

In-Young Kim

List of Publications by Year in descending order

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121
papers

1,745
citations

304602

22
h-index

345118

36
g-index

122
all docs

122
docs citations

122
times ranked

2446
citing authors

#	ARTICLE	IF	CITATIONS
1	Grey matter abnormalities in obsessive-compulsive disorder. <i>British Journal of Psychiatry</i> , 2001, 179, 330-334.	1.7	212
2	Electric stimuli responses to poly(vinyl alcohol)/chitosan interpenetrating polymer network hydrogel in NaCl solutions. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2285-2289.	1.3	88
3	Tracking tonic dopamine levels in vivo using multiple cyclic square wave voltammetry. <i>Biosensors and Bioelectronics</i> , 2018, 121, 174-182.	5.3	75
4	Motion Artifact Reduction in Wearable Photoplethysmography Based on Multi-Channel Sensors with Multiple Wavelengths. <i>Sensors</i> , 2020, 20, 1493.	2.1	68
5	Thermal characteristics of poly(vinyl alcohol) and poly(vinylpyrrolidone) IPNs. <i>Journal of Applied Polymer Science</i> , 2002, 86, 1844-1847.	1.3	57
6	Synthesis and characteristics of a semi-interpenetrating polymer network based on chitosan/polyaniline under different pH conditions. <i>Journal of Applied Polymer Science</i> , 2005, 96, 867-873.	1.3	57
7	Monitoring In Vivo Changes in Tonic Extracellular Dopamine Level by Charge-Balancing Multiple Waveform Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2016, 88, 10962-10970.	3.2	56
8	Swelling characterization of the semi-interpenetrating polymer network hydrogels composed of chitosan and poly(diallyldimethylammonium chloride). <i>Journal of Applied Polymer Science</i> , 2004, 91, 2876-2880.	1.3	45
9	A data-driven artificial intelligence model for remote triage in the prehospital environment. <i>PLoS ONE</i> , 2018, 13, e0206006.	1.1	41
10	Unsupervised automatic seizure detection for focal-onset seizures recorded with behind-the-ear EEG using an anomaly-detecting generative adversarial network. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 193, 105472.	2.6	39
11	pH- and thermal characteristics of graft hydrogels based on chitosan and poly(dimethylsiloxane). <i>Journal of Applied Polymer Science</i> , 2002, 85, 2661-2666.	1.3	36
12	Altered Quality of Life and Psychological Health (SCL-90-R) in Patients With Chronic Rhinosinusitis With Nasal Polyps. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2015, 124, 663-670.	0.6	36
13	Gray matter differences in the anterior cingulate and orbitofrontal cortex of young adults with Internet gaming disorder: Surface-based morphometry. <i>Journal of Behavioral Addictions</i> , 2018, 7, 21-30.	1.9	35
14	Fast Cyclic Square-Wave Voltammetry To Enhance Neurotransmitter Selectivity and Sensitivity. <i>Analytical Chemistry</i> , 2018, 90, 13348-13355.	3.2	31
15	Characterization of hydrogels based on chitosan and copolymer of poly(dimethylsiloxane) and poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 2002, 84, 2591-2596.	1.3	30
16	Synthesis and characteristics of semi-interpenetrating polymer network hydrogels based on chitosan and poly(hydroxy ethyl methacrylate). <i>Journal of Applied Polymer Science</i> , 2005, 96, 86-92.	1.3	30
17	Development of an automatic muscle atrophy measuring algorithm to calculate the ratio of supraspinatus in supraspinous fossa using deep learning. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 182, 105063.	2.6	29
18	Swollen behavior of crosslinked network hydrogels based on poly(vinyl alcohol) and polydimethylsiloxane. <i>Journal of Applied Polymer Science</i> , 2002, 85, 957-964.	1.3	28

