

Jiaqiu Wang PhD, FHEA

Senior Lecturer
School of Computer Science and Digital Technologies
London South Bank University
London, United Kingdom

General Information

Date of Birth 27/10/1991

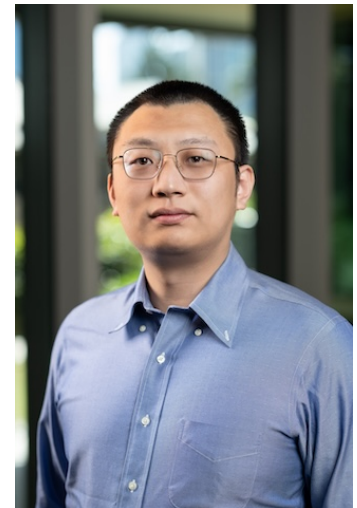
Gender Male | Pronouns: he, him, his

✉ Email jiaqiu.wang@hotmail.com

☎ Phone +44 (0) 7818 141929 (UK)
+61 (0) 422 388 739 (AU)
+86 132 3910 8181 (CN)

📍 Office FW-320
London South Bank University
103 Borough Rd
London, SE1 0AA, United Kingdom

🌐 Personal Website <https://www.jiaqiu.wang>



Online Profile

ORCID 0000-0001-7710-3508

Web of Science AAL-1925-2020

Scopus 57188647709

SciProfiles 2450238

Loop 797004

Semantic Scholar 2136025267

🔍 Google Scholar

📄 jiaqiuwang

🌐 JQKingCN

🔍 ResearchGate

🐦 @DrJiaqiuWang

update version - Feb 2025

Affiliation

since 10/2023

Senior Lecturer, *School of Computer Science and Digital Technologies, London South Bank University (LSBU), London, SE1 0AA, United Kingdom*

06/2021 - 06/2023

Postdoctoral Researcher, *School of Mechanical, Medical & Process Engineering (MMPE), Queensland University of Technology (QUT), Brisbane, QLD 4000, Australia*

08/2021 - 06/2022

Facility Scientist, *Centre for Advanced Imaging (CAI), The University of Queensland (UQ), St Lucia 4072, Australia*

06/2020 - 06/2021

Postdoctoral Researcher, *School of Clinical Sciences, Faculty of Health, QUT, Brisbane, QLD 4000, Australia*

07/2018 - 06/2021

Sessional Academic, *School of MMPE, QUT, Brisbane, QLD 4000, Australia*

Honorary Position

since 06/2023

Visiting Fellow, *School of Mechanical, Medical & Process Engineering (MMPE), Queensland University of Technology (QUT), Brisbane, QLD 4000, Australia*

Education

09/2016 - 07/2020

Doctor of Philosophy (PhD), *School of Mechanical, Medical & Process Engineering (MMPE), Queensland University of Technology, Brisbane, QLD 4000, Australia*

Major Biomechanics

Thesis Image-based patient-specific computational biomechanical analysis of the interaction between blood flow and atherosclerosis

10/2014 - 05/2016

Master of Science (MSc) by Research, *School of Medicine, College of Medicine, Dentistry and Nursing, University of Dundee, Dundee, DD1 4HN, United Kingdom*

Major Biomedical Engineering

Thesis Imaging guided FUS on Thiel soft embalmed organ models with reconstructed artificial blood circulation

09/2010 - 06/2014

Bachelor of Engineering (BEng), *College of Power Engineering, Chongqing University, Chongqing 400044, China*

Major Nuclear Engineering and Technology

Thesis An experimental research on two-phase spray cooling characteristics during quenching of metals

Teaching Experience

since 2024

Tutor, School of Engineering (SoE), London South Bank University (LSBU), London, SE1 0AA, United Kingdom

Discrete Mathematics (CSL4.DMA) for Undergraduate students

since 2023

Course Coordinator/Lecturer, SoE, LSBU, London, SE1 0AA, United Kingdom

Systems - Cyber Threats, Vulnerabilities and Countermeasures (CSL7.SYS) for Postgraduate students

2023 - 2024

Course Coordinator/Lecturer, SoE, LSBU, London, SE1 0AA, United Kingdom

Systems and Cyber Security (CSL6.SCS) for Undergraduate students

2020 - 2021

Tutor, School of Mechanical, Medical & Process Engineering (MMPE), Queensland University of Technology (QUT), Brisbane, QLD 4000, Australia

