

Wei Tan

List of Publications by Year in descending order

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109
papers

3,778
citations

94433

37
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149698

56
g-index

112
all docs

112
docs citations

112
times ranked

3897
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Solid-phase impregnation promotes Ce doping in TiO ₂ for boosted denitration of CeO ₂ /TiO ₂ catalysts. Chinese Chemical Letters, 2022, 33, 935-938. | 9.0 | 15 |
| 2 | Molybdenum oxide as an efficient promoter to enhance the NH ₃ -SCR performance of CeO ₂ -SiO ₂ catalyst for NO removal. Catalysis Today, 2022, 397-399, 475-483. | 4.4 | 19 |
| 3 | Enhancing low-temperature NH ₃ -SCR performance of Fe-Mn/CeO ₂ catalyst by Al ₂ O ₃ modification. Journal of Rare Earths, 2022, 40, 1454-1461. | 4.8 | 26 |
| 4 | Fatigue crack growth and life prediction of 7075-T62 aluminium-alloy thin-sheets with low-velocity impact damage under block spectrum loading. International Journal of Fatigue, 2022, 155, 106618. | 5.7 | 7 |
| 5 | Copper Single Atom-Triggered Niobia-Ceria Catalyst for Efficient Low-Temperature Reduction of Nitrogen Oxides. ACS Catalysis, 2022, 12, 2441-2453. | 11.2 | 48 |
| 6 | Applying Principles of Regenerative Medicine to Vascular Stent Development. Frontiers in Bioengineering and Biotechnology, 2022, 10, 826807. | 4.1 | 3 |
| 7 | Multi-modal brain image fusion based on multi-level edge-preserving filtering. Biomedical Signal Processing and Control, 2021, 64, 102280. | 5.7 | 57 |
| 8 | A crystal plasticity phenomenological model to capture the non-linear shear response of carbon fibre reinforced composites. International Journal of Lightweight Materials and Manufacture, 2021, 4, 99-109. | 2.1 | 5 |
| 9 | Insight into the SO ₂ resistance mechanism on γ -Fe ₂ O ₃ catalyst in NH ₃ -SCR reaction: A collaborated experimental and DFT study. Applied Catalysis B: Environmental, 2021, 281, 119544. | 20.2 | 107 |
| 10 | Phase field predictions of microscopic fracture and R-curve behaviour of fibre-reinforced composites. Composites Science and Technology, 2021, 202, 108539. | 7.8 | 55 |
| 11 | Activity enhancement of WO ₃ modified FeTiO catalysts for the selective catalytic reduction of NO by NH ₃ . Catalysis Today, 2021, 375, 614-622. | 4.4 | 13 |
| 12 | Visual Attention and Background Subtraction With Adaptive Weight for Hyperspectral Anomaly Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2270-2283. | 4.9 | 20 |
| 13 | Ce-Si Mixed Oxide: A High Sulfur Resistant Catalyst in the NH ₃ -SCR Reaction through the Mechanism-Enhanced Process. Environmental Science & Technology, 2021, 55, 4017-4026. | 10.0 | 66 |
| 14 | Effects of recipient age, heparin release and allogeneic bone marrow-derived stromal cells on vascular graft remodeling. Acta Biomaterialia, 2021, 125, 172-182. | 8.3 | 8 |
| 15 | Highly Active and Stable Palladium Catalysts on Novel Ceria-Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. Environmental Science & Technology, 2021, 55, 7624-7633. | 10.0 | 28 |
| 16 | Revealing the effect of paired redox-acid sites on metal oxide catalysts for efficient NO removal by NH ₃ -SCR. Journal of Hazardous Materials, 2021, 416, 125826. | 12.4 | 43 |
| 17 | Transformation of Highly Stable Pt Single Sites on Defect Engineered Ceria into Robust Pt Clusters for Vehicle Emission Control. Environmental Science & Technology, 2021, 55, 12607-12618. | 10.0 | 21 |
| 18 | The mechanical and electrochemical properties of polyaniline-coated carbon nanotube mat. Journal of Energy Storage, 2021, 41, 102757. | 8.1 | 8 |

