

# Wen-tao Jiang

## List of Publications by Year in descending order

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59  
papers

485  
citations

759055

12  
h-index

752573

20  
g-index

71  
all docs

71  
docs citations

71  
times ranked

524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations on the interactions between basal edge dislocation and point defects in magnesium at low temperature. Nuclear Instruments & Methods in Physics Research B, 2022, 510, 20-28.	0.6	2
2	Strengthening/softening effects of vacancies on twinning deformation in zirconium. Journal of Nuclear Materials, 2022, 560, 153507.	1.3	5
3	Interaction between $\langle 111 \rangle$ dislocation loop and $\langle 111 \rangle$ grain boundary in magnesium. Nuclear Instruments & Methods in Physics Research B, 2022, 560, 153405.	1.3	3
4	Atomistic migration mechanisms of $\langle 111 \rangle$ grain boundary in magnesium. International Journal of Plasticity, 2022, 156, 103362.	4.1	12
5	Formation of stacking fault pyramid in zirconium. Computational Materials Science, 2022, 212, 111591.	1.4	0
6	Non-amputated limb muscle coordination of unilateral transfemoral amputees. Journal of Biomechanics, 2021, 115, 110155.	0.9	2
7	Acute and short-term efficacy of sauna treatment on cardiovascular function: A meta-analysis. European Journal of Cardiovascular Nursing, 2021, 20, 96-105.	0.4	9
8	An Optical Method for Immediate Evaluation of Microfoam Stability in Foam Sclerotherapy. Skin Pharmacology and Physiology, 2021, 34, 128-134.	1.1	0
9	Acute Hemodynamic Improvement by Thermal Vasodilation inside the Abdominal and Iliac Arterial Segments of Young Sedentary Individuals. Journal of Vascular Research, 2021, 58, 191-206.	0.6	0
10	Interactions between twin boundary and point defects in magnesium at low temperature. Journal of Materials Research, 2021, 36, 2639-2650.	1.2	5
11	Nonlinear forced vibration of rotating composite laminated cylindrical shells under hygrothermal environment. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 769-786.	0.7	1
12	Acute and short-term efficacy of sauna treatment on cardiovascular function: a meta-analysis: reply. European Journal of Cardiovascular Nursing, 2021, 20, 730-730.	0.4	0
13	Segmentary strategy in modeling of cardiovascular system with blood supply to regional skin. Biocybernetics and Biomedical Engineering, 2021, 41, 1505-1517.	3.3	3
14	Numerical study on the effects of liquid parameters on sclerosing foam coalescence. Meccanica, 2021, 56, 2789-2798.	1.2	1
15	Clinical and hemodynamic insights into the use of internal iliac artery balloon occlusion as a prophylactic technique for treating postpartum hemorrhage. Journal of Biomechanics, 2021, 129, 110827.	0.9	3
16	Numerical insights into the determinants of stent performance for the management of aneurysm with a visceral vessel attached. Acta of Bioengineering and Biomechanics, 2021, 23, 41-53.	0.2	0
17	Experimental and Numerical Simulation of Biodegradable Stents with Different Strut Geometries. Cardiovascular Engineering and Technology, 2020, 11, 36-46.	0.7	20
18	Interaction between a $\langle 111 \rangle$ dislocation loop and $\langle 111 \rangle$ grain boundary in magnesium. International Journal of Plasticity, 2020, 126, 102613.	4.1	32

#	ARTICLE	IF	CITATIONS
19	Effects of vacancy defects on electronic properties of 2D group-IV Tellurides (XTe, X = Si, Ge, Sn and Tl). <i>Journal of Applied Physics</i> , 2020, 123, 104301.	1.4	3
20	A Review of Sclerosing Foam Stability in the Treatment of Varicose Veins. <i>Dermatologic Surgery</i> , 2020, 46, 249-257.	0.4	9
21	Nonsymmorphic nodal-line metals in the two-dimensional rare earth monochalcogenides MX (M = Sc, Y; X = S, Se, Te). <i>Journal of Applied Physics</i> , 2020, 123, 104302.	1.7	7
22	Strain-induced vortex domain structure in Nano-crystalline ferroelectric. <i>Ferroelectrics</i> , 2020, 568, 71-78.	0.3	0
23	Lower Limb Inter-Joint Coordination of Unilateral Transfemoral Amputees: Implications for Adaptation Control. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4072.	1.3	12
24	Theoretical design of SnTe/GeS lateral heterostructures: A first-principles study. <i>Physica B: Condensed Matter</i> , 2020, 583, 412047.	1.3	8
25	Hemodynamics and Oxygen Transport through Pararenal Aortic Aneurysm Treated with Multilayer Stent: A Numerical Study. <i>Annals of Vascular Surgery</i> , 2019, 54, 290-297.	0.4	5
26	A comparison of different surfactants on foam stability in foam sclerotherapy in vitro. <i>Journal of Vascular Surgery</i> , 2019, 69, 581-591.e1.	0.6	15
27	Strain Effect Of Band Gap In SnTe Monolayer. , 2019, , .		0
28	SnTe monolayer: Tuning its electronic properties with doping. <i>Superlattices and Microstructures</i> , 2019, 130, 12-19.	1.4	8
29	Effect of Solute Atoms on the Twinning Deformation in Magnesium Alloys. <i>Minerals, Metals and Materials Series</i> , 2019, , 227-230.	0.3	1
30	Quantitative detection method for icing of horizontal-axis wind turbines. <i>Wind Energy</i> , 2019, 22, 433-446.	1.9	3
31	Fluid-Solid Interaction Analysis on Iliac Bifurcation Artery: A Numerical Study. <i>International Journal of Computational Methods</i> , 2019, 16, 1850112.	0.8	6
32	Developing transmission line equations of oxygen transport for predicting oxygen distribution in the arterial system. <i>Scientific Reports</i> , 2018, 8, 5369.	1.6	5
33	Studies on Foam Decay Trend and Influence of Temperature Jump on Foam Stability in Sclerotherapy. <i>Vascular and Endovascular Surgery</i> , 2018, 52, 98-106.	0.3	14
34	Influence of Syringe Volume on Foam Stability in Sclerotherapy for Varicose Vein Treatment. <i>Dermatologic Surgery</i> , 2018, 44, 689-696.	0.4	12
35	Effect of Multiple Factors on Foam Stability in Foam Sclerotherapy. <i>Scientific Reports</i> , 2018, 8, 15683.	1.6	23
36	Blood Flow and Oxygen Transport in Descending Branch of Lateral Femoral Circumflex Arteries After Transfemoral Amputation: A Numerical Study. <i>Journal of Medical and Biological Engineering</i> , 2017, 37, 63-73.	1.0	5

