Kwan Hyi Lee

List of Publications by Year
in descending order

83 papers	2,052 citations	236612 25 h-index	253896 43 g-index
85 all docs	85 docs citations	85 times ranked	3719 citing authors

#	Article	IF	Citations
1	Stimuli-Responsive Adaptive Nanotoxin to Directly Penetrate the Cellular Membrane by Molecular Folding and Unfolding. Journal of the American Chemical Society, 2022, 144, 5503-5516.	6.6	8
2	SARS-CoV-2 Variant Screening Using a Virus-Receptor-Based Electrical Biosensor. Nano Letters, 2022, 22, 50-57.	4.5	28
3	Electrical Cartridge Sensor Enables Reliable and Direct Identification of MicroRNAs in Urine of Patients. ACS Sensors, 2021, 6, 833-841.	4.0	25
4	Noninvasive Precision Screening of Prostate Cancer by Urinary Multimarker Sensor and Artificial Intelligence Analysis. ACS Nano, 2021, 15, 4054-4065.	7.3	53
5	Drug resistance-free cytotoxic nanodrugs in composites for cancer therapy. Journal of Materials Chemistry B, 2021, 9, 3143-3152.	2.9	10
6	Design, synthesis, biological evaluation, and docking studies of novel (imidazol-5-yl)pyrimidine-based derivatives as dual BRAFV600E/p38Î± inhibitors. European Journal of Medicinal Chemistry, 2021, 215, 113277.	2.6	17
7	Discovery of New Imidazo[2,1-b]thiazole Derivatives as Potent Pan-RAF Inhibitors with Promising In Vitro and In Vivo Anti-melanoma Activity. Journal of Medicinal Chemistry, 2021, 64, 6877-6901.	2.9	15
8	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. Nature Communications, 2021, 12, 3741.	5.8	13
9	Design, synthesis, in vitro determination and molecular docking studies of 4-(1-(tert-butyl)-3-phenyl-1H-pyrazol-4-yl) pyridine derivatives with terminal sulfonamide derivatives in LPS-induced RAW264.7 macrophage cells. Medicinal Chemistry Research, 2021, 30, 1925-1942.	1.1	2
10	Interfacial charge regulation of protein blocking layers in transistor biosensor for direct measurement in serum. Biosensors and Bioelectronics, 2020, 147, 111737.	5.3	24
11	Tailoring H2O2 generation kinetics with magnesium alloys for efficient disinfection on titanium surface. Scientific Reports, 2020, 10, 6536.	1.6	4
12	A Novel Bloodâ€Based Colorectal Cancer Diagnostic Technology Using Electrical Detection of Colon Cancer Secreted Proteinâ€2. Advanced Science, 2019, 6, 1802115.	5.6	24
13	Fully Packaged Portable Thin Film Biosensor for the Direct Detection of Highly Pathogenic Viruses from On-Site Samples. ACS Nano, 2019, 13, 812-820.	7.3	28
14	Non-invasive molecular barcode assay for diagnosis of sex hormones correlated with precocious puberty. Sensors and Actuators B: Chemical, 2019, 282, 399-407.	4.0	3
15	Quantitative Single-Cell Analysis of Isolated Cancer Cells with a Microwell Array. ACS Combinatorial Science, 2019, 21, 98-104.	3.8	6
16	Full length histone H3 conjugated electrochemical biosensor for extracellular proteolytic Cathepsin L activity detection. Sensors and Actuators B: Chemical, 2018, 267, 237-244.	4.0	7
17	Transgenic zebrafish model for quantification and visualization of tissue toxicity caused by alloying elements in newly developed biodegradable metal. Scientific Reports, 2018, 8, 13818.	1.6	7
18	Tu1951 - Novel Blood-Based Detection of Colorectal Cancer and Adenoma Using a Nanobiosensor Targeting CCSP-2 (Colon Cancer Secreted Protein-2). Gastroenterology, 2018, 154, S-1062.	0.6	1