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19	Swelling Kinetics of Interpenetrating Polymer Hydrogels Composed of Poly(Vinyl Alcohol)/Chitosan. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 501-510.	1.2	27
20	Interindividual reproducibility of glutamate quantification using 1.5-T proton magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 708-712.	1.9	27
21	Swelling kinetics of modified poly(vinyl alcohol) hydrogels. <i>Journal of Applied Polymer Science</i> , 2003, 90, 3310-3313.	1.3	25
22	Deep-learning framework and computer assisted fatty infiltration analysis for the supraspinatus muscle in MRI. <i>Scientific Reports</i> , 2021, 11, 15065.	1.6	25
23	Influence of Propofol and Fentanyl on Deep Brain Stimulation of the Subthalamic Nucleus. <i>Journal of Korean Medical Science</i> , 2014, 29, 1278.	1.1	24
24	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. <i>PLoS ONE</i> , 2015, 10, e0141242.	1.1	23
25	Adaptable fuzzy C-Means for improved classification as a preprocessing procedure of brain parcellation. <i>Journal of Digital Imaging</i> , 2001, 14, 238-240.	1.6	21
26	Semi-supervised automatic seizure detection using personalized anomaly detecting variational autoencoder with behind-the-ear EEG. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 213, 106542.	2.6	21
27	Thermal characteristics of interpenetrating polymer networks composed of poly(vinyl alcohol) and poly(N-isopropylacrylamide). <i>Journal of Applied Polymer Science</i> , 2003, 90, 881-885.	1.3	20
28	Sensitive and Selective Measurement of Serotonin <i>in Vivo</i> Using Fast Cyclic Square-Wave Voltammetry. <i>Analytical Chemistry</i> , 2020, 92, 774-781.	3.2	20
29	Mental Stress Assessment Using Ultra Short Term HRV Analysis Based on Non-Linear Method. <i>Biosensors</i> , 2022, 12, 465.	2.3	20
30	Thermal Characteristics of Polyelectrolyte Complexes Composed of Chitosan and Hyaluronic Acid. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 807-815.	1.2	18
31	Auditory brain-computer interfaces (BCIs) and their practical applications. <i>Biomedical Engineering Letters</i> , 2012, 2, 13-17.	2.1	18
32	Altered Heart Rate Variability During Gaming in Internet Gaming Disorder. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2018, 21, 259-267.	2.1	18
33	A Supporting Platform for Semi-Automatic Hyoid Bone Tracking and Parameter Extraction from Videofluoroscopic Images for the Diagnosis of Dysphagia Patients. <i>Dysphagia</i> , 2017, 32, 315-326.	1.0	15
34	Water and temperature response of semi-IPN hydrogels composed of chitosan and polyacrylonitrile. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2721-2724.	1.3	14
35	Preparation and characteristics of poly(propylene glycol) and poly(acrylic acid) interpenetrating polymer network hydrogels. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1384-1388.	1.3	14
36	Swelling and electroresponsive characteristics of interpenetrating polymer network hydrogels. <i>Polymer International</i> , 2005, 54, 1169-1174.	1.6	14

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37	Controlled Nanofiber Composed of Multi-Wall Carbon Nanotube/Poly(Ethylene Oxide). Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 785-796.	1.2	14
38	Neural correlates of spatial and nonspatial attention determined using intracranial electroencephalographic signals in humans. Human Brain Mapping, 2016, 37, 3041-3054.	1.9	14
39	Maladaptive neurovisceral interactions in patients with Internet gaming disorder: A study of heart rate variability and functional neural connectivity using the graph theory approach. Addiction Biology, 2020, 25, e12805.	1.4	14
40	Investigation of the reduction process of dopamine using paired pulse voltammetry. Journal of Electroanalytical Chemistry, 2014, 717-718, 157-164.	1.9	13
41	Temperature and pH-response swelling behavior of poly(2-ethyl-2-oxazoline)/chitosan interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2006, 99, 1100-1103.	1.3	12
42	Bilateral Deep Brain Stimulation of the Subthalamic Nucleus under Sedation with Propofol and Fentanyl. PLoS ONE, 2016, 11, e0152619.	1.1	12
43	Brain mechanisms involved in processing unreal perceptions. NeuroImage, 2008, 43, 793-800.	2.1	11
44	Analysis of Nociceptive Information Encoded in the Temporal Discharge Patterns of Cutaneous C-Fibers. Frontiers in Computational Neuroscience, 2016, 10, 118.	1.2	11
45	Fornix Stimulation Induces Metabolic Activity and Dopaminergic Response in the Nucleus Accumbens. Frontiers in Neuroscience, 2019, 13, 1109.	1.4	10
46	Meaning based covert speech classification for brain-computer interface based on electroencephalography. , 2013, , .		9
47	The effect of low frequency stimulation of the pedunculopontine tegmental nucleus on basal ganglia in a rat model of Parkinson's disease. Neuroscience Letters, 2014, 577, 16-21.	1.0	9
48	A study for watermark methods appropriate to medical images. Journal of Digital Imaging, 2001, 14, 184-186.	1.6	8
49	The effect of focused ultrasonic stimulation on the activity of hippocampal neurons in multi-channel electrode. , 2013, , .		8
50	Multi-waveform fast-scan cyclic voltammetry mapping of adsorption/desorption kinetics of biogenic amines and their metabolites. Analytical Methods, 2018, 10, 2834-2843.	1.3	8
51	Diminished Frontal Theta Activity During Gaming in Young Adults With Internet Gaming Disorder. Frontiers in Neuroscience, 2019, 13, 1183.	1.4	8
52	Diminished cognitive control in Internet gaming disorder: A multimodal approach with magnetic resonance imaging and real-time heart rate variability. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 111, 110127.	2.5	8
53	Development of Smart-Ring-Based Chest Compression Depth Feedback Device for High Quality Chest Compressions: A Proof-of-Concept Study. Biosensors, 2021, 11, 35.	2.3	8
54	Changes in dead space/tidal volume ratio and pulmonary mechanics after surfactant replacement therapy in respiratory distress syndrome of the newborn infants. Journal of Korean Medical Science, 2001, 16, 51.	1.1	7