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|----|---|------|-----------|
| 19 | Progressive damage modelling and fatigue life prediction of Plain-weave composite laminates with Low-velocity impact damage. <i>Composite Structures</i> , 2021, 273, 114262. | 5.8 | 13 |
| 20 | Highly efficient Pt catalyst on newly designed CeO ₂ -ZrO ₂ -Al ₂ O ₃ support for catalytic removal of pollutants from vehicle exhaust. <i>Chemical Engineering Journal</i> , 2021, 426, 131855. | 12.7 | 30 |
| 21 | The Nail Penetration Behaviour of Carbon Nanotube Composite Electrodes for Energy Storage. <i>Frontiers in Materials</i> , 2021, 8, . | 2.4 | 0 |
| 22 | High-performance flexible strain sensors based on biaxially stretched conductive polymer composites with carbon nanotubes immobilized on reduced graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 151, 106665. | 7.6 | 70 |
| 23 | Vascular Grafts with Tailored Stiffness and a Ligand Environment via Multiarmed Polymer Sheath for Expedient Regeneration. <i>ACS Applied Bio Materials</i> , 2021, 4, 545-558. | 4.6 | 3 |
| 24 | Infrared and visible image fusion via NSCT and gradient domain PCNN. , 2021, , . | | 1 |
| 25 | RGB-IR Cross Input and Sub-Pixel Upsampling Network for Infrared Image Super-Resolution. <i>Sensors</i> , 2020, 20, 281. | 3.8 | 13 |
| 26 | Enhanced low-temperature NH ₃ -SCR performance of CeTiO catalyst via surface Mo modification. <i>Chinese Journal of Catalysis</i> , 2020, 41, 364-373. | 14.0 | 44 |
| 27 | Gas phase sulfation of ceria-zirconia solid solutions for generating highly efficient and SO ₂ resistant NH ₃ -SCR catalysts for NO removal. <i>Journal of Hazardous Materials</i> , 2020, 388, 121729. | 12.4 | 72 |
| 28 | Morphology-Sensitive Sulfation Effect on Ceria Catalysts for NH ₃ -SCR. <i>Topics in Catalysis</i> , 2020, 63, 932-943. | 2.8 | 24 |
| 29 | Tuning Single-atom Pt ₁ ~CeO ₂ Catalyst for Efficient CO and C ₃ H ₆ Oxidation: Size Effect of Ceria on Pt Structural Evolution. <i>ChemNanoMat</i> , 2020, 6, 1797-1805. | 2.8 | 27 |
| 30 | Hyperspectral anomaly detection by local joint subspace process and support vector machine. <i>International Journal of Remote Sensing</i> , 2020, 41, 3798-3819. | 2.9 | 37 |
| 31 | Remote Sensing Image Fusion via Boundary Measured Dual-Channel PCNN in Multi-Scale Morphological Gradient Domain. <i>IEEE Access</i> , 2020, 8, 42540-42549. | 4.2 | 27 |
| 32 | Tethering transforming growth factor β 1 to soft hydrogels guides vascular smooth muscle commitment from human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2020, 105, 68-77. | 8.3 | 11 |
| 33 | The dual effects of ammonium bisulfate on the selective catalytic reduction of NO with NH ₃ over Fe ₂ O ₃ -WO ₃ catalyst confined in MCM-41. <i>Chemical Engineering Journal</i> , 2020, 389, 124271. | 12.7 | 24 |
| 34 | Influence of CeO ₂ loading on structure and catalytic activity for NH ₃ -SCR over TiO ₂ -supported CeO ₂ . <i>Journal of Rare Earths</i> , 2020, 38, 883-890. | 4.8 | 42 |
| 35 | Infrared and visible image fusion via NSST and PCNN in multiscale morphological gradient domain. , 2020, , . | | 9 |
| 36 | Effect of Viscoelasticity on Arterial-Like Pulsatile Flow Dynamics and Energy. <i>Journal of Biomechanical Engineering</i> , 2020, 142, . | 1.3 | 2 |

