Kang Kim

List of Publications by Year
in descending order

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58 papers	1,142 citations	361413 20 h-index	434195 31 g-index
59 all docs	59 docs citations	59 times ranked	1619 citing authors

#	Article	IF	Citations
1	Ultrasound Echogenicity as an Indicator of Muscle Fatigue during Functional Electrical Stimulation. Sensors, 2022, 22, 335.	3.8	10
2	ACUTE ELUTION OF TGFÎ²2 AFFECTS THE SMOOTH MUSCLE CELLS IN A COMPLIANCE-MATCHED VASCULAR GRAFT. Tissue Engineering - Part A, 2022, , .	3.1	1
3	A Hybrid Knee Exoskeleton Using Real-Time Ultrasound-Based Muscle Fatigue Assessment. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1854-1862.	5.8	13
4	Ultra-High-Frame-Rate Ultrasound Monitoring of Muscle Contractility Changes Due to Neuromuscular Electrical Stimulation. Annals of Biomedical Engineering, 2021, 49, 262-275.	2.5	8
5	Evaluation of Non-Invasive Ankle Joint Effort Prediction Methods for Use in Neurorehabilitation Using Electromyography and Ultrasound Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 1044-1055.	4.2	25
6	A Dual-Modal Approach Using Electromyography and Sonomyography Improves Prediction of Dynamic Ankle Movement: A Case Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1944-1954.	4.9	19
7	Semi-Automated Graphical System for Calculating Pulmonary Vascular Impedances in a Clinical Setting. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 198-200.	2.3	0
8	An exploratory assessment of stretch-induced transmural myocardial fiber kinematics in right ventricular pressure overload. Scientific Reports, 2021, 11, 3587.	3.3	4
9	In-vivo assessment of a tissue engineered vascular graft computationally optimized for target vessel compliance. Acta Biomaterialia, 2021, 123, 298-311.	8.3	26
10	Non-invasive Assessment of Liver Fat in ob/ob Mice Using Ultrasound-Induced Thermal Strain Imaging and Its Correlation with Hepatic Triglyceride Content. Ultrasound in Medicine and Biology, 2021, 47, 1067-1076.	1.5	0
11	Current Development and Applications of Super-Resolution Ultrasound Imaging. Sensors, 2021, 21, 2417.	3.8	23
12	Current Understanding of the Right Ventricle Structure and Function in Pulmonary Arterial Hypertension. Frontiers in Physiology, 2021, 12, 641310.	2.8	22
13	Multifocus Thermal Strain Imaging Using a Curved Linear Array Transducer for Identification of Lipids in Deep Tissue. Ultrasound in Medicine and Biology, 2021, 47, 1711-1724.	1.5	0
14	Ultrasound Echogenicity-based Assessment of Muscle Fatigue During Functional Electrical Stimulation. , 2021, 2021, 5948-5952.		3
15	The Effects of Healthy Aging on Right Ventricular Structure and Biomechanical Properties: A Pilot Study. Frontiers in Medicine, 2021, 8, 751338.	2.6	5
16	Quantitative Assessment of Changes in Muscle Contractility Due to Fatigue During NMES: An Ultrasound Imaging Approach. IEEE Transactions on Biomedical Engineering, 2020, 67, 832-841.	4.2	23
17	Prediction of Ankle Dorsiflexion Moment by Combined Ultrasound Sonography and Electromyography. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 318-327.	4.9	45
18	BMP10-mediated ALK1 signaling is continuously required for vascular development and maintenance. Angiogenesis, 2020, 23, 203-220.	7.2	52

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19	Validation of Ultrasound Super-Resolution Imaging of Vasa Vasorum in Rabbit Atherosclerotic Plaques. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1725-1729.	3.0	14
20	Ultrasound super-resolution imaging provides aÂnoninvasive assessment of renal microvasculature changes during mouse acute kidney injury. Kidney International, 2020, 98, 355-365.	5.2	55
21	Ankle Dorsiflexion Strength Monitoring by Combining Sonomyography and Electromyography. , 2019, 2019, 240-245.		5
22	Decellularized neonatal cardiac extracellular matrix prevents widespread ventricular remodeling in adult mammals after myocardial infarction. Acta Biomaterialia, 2019, 87, 140-151.	8.3	53
23	Ultrasound Tracking of the Acoustically Actuated Microswimmer. IEEE Transactions on Biomedical Engineering, 2019, 66, 3231-3237.	4.2	26
24	Wavelet-based computationally-efficient computer-aided characterization of liver steatosis using conventional B-mode ultrasound images. Biomedical Signal Processing and Control, 2019, 52, 84-96.	5.7	14
25	Observer Design for a Nonlinear Neuromuscular System with Multi-rate Sampled and Delayed Output Measurements. , 2019, , .		1
26	Super-resolution ultrasound imaging method for microvasculature in vivo with a high temporal accuracy. Scientific Reports, 2018, 8, 13918.	3.3	67
27	Photostable, hydrophilic, and near infrared quaterrylene-based dyes for photoacoustic imaging. Materials Science and Engineering C, 2018, 93, 1012-1019.	7.3	5
28	Recent Development of Technology and Application of Photoacoustic Molecular Imaging Toward Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 1202-1207.	5.0	25
29	Sympathetic Neuronal Activation Triggers Myeloid Progenitor Proliferation and Differentiation. Immunity, 2018, 49, 93-106.e7.	14.3	81
30	A biodegradable synthetic graft for small arteries matches the performance of autologous vein in rat carotid arteries. Biomaterials, 2018, 181, 67-80.	11.4	35
31	Review: optically-triggered phase-transition droplets for photoacoustic imaging. Biomedical Engineering Letters, 2018, 8, 223-229.	4.1	20
32	A Light Illumination Enhancement Device for Photoacoustic Imaging: In Vivo Animal Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1205-1211.	3.0	10
33	Multi-Focus Beamforming for Thermal Strain Imaging Using a Single Ultrasound Linear Array Transducer. Ultrasound in Medicine and Biology, 2017, 43, 1263-1274.	1.5	9
34	EUS and related technologies for the diagnosis and treatment of pancreatic disease: research gaps and opportunitiesâ€"Summary of a National Institute of Diabetes and Digestive and Kidney Diseases workshop. Gastrointestinal Endoscopy, 2017, 86, 768-778.	1.0	16
35	Notice of Removal: In vivo super-resolution imaging of vasa vasorum in rabbit atherosclerotic plaque model using deconvolution-based localization technique. , 2017, , .		0
36	Vaporization and recondensation dynamics of indocyanine green-loaded perfluoropentane droplets irradiated by a short pulse laser. Applied Physics Letters, 2016, 109, .	3.3	24

