

# Kwan Hyi Lee

## List of Publications by Citations

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76  
papers

1,608  
citations

22  
h-index

37  
g-index

85  
ext. papers

1,805  
ext. citations

7.1  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
76	State-of-the-art in design rules for drug delivery platforms: lessons learned from FDA-approved nanomedicines. <i>Journal of Controlled Release</i> , <b>2014</b> , 187, 133-44	11.7	360
75	CuInSe/ZnS core/shell NIR quantum dots for biomedical imaging. <i>Small</i> , <b>2011</b> , 7, 3148-52	11	88
74	Clinicopathologic significance of the K-ras gene codon 12 point mutation in stomach cancer. An analysis of 140 cases. <i>Cancer</i> , <b>1995</b> , 75, 2794-801	6.4	61
73	A systematic in-vivo toxicity evaluation of nanophosphor particles via zebrafish models. <i>Biomaterials</i> , <b>2014</b> , 35, 440-9	15.6	55
72	Nanoscale bacteriophage biosensors beyond phage display. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 3917-25	7.3	49
71	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> , <b>2014</b> , 6, 22680-6	9.5	46
70	Electrical signaling of enzyme-linked immunosorbent assays with an ion-sensitive field-effect transistor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 318-23	11.8	43
69	Think modular: a simple apoferritin-based platform for the multifaceted detection of pancreatic cancer. <i>ACS Nano</i> , <b>2013</b> , 7, 8167-74	16.7	42
68	High frequency of extramedullary relapse of acute leukemia after allogeneic bone marrow transplantation. <i>Bone Marrow Transplantation</i> , <b>2000</b> , 26, 147-52	4.4	41
67	Synthesis of Cadmium Selenide Quantum Dots from a Non-Coordinating Solvent: Growth Kinetics and Particle Size Distribution. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17849-17854	3.8	37
66	A self-amplified transistor immunosensor under dual gate operation: highly sensitive detection of hepatitis B surface antigen. <i>Nanoscale</i> , <b>2015</b> , 7, 16789-97	7.7	36
65	Quantitative molecular profiling of biomarkers for pancreatic cancer with functionalized quantum dots. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 1043-51	6	35
64	Zebrafish models for functional and toxicological screening of nanoscale drug delivery systems: promoting preclinical applications. <i>Bioscience Reports</i> , <b>2017</b> , 37,	4.1	32
63	Field-Effect Biosensors for On-Site Detection: Recent Advances and Promising Targets. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700796	10.1	32
62	Mass spectrometry-based N-linked glycomic profiling as a means for tracking pancreatic cancer metastasis. <i>Carbohydrate Research</i> , <b>2015</b> , 413, 5-11	2.9	31
61	Facile solvothermal preparation of monodisperse gold nanoparticles and their engineered assembly of ferritin-gold nanoclusters. <i>Langmuir</i> , <b>2013</b> , 29, 15698-703	4	30
60	Tailoring Mg(x)Mn(1-x)Fe(2)O(4) superparamagnetic nanoferrites for magnetic fluid hyperthermia applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16487-92	9.5	26