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37	Lattice scale study of the interaction between the vortex and anti-vortex polarization domain. , 2017, ,		0
38	Numerical simulation on the effects of drug-eluting stents with different bending angles on hemodynamics and drug distribution. Medical and Biological Engineering and Computing, 2016, 54, 1859-1870.	1.6	9
39	Hemodynamics study of a multilayer stent for the treatment of aneurysms. BioMedical Engineering OnLine, 2016, 15, 134.	1.3	3
40	The Spatial Structure Changes of Thigh Arterial Trees After Transfemoral Amputation: Case Studies. Journal of Medical Imaging and Health Informatics, 2016, 6, 688-692.	0.2	0
41	NUMERICAL SIMULATION ON THE EFFECTS OF DRUG RELEASE POSITIONS IN HEPATIC PORTAL VEIN FOR TARGETING THERAPY. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550038.	0.3	2
42	Numerical investigation of haemodynamics in a helical-type artery bypass graft using non-Newtonian multiphase model. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 760-768.	0.9	20
43	Numerical simulation on the effects of drug eluting stents at different Reynolds numbers on hemodynamic and drug concentration distribution. BioMedical Engineering OnLine, 2015, 14, S16.	1.3	8
44	THE CREATIVE INVESTIGATION OF BRAIN ACTIVITY WITH EEG FOR GENDER AND LEFT/RIGHT-HANDED DIFFERENCES. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550054.	0.3	2
45	REVIEW: HEMODYNAMIC STUDIES FOR LOWER LIMB AMPUTATION AND REHABILITATION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1530005.	0.3	2
46	Experimental Analysis of the 3D Flow Field of a Virtual Stent Using Particle Image Velocimetry. Journal of Biomaterials and Tissue Engineering, 2015, 5, 16-23.	0.0	1
47	NUMERICAL STUDY ON THE EFFECTS OF THE NUMBER AND GEOMETRIES OF DRUG-ELUTING STENT LINKS ON THE DRUG CONCENTRATION. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450077.	0.3	0
48	Numerical investigation of oxygen mass transfer in a helical-type artery bypass graft. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 549-559.	0.9	12
49	Numerical Simulation of Compliant Artery Bypass Grafts Using Fluid-Structure Interaction Framework. ASAIO Journal, 2014, 60, 533-540.	0.9	10
50	Finite Element Analysis of the Effect of Mastication on Endochondral Ossification During the Consolidation Period of Mandibular Distraction Osteogenesis. Arabian Journal for Science and Engineering, 2014, 39, 7223-7228.	1.1	1
51	NUMERICAL SIMULATION ON THE EFFECTS OF DRUG-ELUTING STENTS WITH DIFFERENT LINKS ON HEMODYNAMICS AND DRUG CONCENTRATION DISTRIBUTION. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350070.	0.3	4
52	NUMERICAL INVESTIGATION OF PULSATILE FLOW IN AN S-TYPE BYPASS GRAFT. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250002.	0.3	0
53	ASSESSING HEMODYNAMIC PERFORMANCES OF SMALL DIAMETER HELICAL GRAFTS: TRANSIENT SIMULATION. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250008.	0.3	6
54	A Comparative Study of Helical-Type and Traditional-Type Artery Bypass Grafts: Numerical Simulation. ASAIO Journal, 2011, 57, 399-406.	0.9	33

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55	Three-Dimensional Finite Element Analysis of Mechanical Stress in Symphyseal Fractured Human Mandible Reduced With Miniplates During Mastication. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010, 68, 1585-1592.	0.5	14
56	Numerical simulation of pulsatile non-Newtonian flow in the carotid artery bifurcation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009, 25, 249-255.	1.5	40
57	Hemodynamic Performance Study on Small Diameter Helical Grafts. <i>ASAIO Journal</i> , 2009, 55, 192-199.	0.9	33
58	An S-type bypass can improve the hemodynamics in the bypassed arteries and suppress intimal hyperplasia along the host artery floor. <i>Journal of Biomechanics</i> , 2008, 41, 2498-2505.	0.9	47
59	Decomposition of $\langle c \rangle + \langle a \rangle$ Dislocations in Magnesium Alloys. <i>Acta Mechanica Solida Sinica</i> , 0, , 1.	1.0	1