

# Kwan Hyi Lee

## List of Publications by Year in descending order

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83  
papers

2,052  
citations

236925

25  
h-index

254184

43  
g-index

85  
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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. <i>Journal of the American Chemical Society</i> , 2022, 144, 5503-5516.	13.7	8
2	SARS-CoV-2 Variant Screening Using a Virus-Receptor-Based Electrical Biosensor. <i>Nano Letters</i> , 2022, 22, 50-57.	9.1	28
3	Electrical Cartridge Sensor Enables Reliable and Direct Identification of MicroRNAs in Urine of Patients. <i>ACS Sensors</i> , 2021, 6, 833-841.	7.8	25
4	Noninvasive Precision Screening of Prostate Cancer by Urinary Multimarker Sensor and Artificial Intelligence Analysis. <i>ACS Nano</i> , 2021, 15, 4054-4065.	14.6	53
5	Drug resistance-free cytotoxic nanodrugs in composites for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3143-3152.	5.8	10
6	Design, synthesis, biological evaluation, and docking studies of novel (imidazol-5-yl)pyrimidine-based derivatives as dual BRAFV600E/p38 $\beta$ inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 215, 113277.	5.5	17
7	Discovery of New Imidazo[2,1- <i>b</i> ]thiazole Derivatives as Potent Pan-RAF Inhibitors with Promising <i>In Vitro</i> and <i>In Vivo</i> Anti-melanoma Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 6877-6901.	6.4	15
8	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. <i>Nature Communications</i> , 2021, 12, 3741.	12.8	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. <i>Medicinal Chemistry Research</i> , 2021, 30, 1925-1942.	2.4	2
10	Interfacial charge regulation of protein blocking layers in transistor biosensor for direct measurement in serum. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111737.	10.1	24
11	Tailoring H <sub>2</sub> O <sub>2</sub> generation kinetics with magnesium alloys for efficient disinfection on titanium surface. <i>Scientific Reports</i> , 2020, 10, 6536.	3.3	4
12	A Novel Blood-Based Colorectal Cancer Diagnostic Technology Using Electrical Detection of Colon Cancer Secreted Protein-2. <i>Advanced Science</i> , 2019, 6, 1802115.	11.2	24
13	Fully Packaged Portable Thin Film Biosensor for the Direct Detection of Highly Pathogenic Viruses from On-Site Samples. <i>ACS Nano</i> , 2019, 13, 812-820.	14.6	28
14	Non-invasive molecular barcode assay for diagnosis of sex hormones correlated with precocious puberty. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 399-407.	7.8	3
15	Quantitative Single-Cell Analysis of Isolated Cancer Cells with a Microwell Array. <i>ACS Combinatorial Science</i> , 2019, 21, 98-104.	3.8	6
16	Full length histone H3 conjugated electrochemical biosensor for extracellular proteolytic Cathepsin L activity detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 237-244.	7.8	7
17	Transgenic zebrafish model for quantification and visualization of tissue toxicity caused by alloying elements in newly developed biodegradable metal. <i>Scientific Reports</i> , 2018, 8, 13818.	3.3	7
18	Tu1951 - Novel Blood-Based Detection of Colorectal Cancer and Adenoma Using a Nanobiosensor Targeting CCSP-2 (Colon Cancer Secreted Protein-2). <i>Gastroenterology</i> , 2018, 154, S-1062.	1.3	1

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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.	11.4	11
21	Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor. Advanced Healthcare Materials, 2017, 6, 1700371.	7.6	28
22	Zebrafish models for functional and toxicological screening of nanoscale drug delivery systems: promoting preclinical applications. Bioscience Reports, 2017, 37, .	2.4	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, .	7.6	0
24	Field-Effect Biosensors for On-Site Detection: Recent Advances and Promising Targets. Advanced Healthcare Materials, 2017, 6, 1700796.	7.6	44
25	Self-Normalized Detection of ANXA3 from Untreated Urine of Prostate Cancer Patients without Digital Rectal Examination. Advanced Healthcare Materials, 2017, 6, 1700449.	7.6	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, .	7.6	0
27	P-205CLINICAL OUTCOMES OF DOUBLE METASTASIS IN LUNG AND LIVER FROM COLORECTAL CANCER. Interactive Cardiovascular and Thoracic Surgery, 2017, 25, .	1.1	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.	6.7	8
29	Optical coding of fusion genes using multicolor quantum dots for prostate cancer diagnosis. International Journal of Nanomedicine, 2017, Volume 12, 4397-4407.	6.7	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.	6.7	7
31	Multifaceted toxicity assessment of catalyst composites in transgenic zebrafish embryos. Environmental Pollution, 2016, 216, 755-763.	7.5	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.	9.9	26
33	Sequential assessment via daphnia and zebrafish for systematic toxicity screening of heterogeneous substances. Environmental Pollution, 2016, 216, 292-303.	7.5	30
34	Magnesium Corrosion Triggered Spontaneous Generation of H <sub>2</sub> O <sub>2</sub> on Oxidized Titanium for Promoting Angiogenesis. Angewandte Chemie - International Edition, 2015, 54, 14753-14757.	13.8	22
35	Diagnosis of prostate cancer via nanotechnological approach. International Journal of Nanomedicine, 2015, 10, 6555.	6.7	20
36	Mass spectrometry-based N-linked glycomic profiling as a means for tracking pancreatic cancer metastasis. Carbohydrate Research, 2015, 413, 5-11.	2.3	45