59	Universal antibody conjugation to nanoparticles using the Fcγ receptor I (FcRI): quantitative profiling of membrane biomarkers. <i>Bioconjugate Chemistry</i> , <b>2014</b> , 25, 1893-901	6.3	26
58	Quantitative characterization of the lipid encapsulation of quantum dots for biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 1190-9	6	23
57	Immunomagnetic nanoparticle-based assays for detection of biomarkers. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 4543-52	7.3	23
56	Noninvasive Precision Screening of Prostate Cancer by Urinary Multimarker Sensor and Artificial Intelligence Analysis. <i>ACS Nano</i> , <b>2021</b> , 15, 4054-4065	16.7	23
55	Magnetic properties and crystal structures of self-ordered ferromagnetic nanowires by ac electroforming. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 8513	2.5	22
54	Randomized comparison of two different schedules of granulocyte colony-stimulating factor administration after allogeneic bone marrow transplantation. <i>Bone Marrow Transplantation</i> , <b>1999</b> , 24, 591-9	4.4	20
53	Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700371	10.1	19
52	Fully Packaged Portable Thin Film Biosensor for the Direct Detection of Highly Pathogenic Viruses from On-Site Samples. <i>ACS Nano</i> , <b>2019</b> , 13, 812-820	16.7	19
51	Predicting the in vivo accumulation of nanoparticles in tumor based on in vitro macrophage uptake and circulation in zebrafish. <i>Journal of Controlled Release</i> , <b>2016</b> , 244, 205-213	11.7	18
50	Sequential assessment via daphnia and zebrafish for systematic toxicity screening of heterogeneous substances. <i>Environmental Pollution</i> , <b>2016</b> , 216, 292-303	9.3	18
49	Magnesium Corrosion Triggered Spontaneous Generation of H <sub>2</sub> O <sub>2</sub> on Oxidized Titanium for Promoting Angiogenesis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14753-7	16.4	18
48	Diagnosis of prostate cancer via nanotechnological approach. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 6555-69	7.3	18
47	Interfacial charge regulation of protein blocking layers in transistor biosensor for direct measurement in serum. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 147, 111737	11.8	18
46	A Novel Blood-Based Colorectal Cancer Diagnostic Technology Using Electrical Detection of Colon Cancer Secreted Protein-2. <i>Advanced Science</i> , <b>2019</b> , 6, 1802115	13.6	16
45	Self-Normalized Detection of ANXA3 from Untreated Urine of Prostate Cancer Patients without Digital Rectal Examination. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700449	10.1	16
44	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> , <b>2014</b> , 9, 5189-201	7.3	16
43	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> , <b>2013</b> , 109, 236-43	6	15
42	Prognostic value of DNA flow cytometry in stomach cancer: a 5-year prospective study. <i>British Journal of Cancer</i> , <b>1999</b> , 79, 1727-35	8.7	14

41	Quantification of cardiovascular disease biomarkers via functionalized magnetic beads and on-demand detachable quantum dots. <i>Nanoscale</i> , <b>2013</b> , 5, 8609-15	7.7	13
40	Effects of microstructural characteristics on mechanical properties of open-cell nickel foams. <i>Materials Science and Technology</i> , <b>2005</b> , 21, 1355-1358	1.5	12
39	High throughput differential identification of TMPRSS2-ERG fusion genes in prostate cancer patient urine. <i>Biomaterials</i> , <b>2017</b> , 135, 23-29	15.6	11
38	Optical coding of fusion genes using multicolor quantum dots for prostate cancer diagnosis. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 4397-4407	7.3	11
37	Correlation between magnetic properties of electrodeposited Co(P) and NH <sub>4</sub> Cl concentrations in the electrolyte. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 605-609	5.1	10
36	Design, synthesis, biological evaluation, and docking studies of novel (imidazol-5-yl)pyrimidine-based derivatives as dual BRAF/p38 $\alpha$ inhibitors. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 215, 113277	6.8	10
35	Discovery of New Imidazo[2,1- <i>b</i> ]thiazole Derivatives as Potent Pan-RAF Inhibitors with Promising and Anti-melanoma Activity. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 6877-6901	8.3	10
34	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. <i>Nanotechnology</i> , <b>2013</b> , 24, 285103	3.4	9
33	Epitaxial growth and magnetic properties of electrochemically multilayered [CoPtP/Cu] <i>n</i> films. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 115-119	5.1	9
32	A prospective correlation of Laur $\bar{B}$ histological classification of stomach cancer with clinicopathological findings including DNA flow cytometry. <i>Pathology Research and Practice</i> , <b>2001</b> , 197, 223-9	3.4	9
31	Exploiting Nucleation and Growth in the Synthesis and Electrical Passivation of CdSe Quantum Dots. <i>Science of Advanced Materials</i> , <b>2009</b> , 1, 93-100	2.3	8
30	Microstructure and magnetic properties of electrodeposited CoPtP alloys. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08N305	2.5	7
29	Fabrication of multi-layered CoPtP alloy with high coercivity and squareness by electrochemical deposition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E925-E926	2.8	7
28	Combination of 5-fluorouracil and recombinant interferon alpha-2B in advanced gastric cancer. A phase I study. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , <b>1992</b> , 15, 141-5	2.7	7
27	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 35-38	1.2	7
26	Full length histone H3 conjugated electrochemical biosensor for extracellular proteolytic Cathepsin L activity detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 267, 237-244	8.5	6
25	A strategy to minimize the sensing voltage drift error in a transistor biosensor with a nanoscale sensing gate. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 2951-2956	7.3	6
24	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. <i>Journal of Korean Medical Science</i> , <b>1994</b> , 9, 437-43	4.7	6