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55	Swelling Characterizations of the Interpenetrating Polymer Network Hydrogels Composed of Polymethacrylic Acid and Alginate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2005, 42, 811-820.	1.2	7
56	Effects of spectral smearing of stimuli on the performance of auditory steady-state response-based brain-computer interface. <i>Cognitive Neurodynamics</i> , 2017, 11, 515-527.	2.3	7
57	Histogram analysis from stretched exponential model on diffusion-weighted imaging: evaluation of clinically significant prostate cancer. <i>British Journal of Radiology</i> , 2020, 93, 20190757.	1.0	7
58	Comparing Ictal Cardiac Autonomic Changes in Patients with Frontal Lobe Epilepsy and Temporal Lobe Epilepsy by Ultra-Short-Term Heart Rate Variability Analysis. <i>Medicina (Lithuania)</i> , 2021, 57, 666.	0.8	7
59	ECG Authentication Based on Non-Linear Normalization under Various Physiological Conditions. <i>Sensors</i> , 2021, 21, 6966.	2.1	7
60	Sensitivity enhancement of speech perception in noise by sound training: Hearing loss simulation study. <i>Biomedical Engineering Letters</i> , 2011, 1, 137-142.	2.1	6
61	Clinical evaluation of the performance of a blind source separation algorithm combining beamforming and independent component analysis in hearing aid use. <i>Speech Communication</i> , 2013, 55, 544-552.	1.6	6
62	Enhanced Beam-Steering-Based Diagonal Beamforming Algorithm for Binaural Hearing Support Devices. <i>Artificial Organs</i> , 2014, 38, 608-615.	1.0	6
63	Low-frequency oscillations in cerebrovascular and cardiovascular hemodynamics: Their interrelationships and the effect of age. <i>Microvascular Research</i> , 2015, 102, 46-53.	1.1	6
64	Comparing the standards of one metabolic equivalent of task in accurately estimating physical activity energy expenditure based on acceleration. <i>Journal of Sports Sciences</i> , 2017, 35, 1279-1286.	1.0	6
65	Preparation and characterizations of interpenetrating polymer network hydrogels of poly(ethylene Tj ETQq1 1 0.784314 rgBJ /Overlo	1.3	5
66	Comparative evaluation of voice activity detectors in single microphone noise reduction algorithms. <i>Biomedical Engineering Letters</i> , 2012, 2, 255-264.	2.1	5
67	Long-term evaluation and feasibility study of the insulated screw electrode for ECoG recording. <i>Journal of Neuroscience Methods</i> , 2018, 308, 261-268.	1.3	5
68	Effects of degree and symmetricity of bilateral spectral smearing, carrier frequency, and subject sex on amplitude of evoked auditory steady-state response signal. <i>Cognitive Neurodynamics</i> , 2019, 13, 151-160.	2.3	5
69	Differences in theta coherence between spatial and nonspatial attention using intracranial electroencephalographic signals in humans. <i>Human Brain Mapping</i> , 2019, 40, 2336-2346.	1.9	5
70	Patterns of enhancement in paretic shoulder kinematics after stroke with musical cueing. <i>Scientific Reports</i> , 2020, 10, 18109.	1.6	5
71	Effects of mobile messenger counseling on case management success for individuals engaging in self-harm or suicide attempts who were discharged from emergency departments. <i>Clinical and Experimental Emergency Medicine</i> , 2021, 8, 48-54.	0.5	5
72	An efficient adaptive feedback cancellation for hearing aids. , 0, , .		4