Stress Analysis (EGH414) for Undergraduate students

2018 - 2020

Tutor, School of MMPE, QUT, Brisbane, QLD 4000, Australia

Biofluids (EGH424) for Undergraduate students

Research Pattern

Interests

- Computational biomechanical analysis of patient-specific cardiovascular diseases
- Digital image/volume correlation (DIC/DVC) algorithms-based displacement tracking and strain analysis
- Optical coherence tomography (OCT) imaging and its application in biomedical engineering
- Medical imaging processing and 3D modelling

Keywords

Biomechanics | Biomedical engineering | Cardiovascular diseases | Computational fluid dynamics (CFD) | Computed tomography (CT) | Digital image/volume correlation (DIC/DVC) | Finite element method (FEM) | Fluid-structural interaction (FSI) | Focused ultrasound/high intensity focused ultrasound | Hemodynamics | Magnetic resonance imaging (MRI)/dynamic contrast enhanced (DCE)/intravoxel incoherent motion (IVIM) | Mechanical/structural analysis | Medical imaging analysis | Optical coherence tomography (OCT) | Stress/strain analysis | Ultrasound imaging

Accreditation and Certificate

2025

Fellow of Higher Education (FHEA), AdvanceHE, York, United Kingdom

Award

2021

Roland Bishop Award for Biomedical Engineering Research, *Queensland University of Technology (QUT)*, Brisbane, Australia

2021

Executive Dean's Commendation for Outstanding Doctoral Thesis Award, *Science and Engineering Faculty (SEF), QUT*, Brisbane, Australia

2020

Faculty Write Up (FWU) Scholarship, *SEF, QUT*, Brisbane, Australia

2016

PhD Scholarship, *QUT*, Brisbane, Australia

2014

MSc Overseas Scholarship, *University of Dundee*, Dundee, United Kingdom

2014

Excellent Graduate, *College of Power Engineering, Chongqing University (CQU)*, Chongqing, China

2014

Comprehensive Scholarship, *College of Power Engineering, CQU*, Chongqing, China

2013

Comprehensive Scholarship, *College of Power Engineering, CQU*, Chongqing, China

2013

Excellent Student, *College of Power Engineering, CQU*, Chongqing, China

2013

Fastest-improved Student, *College of Power Engineering, CQU*, Chongqing, China

Grant

2025

TPCH Foundation & QUT Centre for Biomedical Technologies Seed Grant, The Prince Charles Hospital Foundation, Brisbane, Australia

Quantitative Assessment of Coronary Blood Flow Alterations Due to Aortic Stenosis
Grant No. CBT2025-04 (*Associate Investigator, 1 year, AUD 12,012.70*)

2024

Expanding Global and National Reach Funding, London South Bank University, London, United Kingdom

Clinical Translation of Computational Patient-specific Blood Flow Assessment
(*Sole Applicant, 7 months, GBP 5,804*)

2024

Springboard Funding, London South Bank University, London, United Kingdom

Performance of Digital Volume Correlation Algorithm in Medical Imaging Analysis
(*Sole Applicant, 7 months, GBP 3,150*)

2022

Industry Early/Mid Career Researcher (ECR/MCR) Grant, Centre for Biomedical Technologies, Queensland University of Technology, Brisbane, Australia

Advanced optical coherence tomography-based elastography (OCE) algorithm designed for strain field mapping of soft tissue
(*Sole Investigator, 1 year, AUD 20,000*)

2021

ECR Grant, Queensland University of Technology, Brisbane, Australia

The prototype development of the polarization-based optical coherence tomographic (OCT) biomechanical test system and its application on the mechanical test of multi-component plaque tissue
(*Sole Investigator, 1 year, AUD 20,000*)

2019

New Investigator Grants, The Prince Charles Hospital Foundation, Brisbane, Australia

Study of plaque rupture and erosion with an optical coherence tomography (OCT)-based patient-specific coronary model and fluid-structure interaction (FSI) simulation
Grant No. NI2019-19 (*Sole Investigator, 1 year, AUD 9,998.35*)

Service

Editorship

2024 **Review Editor**, *Frontiers in Bioengineering and Biotechnology*
Research Topic Motion Tracking and Deformation Analysis in Biomechanics
(*Leading Guest Associate Editor*)

2024 **Guest Associate Editor**, *Frontiers in Stroke*
Research Topic Fluid-structural Interactive Modeling of Vascular Mechanics and Cerebral Hemodynamics
(*Leading Guest Associate Editor*)