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|----|--|------|-----------|
| 37 | Infrared and Visual Image Fusion via Multi-modal Decomposition and PCNN in Gradient Domain Fusion Measure. Lecture Notes in Computer Science, 2020, , 322-329. | 1.3 | 2 |
| 38 | A Secure Shard Reconfiguration Protocol for Sharding Blockchains Without a Randomness. , 2020, , . | | 6 |
| 39 | RCA-NET: Image Recovery Network with Channel Attention Group for Image Dehazing. Lecture Notes in Computer Science, 2020, , 330-337. | 1.3 | 2 |
| 40 | Fusion of infrared and visible images through multi-level co-occurrence filtering. , 2020, , . | | 0 |
| 41 | Getting Insights into the Temperature-Specific Active Sites on Platinum Nanoparticles for CO Oxidation: A Combined in Situ Spectroscopic and ab Initio Density Functional Theory Study. ACS Catalysis, 2019, 9, 7759-7768. | 11.2 | 33 |
| 42 | Insights into the precursor effect on the surface structure of γ -Al ₂ O ₃ and NO ⁻ + ⁻ CO catalytic performance of CO-pretreated CuO/MnOx/ γ -Al ₂ O ₃ catalysts. Journal of Colloid and Interface Science, 2019, 554, 611-618. | 9.4 | 15 |
| 43 | Pore Size Expansion Accelerates Ammonium Bisulfate Decomposition for Improved Sulfur Resistance in Low-Temperature NH ₃ -SCR. ACS Applied Materials & Interfaces, 2019, 11, 4900-4907. | 8.0 | 81 |
| 44 | Coaxial PCL/PEG-thiol ^{ene} microfiber with tunable physico-chemical properties for regenerative scaffolds. Biomaterials Science, 2019, 7, 3640-3651. | 5.4 | 13 |
| 45 | Layer-specific arterial micromechanics and microstructure: Influences of age, anatomical location, and processing technique. Journal of Biomechanics, 2019, 88, 113-121. | 2.1 | 11 |
| 46 | The mechanical and electrical properties of direct-spun carbon nanotube mat-epoxy composites. Carbon, 2019, 150, 489-504. | 10.3 | 32 |
| 47 | Coaxially-structured fibres with tailored material properties for vascular graft implant. Materials Science and Engineering C, 2019, 97, 1-11. | 7.3 | 46 |
| 48 | Infrared and visible image perceptive fusion through multi-level Gaussian curvature filtering image decomposition. Applied Optics, 2019, 58, 3064. | 1.8 | 63 |
| 49 | Amplified spontaneous emission based on an excited-state intramolecular-proton-transfer molecule with solid-state-induced emission enhancement. Optical Materials Express, 2019, 9, 1709. | 3.0 | 5 |
| 50 | Infrared polarization image fusion via multi-scale sparse representation and pulse coupled neural network. , 2019, , . | | 3 |
| 51 | Real-time restoration algorithm for sparse aperture image. , 2019, , . | | 0 |
| 52 | Experimental and numerical studies on the impact response of damage-tolerant hybrid unidirectional/woven carbon-fibre reinforced composite laminates. Composites Part B: Engineering, 2018, 136, 101-118. | 12.0 | 137 |
| 53 | Polymer actuators of fluorene derivatives with enhanced inner channels and mechanical performance. Sensors and Actuators B: Chemical, 2018, 255, 791-799. | 7.8 | 13 |
| 54 | Predicting the Compression-After-Impact (CAI) strength of damage-tolerant hybrid unidirectional/woven carbon-fibre reinforced composite laminates. Composites Part A: Applied Science and Manufacturing, 2018, 105, 189-202. | 7.6 | 86 |

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|----|--|------|-----------|
| 55 | Orthogonal programming of heterogeneous micro-mechano-environments and geometries in three-dimensional bio-stereolithography. <i>Nature Communications</i> , 2018, 9, 4096. | 12.8 | 58 |
| 56 | Morphology and Crystal-Plane Effects of CeO ₂ on TiO ₂ /CeO ₂ Catalysts during NH ₃ -SCR Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12407-12419. | 3.7 | 90 |
| 57 | Biomimetic soft fibrous hydrogels for contractile and pharmacologically responsive smooth muscle. <i>Acta Biomaterialia</i> , 2018, 74, 121-130. | 8.3 | 26 |
| 58 | Mo doping as an effective strategy to boost low temperature NH ₃ -SCR performance of CeO ₂ /TiO ₂ catalysts. <i>Catalysis Communications</i> , 2018, 114, 10-14. | 3.3 | 44 |
| 59 | Mechanochemical Effects on Extracellular Signal-Regulated Kinase Dynamics in Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , 2018, 24, 1179-1189. | 3.1 | 2 |
| 60 | Prestrain-free electrostrictive film sandwiched by asymmetric electrodes for out-of-plane actuation. <i>Chemical Engineering Journal</i> , 2018, 352, 876-885. | 12.7 | 8 |
| 61 | Performance of marrow stromal cell-seeded small-caliber multilayered vascular graft in a senescent sheep model. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 055004. | 3.3 | 10 |
| 62 | Fusion of multi-focus images via a Gaussian curvature filter and synthetic focusing degree criterion. <i>Applied Optics</i> , 2018, 57, 10092. | 1.8 | 25 |
| 63 | GPU based real-time enhancement of high resolution image. , 2018, , . | | 0 |
| 64 | Virtual Testing of Composite Structures: Progress and Challenges in Predicting Damage, Residual Strength and Crashworthiness. , 2017, , 699-743. | | 1 |
| 65 | Comment on "A tensorial based progressive damage model for fibre reinforced polymers". <i>Composite Structures</i> , 2017, 176, 877-882. | 5.8 | 19 |
| 66 | High-throughput Screening of Vascular Endothelium-Destructive or Protective Microenvironments: Cooperative Actions of Extracellular Matrix Composition, Stiffness, and Structure. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601426. | 7.6 | 20 |
| 67 | Optimization of curing process for polymer-matrix composites based on orthogonal experimental method. <i>Fibers and Polymers</i> , 2017, 18, 148-154. | 2.1 | 14 |
| 68 | Effect of autoclave pressure on interfacial properties at micro- and macro- level in polymer-matrix composite laminates. <i>Fibers and Polymers</i> , 2017, 18, 1614-1622. | 2.1 | 7 |
| 69 | A photoclickable peptide microarray platform for facile and rapid screening of 3-D tissue microenvironments. <i>Biomaterials</i> , 2017, 143, 17-28. | 11.4 | 26 |
| 70 | Void content and interfacial properties of composite laminates under different autoclave cure pressure. <i>Composite Interfaces</i> , 2017, 24, 529-540. | 2.3 | 29 |
| 71 | Multi-focus image fusion using spatial frequency and discrete wavelet transform. , 2017, , . | | 7 |
| 72 | Self-adaptive histogram equalization image enhancement based on canny operator. , 2017, , . | | 1 |

