

# Hee Chan Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11508399/publications.pdf>

Version: 2024-02-01

97  
papers

3,643  
citations

159585

30  
h-index

144013

57  
g-index

97  
all docs

97  
docs citations

97  
times ranked

4884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmented Reality-Based Visual Cue for Guiding Central Catheter Insertion in Pediatric Oncologic Patients. <i>World Journal of Surgery</i> , 2022, 46, 942-948.	1.6	0
2	Clinical outcome prediction from analysis of microelectrode recordings using deep learning in subthalamic deep brain stimulation for Parkinson's disease. <i>PLoS ONE</i> , 2021, 16, e0244133.	2.5	8
3	â€œWeighing Camâ€ A New Mobile Application for Weight Estimation in Pediatric Resuscitation. <i>Prehospital Emergency Care</i> , 2020, 24, 441-450.	1.8	5
4	Nanoelectrokinetic Selective Preconcentration Based on Ion Concentration Polarization. <i>Biochip Journal</i> , 2020, 14, 100-109.	4.9	17
5	Evaluation of Surgical Skills during Robotic Surgery by Deep Learning-Based Multiple Surgical Instrument Tracking in Training and Actual Operations. <i>Journal of Clinical Medicine</i> , 2020, 9, 1964.	2.4	45
6	Vision-based tracking system for augmented reality to localize recurrent laryngeal nerve during robotic thyroid surgery. <i>Scientific Reports</i> , 2020, 10, 8437.	3.3	16
7	Effect of age on the gap-prepulse inhibition of the cortical N1-P2 complex in humans as a step towards an objective measure of tinnitus. <i>PLoS ONE</i> , 2020, 15, e0241136.	2.5	1
8	Lumbar Stability in Healthy Individuals and Low Back Pain Patients Quantified by Wall Plank and Roll Test. <i>PM and R</i> , 2019, 11, 483-494.	1.6	3
9	Dynamics of driftless preconcentration using ion concentration polarization leveraged by convection and diffusion. <i>Lab on A Chip</i> , 2019, 19, 3190-3199.	6.0	13
10	Objective Evaluation of Cervical Dystonia Using an Inertial Sensor-Based System. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 305-314.	1.8	2
11	Estimating Maximal Oxygen Uptake From Daily Activity Data Measured by a Watch-Type Fitness Tracker: Cross-Sectional Study. <i>JMIR MHealth and UHealth</i> , 2019, 7, e13327.	3.7	12
12	Disposable non-enzymatic blood glucose sensing strip based on nanoporous platinum particles. <i>Applied Materials Today</i> , 2018, 10, 24-29.	4.3	44
13	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. <i>Nano Letters</i> , 2018, 18, 7642-7650.	9.1	50
14	Preliminary study on application of augmented reality visualization in robotic thyroid surgery. <i>Annals of Surgical Treatment and Research</i> , 2018, 95, 297.	1.0	17
15	Electro-deposited Nanoporous Platinum Electrode for EEG Monitoring. <i>Journal of Korean Medical Science</i> , 2018, 33, e154.	2.5	8
16	The gap-prepulse inhibition deficit of the cortical N1-P2 complex in patients with tinnitus: The effect of gap duration. <i>Hearing Research</i> , 2017, 348, 120-128.	2.0	18
17	Application of genetic algorithm for hemodialysis schedule optimization. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 145, 35-43.	4.7	11
18	Patterns of glaucoma progression in retinal nerve fiber and macular ganglion cell-inner plexiform layer in spectral-domain optical coherence tomography. <i>Japanese Journal of Ophthalmology</i> , 2017, 61, 324-333.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Direct, rapid antimicrobial susceptibility test from positive blood cultures based on microscopic imaging analysis. <i>Scientific Reports</i> , 2017, 7, 1148.	3.3	80
20	Effectiveness of finger-marker for maintaining the correct compression point during paediatric resuscitation: A simulation study. <i>American Journal of Emergency Medicine</i> , 2017, 35, 1303-1308.	1.6	4
21	An assessment of the accuracy of a novel weight estimation device for children. <i>Emergency Medicine Journal</i> , 2017, 34, 163-169.	1.0	4
22	Unobtrusive Estimation of Cardiorespiratory Fitness with Daily Activity in Healthy Young Men. <i>Journal of Korean Medical Science</i> , 2017, 32, 1947.	2.5	2
23	Bilateral Deep Brain Stimulation of the Subthalamic Nucleus under Sedation with Propofol and Fentanyl. <i>PLoS ONE</i> , 2016, 11, e0152619.	2.5	12
24	In-Silico Trials for Glucose Control in Hospitalized Patients with Type 2 Diabetes. <i>Journal of Korean Medical Science</i> , 2016, 31, 231.	2.5	2
25	Calculation of the clearance requirements for the development of a hemodialysis-based wearable artificial kidney. <i>Hemodialysis International</i> , 2016, 20, 226-234.	0.9	2
26	Rapid drug susceptibility test of <i>Mycobacterium tuberculosis</i> using microscopic time-lapse imaging in an agarose matrix. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2355-2365.	3.6	30
27	Gap prepulse inhibition of the auditory late response in healthy subjects. <i>Psychophysiology</i> , 2015, 52, 1511-1519.	2.4	17
28	Nonfaradaic Nanoporous Electrochemistry for Conductometry at High Electrolyte Concentration. <i>Analytical Chemistry</i> , 2015, 87, 2443-2451.	6.5	9
29	Genotoxicity and subchronic toxicity of <i>Sophorae radix</i> in rats: Hepatotoxic and genotoxic potential. <i>Regulatory Toxicology and Pharmacology</i> , 2015, 71, 379-387.	2.7	12
30	Evaluation of subchronic (13week) toxicity and genotoxicity potential of vinegar-processed <i>Genkwa Flos</i> . <i>Regulatory Toxicology and Pharmacology</i> , 2015, 72, 386-393.	2.7	14
31	Quantification of Lumbar Stability During Wall Plank and Roll Activity Using Inertial Sensors. <i>PM and R</i> , 2015, 7, 803-813.	1.6	4
32	Correlation between depth and area of retinal nerve fiber layer defect as measured by spectral domain optical coherence tomography. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2015, 253, 925-934.	1.9	0
33	Reproducibility of Spectral-Domain Optical Coherence Tomography RNFL Map for Glaucomatous and Fellow Normal Eyes in Unilateral Glaucoma. <i>Journal of Glaucoma</i> , 2015, 24, 238-244.	1.6	8
34	Selective preconcentration and online collection of charged molecules using ion concentration polarization. <i>RSC Advances</i> , 2015, 5, 66178-66184.	3.6	50
35	Comparison of macular GCIPL and peripapillary RNFL deviation maps for detection of glaucomatous eye with localized RNFL defect. <i>Acta Ophthalmologica</i> , 2015, 93, e22-8.	1.1	35
36	Evaluation of the novel near-infrared fluorescence tracers pullulan polymer nanogel and indocyanine green/ $\beta$ -glutamic acid complex for sentinel lymph node navigation surgery in large animal models. <i>Gastric Cancer</i> , 2015, 18, 55-64.	5.3	50