Journal Review

Acta Biomaterialia
Biomechanics and Modeling in Mechanobiology
BioMedical Engineering OnLine
BMC Cardiovascular Disorders
Clinical and Translational Medicine
Clinical Neurology and Neurosurgery
Cogent Engineering
Computer Methods In Biomechanics & Bio Engineering
Frontiers in Bioengineering and Biotechnology
Frontiers in Neurology
Frontiers in Physiology
International Journal for Numerical Methods in Biomedical Engineering
Journal of Biomechanics
Journal of Cardiothoracic Surgery
Journal of Clinical Medicine
Medical Physics
npj Cardiovascular Health
PeerJ
Scientific Reports

Committee Role

2024 **Member of the Technical Program Committees**, *The 5th International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD 2024)*, Manchester, United Kingdom

2022 **Organizing Committee Member**, *2022 Conference on Integration of Data Science, Information Management and Digital Technology into Health and Medical Research Beijing International Frontier Science Dialogue*, Gold Coast, QLD, Australia

2022 **Session Moderator**, *9th World Congress of Biomechanics (WCB 2022)*, Taipei, Taiwan, China

2021 **Scientific Review**, *EU Partnership For Advanced Computing in Europe (PRACE) 24th Call for Project*

2021 **Panel Review**, *26th Congress of the European Society of Biomechanics*, Milan, Italy

2018 **Editorial Panel, Session Co-chair**, *Global Congress on Manufacturing and Management (GCM)*, Brisbane, QLD, Australia

Conference

07/2022

9th World Congress of Biomechanics (WCB 2022), Taipei, Taiwan, China

Oral Presentation *Optical coherence elastography based on inverse compositional Gauss-Newton digital volume correlation with second-shape function*

Poster Presentation *Haemodynamic Analysis of Patient-specific Coronary with Non-linear Cyclic Bending Achieved by Fluid-structure Interactive Model*

05/2022

2022 Annual Meeting International Society for Magnetic Resonance in Medicine (ISMRM), London, United Kingdom

Digital Poster Online Presentation *Mathematically Constrained Intravoxel Incoherent Motion (IVIM)*

09/2019

2019 The Australian Vascular Biology Society (AVBS) Scientific Meeting, Sydney, NSW, Australia

Poster Presentation *Carotid Bifurcation with Tandem Stenosis – A Patient-specific Case Study Combined Imaging, Histology and Computational Simulation*

08/2019

Nature Biomimetics in Bioengineering 2019, Brisbane, QLD, Australia

Poster Presentation *OCT-based 3D Patient-specific Coronary Reconstruction and FSI Simulation*

03/2019

Inaugural Herston Biofabrication Institute Conference, Brisbane, QLD, Australia

Poster Presentation *Optical Coherence Tomography (OCT)-Based Patient-Specific Coronary Artery Reconstruction and Fluid-Structure Interaction (FSI) Simulation*

12/2018

Global Congress on Manufacturing and Management (GCMM), Brisbane, QLD, Australia

Oral Presentation *OCT-based 3D Patient-specific Coronary Reconstruction for Fluid-structure Interaction (FSI) Simulation*

11/2018

2018 The Australian Vascular Biology Society (AVBS) Scientific Meeting, Adelaide, SA, Australia

Oral Presentation *OCT-based 3D Patient-specific Coronary Reconstruction and Fluid-structure Interaction (FSI) Simulation*

10/2015

2015 IEEE International Ultrasonics Symposium (IUS), Taipei, Taiwan, China

Poster Presentation *Thiel Soft Embalmed Porcine Kidney Perfusion Model for Focused Ultrasound Therapy*

06/2015

23rd Congress of the European Association of Endoscopic Surgery (EAES), Bucharest, Romania

Poster Presentation *Robotic Assisted Ultrasound Guided HIFU*

Publication

Metrics

G Google Scholar Citations **427** (**413** in 5-year) | H-index **12** (**11** in 5-year) | i10-index **13** (**13** in 5-year)

2025

📄 IF 4.3 (2023) Wei, L., Hu, K., **Wang, J.**, Zhang, S., Yang, X., Chen, Y., Li, C., Lu, X., Ye, K., Qiu, P. and
📄 JCR / SJR Q1 Zhan, Y., 2025. Validation of the Efficacy of the Porous Medium Model in Hemodynamic Analysis of Iliac Vein Compression Syndrome. *Frontiers in Bioengineering and Biotechnology*, 12, p.1481336.