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|----|---|------|-----------|
| 73 | Predicting Impact Damage, Residual Strength and Crashworthiness of Composite Structures. SAE International Journal of Materials and Manufacturing, 2016, 9, 718-728. | 0.3 | 9 |
| 74 | Copper nanoparticles spaced 3D graphene films for binder-free lithium-storing electrodes. Journal of Materials Chemistry A, 2016, 4, 8466-8477. | 10.3 | 21 |
| 75 | Evaluation of electrospun PLLA/PEGDMA polymer coatings for vascular stent material. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 1086-1099. | 3.5 | 12 |
| 76 | The role of material characterisation in the crush modelling of thermoplastic composite structures. Composite Structures, 2016, 153, 914-927. | 5.8 | 47 |
| 77 | Modelling the crush behaviour of thermoplastic composites. Composites Science and Technology, 2016, 134, 57-71. | 7.8 | 83 |
| 78 | Temporal non-uniformity correction for infrared image based on moment matching. , 2016, , . | | 0 |
| 79 | Influence of chirality on catalytic generation of nitric oxide and platelet behavior on selenocystine immobilized TiO2 films. Colloids and Surfaces B: Biointerfaces, 2016, 145, 122-129. | 5.0 | 20 |
| 80 | Modelling the nonlinear behaviour and fracture process of AS4/PEKK thermoplastic composite under shear loading. Composites Science and Technology, 2016, 126, 60-77. | 7.8 | 71 |
| 81 | Pulmonary Arterial Stiffness: Toward a New Paradigm in Pulmonary Arterial Hypertension Pathophysiology and Assessment. Current Hypertension Reports, 2016, 18, 4. | 3.5 | 51 |
| 82 | Human mesenchymal stem cells cultured on silk hydrogels with variable stiffness and growth factor differentiate into mature smooth muscle cell phenotype. Acta Biomaterialia, 2016, 31, 156-166. | 8.3 | 107 |
| 83 | In Vitro Model of Physiological and Pathological Blood Flow with Application to Investigations of Vascular Cell Remodeling. Journal of Visualized Experiments, 2015, , e53224. | 0.3 | 3 |
| 84 | Predicting the crushing behaviour of composite material using high-fidelity finite element modelling. International Journal of Crashworthiness, 2015, 20, 60-77. | 1.9 | 54 |
| 85 | Three-dimensional, soft neotissue arrays as high throughput platforms for the interrogation of engineered tissue environments. Biomaterials, 2015, 59, 39-52. | 11.4 | 26 |
| 86 | Predicting low velocity impact damage and Compression-After-Impact (CAI) behaviour of composite laminates. Composites Part A: Applied Science and Manufacturing, 2015, 71, 212-226. | 7.6 | 344 |
| 87 | Reverse Adhesion of a Gecko-Inspired Synthetic Adhesive Switched by an Ion-Exchange Polymerâ€Metal Composite Actuator. ACS Applied Materials & Interfaces, 2015, 7, 5480-5487. | 8.0 | 51 |
| 88 | Silk Hydrogels of Tunable Structure and Viscoelastic Properties Using Different Chronological Orders of Genipin and Physical Cross-Linking. ACS Applied Materials & Interfaces, 2015, 7, 12099-12108. | 8.0 | 60 |
| 89 | Highly Compliant Vascular Grafts with Gelatin-Sheathed Coaxially Structured Nanofibers. Langmuir, 2015, 31, 12993-13002. | 3.5 | 72 |
| 90 | Numerical prediction of the low-velocity impact damage and compression after impact strength of composite laminates. IOP Conference Series: Materials Science and Engineering, 2015, 74, 012015. | 0.6 | 1 |