#	Article	IF	Citations
19	Initial Experience of Transperineal Biopsy After Multiparametric Magnetic Resonance Imaging in Korea; Comparison With Transrectal Biopsy. The Korean Journal of Urological Oncology, 2018, 16, 110-118.	0.1	0
20	High throughput differential identification of TMPRSS2-ERG fusion genes in prostate cancer patient urine. Biomaterials, 2017, 135, 23-29.	5.7	11
21	Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor. Advanced Healthcare Materials, 2017, 6, 1700371.	3.9	28
22	Zebrafish models for functional and toxicological screening of nanoscale drug delivery systems: promoting preclinical applications. Bioscience Reports, 2017, 37, .	1.1	43
23	Prostate Cancer: Self-Normalized Detection of ANXA3 from Untreated Urine of Prostate Cancer Patients without Digital Rectal Examination (Adv. Healthcare Mater. 17/2017). Advanced Healthcare Materials, 2017, 6, .	3.9	0
24	Fieldâ€Effect Biosensors for Onâ€Site Detection: Recent Advances and Promising Targets. Advanced Healthcare Materials, 2017, 6, 1700796.	3.9	44
25	Selfâ€Normalized Detection of ANXA3 from Untreated Urine of Prostate Cancer Patients without Digital Rectal Examination. Advanced Healthcare Materials, 2017, 6, 1700449.	3.9	23
26	Avian Influenza: Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor (Adv. Healthcare Mater. 13/2017). Advanced Healthcare Materials, 2017, 6, .	3.9	0
27	P-205CLINICAL OUTCOMES OF DOUBLE METASTASIS IN LUNG AND LIVER FROM COLORECTAL CANCER. Interactive Cardiovascular and Thoracic Surgery, 2017, 25, .	0.5	0
28	A strategy to minimize the sensing voltage drift error in a transistor biosensor with a nanoscale sensing gate. International Journal of Nanomedicine, 2017, Volume 12, 2951-2956.	3.3	8
29	Optical coding of fusion genes using multicolor quantum dots for prostate cancer diagnosis. International Journal of Nanomedicine, 2017, Volume 12, 4397-4407.	3.3	11
30	Highly sensitive detection of protein biomarkers via nuclear magnetic resonance biosensor with magnetically engineered nanoferrite particles. International Journal of Nanomedicine, 2016, Volume 11, 5497-5503.	3.3	7
31	Multifaceted toxicity assessment of catalyst composites in transgenic zebrafish embryos. Environmental Pollution, 2016, 216, 755-763.	3.7	5
32	Predicting the in vivo accumulation of nanoparticles in tumor based on in vitro macrophage uptake and circulation in zebrafish. Journal of Controlled Release, 2016, 244, 205-213.	4.8	26
33	Sequential assessment via daphnia and zebrafish for systematic toxicity screening of heterogeneous substances. Environmental Pollution, 2016, 216, 292-303.	3.7	30
34	Magnesium Corrosion Triggered Spontaneous Generation of H₂O₂ on Oxidized Titanium for Promoting Angiogenesis. Angewandte Chemie - International Edition, 2015, 54, 14753-14757.	7.2	22
35	Diagnosis of prostate cancer via nanotechnological approach. International Journal of Nanomedicine, 2015, 10, 6555.	3.3	20
36	Mass spectrometry-based N-linked glycomic profiling as a means for tracking pancreatic cancer metastasis. Carbohydrate Research, 2015, 413, 5-11.	1.1	45