#	ARTICLE	IF	CITATIONS
37	Measurement of Shoulder Range of Motion in Patients with Adhesive Capsulitis Using a Kinect. PLoS ONE, 2015, 10, e0129398.	2.5	69
38	Simulation of Oral Glucose Tolerance Tests and the Corresponding Isoglycemic Intravenous Glucose Infusion Studies for Calculation of the Incretin Effect. Journal of Korean Medical Science, 2014, 29, 378.	2.5	9
39	Influence of Propofol and Fentanyl on Deep Brain Stimulation of the Subthalamic Nucleus. Journal of Korean Medical Science, 2014, 29, 1278.	2.5	24
40	Manikin-Integrated Digital Measuring System for Assessment of Infant Cardiopulmonary Resuscitation Techniques. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1659-1667.	6.3	18
41	A rapid antimicrobial susceptibility test based on single-cell morphological analysis. Science Translational Medicine, 2014, 6, 267ra174.	12.4	246
42	Quantitative Assessment of Retinal Nerve Fiber Layer Defect Depth Using Spectral-Domain Optical Coherence Tomography. Ophthalmology, 2014, 121, 1333-1340.	5.2	6
43	Cation-selective electropreconcentration. Lab on A Chip, 2014, 14, 1811-1815.	6.0	19
44	A flow cytometry-based submicron-sized bacterial detection system using a movable virtual wall. Lab on A Chip, 2014, 14, 2327.	6.0	26
45	Effects of Pulsatile Bioreactor Culture on Vascular Smooth Muscle Cells Seeded on Electrospun Poly (lactide-co-caprolactone) Scaffold. Artificial Organs, 2013, 37, E168-78.	1.9	23
46	A label-free DC impedance-based microcytometer for circulating rare cancer cell counting. Lab on A Chip, 2013, 13, 970.	6.0	61
47	Combination of optic disc rim area and retinal nerve fiber layer thickness for early glaucoma detection by using spectral domain OCT. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 2617-2625.	1.9	9
48	Electrokinetic concentration on a microfluidic chip using polyelectrolytic gel plugs for small molecule immunoassay. Electrochimica Acta, 2013, 110, 164-171.	5.2	10
49	Endoscopic Vision-Based Tracking of Multiple Surgical Instruments During Robot-Assisted Surgery. Artificial Organs, 2013, 37, 107-112.	1.9	17
50	Three-Dimensional Electrospun Poly(Lactide-Co-ε-Caprolactone) for Small-Diameter Vascular Grafts. Tissue Engineering - Part A, 2012, 18, 1608-1616.	3.1	43
51	Near-Infrared Emitting Polymer Nanogels for Efficient Sentinel Lymph Node Mapping. ACS Nano, 2012, 6, 7820-7831.	14.6	84
52	Electrochemical analysis based on nanoporous structures. Analyst, The, 2012, 137, 3891.	3.5	106
53	Changes in Biomechanical Properties of Glenohumeral Joint Capsules With Adhesive Capsulitis by Repeated Capsule-Preserving Hydraulic Distensions With Saline Solution and Corticosteroid. PM and R, 2012, 4, 976-984.	1.6	15
54	Computational Modeling of Effects of Mechanical Shaking on Hemodynamics in Hollow Fibers. International Journal of Artificial Organs, 2012, 35, 301-307.	1.4	7

