carriers for inflammatory bowel disease treatment. <i>Journal of Controlled Release</i> , 2022, 345, 1-19.	4.8	31
8	Development of a stem cell spheroidâ€laden patch with high retention at skin wound site. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	7
9	Graphene foam/hydrogel scaffolds for regeneration of peripheral nerve using ADSCs in a diabetic mouse model. <i>Nano Research</i> , 2022, 15, 3434-3445.	5.8	9
10	Single metal-organic frameworkâ€embedded nanopit arrays: A new way to control neural stem cell differentiation. <i>Science Advances</i> , 2022, 8, eabj7736.	4.7	28
11	Submolecular Ligand Size and Spacing for Cell Adhesion. <i>Advanced Materials</i> , 2022, 34, e2110340.	11.1	13
12	In Situ Detection of Kidney Organoid Generation From Stem Cells Using a Simple Electrochemical Method. <i>Advanced Science</i> , 2022, 9, e2200074.	5.6	12
13	Human Mesenchymal Stem Cell-Derived Extracellular Vesicles Promote Neural Differentiation of Neural Progenitor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7047.	1.8	11
14	Hybrid Grapheneâ€Gold Nanoparticleâ€Based Nucleic Acid Conjugates for Cancerâ€Specific Multimodal Imaging and Combined Therapeutics. <i>Advanced Functional Materials</i> , 2021, 31, 2006918.	7.8	55
15	Long-acting nanoparticulate DNase-1 for effective suppression of SARS-CoV-2-mediated neutrophil activities and cytokine storm. <i>Biomaterials</i> , 2021, 267, 120389.	5.7	94
16	A Spheroidâ€Forming Hybrid Gold Nanostructure Platform That Electrochemically Detects Anticancer Effects of Curcumin in a Multicellular Brain Cancer Model. <i>Small</i> , 2021, 17, e2002436.	5.2	12
17	Fabrication of Electrochemical Influenza Virus (H1N1) Biosensor Composed of Multifunctional DNA Four-Way Junction and Molybdenum Disulfide Hybrid Material. <i>Materials</i> , 2021, 14, 343.	1.3	20
18	Fabrication of an electrochemical biosensor composed of multi-functional Ag ion intercalated DNA four-way junctions/rhodium nanoplate heterolayer on a micro-gap for C-reactive protein detection in human serum. <i>Analyst, The</i> , 2021, 146, 2131-2137.	1.7	17

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19	Precise Electrical Detection of Curcumin Cytotoxicity in Human Liver Cancer Cells. <i>Biochip Journal</i> , 2021, 15, 52-60.	2.5	4
20	Autofluorescence-Raman Mapping Integration analysis for ultra-fast label-free monitoring of adipogenic differentiation of stem cells. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113018.	5.3	10
21	Noble Metal Nanomaterial-Based Biosensors for Electrochemical and Optical Detection of Viruses Causing Respiratory Illnesses. <i>Frontiers in Chemistry</i> , 2021, 9, 672739.	1.8	27
22	Raman Spectroscopy-Based 3D Analysis of Odontogenic Differentiation of Human Dental Pulp Stem Cell Spheroids. <i>Analytical Chemistry</i> , 2021, 93, 9995-10004.	3.2	14
23	Promotion of Bone Regeneration Using Bioinspired PLGA/MH/ECM Scaffold Combined with Bioactive PDRN. <i>Materials</i> , 2021, 14, 4149.	1.3	20
24	Enhancing osteogenesis of adipose-derived mesenchymal stem cells using gold nanostructure/peptide-nanopatterned graphene oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111807.	2.5	11
25	Impact of the conjugation of antibodies to the surfaces of polymer nanoparticles on the immune cell targeting abilities. <i>Nano Convergence</i> , 2021, 8, 24.	6.3	17
26	Extremely Uniform Graphene Oxide Thin Film as a Universal Platform for One-Step Biomaterial Patterning. <i>Small</i> , 2021, 17, e2103596.	5.2	4
27	Recent Advances in Electrochemical Sensors for the Detection of Biomolecules and Whole Cells. <i>Biomedicines</i> , 2021, 9, 15.	1.4	42
28	Recent Advances in Multicellular Tumor Spheroid Generation for Drug Screening. <i>Biosensors</i> , 2021, 11, 445.	2.3	36
