

# Shuo Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

898  
citations

567281  
15  
h-index

501196  
28  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1606  
citing authors

#	ARTICLE	IF	CITATIONS
1	A solvent-based surface cleaning and passivation technique for suppressing ionic defects in high-mobility perovskite field-effect transistors. <i>Nature Electronics</i> , 2020, 3, 694-703.	26.0	99
2	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020, 26, 1654-1662.	30.7	98
3	Resveratrol Alleviates Inflammatory Responses and Oxidative Stress in Rat Kidney Ischemia-Reperfusion Injury and H <sub>2</sub> O <sub>2</sub> -Induced NRK-52E Cells via the Nrf2/TLR4/NF- $\kappa$ B Pathway. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 1677-1689.	1.6	97
4	The mTOR signal regulates myeloid-derived suppressor cells differentiation and immunosuppressive function in acute kidney injury. <i>Cell Death and Disease</i> , 2017, 8, e2695-e2695.	6.3	81
5	Erythropoietin protects against rhabdomyolysis-induced acute kidney injury by modulating macrophage polarization. <i>Cell Death and Disease</i> , 2017, 8, e2725-e2725.	6.3	56
6	Characterizing tumor invasiveness of glioblastoma using multiparametric magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2020, 132, 1465-1472.	1.6	39
7	Epigenetics in myeloid derived suppressor cells: a sheathed sword towards cancer. <i>Oncotarget</i> , 2016, 7, 57452-57463.	1.8	38
8	A novel cytoprotective peptide protects mesenchymal stem cells against mitochondrial dysfunction and apoptosis induced by starvation via Nrf2/Sirt3/FoxO3a pathway. <i>Journal of Translational Medicine</i> , 2017, 15, 33.	4.4	37
9	An epidemiological modelling approach for COVID-19 via data assimilation. <i>European Journal of Epidemiology</i> , 2020, 35, 749-761.	5.7	37
10	The Crosstalk between Myeloid Derived Suppressor Cells and Immune Cells: To Establish Immune Tolerance in Transplantation. <i>Journal of Immunology Research</i> , 2016, 2016, 1-6.	2.2	32
11	Realistic Adversarial Data Augmentation for MR Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 667-677.	1.3	32
12	The influence of constitutive law choice used to characterise atherosclerotic tissue material properties on computing stress values in human carotid plaques. <i>Journal of Biomechanics</i> , 2015, 48, 3912-3921.	2.1	29
13	Intratumoral Heterogeneity of Glioblastoma Infiltration Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging. <i>Neurosurgery</i> , 2019, 85, 524-534.	1.1	29
14	Endothelial Cells in Antibody-Mediated Rejection of Kidney Transplantation: Pathogenesis Mechanisms and Therapeutic Implications. <i>Journal of Immunology Research</i> , 2017, 2017, 1-9.	2.2	19
15	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. <i>European Radiology</i> , 2019, 29, 4718-4729.	4.5	17
16	Suggestive Annotation of Brain Tumour Images with Gradient-Guided Sampling. <i>Lecture Notes in Computer Science</i> , 2020, , 156-165.	1.3	14
17	Protective effects of cyclic helix B peptide on aristolochic acid induced acute kidney injury. <i>Biomedicine and Pharmacotherapy</i> , 2017, 94, 1167-1175.	5.6	13
18	A Bayesian Updating Scheme for Pandemics: Estimating the Infection Dynamics of COVID-19. <i>IEEE Computational Intelligence Magazine</i> , 2020, 15, 23-33.	3.2	12