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73	5-hydroxytryptamine measurement using paired pulse voltammetry. Biomedical Engineering Letters, 2013, 3, 102-108.	2.1	4
74	The Current Status of Evaluation Technologies for the Function of Human Olfaction. Hanyang Medical Reviews, 2014, 34, 120.	0.4	4
75	An Environment-Adaptive Management Algorithm for Hearing-Support Devices Incorporating Listening Situation and Noise Type Classifiers. Artificial Organs, 2015, 39, 361-368.	1.0	4
76	A Case of Myeloid Sarcoma of Intestine. Korean journal of gastroenterology = Taehan Sohwagi Hakhoe chi, The, 2016, 68, 148.	0.2	4
77	Decoding Saccadic Directions Using Epidural ECoG in Non-Human Primates. Journal of Korean Medical Science, 2017, 32, 1243.	1.1	4
78	A PHONOCARDIOGRAM-BASED NOISE-ROBUST REAL-TIME HEART RATE MONITORING ALGORITHM FOR OUTPATIENTS DURING NORMAL ACTIVITIES. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850044.	0.3	4
79	Clip-On IMU System for Assessing Age-Related Changes in Hand Functions. Sensors, 2020, 20, 6313.	2.1	4
80	Automated remote decision-making algorithm as a primary triage system using machine learning techniques. Physiological Measurement, 2021, 42, 025006.	1.2	4
81	Comparison of the Effects of Hepatic Steatosis on Monoexponential DWI, Intravoxel Incoherent Motion Diffusion-weighted Imaging and Diffusion Kurtosis Imaging. Academic Radiology, 2021, 28, S203-S209.	1.3	4
82	A Trainable Hearing Aid Algorithm Reflecting Individual Preferences for Degree of Noise-Suppression, Input Sound Level, and Listening Situation. Clinical and Experimental Otorhinolaryngology, 2017, 10, 56-65.	1.1	4
83	Brain mechanism involved in the real motion interaction with a virtual avatar. Biomedical Engineering Letters, 2012, 2, 164-172.	2.1	3
84	A comparison of frequency-invariant beamforming algorithms for hearing aids: Differential microphone-based beamformers and the broadband beamformer. Biomedical Engineering Letters, 2014, 4, 166-175.	2.1	3
85	A New Asymmetric Directional Microphone Algorithm With Automatic Mode-Switching Ability for Binaural Hearing Support Devices. Artificial Organs, 2015, 39, 535-540.	1.0	3
86	A Diagonal-Steering-Based Binaural Beamforming Algorithm Incorporating a Diagonal Speech Localizer for Persons With Bilateral Hearing Impairment. Artificial Organs, 2015, 39, 1061-1068.	1.0	3
87	Training a Chest Compression of 6-7 cm Depth for High Quality Cardiopulmonary Resuscitation in Hospital Setting: A Randomised Controlled Trial. Yonsei Medical Journal, 2016, 57, 505.	0.9	3
88	An Eye-Blinking-Based Beamforming Control Protocol for Hearing Aid Users With Neurological Motor Disease or Limb Amputation. Artificial Organs, 2017, 41, 162-168.	1.0	3
89	Right Hemisphere Lateralization in Neural Connectivity Within Fronto-Parietal Networks in Non-human Primates During a Visual Reaching Task. Frontiers in Behavioral Neuroscience, 2018, 12, 186.	1.0	3
90	Association of ambient temperature with the outcomes in witnessed out-of-hospital cardiac arrest patients: a population-based observational study. Scientific Reports, 2019, 9, 13417.	1.6	3