#	Article	IF	Citations
37	A self-amplified transistor immunosensor under dual gate operation: highly sensitive detection of hepatitis B surface antigen. Nanoscale, 2015, 7, 16789-16797.	2.8	45
38	Electrical signaling of enzyme-linked immunosorbent assays with an ion-sensitive field-effect transistor. Biosensors and Bioelectronics, 2015, 64, 318-323.	5.3	49
39	A glimpse into the interactions of cells in a microenvironment: the modulation of T cells by mesenchymal stem cells. International Journal of Nanomedicine, 2014, 9 Suppl 1, 127.	3.3	6
40	Engineered collagen hydrogels for the sustained release of biomolecules and imaging agents: promoting the growth of human gingival cells. International Journal of Nanomedicine, 2014, 9, 5189.	3.3	20
41	Microdevices for examining immunological responses of single cells to HIV. Bioscience Reports, 2014, 34, .	1.1	4
42	Microwave Annealing Effect for Highly Reliable Biosensor: Dual-Gate Ion-Sensitive Field-Effect Transistor Using Amorphous InGaZnO Thin-Film Transistor. ACS Applied Materials & Interfaces, 2014, 6, 22680-22686.	4.0	56
43	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. Biomaterials, 2014, 35, 440-449.	5.7	61
44	Tailoring Mg_xMn_{1â€“x}Fe₂O₄ Superparamagnetic Nanoferrites for Magnetic Fluid Hyperthermia Applications. ACS Applied Materials & Interfaces, 2014, 6, 16487-16492.	4.0	32
45	Universal Antibody Conjugation to Nanoparticles Using the FcÎ³ Receptor I (FcÎ³RI): Quantitative Profiling Of Membrane Biomarkers. Bioconjugate Chemistry, 2014, 25, 1893-1901.	1.8	38
46	Technology Advancement for Integrative Stem Cell Analyses. Tissue Engineering - Part B: Reviews, 2014, 20, 669-682.	2.5	4
47	Overview of current standpoints in profiling of circulating tumor cells. Archives of Pharmacal Research, 2014, 37, 88-95.	2.7	3
48	State-of-the-art in design rules for drug delivery platforms: Lessons learned from FDA-approved nanomedicines. Journal of Controlled Release, 2014, 187, 133-144.	4.8	434
49	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. Bulletin of the Korean Chemical Society, 2014, 35, 35-38.	1.0	9
50	The solvothermal synthesis of magnetic iron oxide nanocrystals and the preparation of hybrid poly(l-lactide)â€“polyethyleneimine magnetic particles. Colloids and Surfaces B: Biointerfaces, 2013, 109, 236-243.	2.5	21
51	Quantification of cardiovascular disease biomarkers via functionalized magnetic beads and on-demand detachable quantum dots. Nanoscale, 2013, 5, 8609.	2.8	13
52	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. Nanotechnology, 2013, 24, 285103.	1.3	9
53	Facile Solvothermal Preparation of Monodisperse Gold Nanoparticles and Their Engineered Assembly of Ferritinâ€“Gold Nanoclusters. Langmuir, 2013, 29, 15698-15703.	1.6	35
54	Think Modular: A Simple Apoferritin-Based Platform for the Multifaceted Detection of Pancreatic Cancer. ACS Nano, 2013, 7, 8167-8174.	7.3	48

