Segyeong Joo

List of Publications by Year
in descending order

49 papers	927 citations	623734 14 h-index	454955 30 g-index
52 all docs	52 docs citations	52 times ranked	1529 citing authors

#	Article	IF	Citations
1	Computer-Aided Diagnosis of Solid Breast Nodules: Use of an Artificial Neural Network Based on Multiple Sonographic Features. IEEE Transactions on Medical Imaging, 2004, 23, 1292-1300.	8.9	223
2	Chemical Sensors with Integrated Electronics. Chemical Reviews, 2008, 108, 638-651.	47.7	114
3	Î²â€Amyloid is transmitted via neuronal connections along axonal membranes. Annals of Neurology, 2014, 75, 88-97.	5.3	95
4	Prediction of Ventricular Tachycardia One Hour before Occurrence Using Artificial Neural Networks. Scientific Reports, 2016, 6, 32390.	3.3	73
5	A portable microfluidic flow cytometer based on simultaneous detection of impedance and fluorescence. Biosensors and Bioelectronics, 2010, 25, 1509-1515.	10.1	55
6	Integration of a Nanoporous Platinum Thin Film into a Microfluidic System for Non-enzymatic Electrochemical Glucose Sensing. Analytical Sciences, 2007, 23, 277-281.	1.6	51
7	Prediction of spontaneous ventricular tachyarrhythmia by an artificial neural network using parameters gleaned from short-term heart rate variability. Expert Systems With Applications, 2012, 39, 3862-3866.	7.6	44
8	Analysis of Heavy-Metal Ions Using Mercury Microelectrodes and a Solid-State Reference Electrode on a Si Wafer. Japanese Journal of Applied Physics, 2000, 39, 7159-7163.	1.5	23
9	In vivo calibration of the subcutaneous amperometric glucose sensors using a non-enzyme electrode. Biosensors and Bioelectronics, 2003, 19, 313-319.	10.1	23
10	A novel highâ€resolution anorectal manometry parameter based on a threeâ€dimensional integrated pressurized volume of a spatiotemporal plot, for predicting balloon expulsion in asymptomatic normal individuals. Neurogastroenterology and Motility, 2014, 26, 937-949.	3.0	22
11	In-Channel Electrochemical Detection in the Middle of Microchannel under High Electric Field. Analytical Chemistry, 2012, 84, 901-907.	6.5	20
12	Evaluation of Mobile Health Applications Developed by a Tertiary Hospital as a Tool for Quality Improvement Breakthrough. Healthcare Informatics Research, 2015, 21, 299.	1.9	20
13	A rapid field-free electroosmotic micropump incorporating charged microchannel surfaces. Sensors and Actuators B: Chemical, 2007, 123, 1161-1168.	7.8	19
14	SERS decoding of micro gold shells moving in microfluidic systems. Electrophoresis, 2010, 31, 1623-1629.	2.4	18
15	A highâ€resolution anorectal manometry parameter based on integrated pressurized volume: A study based on 204 male patients with constipation and 26 controls. Neurogastroenterology and Motility, 2018, 30, e13376.	3.0	16
16	Optimal design of a CsI(Tl) crystal in a SiPM based compact radiation sensor. Radiation Measurements, 2015, 82, 102-107.	1.4	14
17	A Smartphone-Based System for the Automated Management of Point-of-Care Test Results in Hospitals. Telemedicine Journal and E-Health, 2015, 21, 301-305.	2.8	12
18	ECG data dependency for atrial fibrillation detection based on residual networks. Scientific Reports, 2021, 11, 18256.	3.3	12