29	Nano-sized graphene oxide coated nanopillars on microgroove polymer arrays that enhance skeletal muscle cell differentiation. <i>Nano Convergence</i> , 2021, 8, 40.	6.3	18
30	Recent Developments in Surface Topography-Modulated Neurogenesis. <i>Biochip Journal</i> , 2021, 15, 334-347.	2.5	2
31	Advanced PLGA hybrid scaffold with a bioactive PDRN/BMP2 nanocomplex for angiogenesis and bone regeneration using human fetal MSCs. <i>Science Advances</i> , 2021, 7, eabj1083.	4.7	47
32	Enhancing Neurogenesis of Neural Stem Cells Using Homogeneous Nanohole Pattern-Modified Conductive Platform. <i>International Journal of Molecular Sciences</i> , 2020, 21, 191.	1.8	15
33	A fibronectin-coated gold nanostructure composite for electrochemical detection of effects of curcumin-carrying nanoliposomes on human stomach cancer cells. <i>Analyst, The</i> , 2020, 145, 675-684.	1.7	20
34	<i>In Situ</i> Detection of Neurotransmitters from Stem Cell-Derived Neural Interface at the Single-Cell Level via Graphene-Hybrid SERS Nanobiosensing. <i>Nano Letters</i> , 2020, 20, 7670-7679.	4.5	46
35	Graphene Hybrid Materials for Controlling Cellular Microenvironments. <i>Materials</i> , 2020, 13, 4008.	1.3	2
36	Vertically Coated Graphene Oxide Micro-Well Arrays for Highly Efficient Cancer Spheroid Formation and Drug Screening. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901751.	3.9	20

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37	Recent advances in nanomaterial-modified electrical platforms for the detection of dopamine in living cells. <i>Nano Convergence</i> , 2020, 7, 40.	6.3	30
38	Enhancing the Wound Healing Effect of Conditioned Medium Collected from Mesenchymal Stem Cells with High Passage Number Using Bioreducible Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4835.	1.8	18
39	Tumor Homing Reactive Oxygen Species Nanoparticle for Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23909-23918.	4.0	27
40	High density gold nanostructure composites for precise electrochemical detection of human embryonic stem cells in cell mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 384-392.	2.5	19
41	Nanomaterial-modified Hybrid Platforms for Precise Electrochemical Detection of Dopamine. <i>Biochip Journal</i> , 2019, 13, 20-29.	2.5	33
42	Development of the Troponin Detection System Based on the Nanostructure. <i>Micromachines</i> , 2019, 10, 203.	1.4	17
43	Rapid and sensitive electrochemical detection of anticancer effects of curcumin on human glioblastoma cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 527-534.	4.0	32
44	Two-dimensional material-based bionano platforms to control mesenchymal stem cell differentiation. <i>Biomaterials Research</i> , 2018, 22, 10.	3.2	25
45	In situ label-free monitoring of human adipose-derived mesenchymal stem cell differentiation into multiple lineages. <i>Biomaterials</i> , 2018, 154, 223-233.	5.7	44
46	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. <i>Micromachines</i> , 2018, 9, 651.	1.4	31
47	Electrochemical detection of dopamine using periodic cylindrical gold nanoelectrode arrays. <i>Scientific Reports</i> , 2018, 8, 14049.	1.6	115
48	Nanobiosensing Platforms for Real-time and Non-Invasive Monitoring of Stem Cell Pluripotency and Differentiation. <i>Sensors</i> , 2018, 18, 2755.	2.1	23
49	Three-Dimensional Graphene-RGD Peptide Nanoisland Composites That Enhance the Osteogenesis of Human Adipose-Derived Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 669.	1.8	23
50	Size-dependent effects of graphene oxide on the osteogenesis of human adipose-derived mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 20-29.	2.5	33