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91	Can Mobile Videocall Assist Laypersonsâ€™ Use of Automated External Defibrillators? A Randomized Simulation Study and Qualitative Analysis. <i>BioMed Research International</i> , 2020, 2020, 1-7.	0.9	3
92	Impact of a Smart-Ring-Based Feedback System on the Quality of Chest Compressions in Adult Cardiac Arrest: A Randomized Preliminary Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5408.	1.2	3
93	Selective Prediction With Long Short-term Memory Using Unit-Wise Batch Standardization for Time Series Health Data Sets: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2022, 10, e30587.	1.3	3
94	Real-time volume rendering of four-dimensional images based on three-dimensional texture mapping. <i>Journal of Digital Imaging</i> , 2001, 14, 202-204.	1.6	2
95	Thermal characteristics of IPNs composed of poly(propylene glycol) and poly(acrylic acid). <i>Journal of Applied Polymer Science</i> , 2003, 88, 2570-2574.	1.3	2
96	Modified segmental signal-to-noise ratio reflecting spectral masking effect for evaluating the performance of hearing aid algorithms. <i>Speech Communication</i> , 2013, 55, 1003-1010.	1.6	2
97	Sex differences of cognitive load effects on object-location binding memory. <i>Biomedical Engineering Letters</i> , 2017, 7, 305-309.	2.1	2
98	New Method for Pure-Tone Audiometry Using Electrooculogram: A Proof-of-Concept Study. <i>Sensors</i> , 2018, 18, 3651.	2.1	2
99	Effects of the Simultaneous Application of Nonlinear Frequency Compression and Dichotic Hearing on the Speech Recognition of Severely Hearing-Impaired Subjects: Simulation Test. <i>Clinical and Experimental Otorhinolaryngology</i> , 2015, 8, 102.	1.1	2
100	Hierarchical Classification of ECG Beat Using Higher Order Statistics and Hermite Model. <i>Journal of Korean Society of Medical Informatics</i> , 2009, 15, 117.	0.3	2
101	Prognostic Impact of In-Hospital Use of Mechanical Cardiopulmonary Resuscitation Devices Compared with Manual Cardiopulmonary Resuscitation: A Nationwide Population-Based Observational Study in South Korea. <i>Medicina (Lithuania)</i> , 2022, 58, 353.	0.8	2
102	Characterization of smart hydrogels for biometric sensors and actuators. , 0, , .		1
103	Measurement of Expression Characteristics in Emotional Situations using Virtual Reality. <i>Virtual Reality Conference (VR), Proceedings, IEEE</i> , 2009, , .	0.0	1
104	Effect of Proprioception Training of patient with Hemiplegia by Manipulating Visual Feedback using Virtual Reality: The Preliminary results. <i>Virtual Reality Conference (VR), Proceedings, IEEE</i> , 2009, , .	0.0	1
105	A new computerized diagnostic algorithm for quantitative evaluation of binocular misalignment in patients with strabismus. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1114-1119.	0.3	1
106	The effectiveness of epidural ECoG on brain computer interface in primate. , 2013, , .		1
107	A new hemostatic clip for endoscopic surgery that can maintain blood flow after clipping. <i>World Journal of Gastroenterology</i> , 2014, 20, 1325.	1.4	1
108	SIMULATION STUDY TO COMPARE THE RELATIONSHIP BETWEEN THE BLAST-INDUCED OBJECTIVE INDICES AND THE SURVIVAL RATE OF SUBJECTS WITH PRIMARY BLAST LUNG INJURY. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550043.	0.3	1

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109	The effects of different anesthetic methods on neuronal activity and movement symptoms of Parkinson's disease. International Journal of Precision Engineering and Manufacturing, 2015, 16, 573-579.	1.1	1
110	EFFECT OF VARIATIONS IN MICROPHONE COVER SHAPE AND WEARING POSITION ON THE PERFORMANCE OF A HEARING-SUPPORT DEVICE MOUNTED ON EAR " SIMULATION STUDY. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650048.	0.3	1
111	Analysis of temporal firing patterns of primary afferent C-fibers for different sensations in mice. International Journal of Precision Engineering and Manufacturing, 2017, 18, 739-745.	1.1	1
112	Thermal properties of poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) interpenetrating polymer networks. Journal of Applied Polymer Science, 2003, 88, 2719-2719.	1.3	0
113	Effects of nerve growth factor on the organotypic hippocampal slice culture using MEA system. , 2009, , .		0
114	Development of a speech-distortionless beamformer for two-microphone digital hearing aids. , 2013, , .		0
115	A Case of Primary Bone Marrow Diffuse Large B-cell Lymphoma Presenting with Polyarthritis. Journal of Rheumatic Diseases, 2016, 23, 256.	0.4	0
116	Effect of processing-based and microphone-based noise reduction algorithms on intelligibility-related acoustic features: A parametric investigation study. Speech Communication, 2016, 78, 11-18.	1.6	0
117	Developing ultrasound tactile sensitivity testing device with optical detector for measuring surface strain. , 2017, , .		0
118	Tailoring fast-scan cyclic voltammetry for tonic dopamine concentration measurement. , 2017, , .		0
119	The Use of Catheter Mount Will Result in More Reliable Carbon Dioxide Monitoring under Fluid Exposing Conditions. Emergency Medicine International, 2019, 2019, 1-7.	0.3	0
120	The Study on Classification Method of Obsessive-Compulsive Disorder with Schizotypal Trait using Frontal Lobe Function Test. Journal of Korean Society of Medical Informatics, 2006, 12, 141.	0.3	0
121	The Interchange of Radiological Reports Using Clinical Document Architecture Standards. Journal of Korean Society of Medical Informatics, 2006, 12, 105.	0.3	0