10.3389/fbioe.2024.1481336

📄 IF 3.8 (2023) Zhu, Z., **Wang, J.**, Wu, H., Chen, M., Wang, Z., Fang, R., Huang, X., Xie, H., Yu, H., Tian, Y. and Li, Z., 2025. Performance Test of Digital Volume Correlation on Tracking Left Atrium Motion from Cardiac CT. *Acta Mechanica Sinica*.

10.1007/s10409-024-24216-x

2024

👤 **First Author** **Wang, J.***, Wu, H., Zhu, Z., Xie, H., Yu, H., Huang, Q., Xiang, Y., Paritala, P.K.,
✉ **Co-Corresponding** Mendieta, J.B., Anbananthan, H., Catano, J.A.A., Fang R., Wang, L. and Li, Z., 2024.
📄 IF 3.4 (2023) Impact of Speckle Deformability on Digital Imaging Correlation. *IEEE Access*, 12,
📄 JCR Q2 | SJR Q1 p.66466.

10.1109/ACCESS.2024.3398786

📄 IF 4.9 (2023) Fang, R., Wang, Z., **Wang, J.**, Gu, J., Yin, G., Chen, Q., Xia, X. and Li, Z., 2024.
📄 JCR / SJR Q1 Patient-specific pulmonary venous flow characterization and its impact on left atrial appendage thrombosis in atrial fibrillation patients. *Computer Methods and Programs in Biomedicine*, p.108428.

10.1016/j.cmpb.2024.108428

📄 IF 4.9 (2023) Xie, H., Wu, H., **Wang, J.**, Mendieta, J.B., Yu, H., Xiang, Y., Anbananthan, H., Zhang, J., Zhao, H., Zhu, Z., Huang, Q., Fang, R., Zhu C. and Li, Z., 2024. Constrained Estimation of Intracranial Aneurysm Surface Deformation using 4D-CTA. *Computer Methods and Programs in Biomedicine*, 244, p.107975.

10.1016/j.cmpb.2023.107975

📄 IF 2.4 (2023) Xie, H., Yu, H., Wu, H., **Wang, J.**, Wu, S., Zhang, J., Zhao, H., Yuan, M., Mendieta, J.B.,
📄 JCR Q3 | SJR Q1 Anbananthan, H., Winter, C., Zhu, C. and Li, Z., 2024. Quantifying irregular pulsation of intracranial aneurysms using 4D-CTA. *Journal of Biomechanics*, p.112269.

10.1016/j.jbiomech.2024.112269













📄 IF 2.4 (2023) Yu, H., Wang, Z., Wu, H., Zhu, Z., **Wang, J.**, Fang, R., Wu, S., Xie, H., Huang, X.,
📄 JCR Q3 | SJR Q1 Mendieta, J.B., Anbananthan, H. and Li, Z., 2024. In-vivo left atrial surface motion and strain measurement using novel mesh regularized image block matching method with 4D-CTA. *Journal of Biomechanics*, p.112354.

10.1016/j.jbiomech.2024.112354










2023

👤 **First Author** **Wang, J.***, Zietal, R., Arase, A., Couzens, G., Pivonka, P. and Fontanarosa, D., 2023.
✉ **Co-Corresponding** Computer-assisted pre-operative automatic segmentation and registration tool for malunited radius osteotomy: A proof-of-concept study. *Results in Engineering*, 19,
📄 IF 6.0 (2023) p.101295.