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19	New Metrics in High-Resolution and High-Definition Anorectal Manometry. Current Gastroenterology Reports, 2018, 20, 57.	2.5	9
20	Why Do Data Users Say Health Care Data Are Difficult to Use? A Cross-Sectional Survey Study. Journal of Medical Internet Research, 2019, 21, e14126.	4.3	9
21	The Predictive Value of Intraoperative Esophageal Functional Luminal Imaging Probe Panometry in Patients With Achalasia Undergoing Peroral Endoscopic Myotomy: A Single-center Experience. Journal of Neurogastroenterology and Motility, 2022, 28, 474-482.	2.4	9
22	Impact of a custom-made 3D printed ergonomic grip for direct laryngoscopy on novice intubation performance in a simulated easy and difficult airway scenarioâ€"A manikin study. PLoS ONE, 2018, 13, e0207445.	2.5	7
23	Silicon Micromachined Infrared Thin-Layer Cell for In Situ Spectroelectrochemical Analysis of Aqueous and Nonaqueous Solvent System. Electroanalysis, 2005, 17, 959-964.	2.9	6
24	Unified Deep Learning-Based Mouse Brain MR Segmentation: Template-Based Individual Brain Positron Emission Tomography Volumes-of-Interest Generation Without Spatial Normalization in Mouse Alzheimer Model. Frontiers in Aging Neuroscience, 2022, 14, 807903.	3.4	6
25	Changes of pleural pressure after thoracic surgery. Journal of Thoracic Disease, 2018, 10, 4109-4117.	1.4	5
26	Early prediction of ventricular tachyarrhythmias based on heart rate variability analysis. , 2015, , .		3
27	New parameter for quantifying bolus transit with highâ€resolution impedance manometry: A comparison with simultaneous esophagogram. Neurogastroenterology and Motility, 2020, 32, e13847.	3.0	3
28	Development of a Portable Respiratory Gas Analyzer for Measuring Indirect Resting Energy Expenditure (REE). Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.9	3
29	A comparison of fabrication methods for Iridium Oxide reference electrodes. , 2009, , .		2
30	A predictor for ventricular tachycardia based on heart rate variability analysis. , 2011, , .		2
31	Sa1187 Three-Dimensional Volume of Inverted Impedance (3D-Vii): A Novel Method to Measure Bolus Transit Using High-Resolution Impedance Manometry. Gastroenterology, 2012, 142, S-238.	1.3	2
32	Sa1315 Three-Dimensional Volume of Inverted Impedance (VII): A Novel Method to Measure Bolus Transit Using High-Resolution Impedance Manometry and Its Relationship to Key Parameters of the Chicago Classification Based on an Asymptomatic Normal Population. Gastroenterology, 2013, 144, S-260.	1.3	2
33	A simple apparatus for safety assessment of magnetically induced torque on active implantable medical devices (AIMDs) under 1.5ÂT and 3.0ÂT MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 767-774.	2.0	2
34	Sa2039 New High-Resolution Anorectal Manometry Parameter for Predicting Balloon Expulsion in Both Constipated Patients and Asymptomatic Controls on the Basis of a Three-Dimensional Integrated Pressurized Volume of Spatiotemporal Plot: The Comparison Between Conventional Supine and Physiological Sitting Positions During Simulated Evacuation. Gastroenterology, 2013, 144, S-367.	1.3	1
35	Sa1330 New Bolus Transit Parameter in High-resolution Impedance Manometry: Validation with Simultaneous Barium Esophagography. Gastroenterology, 2016, 150, S285.	1.3	1
36	Sa1710 Predicting a Responsiveness to Biofeedback Therapy Based on Three-Dimensional Integrated Pressurized Volume in Female Patients With Dyssynergic Defecation Using High-Resolution Anorectal Manometry. Gastrointestinal Endoscopy, 2017, 85, AB249.	1.0	1

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37	Analysis of heavy-metal-ions using mercury microelectrodes and a solid-state reference electrode fabricated on a Si wafer. , 0, , .		0
38	Development of an assistance system for the Botox procedure of patients with strabismus. , 2011, , .		0
39	Tu2010 New High-Resolution Anorectal Manometry Parameters for Predicting Balloon Expulsion in Patients With Chronic Constipation: Based on Three-Dimensional Integrated Pressurized Volume of Spatiotemporal Plot. Gastroenterology, 2012, 142, S-900-S-901.	1.3	0
40	Improvement in the image transmission of the mobile digital C-arm X-ray system in the operating room. , 2012, , .		0
41	Su1877 Chicago Classification Normal Reference Range Significantly Altered When Patients Over Age 50 Included. Gastroenterology, 2013, 144, S-498.	1.3	0
42	Tu1194 Oropharyngeal Risk Index of Three-Dimensional Volume of Inverted Impedance (ORIV), a Novel Method to Estimate Oropharyngeal Abnormality: Based on Comparison Between Oropharyngeal Cancer and Asymptomatic Normal Controls Using High-Resolution Impedance Manometry. Gastroenterology, 2013, 144, S-786-S-787.	1.3	0
43	Mo2021 A New High-Resolution Anorectal Manometry Parameter for Fecal Incontinence Based on Three-Dimensional Integrated Pressurized Volume of a Spatiotemporal Plot: Comparison Between Elderly Female Patients With Fecal Incontinence and Asymptomatic Normal Female Controls. Gastroenterology, 2014, 146, S-719-S-720.	1.3	0
44	Tu1985 New Bolus Transit Parameter in High-Resolution Impedance Manometry: Correlation With Radionuclide Esophageal Transit Scintigraphy. Gastroenterology, 2014, 146, S-890-S-891.	1.3	0
45	Sa1348 A Novel High-Resolution Anorectal Squeezing Parameter for Fecal Incontinence Using Three-Dimensional Integrated Pressurized Volume: A Comparison Between Elderly Female Patients With Fecal Incontinence and Asymptomatic Normal Female Controls. Gastroenterology, 2015, 148, S-298-S-299.	1.3	0
46	Tu1772 A New High-Resolution Anorectal Manometry Parameter Based on Three-Dimensional Integrated Pressurized Volume in Both Asymptomatic Healthy Individuals and Patients With Chronic Constipation. Gastroenterology, 2016, 150, S940-S941.	1.3	0
47	A System for Improving the Management of the Lesion and Test Images of Patients. Engineering, 2013, 05, 163-165.	0.8	0
48	Activity Classification Using 3-Axis Accelerometer Wearing on Wrist for the Elderly. IFMBE Proceedings, 2014, , 1485-1488.	0.3	0
49	Development of Cost-Effective Platform for Tracking and Analysis of Animal Ambulatory Patterns. Journal of Sensor Science and Technology, 2014, 23, 82-86.	0.2	0