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37	A self-amplified transistor immunosensor under dual gate operation: highly sensitive detection of hepatitis B surface antigen. <i>Nanoscale</i> , 2015, 7, 16789-16797.	5.6	45
38	Electrical signaling of enzyme-linked immunosorbent assays with an ion-sensitive field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2015, 64, 318-323.	10.1	49
39	A glimpse into the interactions of cells in a microenvironment: the modulation of T cells by mesenchymal stem cells. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 1, 127.	6.7	6
40	Engineered collagen hydrogels for the sustained release of biomolecules and imaging agents: promoting the growth of human gingival cells. <i>International Journal of Nanomedicine</i> , 2014, 9, 5189.	6.7	20
41	Microdevices for examining immunological responses of single cells to HIV. <i>Bioscience Reports</i> , 2014, 34, .	2.4	4
42	Microwave Annealing Effect for Highly Reliable Biosensor: Dual-Gate Ion-Sensitive Field-Effect Transistor Using Amorphous InGaZnO Thin-Film Transistor. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22680-22686.	8.0	56
43	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. <i>Biomaterials</i> , 2014, 35, 440-449.	11.4	61
44	Tailoring Mg <sub>1-x</sub> Mn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> Superparamagnetic Nanoferrites for Magnetic Fluid Hyperthermia Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16487-16492.	8.0	32
45	Universal Antibody Conjugation to Nanoparticles Using the Fc $\gamma$ Receptor I (Fc $\gamma$ RI): Quantitative Profiling Of Membrane Biomarkers. <i>Bioconjugate Chemistry</i> , 2014, 25, 1893-1901.	3.6	38
46	Technology Advancement for Integrative Stem Cell Analyses. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 669-682.	4.8	4
47	Overview of current standpoints in profiling of circulating tumor cells. <i>Archives of Pharmacal Research</i> , 2014, 37, 88-95.	6.3	3
48	State-of-the-art in design rules for drug delivery platforms: Lessons learned from FDA-approved nanomedicines. <i>Journal of Controlled Release</i> , 2014, 187, 133-144.	9.9	434
49	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 35-38.	1.9	9
50	The solvothermal synthesis of magnetic iron oxide nanocrystals and the preparation of hybrid poly(l-lactide)-polyethyleneimine magnetic particles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 236-243.	5.0	21
51	Quantification of cardiovascular disease biomarkers via functionalized magnetic beads and on-demand detachable quantum dots. <i>Nanoscale</i> , 2013, 5, 8609.	5.6	13
52	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. <i>Nanotechnology</i> , 2013, 24, 285103.	2.6	9
53	Facile Solvothermal Preparation of Monodisperse Gold Nanoparticles and Their Engineered Assembly of Ferritin-Gold Nanoclusters. <i>Langmuir</i> , 2013, 29, 15698-15703.	3.5	35
54	Think Modular: A Simple Apoferritin-Based Platform for the Multifaceted Detection of Pancreatic Cancer. <i>ACS Nano</i> , 2013, 7, 8167-8174.	14.6	48

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55	Nanoscale bacteriophage biosensors beyond phage display. International Journal of Nanomedicine, 2013, 8, 3917.	6.7	54
56	Immunomagnetic nanoparticle-based assays for detection of biomarkers. International Journal of Nanomedicine, 2013, 8, 4543.	6.7	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.	3.3	24
59	Quantitative molecular profiling of biomarkers for pancreatic cancer with functionalized quantum dots. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1043-1051.	3.3	37
60	CuInSe/ZnS Core/Shell NIR Quantum Dots for Biomedical Imaging. Small, 2011, 7, 3148-3152.	10.0	97
61	Exploiting Nucleation and Growth in the Synthesis and Electrical Passivation of CdSe Quantum Dots. Science of Advanced Materials, 2009, 1, 93-100.	0.7	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.	3.1	39
63	Microstructure and magnetic properties of electrodeposited CoPtP alloys. Journal of Applied Physics, 2006, 99, 08N305.	2.5	9
64	Effects of microstructural characteristics on mechanical properties of open-cell nickel foams. Materials Science and Technology, 2005, 21, 1355-1358.	1.6	15
65	Epitaxial growth and magnetic properties of electrochemically multilayered [CoPtP/Cu] <sub>n</sub> films. Electrochemistry Communications, 2004, 6, 115-119.	4.7	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.	2.3	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.	2.3	2
68	Magnetoresistance behavior in electroplated and sputtered Bi thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1455-E1457.	2.3	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.	1.6	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.	1.6	0
71	Magnetic properties and crystal structures of self-ordered ferromagnetic nanowires by ac electroforming. Journal of Applied Physics, 2002, 91, 8513.	2.5	26
72	Correlation between magnetic properties of electrodeposited Co(P) and NH <sub>4</sub> Cl concentrations in the electrolyte. Electrochemistry Communications, 2002, 4, 605-609.	4.7	12

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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.	2.3	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.	2.4	50
76	Prognostic value of DNA flow cytometry in stomach cancer: a 5-year prospective study. British Journal of Cancer, 1999, 79, 1727-1735.	6.4	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.	2.4	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.	2.5	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.	4.1	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.	2.5	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.	1.3	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.	1.7	5
83	Magnetotransport of semimetallic Bi thin films grown by electroplating and sputtering. , 0, , .		0