10.1016/j.rineng.2023.101295

-  **First Author** **Wang, J.***, Fang, R., Wu, H., Xiang, Y., Mendieta, J.B., Paritala, P.K., Fan, Z., Anbananthan, H., Amaya Catano, J.A., Raffel, O.C. and Li, Z., 2023. Impact of cyclic bending on coronary hemodynamics. *Biomechanics and Modeling in Mechanobiology*, 22, 729–738.
10.1007/s10237-022-01677-z
-  **Co-Corresponding**  IF 3.0 (2023)
 JCR Q2 | SJR Q1
-  IF 13.9 (2023)
 JCR / SJR Q1
- Tukova, A., Nie, Y., Tavakkoli Yarak, M., Tran, N.T., **Wang, J.**, Rodger, A., Gu, Y. and Wang, Y., 2023. Shape dependent protein-induced stabilization of gold nanoparticles: From a protein corona perspective. *Aggregate*, p.e323.
10.1002/agt2.323
-  IF 4.9 (2023)
 JCR / SJR Q1
- Mendieta, J.B., Fontanarosa, D., **Wang, J.**, Paritala, P.K., Muller, J., Lloyd, T. and Li, Z., 2023. MRI-based mechanical analysis of carotid atherosclerotic plaque using a material-property-mapping approach: A material-property-mapping method for plaque stress analysis. *Computer Methods and Programs in Biomedicine*, p.107417.
10.1016/j.cmpb.2023.107417
-  IF 3.8 (2023)
 JCR / SJR Q1
- Paritala, P.K., Anbananthan, H., Hautaniemi, J., Smith, M., George, A., Allenby, M., Mendieta, J.B., **Wang, J.**, Maclachlan, L., Liang, E., Prior, M., Yarlagadda, P.K, Winter, C. and Li, Z., 2023. Reproducibility of the computational fluid dynamic analysis of a cerebral aneurysm monitored over a decade. *Scientific Reports*, 13(1), pp.1-12.
10.1038/s41598-022-27354-w
-  IF 2.4 (2023)
 JCR Q2 | SJR Q1
- Xiang, Y., Mendieta, J.B., **Wang, J.**, Paritala, P.K., Anbananthan, H., Catano, J.A.A., Fontanarosa, D., Yarlagadda, P. and Li, Z., 2023. Differences in Carotid Artery Geometry and Flow Caused by Body Postural Changes and Physical Exercise. *Ultrasound in Medicine & Biology*, 49(3), pp.820-830.
10.1016/j.ultrasmedbio.2022.11.009

2022

-  **Co-First Author**  IF 3.8 (2022)
 JCR Q2 / SJR Q1
- Wu, H., **Wang, J.**, Catano, J., Sun, C. and Li, Z., 2022. Optical coherence elastography based on inverse compositional Gauss-Newton digital volume correlation with second-order shape function. *Optics Express*, 30, 41954-41968.
10.1364/OE.473898
-  **Equal Contributor**
 **Proceeding**
- Benitez Mendieta, J., Paritala, P.K., **Wang, J.** and Li, Z., 2022. Imaging-Based Patient-Specific Biomechanical Evaluation of Atherosclerosis and Aneurysm: A Comparison Between Structural-Only, Fluid-Only and Fluid–Structure Interaction Analysis. In *International Conference on Medical Image Computing and Computer-Assisted Intervention* (pp. 53-74). Springer, Cham.
10.1007/978-3-031-09327-2_4
-  IF 7.7 (2022)
 JCR / SJR Q1
- Fang, R., Wang, Z., Zhao, X., Wang, J., Li, Y., Zhang, Y., Chen, Q., **Wang, J.**, Liu, Q., Chen, M. and Li, Z., 2022. Stroke risk evaluation for patients with atrial fibrillation: Insights from left atrial appendage with fluid-structure interaction analysis. *Computers in Biology and Medicine*, 148, p.105897.
10.1016/j.combiomed.2022.105897
-  IF 4.7 (2022)
 JCR / SJR Q1
- Xiang, Y., Huang, X., Benitez Mendieta, J., **Wang, J.**, Paritala, P.K., Lloyd, T. and Li, Z., 2022. The Need to Shift from Morphological to Structural Assessment for Carotid Plaque Vulnerability. *Biomedicines*, 10(12), p.3038.
10.3390/biomedicines10123038

📄 IF 3.0 (2022) Gao, W., Xiao, L., **Wang, J.**, Mu, Y., Mendhi, J., Gao, W., Li, Z., Yarlagadda, P., Wu, R. and Xiao, Y., 2022. The hollow porous sphere cell carrier for the dynamic 3D cell culture. *Tissue Engineering, Part C: Methods*, 2022 28:11, 610-622.
📄 JCR Q3 | SJR Q2
10.1089/ten.TEC.2022.0137

📄 IF 2.9 (2022) Xia, K., Zhan, H., Shao, J., **Wang, J.**, Zheng, Z., Zhang, X. and Li, Z., 2022. Atomistic Investigation of Titanium Carbide Ti8C5 under Impact Loading. *Metals*, 12(11), p.1989.
📄 JCR Q2 | SJR Q1
10.3390/met12111989