#	ARTICLE	IF	CITATIONS
55	Dynamic Preconcentration of Gold Nanoparticles for Surface-Enhanced Raman Scattering in a Microfluidic System. <i>Small</i> , 2012, 8, 378-383.	10.0	26
56	Nonenzymatic continuous glucose monitoring in human whole blood using electrified nanoporous Pt. <i>Biosensors and Bioelectronics</i> , 2012, 31, 284-291.	10.1	81
57	A wearable artificial kidney: technical requirements and potential solutions. <i>Expert Review of Medical Devices</i> , 2011, 8, 567-579.	2.8	29
58	Biosensors in Microfluidic Chips. <i>Topics in Current Chemistry</i> , 2011, 304, 117-152.	4.0	21
59	Nanoporous platinum solid-state reference electrode with layer-by-layer polyelectrolyte junction for pH sensing chip. <i>Lab on A Chip</i> , 2011, 11, 664-671.	6.0	42
60	Ion Flow Crossing Over a Polyelectrolyte Diode on a Microfluidic Chip. <i>Small</i> , 2011, 7, 2629-2639.	10.0	34
61	Capsule preservation improves short-term outcome of hydraulic distension in painful stiff shoulder. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1688-1694.	2.3	34
62	Enhancement of Solute Removal in a Hollow-Fiber Hemodialyzer by Mechanical Vibration. <i>Blood Purification</i> , 2011, 31, 227-234.	1.8	16
63	SERS decoding of micro gold shells moving in microfluidic systems. <i>Electrophoresis</i> , 2010, 31, 1623-1629.	2.4	18
64	A portable microfluidic flow cytometer based on simultaneous detection of impedance and fluorescence. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1509-1515.	10.1	55
65	Polyelectrolyte junction field effect transistor based on microfluidic chip. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	32
66	Effects of Arterial Port Design on Blood Flow Distribution in Hemodialyzers. <i>Blood Purification</i> , 2009, 28, 260-267.	1.8	15
67	Red blood cell quantification microfluidic chip using polyelectrolytic gel electrodes. <i>Electrophoresis</i> , 2009, 30, 1464-1469.	2.4	22
68	Ionic Circuits Based on Polyelectrolyte Diodes on a Microchip. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3830-3833.	13.8	121
69	Ion bridges in microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 315-331.	2.2	19
70	Intra-articular Pressure Profiles of Painful Stiff Shoulders Compared With Those of Other Conditions. <i>PM and R</i> , 2009, 1, 297-307.	1.6	18
71	Development of a Cold Dialysate Regeneration System for Home Hemodialysis. <i>Blood Purification</i> , 2009, 28, 84-92.	1.8	15
72	Microfluidic chip based hematoanalyzer using polyelectrolytic gel electrodes. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0

