

# Kang Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Decellularized zebrafish cardiac extracellular matrix induces mammalian heart regeneration. <i>Science Advances</i> , 2016, 2, e1600844.	10.3	106
2	Controlled dual delivery of fibroblast growth factor-2 and Interleukin-10 by heparin-based coacervate synergistically enhances ischemic heart repair. <i>Biomaterials</i> , 2015, 72, 138-151.	11.4	91
3	Sympathetic Neuronal Activation Triggers Myeloid Progenitor Proliferation and Differentiation. <i>Immunity</i> , 2018, 49, 93-106.e7.	14.3	81
4	Super-resolution ultrasound imaging method for microvasculature in vivo with a high temporal accuracy. <i>Scientific Reports</i> , 2018, 8, 13918.	3.3	67
5	Ultrasound super-resolution imaging provides a noninvasive assessment of renal microvasculature changes during mouse acute kidney injury. <i>Kidney International</i> , 2020, 98, 355-365.	5.2	55
6	Decellularized neonatal cardiac extracellular matrix prevents widespread ventricular remodeling in adult mammals after myocardial infarction. <i>Acta Biomaterialia</i> , 2019, 87, 140-151.	8.3	53
7	BMP10-mediated ALK1 signaling is continuously required for vascular development and maintenance. <i>Angiogenesis</i> , 2020, 23, 203-220.	7.2	52
8	Prediction of Ankle Dorsiflexion Moment by Combined Ultrasound Sonography and Electromyography. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 318-327.	4.9	45
9	A biodegradable synthetic graft for small arteries matches the performance of autologous vein in rat carotid arteries. <i>Biomaterials</i> , 2018, 181, 67-80.	11.4	35
10	Two-Dimensional Strain Imaging of Controlled Rabbit Hearts. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1488-1501.	1.5	34
11	Non-invasive and Non-destructive Characterization of Tissue Engineered Constructs Using Ultrasound Imaging Technologies: A Review. <i>Annals of Biomedical Engineering</i> , 2016, 44, 621-635.	2.5	31
12	A new design of light illumination scheme for deep tissue photoacoustic imaging. <i>Optics Express</i> , 2012, 20, 22649.	3.4	29
13	In vivo monitoring of structural and mechanical changes of tissue scaffolds by multi-modality imaging. <i>Biomaterials</i> , 2014, 35, 7851-7859.	11.4	29
14	Ultrasound Tracking of the Acoustically Actuated Microswimmer. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3231-3237.	4.2	26
15	In-vivo assessment of a tissue engineered vascular graft computationally optimized for target vessel compliance. <i>Acta Biomaterialia</i> , 2021, 123, 298-311.	8.3	26
16	Recent Development of Technology and Application of Photoacoustic Molecular Imaging Toward Clinical Translation. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1202-1207.	5.0	25
17	Evaluation of Non-Invasive Ankle Joint Effort Prediction Methods for Use in Neurorehabilitation Using Electromyography and Ultrasound Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1044-1055.	4.2	25
18	Vaporization and recondensation dynamics of indocyanine green-loaded perfluoropentane droplets irradiated by a short pulse laser. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	24

#	ARTICLE	IF	CITATIONS
19	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
20	Current Development and Applications of Super-Resolution Ultrasound Imaging. Sensors, 2021, 21, 2417.	3.8	23
21	Current Understanding of the Right Ventricle Structure and Function in Pulmonary Arterial Hypertension. Frontiers in Physiology, 2021, 12, 641310.	2.8	22
22	Effect of Fatigue on Muscle Elasticity in the Human Forearm Using Ultrasound Strain Imaging. , 2006, 2006, 4490-3.		21
23	Review: optically-triggered phase-transition droplets for photoacoustic imaging. Biomedical Engineering Letters, 2018, 8, 223-229.	4.1	20
24	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
25	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
26	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
27	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
28	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
29	A Hybrid Knee Exoskeleton Using Real-Time Ultrasound-Based Muscle Fatigue Assessment. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1854-1862.	5.8	13
30	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
31	A Light Illumination Enhancement Device for Photoacoustic Imaging: <i>In Vivo</i> Animal Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1205-1211.	3.0	10
32	Ultrasound Echogenicity as an Indicator of Muscle Fatigue during Functional Electrical Stimulation. Sensors, 2022, 22, 335.	3.8	10
33	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
34	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
35	Improved Estimation of Ultrasound Thermal Strain Using Pulse Inversion Harmonic Imaging. Ultrasound in Medicine and Biology, 2016, 42, 1182-1192.	1.5	8
36	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

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37	Ferritin as a novel reporter gene for photoacoustic molecular imaging. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 910-915.	1.5	7
38	Methods for Using 3-D Ultrasound Speckle Tracking in Biaxial Mechanical Testing of Biological Tissue Samples. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1029-1042.	1.5	6
39	Photostable, hydrophilic, and near infrared quaterylene-based dyes for photoacoustic imaging. <i>Materials Science and Engineering C</i> , 2018, 93, 1012-1019.	7.3	5
40	Ankle Dorsiflexion Strength Monitoring by Combining Sonomyography and Electromyography. , 2019, 2019, 240-245.		5
41	The Effects of Healthy Aging on Right Ventricular Structure and Biomechanical Properties: A Pilot Study. <i>Frontiers in Medicine</i> , 2021, 8, 751338.	2.6	5
42	An exploratory assessment of stretch-induced transmural myocardial fiber kinematics in right ventricular pressure overload. <i>Scientific Reports</i> , 2021, 11, 3587.	3.3	4
43	Ultrasound Echogenicity-based Assessment of Muscle Fatigue During Functional Electrical Stimulation. , 2021, 2021, 5948-5952.		3
44	Three dimensional elastic modulus reconstruction for non-invasive, quantitative monitoring of tissue scaffold mechanical property changes. , 2008, , .		2
45	Enhancement of photoacoustic signal using a novel light illumination improvement device: In vivo feasibility animal study. , 2014, , .		2
46	Simultaneous photoacoustic detection of multiple inflammatory biomarkers using bioconjugated gold nanorods as selective targeting agents. , 2010, , .		1
47	Adaptive beamforming for thermal strain imaging using a single ultrasound linear array. , 2014, , .		1
48	Elastic modulus contrast enhancement in shear wave imaging using mechanical nonlinearity: In vitro tissue mimicking phantom study. , 2014, , .		1
49	Observer Design for a Nonlinear Neuromuscular System with Multi-rate Sampled and Delayed Output Measurements. , 2019, , .		1
50	Current Status and Advancement of Ultrasound Imaging Technologies in Musculoskeletal Studies. <i>Current Physical Medicine and Rehabilitation Reports</i> , 0, , 1.	0.8	1
51	ACUTE ELUTION OF TGF $\beta$ 2 AFFECTS THE SMOOTH MUSCLE CELLS IN A COMPLIANCE-MATCHED VASCULAR GRAFT. <i>Tissue Engineering - Part A</i> , 2022, , .	3.1	1
52	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
53	A time series analysis technique for effective thermal strain imaging in atherosclerotic plaques by reducing large cardiac motion induced artifacts. , 2012, , .		0
54	High spatial-resolution cavitation imaging of laser-triggered PFP droplets. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
55	Notice of Removal: In vivo super-resolution imaging of vasa vasorum in rabbit atherosclerotic plaque model using deconvolution-based localization technique. , 2017, , .		0
56	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
57	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
58	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