

# Hanxin Chen

## List of Publications by Year in descending order

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39  
papers

1,303  
citations

361413

20  
h-index

454955

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g-index

39  
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39  
docs citations

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times ranked

937  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Sensor Data Driven with PARAFAC-IPSO-PNN for Identification of Mechanical Nonstationary Multi-Fault Mode. <i>Machines</i> , 2022, 10, 155.	2.2	31
2	Collinear Nonlinear Mixed-Frequency Ultrasound with FEM and Experimental Method for Structural Health Prognosis. <i>Processes</i> , 2022, 10, 656.	2.8	25
3	Nonlinear Lamb Wave for Structural Incipient Defect Detection with Sequential Probabilistic Ratio Test. <i>Security and Communication Networks</i> , 2022, 2022, 1-12.	1.5	15
4	Multi-Sensor Fusion by CWT-PARAFAC-IPSO-SVM for Intelligent Mechanical Fault Diagnosis. <i>Sensors</i> , 2022, 22, 3647.	3.8	29
5	Effects of Si on the Microstructure and Work Hardening Behavior of Fe-17Mn-1.1C-xSi High Manganese Steels. <i>Metals and Materials International</i> , 2021, 27, 3891-3904.	3.4	12
6	Mechanical structural health prognosis with nonlinear mixed frequency ultrasonic signal analysis. <i>E3S Web of Conferences</i> , 2021, 268, 01075.	0.5	0
7	A FRACTAL MODEL FOR CAPILLARY FLOW THROUGH A SINGLE TORTUOUS CAPILLARY WITH ROUGHENED SURFACES IN FIBROUS POROUS MEDIA. <i>Fractals</i> , 2021, 29, 2150017.	3.7	147
8	Microstructures and Properties of V-Modified A380 Aluminum Alloy Produced by High Pressure Rheo-Squeeze Casting with Compound Field Treatment. <i>Metals</i> , 2021, 11, 587.	2.3	4
9	Ag Nanowires/C as a Selective and Efficient Catalyst for CO <sub>2</sub> Electroreduction. <i>Energies</i> , 2021, 14, 2840.	3.1	10
10	A FRACTAL MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF ROUGHENED POROUS MEDIA WITH MICROSCALE EFFECT. <i>Fractals</i> , 2021, 29, 2150114.	3.7	24
11	Multi-source and multi-fault condition monitoring based on parallel factor analysis and sequential probability ratio test. <i>Eurasip Journal on Advances in Signal Processing</i> , 2021, 2021, .	1.7	2
12	A NOVEL MODEL FOR EFFECTIVE THERMAL CONDUCTIVITY OF TREE-LIKE BRANCHING NETWORK WITH FRACTAL ROUGHENED SURFACES. <i>Fractals</i> , 2021, 29, 2150165.	3.7	18
13	Silver Nanocubes as a High-Performance Electrocatalyst for CO <sub>2</sub> Reduction to CO. <i>Nano</i> , 2021, 16, .	1.0	3
14	Mechanical Structural Failure Assessment with Novel Nonlinear Ultrasonic Method. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 1097-1105.	0.4	0
15	Multi-fault Condition Monitoring of Slurry Pump with Principle Component Analysis and Sequential Hypothesis Test. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2059019.	1.2	47
16	Particle Swarm Optimization Algorithm with Mutation Operator for Particle Filter Noise Reduction in Mechanical Fault Diagnosis. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2020, 34, 2058012.	1.2	80
17	Model-based method with nonlinear ultrasonic system identification for mechanical structural health assessment. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020, 31, e3955.	3.9	25
18	Nonlinear Lamb wave analysis for microdefect identification in mechanical structural health assessment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 164, 108026.	5.0	74

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19	EFFECTIVE THERMAL CONDUCTIVITY OF POROUS MEDIA WITH ROUGHENED SURFACES BY FRACTAL-MONTE CARLO SIMULATIONS. <i>Fractals</i> , 2020, 28, 2050029.	3.7	59
20	Comparative Study on Flow-Accelerated Corrosion and Erosion—Corrosion at a 90° Carbon Steel Bend. <i>Materials</i> , 2020, 13, 1780.	2.9	31
21	A novel time—frequency—space method with parallel factor theory for big data analysis in condition monitoring of complex system. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142091694.	2.1	9
22	Intelligent early structural health prognosis with nonlinear system identification for RFID signal analysis. <i>Computer Communications</i> , 2020, 157, 150-161.	5.1	43
23	Finite Element Analysis Model on Ultrasonic Phased Array Technique for Material Defect Time of Flight Diffraction Detection. <i>Science of Advanced Materials</i> , 2020, 12, 665-675.	0.7	72
24	Modeling the Interfacial Debonding Behavior Between Steel Wire and Adhesive. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2020, 142, .	0.6	3
25	Centrifugal Pump Impeller Health Diagnosis Based on Improved Particle Filter and BP Neural Network. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 217-224.	0.6	0
26	Model-Based Intelligent Non-linear Signal Recognition for Gearbox Condition Monitoring. <i>Communications in Computer and Information Science</i> , 2020, , 99-106.	0.5	0
27	Fault diagnosis of gearbox based on RBF-PF and particle swarm optimization wavelet neural network. <i>Neural Computing and Applications</i> , 2019, 31, 4463-4478.	5.6	95
28	A NOVEL FRACTAL MODEL FOR RELATIVE PERMEABILITY OF GAS DIFFUSION LAYER IN PROTON EXCHANGE MEMBRANE FUEL CELL WITH CAPILLARY PRESSURE EFFECT. <i>Fractals</i> , 2019, 27, 1950012.	3.7	59
29	A FRACTAL MODEL FOR WATER FLOW THROUGH UNSATURATED POROUS ROCKS. <i>Fractals</i> , 2018, 26, 1840015.	3.7	79
30	Fault Diagnosis of Gearbox Based on Principal Component Analysis and Sequential Probability Ratio Test. , 2018, , .		1
31	Silver sulfide anchored on reduced graphene oxide as a high -performance catalyst for CO 2 electroreduction. <i>Journal of Power Sources</i> , 2018, 398, 83-90.	7.8	74
32	Research on Relative Permeability of Nanofibers with Capillary Pressure Effect by Means of Fractal-Monte Carlo Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6811-6817.	0.9	70
33	OPTIMIZATION OF THE FRACTAL-LIKE ARCHITECTURE OF POROUS FIBROUS MATERIALS RELATED TO PERMEABILITY, DIFFUSIVITY AND THERMAL CONDUCTIVITY. <i>Fractals</i> , 2017, 25, 1750030.	3.7	73
34	Multiple fault condition recognition of gearbox with sequential hypothesis test. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 469-482.	8.0	44
35	Fault Identification of Gearbox Degradation with Optimized Wavelet Neural Network. <i>Shock and Vibration</i> , 2013, 20, 247-262.	0.6	42
36	Fault diagnosis of gear crack based on sequential probability ratio test. , 2012, , .		0

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37	System state estimation in health assessment of gearbox. , 2011, , .		1
38	Ultrasonic Material Crack Detection With Adaptive LMS-Based Wavelet Filter. , 2009, , .		0
39	Demodulation of gear vibration signals for fault detection. , 2009, , .		2