📄 IF 2.4 (2022) Wang, L., **Wang, J.**, Chen, Q., Li, Q., Mendieta, J.B. and Li, Z., 2022. How getting twisted in scaffold design can promote bone regeneration: A fluid-structure interaction evaluation. *Journal of Biomechanics*, 145, p.111359.
📄 JCR Q3 | SJR Q1
10.1016/j.jbiomech.2022.111359

2021

👤 **First Author** **Wang, J.**, Mendieta, J.B., Paritala, P.K., Xiang, Y., Raffel, O.C., McGahan, T., Lloyd, T. and Li, Z., 2021. Case Report: Evaluating Biomechanical Risk Factors in Carotid Stenosis by Patient-Specific Fluid-Structural Interaction Biomechanical Analysis. *Cerebrovascular Diseases*, 50(3), pp.262-269.
📄 IF 3.104 (2021)
📄 JCR / SJR Q2
10.1159/000514138

📄 IF 4.219 (2021) Benitez, J., Fontanarosa, D., **Wang, J.**, Paritala, P.K., McGahan, T., Lloyd, T. and Li, Z., 2021. Evaluating the impact of calcification on plaque vulnerability from the aspect of mechanical interaction between blood flow and artery based on MRI. *Annals of Biomedical Engineering*, 49(4), pp.1169-1182.
📄 JCR / SJR Q2
10.1007/s10439-020-02655-1

📄 IF 3.104 (2021) Paritala, P.K., Yarlagadda, T., Mendieta, J.B., **Wang, J.**, McGahan, T., Lloyd, T., Yarlagadda, P.K. and Li, Z., 2021. Plaque Longitudinal Heterogeneity in Morphology, Property, and Mechanobiology. *Cerebrovascular Diseases*, 50(5), pp.510-519.
📄 JCR / SJR Q2
10.1159/000515690







📄 IF 2.356 (2021) Wei, L., **Wang, J.**, Chen, Q. and Li, Z., 2021. Impact of stent malapposition on intracoronary flow dynamics: An optical coherence tomography-based patient-specific study. *Medical Engineering & Physics*, 94, pp.26-32.
📄 JCR Q3 | SJR Q2
10.1016/j.medengphy.2021.06.002

📄 SJR Q4 (2021) Zhao, Y.C., Vatankhah, P., Goh, T., **Wang, J.**, Chen, X.V., Kashani, M.N., Zheng, K., Li, Z. and Ju, L.A., 2021. Computational fluid dynamics simulations at micro-scale stenosis for microfluidic thrombosis model characterization. *MCB Molecular and Cellular Biomechanics*, 18(1), pp.1-10.
10.32604/mcb.2021.012598










2020

👤 **First Author** **Wang, J.**, Paritala, P.K., Mendieta, J.B., Komori, Y., Raffel, O.C., Gu, Y. and Li, Z., 2020. Optical coherence tomography-based patient-specific coronary artery reconstruction and fluid-structure interaction simulation. *Biomechanics and Modeling in Mechanobiology*, 19(1), pp.7-20.
📄 IF 2.963 (2020)
📄 JCR Q3 | SJR Q1
10.1007/s10237-019-01191-9




📄 IF 5.890 (2020) He, C., Li, Z., **Wang, J.**, Huang, Y., Yin, Y. and Li, Z., 2020. Atherosclerotic plaque tissue characterization: an OCT-based machine learning algorithm with ex vivo validation. *Frontiers in Bioengineering and Biotechnology*, 8, p.749.
📄 JCR / SJR Q1
10.3389/fbioe.2020.00749

-  IF **5.890** (2020) Paritala, P.K., Yarlagadda, P.K., Kansky, R., **Wang, J.**, Mendieta, J.B., Gu, Y., McGahan, T., Lloyd, T. and Li, Z., 2020. Stress-relaxation and cyclic behavior of human carotid plaque tissue. *Frontiers in Bioengineering and Biotechnology*, 8, p.60.
 JCR / SJR **Q1**
[10.3389/fbioe.2020.00060](https://doi.org/10.3389/fbioe.2020.00060)
-  IF **3.170** (2020) He, C., **Wang, J.**, Yin, Y. and Li, Z., 2020. Automated classification of coronary plaque calcification in OCT pullbacks with 3D deep neural networks. *Journal of Biomedical Optics*, 25(9), p.095003.
 JCR **Q2** | SJR **Q1**
[10.1117/1.JBO.25.9.095003](https://doi.org/10.1117/1.JBO.25.9.095003)
-  IF **2.963** (2020) Mendieta, J.B., Fontanarosa, D., **Wang, J.**, Paritala, P.K., McGahan, T., Lloyd, T. and Li, Z., 2020. The importance of blood rheology in patient-specific computational fluid dynamics simulation of stenotic carotid arteries. *Biomechanics and Modeling in Mechanobiology*, 19(5), pp.1477-1490.
 JCR **Q3** | SJR **Q1**
[10.1007/s10237-019-01282-7](https://doi.org/10.1007/s10237-019-01282-7)
- Paritala, P.K., Yarlagadda, T., Benitez Mendieta, J., **Wang, J.**, Gu, Y., Li, Z. and Yarlagadda, P.K., 2020. Characterization of the atherosclerotic plaque tissue. *Advanced Materials Letters*, 11(5).
[10.5185/amllett.2020.051507](https://doi.org/10.5185/amllett.2020.051507)