#	ARTICLE	IF	CITATIONS
73	Bio-Cell Chip Fabrication and Applications. <i>Methods in Molecular Biology</i> , 2009, 509, 145-158.	0.9	6
74	Apparent electrocatalysis on 3D nanoporous platinum film electroplated from hexagonal lyotropic liquid crystalline phase of Triton X-100. <i>Electrochimica Acta</i> , 2008, 53, 6143-6148.	5.2	17
75	Ultrafast active mixer using polyelectrolytic ion extractor. <i>Lab on A Chip</i> , 2008, 8, 764.	6.0	34
76	Segmentation of Solid Nodules in Ultrasonographic Breast Image Based on Wavelet Transform. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5650-3.	0.5	3
77	HSDPA (3.5G)-Based Ubiquitous Integrated Biotelemetry System for Emergency Care. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3665-8.	0.5	12
78	Preliminary Study of Motion Artifact Rejection for NIBP measurement in an Ambulance. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 705-8.	0.5	4
79	Integration of a Nanoporous Platinum Thin Film into a Microfluidic System for Non-enzymatic Electrochemical Glucose Sensing. <i>Analytical Sciences</i> , 2007, 23, 277-281.	1.6	51
80	Application of high throughput cell array technology to FISH: Investigation of the role of deletion of p16 gene in leukemias. <i>Journal of Biotechnology</i> , 2007, 127, 355-360.	3.8	14
81	Three-Dimensional Interstitial Nanovoid of Nanoparticulate Pt Film Electroplated from Reverse Micelle Solution. <i>Chemistry of Materials</i> , 2007, 19, 3373-3375.	6.7	48
82	Recent advances in miniaturized microfluidic flow cytometry for clinical use. <i>Electrophoresis</i> , 2007, 28, 4511-4520.	2.4	128
83	A rapid field-free electroosmotic micropump incorporating charged microchannel surfaces. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 1161-1168.	7.8	19
84	Electrochemical Nanoneedle Biosensor Based on Multiwall Carbon Nanotube. <i>Analytical Chemistry</i> , 2006, 78, 617-620.	6.5	105
85	A miniaturized electrochemical system with a novel polyelectrolyte reference electrode and its application to thin layer electroanalysis. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 212-219.	7.8	31
86	Preliminary evaluation of the use of a CDMA-based emergency telemedicine system. <i>Journal of Telemedicine and Telecare</i> , 2006, 12, 422-427.	2.7	13
87	Cytometry and Velocimetry on a Microfluidic Chip Using Polyelectrolytic Salt Bridges. <i>Analytical Chemistry</i> , 2005, 77, 2490-2495.	6.5	73
88	pH-Sensitive Solid-State Electrode Based on Electrodeposited Nanoporous Platinum. <i>Analytical Chemistry</i> , 2005, 77, 7695-7701.	6.5	59
89	Ionic Strength-Controlled Virtual Area of Mesoporous Platinum Electrode. <i>Journal of the American Chemical Society</i> , 2004, 126, 4524-4525.	13.7	129
90	Computer-Aided Diagnosis of Solid Breast Nodules: Use of an Artificial Neural Network Based on Multiple Sonographic Features. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1292-1300.	8.9	223

#	ARTICLE	IF	CITATIONS
91	In vivo calibration of the subcutaneous amperometric glucose sensors using a non-enzyme electrode. <i>Biosensors and Bioelectronics</i> , 2003, 19, 313-319.	10.1	23
92	Nonenzymatic Glucose Detection Using Mesoporous Platinum. <i>Analytical Chemistry</i> , 2003, 75, 3046-3049.	6.5	562
93	Application of a new Cl-plasma-treated Ag/AgCl reference electrode to micromachined glucose sensor. <i>IEEE Sensors Journal</i> , 2003, 3, 267-273.	4.7	32
94	Comparative study of telecommunication methods for emergency telemedicine. <i>Journal of Telemedicine and Telecare</i> , 2003, 9, 300-303.	2.7	7
95	Reproducible fabrication of miniaturized glucose sensors: preparation of sensing membranes for continuous monitoring. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1079-1087.	10.1	30
96	Analysis of the Interventricular Pressure Waveform in the Moving-Actuator Total Artificial Heart. <i>ASAIO Journal</i> , 2000, 46, 749-755.	1.6	9
97	Cardiac Output Regulation in the Moving Actuator Total Artificial Heart Without a Compliance Chamber. <i>ASAIO Journal</i> , 1992, 38, 846-850.	1.6	4