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|-----|--|-----|-----------|
| 91 | Stiffening-Induced High Pulsatility Flow Activates Endothelial Inflammation via a TLR2/NF- κ B Pathway. PLoS ONE, 2014, 9, e102195. | 2.5 | 39 |
| 92 | Vascular Stiffening in Pulmonary Hypertension: Cause or Consequence? (2013 Grover Conference) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50 | 1.7 | 63 |
| 93 | Synergism of Matrix Stiffness and Vascular Endothelial Growth Factor on Mesenchymal Stem Cells for Vascular Endothelial Regeneration. Tissue Engineering - Part A, 2014, 20, 2503-2512. | 3.1 | 43 |
| 94 | High Pulsatility Flow Induces Acute Endothelial Inflammation Through Overpolarizing Cells to Activate NF- κ B. Cardiovascular Engineering and Technology, 2013, 4, 26-38. | 1.6 | 40 |
| 95 | Fabrication and adhesion of a bio-inspired microarray: capillarity-induced casting using porous silicon mold. Journal of Materials Chemistry B, 2013, 1, 379-386. | 5.8 | 17 |
| 96 | High pulsatility flow stimulates smooth muscle cell hypertrophy and contractile protein expression. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L70-L81. | 2.9 | 49 |
| 97 | Mechanical and biocompatible characterizations of a readily available multilayer vascular graft. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 506-519. | 3.4 | 33 |
| 98 | Influence of Distal Resistance and Proximal Stiffness on Hemodynamics and RV Afterload in Progression and Treatments of Pulmonary Hypertension: A Computational Study with Validation Using Animal Models. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-12. | 1.3 | 16 |
| 99 | Mechanics and Function of the Pulmonary Vasculature: Implications for Pulmonary Vascular Disease and Right Ventricular Function. , 2012, 2, 295-319. | | 61 |
| 100 | A new flow co-culture system for studying mechanobiology effects of pulse flow waves. Cytotechnology, 2012, 64, 649-666. | 1.6 | 20 |
| 101 | Roles of genipin crosslinking and biomolecule conditioning in collagen-based biopolymer: Potential for vascular media regeneration. Journal of Biomedical Materials Research - Part A, 2011, 97A, 16-26. | 4.0 | 25 |
| 102 | Evaluation of composition and crosslinking effects on collagen-based composite constructs. Acta Biomaterialia, 2010, 6, 1413-1422. | 8.3 | 117 |
| 103 | A highly porous nafion membrane templated from polyoxometalates-based supramolecule composite for ion-exchange polymer-metal composite actuator. Journal of Materials Chemistry, 2010, 20, 10159. | 6.7 | 50 |
| 104 | High Pulsatility Flow Induces Adhesion Molecule and Cytokine mRNA Expression in Distal Pulmonary Artery Endothelial Cells. Annals of Biomedical Engineering, 2009, 37, 1082-1092. | 2.5 | 93 |
| 105 | Novel Electrospun Nanocomposites With Controllable Compositional Gradient and Degradation Kinetics for Vascular Tissue Engineering. , 2009, , . | | 0 |
| 106 | Development and evaluation of microdevices for studying anisotropic biaxial cyclic stretch on cells. Biomedical Microdevices, 2008, 10, 869-882. | 2.8 | 51 |
| 107 | Study on Acceleration Control Algorithm of Blood Pump Driven by Large Gap Magnetic Force. Advanced Materials Research, 0, 317-319, 1193-1196. | 0.3 | 1 |
| 108 | Study on Control Parameters in the Acceleration of Axial Flow Blood Pump. Applied Mechanics and Materials, 0, 128-129, 1031-1034. | 0.2 | 0 |

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|-----|--|-----|-----------|
| 109 | Multimodal medical image fusion algorithm in the era of big data. Neural Computing and Applications, 0, , 1. | 5.6 | 84 |