2019

-  **First Author** **Wang, J.**, Paritala, P.K., Mendieta, J.B., Gu, Y., Raffel, O.C., McGahan, T., Lloyd, T. and Li, Z., 2019. Carotid bifurcation with tandem stenosis—A patient-specific case study combined *in vivo* imaging, *in vitro* histology and *in silico* simulation. *Frontiers in Bioengineering and Biotechnology*, 7, p.349.
 IF **3.644** (2019)
 JCR / SJR **Q2**
[10.3389/fbioe.2019.00349](https://doi.org/10.3389/fbioe.2019.00349)
-  **First Author** **Wang, J.***, Xiao, X., Huang, Z. and Melzer, A., 2019. 3D-printing based Transducer Holder for Robotic Assisted Ultrasound Guided HIFU. *Procedia Manufacturing*, 30, pp.3-10.
 **Corresponding**
 **Proceeding**
 SJR **Q2** (2019)
[10.1016/j.promfg.2019.02.002](https://doi.org/10.1016/j.promfg.2019.02.002)
-  **Proceeding** Paritala, P.K., Yarlagadda, T., **Wang, J.**, Gu, Y.T. and Li, Z., 2019. Prediction of atherosclerotic plaque life—Perceptions from fatigue analysis. *Procedia Manufacturing*, 30, pp.522-529.
 SJR **Q2** (2019)
[10.1016/j.promfg.2019.02.073](https://doi.org/10.1016/j.promfg.2019.02.073)

2018

-  IF **2.908** (2018) Paritala, P.K., Yarlagadda, P.K., **Wang, J.**, Gu, Y. and Li, Z., 2018. Numerical investigation of atherosclerotic plaque rupture using optical coherence tomography imaging and XFEM. *Engineering Fracture Mechanics*, 204, pp.531-541.
 JCR / SJR **Q1**
[10.1016/j.engfracmech.2018.11.002](https://doi.org/10.1016/j.engfracmech.2018.11.002)
-  SJR **Q4** (2018) Huang, Y., He, C., **Wang, J.**, Miao, Y., Zhu, T., Zhou, P. and Li, Z., 2018. Intravascular optical coherence tomography image segmentation based on support vector machine algorithm. *MCB Molecular and Cellular Biomechanics*, 15(2), pp.117-125.
[10.3970/mcb.2018.02478](https://doi.org/10.3970/mcb.2018.02478)

2017

- IF 3.771 (2017) Aamir, M., Qiang, L., Hong, W., Xun, Z., **Wang, J.** and Sajid, M., 2017. Transient heat transfer performance of stainless steel structured surfaces combined with air-water spray evaporative cooling at high temperature scenarios. *Applied Thermal Engineering*, 115, pp.418-434.
10.1016/j.applthermaleng.2016.12.126

2016

- SJR Q3 (2016) He, C., **Wang, J.**, Huang, Y., Zhu, T., Miao, Y. and Li, Z., 2016. The correlation between texture features and fibrous cap thickness of lipid-rich atheroma based on optical coherence tomography imaging. *MCB Molecular and Cellular Biomechanics*, 13(1), pp.23-36.
10.3970/mcb.2016.013.027

2015

- First Author** **Wang, J.**, Xiao, X., Duncan, R., Karakitsios, I., Huang, Z., Mcleod, H. and Melzer, A., 2015, October. Thiel soft embalmed Porcine Kidney Perfusion Model for focused ultrasound therapy. In *2015 IEEE International Ultrasonics Symposium (IUS)* (pp. 1-4). IEEE.
Proceeding
10.1109/ULTSYM.2015.0506