#	ARTICLE	IF	CITATIONS
19	Automatic Brain Tumour Segmentation and Biophysics-Guided Survival Prediction. Lecture Notes in Computer Science, 2020, , 61-72.	1.3	12
20	Finite-element analysis of the influence of tibial implant fixation design of total ankle replacement on boneâ€“implant interfacial biomechanical performance. Journal of Orthopaedic Surgery, 2020, 28, 230949902096612.	1.0	10
21	Influence of overlapping pattern of multiple overlapping uncovered stents on the local mechanical environment: A patient-specific parameter study. Journal of Biomechanics, 2017, 60, 188-196.	2.1	9
22	Decoding the Interdependence of Multiparametric Magnetic Resonance Imaging to Reveal Patient Subgroups Correlated with Survivals. Neoplasia, 2019, 21, 442-449.	5.3	9
23	High-mobility group box 1 protein antagonizes the immunosuppressive capacity and therapeutic effect of mesenchymal stem cells in acute kidney injury. Journal of Translational Medicine, 2020, 18, 175.	4.4	9
24	Joint Motion Correction and Super Resolution for Cardiac Segmentation viaÂLatent Optimisation. Lecture Notes in Computer Science, 2021, , 14-24.	1.3	9
25	Biomechanics-Informed Neural Networks for Myocardial Motion Tracking in MRI. Lecture Notes in Computer Science, 2020, , 296-306.	1.3	9
26	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. Lecture Notes in Computer Science, 2020, , 88-97.	1.3	9
27	Bayesian Inference-Based Estimation of Normal Aortic, Aneurysmal and Atherosclerotic Tissue Mechanical Properties: From Material Testing, Modeling and Histology. IEEE Transactions on Biomedical Engineering, 2019, 66, 2269-2278.	4.2	8
28	Neurocognition-inspired design with machine learning. Design Science, 2020, 6, .	2.1	6
29	Study on the association of wall shear stress and vessel structural stress with atherosclerosis: An experimental animal study. Atherosclerosis, 2021, 320, 38-46.	0.8	5
30	Finite element stress analysis of the bearing component and bone resected surfaces for total ankle replacement with different implant material combinations. BMC Musculoskeletal Disorders, 2022, 23, 70.	1.9	4
31	Mechanical and histological characteristics of aortic dissection tissues. Acta Biomaterialia, 2022, 146, 284-294.	8.3	4
32	Self-training for Brain Tumour Segmentation with Uncertainty Estimation and Biophysics-Guided Survival Prediction. Lecture Notes in Computer Science, 2021, , 514-523.	1.3	3
33	High-frequency spinal cord stimulation produces long-lasting analgesic effects by restoring lysosomal function and autophagic flux in the spinal dorsal horn. Neural Regeneration Research, 2022, 17, 370.	3.0	3
34	Shape Approximation and Size Difference of the Upper Part of the Talus: Implication for Implant Design of the Talar Component for Total Ankle Replacement. BioMed Research International, 2022, 2022, 1-10.	1.9	3
35	Association of Collagen, Elastin, Glycosaminoglycans, and Macrophages With Tissue Ultimate Material Strength and Stretch in Human Thoracic Aortic Aneurysms: A Uniaxial Tension Study. Journal of Biomechanical Engineering, 2022, 144, .	1.3	3
36	The role of porosity and 3D cross-stent configuration of multiple overlapping uncovered stents in the management of complex aortic aneurysms â€“ Insights from haemodynamics. Medicine in Novel Technology and Devices, 2019, 3, 100020.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Subtractive NCEâ€MRA: Improved background suppression using robust regressionâ€based weighted subtraction. Magnetic Resonance in Medicine, 2021, 85, 694-708.	3.0	1
38	RADIOMIC FEATURES FROM PHYSIOLOGICAL MRI SHOWS IMPROVED ACCURACY OVER STRUCTURAL MRI IN PREDICTING MGMT PROMOTER METHYLATION IN GLIOBLASTOMA. Neuro-Oncology, 2018, 20, v352-v353.	1.2	0
39	Estimation of the zero-pressure computational start shape of atherosclerotic plaques: Improving the backward displacement method with deformation gradient tensor. Journal of Biomechanics, 2022, 131, 110910.	2.1	0
40	Bayesian data assimilation for estimating instantaneous reproduction numbers during epidemics: Applications to COVID-19. PLoS Computational Biology, 2022, 18, e1009807.	3.2	0