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37	Improved Estimation of Ultrasound Thermal Strain Using Pulse Inversion Harmonic Imaging. Ultrasound in Medicine and Biology, 2016, 42, 1182-1192.	1.5	8
38	Decellularized zebrafish cardiac extracellular matrix induces mammalian heart regeneration. Science Advances, 2016, 2, e1600844.	10.3	106
39	Non-invasive and Non-destructive Characterization of Tissue Engineered Constructs Using Ultrasound Imaging Technologies: A Review. Annals of Biomedical Engineering, 2016, 44, 621-635.	2.5	31
40	Quantification of Coupled Stiffness and Fiber Orientation Remodeling in Hypertensive Rat Right-Ventricular Myocardium Using 3D Ultrasound Speckle Tracking with Biaxial Testing. PLoS ONE, 2016, 11, e0165320.	2.5	13
41	Long-term Patency of Primary Arterial Repair and the Modified Cold Intolerance Symptom Severity Questionnaire. Plastic and Reconstructive Surgery - Global Open, 2015, 3, e551.	0.6	9
42	High spatial-resolution cavitation imaging of laser-triggered PFP droplets. , 2015, , .		0
43	Methods for Using 3-D Ultrasound Speckle Tracking in Biaxial Mechanical Testing of Biological Tissue Samples. Ultrasound in Medicine and Biology, 2015, 41, 1029-1042.	1.5	6
44	Controlled dual delivery of fibroblast growth factor-2 and Interleukin-10 by heparin-based coacervate synergistically enhances ischemic heart repair. Biomaterials, 2015, 72, 138-151.	11.4	91
45	Adaptive beamforming for thermal strain imaging using a single ultrasound linear array. , 2014, , .		1
46	Elastic modulus contrast enhancement in shear wave imaging using mechanical nonlinearity: In vitro tissue mimicking phantom study. , 2014, , .		1
47	Enhancement of photoacoustic signal using a novel light illumination improvement device: In vivo feasibility animal study. , 2014, , .		2
48	InÂvivo monitoring of structural and mechanical changes of tissue scaffolds by multi-modality imaging. Biomaterials, 2014, 35, 7851-7859.	11.4	29
49	Motion artifact reduction in ultrasound based thermal strain imaging of atherosclerotic plaques using time-series analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1660-1668.	3.0	11
50	A new design of light illumination scheme for deep tissue photoacoustic imaging. Optics Express, 2012, 20, 22649.	3.4	29
51	Ferritin as a novel reporter gene for photoacoustic molecular imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 910-915.	1.5	7
52	A time series analysis technique for effective thermal strain imaging in atherosclerotic plaques by reducing large cardiac motion induced artifacts. , 2012, , .		0
53	Feasibility of elastic and compositional characterization of an arterial plaque by dual mechanical strain and thermal strain imaging using a single ultrasound probe. , 2011, , .		0
54	Simultaneous photoacoustic detection of multiple inflammatory biomarkers using bioconjugated gold nanorods as selective targeting agents. , 2010, , .		1

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55	Two-Dimensional Strain Imaging of Controlled Rabbit Hearts. Ultrasound in Medicine and Biology, 2009, 35, 1488-1501.	1.5	34
56	Three dimensional elastic modulus reconstruction for non-invasive, quantitative monitoring of tissue scaffold mechanical property changes. , 2008, , .		2
57	Effect of Fatigue on Muscle Elasticity in the Human Forearm Using Ultrasound Strain Imaging. , 2006, 2006, 4490-3.		21
58	Current Status and Advancement of Ultrasound Imaging Technologies in Musculoskeletal Studies. Current Physical Medicine and Rehabilitation Reports, 0, , 1.	0.8	1