

Hanxin Chen

List of Publications by Year in descending order

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39
papers

1,303
citations

361413

20
h-index

454955

30
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docs citations

39
times ranked

937
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	A FRACTAL MODEL FOR WATER FLOW THROUGH UNSATURATED POROUS ROCKS. <i>Fractals</i> , 2018, 26, 1840015.	3.7	79
5	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
6	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
7	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
8	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
9	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
10	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
11	EFFECTIVE THERMAL CONDUCTIVITY OF POROUS MEDIA WITH ROUGHENED SURFACES BY FRACTAL-MONTE CARLO SIMULATIONS. <i>Fractals</i> , 2020, 28, 2050029.	3.7	59
12	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
13	Multiple fault condition recognition of gearbox with sequential hypothesis test. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 469-482.	8.0	44
14	Intelligent early structural health prognosis with nonlinear system identification for RFID signal analysis. <i>Computer Communications</i> , 2020, 157, 150-161.	5.1	43
15	Fault Identification of Gearbox Degradation with Optimized Wavelet Neural Network. <i>Shock and Vibration</i> , 2013, 20, 247-262.	0.6	42
16	Comparative Study on Flow-Accelerated Corrosion and Erosion—Corrosion at a 90° Carbon Steel Bend. <i>Materials</i> , 2020, 13, 1780.	2.9	31
17	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
18	Multi-Sensor Fusion by CWT-PARAFAC-IPSO-SVM for Intelligent Mechanical Fault Diagnosis. <i>Sensors</i> , 2022, 22, 3647.	3.8	29

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19	Model-based method with nonlinear ultrasonic system identification for mechanical structural health assessment. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3955.	3.9	25
20	Collinear Nonlinear Mixed-Frequency Ultrasound with FEM and Experimental Method for Structural Health Prognosis. Processes, 2022, 10, 656.	2.8	25
21	A FRACTAL MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF ROUGHENED POROUS MEDIA WITH MICROSCALE EFFECT. Fractals, 2021, 29, 2150114.	3.7	24
22	A NOVEL MODEL FOR EFFECTIVE THERMAL CONDUCTIVITY OF TREE-LIKE BRANCHING NETWORK WITH FRACTAL ROUGHENED SURFACES. Fractals, 2021, 29, 2150165.	3.7	18
23	Nonlinear Lamb Wave for Structural Incipient Defect Detection with Sequential Probabilistic Ratio Test. Security and Communication Networks, 2022, 2022, 1-12.	1.5	15
24	Effects of Si on the Microstructure and Work Hardening Behavior of Fe-17Mn-1.1C-xSi High Manganese Steels. Metals and Materials International, 2021, 27, 3891-3904.	3.4	12
25	Ag Nanowires/C as a Selective and Efficient Catalyst for CO ₂ Electroreduction. Energies, 2021, 14, 2840.	3.1	10
26	A novel time-frequency-space method with parallel factor theory for big data analysis in condition monitoring of complex system. International Journal of Advanced Robotic Systems, 2020, 17, 172988142091694.	2.1	9
27	Microstructures and Properties of V-Modified A380 Aluminum Alloy Produced by High Pressure Rheo-Squeeze Casting with Compound Field Treatment. Metals, 2021, 11, 587.	2.3	4
28	Silver Nanocubes as a High-Performance Electrocatalyst for CO ₂ Reduction to CO. Nano, 2021, 16, .	1.0	3
29	Modeling the Interfacial Debonding Behavior Between Steel Wire and Adhesive. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.6	3
30	Demodulation of gear vibration signals for fault detection. , 2009, , .		2
31	Multi-source and multi-fault condition monitoring based on parallel factor analysis and sequential probability ratio test. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.7	2
32	System state estimation in health assessment of gearbox. , 2011, , .		1
33	Fault Diagnosis of Gearbox Based on Principal Component Analysis and Sequential Probability Ratio Test. , 2018, , .		1
34	Ultrasonic Material Crack Detection With Adaptive LMS-Based Wavelet Filter. , 2009, , .		0
35	Fault diagnosis of gear crack based on sequential probability ratio test. , 2012, , .		0
36	Mechanical structural health prognosis with nonlinear mixed frequency ultrasonic signal analysis. E3S Web of Conferences, 2021, 268, 01075.	0.5	0

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37	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
38	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
39	Mechanical Structural Failure Assessment with Novel Nonlinear Ultrasonic Method. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 1097-1105.	0.4	0