51	Guiding osteogenesis of mesenchymal stem cells using carbon-based nanomaterials. <i>Nano Convergence</i> , 2017, 4, 2.	6.3	61
52	Live cell biosensing platforms using graphene-based hybrid nanomaterials. <i>Biosensors and Bioelectronics</i> , 2017, 94, 485-499.	5.3	50
53	Effects of two-dimensional materials on human mesenchymal stem cell behaviors. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 578-584.	1.0	33
54	Conductive hybrid matrigel layer to enhance electrochemical signals of human embryonic stem cells. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 224-230.	4.0	20

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55	Magnetic Force-Driven Graphene Patterns to Direct Synaptogenesis of Human Neuronal Cells. <i>Materials</i> , 2017, 10, 1151.	1.3	15
56	Electrochemical Detection of Dopamine Using 3D Porous Graphene Oxide/Gold Nanoparticle Composites. <i>Sensors</i> , 2017, 17, 861.	2.1	72
57	Investigation of Hemoglobin/Gold Nanoparticle Heterolayer on Micro-Gap for Electrochemical Biosensor Application. <i>Sensors</i> , 2016, 16, 660.	2.1	9
58	Nanoelectrodes: Large-Scale Nanoelectrode Arrays to Monitor the Dopaminergic Differentiation of Human Neural Stem Cells (<i>Adv. Mater.</i> 41/2015). <i>Advanced Materials</i> , 2015, 27, 6306-6306.	11.1	2
59	Large-scale Nanoelectrode Arrays to Monitor the Dopaminergic Differentiation of Human Neural Stem Cells. <i>Advanced Materials</i> , 2015, 27, 6356-6362.	11.1	63
60	Graphene-Based Materials for Stem Cell Applications. <i>Materials</i> , 2015, 8, 8674-8690.	1.3	59
61	Controlling Differentiation of Adipose-Derived Stem Cells Using Combinatorial Graphene Hybrid-Pattern Arrays. <i>ACS Nano</i> , 2015, 9, 3780-3790.	7.3	139
62	Fabrication of new single cell chip to monitor intracellular and extracellular redox state based on spectroelectrochemical method. <i>Biomaterials</i> , 2015, 40, 80-87.	5.7	33
63	Electrically Controlled Delivery of Cargo into Single Human Neural Stem Cell. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20709-20716.	4.0	3
64	ITO/gold nanoparticle/RGD peptide composites to enhance electrochemical signals and proliferation of human neural stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 336-344.	1.7	40
65	Cell chip with a thiolated chitosan self-assembled monolayer to detect the effects of anticancer drugs on breast normal and cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 387-392.	2.5	15
66	3D graphene oxide-encapsulated gold nanoparticles to detect neural stem cell differentiation. <i>Biomaterials</i> , 2013, 34, 8660-8670.	5.7	129
67	Nanoscale Film Fabrication of Various Peptides on Neural Stem Cell Chip. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 307-311.	0.5	3
68	Current perspectives of biodegradable drug-eluting stents for improved safety. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 912-924.	1.4	7
69	Highly sensitive electrochemical detection of potential cytotoxicity of CdSe/ZnS quantum dots using neural cell chip. <i>Biosensors and Bioelectronics</i> , 2012, 32, 266-272.	5.3	27
70	Fabrication of Cell Chip for Detection of Cell Cycle Progression Based on Electrochemical Method. <i>Analytical Chemistry</i> , 2011, 83, 2104-2111.	3.2	26
71	Effects of nanopatterned RGD peptide layer on electrochemical detection of neural cell chip. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1359-1365.	5.3	31
72	Electrochemical Detection of Bisphenol A Induced Neuronal Toxicity Using RGD Peptide Modified ITO Electrode Cell Chip. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 36-42.	0.4	9

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73	Recent advances and challenges in organoid-on-a-chip technology. <i>Organoid</i> , 0, 2, e4.	0.0	3