#	Article	IF	Citations
55	Nanoscale bacteriophage biosensors beyond phage display. International Journal of Nanomedicine, 2013, 8, 3917.	3.3	54
56	Immunomagnetic nanoparticle-based assays for detection of biomarkers. International Journal of Nanomedicine, 2013, 8, 4543.	3.3	28
57	Interactions between mesenchymal stem cells and T cells on a single cell level a nanowell array. , 2012, , .		1
58	Quantitative characterization of the lipid encapsulation of quantum dots for biomedical applications. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1190-1199.	1.7	24
59	Quantitative molecular profiling of biomarkers for pancreatic cancer with functionalized quantum dots. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1043-1051.	1.7	37
60	CuInSe/ZnS Core/Shell NIR Quantum Dots for Biomedical Imaging. Small, 2011, 7, 3148-3152.	5.2	97
61	Exploiting Nucleation and Growth in the Synthesis and Electrical Passivation of CdSe Quantum Dots. Science of Advanced Materials, 2009, 1, 93-100.	0.1	9
62	Synthesis of Cadmium Selenide Quantum Dots from a Non-Coordinating Solvent: Growth Kinetics and Particle Size Distribution. Journal of Physical Chemistry C, 2008, 112, 17849-17854.	1.5	39
63	Microstructure and magnetic properties of electrodeposited CoPtP alloys. Journal of Applied Physics, 2006, 99, 08N305.	1.1	9
64	Effects of microstructural characteristics on mechanical properties of open-cell nickel foams. Materials Science and Technology, 2005, 21, 1355-1358.	0.8	15
65	Epitaxial growth and magnetic properties of electrochemically multilayered [CoPtP/Cu]n films. Electrochemistry Communications, 2004, 6, 115-119.	2.3	9
66	Fabrication of multi-layered CoPtP alloy with high coercivity and squareness by electrochemical deposition. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E925-E926.	1.0	7
67	Tailoring the magnetic properties of CoFePtP alloys with variations in iron content. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E507-E508.	1.0	2
68	Magnetoresistance behavior in electroplated and sputtered Bi thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1455-E1457.	1.0	0
69	Hepatic veno-occlusive disease (VOD) after allogeneic hematopoietic cell transplantation (HCT) in adults conditioned with busulfan (Bu) and cyclophosphamide (Cy) at a single center: A retrospective comparison of oral vs. intravenous Bu. Journal of Clinical Oncology, 2004, 22, 6647-6647.	0.8	0
70	Hepatic veno-occlusive disease (VOD) after allogeneic hematopoietic cell transplantation (HCT) in adults conditioned with busulfan (Bu) and cyclophosphamide (Cy) at a single center: A retrospective comparison of oral vs. intravenous Bu. Journal of Clinical Oncology, 2004, 22, 6647-6647.	0.8	0
71	Magnetic properties and crystal structures of self-ordered ferromagnetic nanowires by ac electroforming. Journal of Applied Physics, 2002, 91, 8513.	1.1	26
72	Correlation between magnetic properties of electrodeposited Co(P) and NH4Cl concentrations in the electrolyte. Electrochemistry Communications, 2002, 4, 605-609.	2.3	12

#	Article	IF	Citations
73	A Prospective Correlation of LaurÃ©n's Histological Classification of Stomach Cancer with Clinicopathological Findings Including DNA Flow Cytometry. Pathology Research and Practice, 2001, 197, 223-229.	1.0	10
74	Comparison of Different Substrate Pre-Treatments on the Quality of GaN Film Growth on 6H-, 4H-, and 3C-SiC. Materials Research Society Symposia Proceedings, 2000, 622, 6161.	0.1	2
75	High frequency of extramedullary relapse of acute leukemia after allogeneic bone marrow transplantation. Bone Marrow Transplantation, 2000, 26, 147-152.	1.3	50
76	Prognostic value of DNA flow cytometry in stomach cancer: a 5-year prospective study. British Journal of Cancer, 1999, 79, 1727-1735.	2.9	15
77	Randomized comparison of two different schedules of granulocyte colony-stimulating factor administration after allogeneic bone marrow transplantation. Bone Marrow Transplantation, 1999, 24, 591-599.	1.3	23
78	Prognostic factors of acute myelocytic leukemia: an analysis of 132 patients in a single institution. Journal of Korean Medical Science, 1996, 11, 222.	1.1	7
79	Clinicopathologic significance of the K-ras gene codon 12 point mutation in stomach cancer. An analysis of 140 cases. Cancer, 1995, 75, 2794-2801.	2.0	65
80	Acute promyelocytic leukemia is a distinct subset of acute myelocytic leukemia with unique clinicopathologic characteristics including longer duration of relapse free survival: experience in 13 cases. Journal of Korean Medical Science, 1994, 9, 437.	1.1	7
81	Combination of 5-Fluorouracil and Recombinant Interferon Î±-2B in Advanced Gastric Cancer. American Journal of Clinical Oncology: Cancer Clinical Trials, 1992, 15, 141-145.	0.6	10
82	Electrocardiographic Changes Simulating Acute Myocardial Infarction or Ischemia Associated with Combination Chemotherapy with Etoposide, Cisplatin, and 5-Fluorouracil. Korean Journal of Internal Medicine, 1990, 5, 112-118.	0.7	5
83	Magnetotransport of semimetallic Bi thin films grown by electroplating and sputtering. , 0, , .		0