23	Highly sensitive detection of protein biomarkers via nuclear magnetic resonance biosensor with magnetically engineered nanoferrite particles. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 5497-5503	7.3	6
22	Quantitative Single-Cell Analysis of Isolated Cancer Cells with a Microwell Array. <i>ACS Combinatorial Science</i> , <b>2019</b> , 21, 98-104	3.9	6
21	Multifaceted toxicity assessment of catalyst composites in transgenic zebrafish embryos. <i>Environmental Pollution</i> , <b>2016</b> , 216, 755-763	9.3	5
20	Prognostic factors of acute myelocytic leukemia: an analysis of 132 patients in a single institution. <i>Journal of Korean Medical Science</i> , <b>1996</b> , 11, 222-32	4.7	5
19	Electrocardiographic changes simulating acute myocardial infarction or ischemia associated with combination chemotherapy with etoposide, cisplatin, and 5-fluorouracil. <i>Korean Journal of Internal Medicine</i> , <b>1990</b> , 5, 112-7	2.5	4
18	Overview of current standpoints in profiling of circulating tumor cells. <i>Archives of Pharmacal Research</i> , <b>2014</b> , 37, 88-95	6.1	3
17	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> , <b>2014</b> , 9 Suppl 1, 127-39	7.3	3
16	Microdevices for examining immunological responses of single cells to HIV. <i>Bioscience Reports</i> , <b>2014</b> , 34,	4.1	3
15	Ionic contrast across a lipid membrane for Debye length extension: towards an ultimate bioelectronic transducer. <i>Nature Communications</i> , <b>2021</b> , 12, 3741	17.4	3
14	Electrical Cartridge Sensor Enables Reliable and Direct Identification of MicroRNAs in Urine of Patients. <i>ACS Sensors</i> , <b>2021</b> , 6, 833-841	9.2	3
13	Drug resistance-free cytotoxic nanodrugs in composites for cancer therapy. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3143-3152	7.3	3
12	Transgenic zebrafish model for quantification and visualization of tissue toxicity caused by alloying elements in newly developed biodegradable metal. <i>Scientific Reports</i> , <b>2018</b> , 8, 13818	4.9	3
11	SARS-CoV-2 Variant Screening Using a Virus-Receptor-Based Electrical Biosensor.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	3
10	Technology advancement for integrative stem cell analyses. <i>Tissue Engineering - Part B: Reviews</i> , <b>2014</b> , 20, 669-82	7.9	2
9	Tailoring the magnetic properties of CoFePtP alloys with variations in iron content. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E507-E508	2.8	2
8	Comparison of Different Substrate Pre-Treatments on the Quality of GaN Film Growth on 6H-, 4H-, and 3C-SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 6161		2
7	Tailoring HO generation kinetics with magnesium alloys for efficient disinfection on titanium surface. <i>Scientific Reports</i> , <b>2020</b> , 10, 6536	4.9	2
6	Non-invasive molecular barcode assay for diagnosis of sex hormones correlated with precocious puberty. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 282, 399-407	8.5	1

- 5 Magnetoresistance behavior in electroplated and sputtered Bi thin films. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E1455-E1457 2.8
- 4 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 2.2
- 3 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<sup>Q.1</sup>
- 2 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 2.2
- 1 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 2.2