

Rui Chen

List of Publications by Year in descending order

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110
papers

4,296
citations

185998

28
h-index

128067

60
g-index

112
all docs

112
docs citations

112
times ranked

5525
citing authors

#	ARTICLE	IF	CITATIONS
1	CPAP for Prevention of Cardiovascular Events in Obstructive Sleep Apnea. <i>New England Journal of Medicine</i> , 2016, 375, 919-931.	13.9	1,544
2	Therapeutic potential of naringin: an overview. <i>Pharmaceutical Biology</i> , 2016, 54, 3203-3210.	1.3	272
3	MetaPro-IQ: a universal metaproteomic approach to studying human and mouse gut microbiota. <i>Microbiome</i> , 2016, 4, 31.	4.9	154
4	A dynamic model for thermoelectric generator applied to vehicle waste heat recovery. <i>Applied Energy</i> , 2018, 210, 327-338.	5.1	149
5	A computational study into the effect of exhaust gas recycling on homogeneous charge compression ignition combustion in internal combustion engines fuelled with methane. <i>International Journal of Thermal Sciences</i> , 2002, 41, 805-813.	2.6	92
6	Metabolic Reprogramming by Hexosamine Biosynthetic and Golgi N-Glycan Branching Pathways. <i>Scientific Reports</i> , 2016, 6, 23043.	1.6	84
7	Freshwater algal cultivation with animal waste for nutrient removal and biomass production. <i>Biomass and Bioenergy</i> , 2012, 39, 128-138.	2.9	73
8	Effects of dairy manure and corn stover co-digestion on anaerobic microbes and corresponding digestion performance. <i>Bioresource Technology</i> , 2013, 128, 65-71.	4.8	63
9	Influence of the Variable Valve Timing Strategy on the Control of a Homogeneous Charge Compression (HCCI) Engine. , 0, , .		60
10	Large-scale characterization of intact N-glycopeptides using an automated glycoproteomic method. <i>Journal of Proteomics</i> , 2014, 110, 145-154.	1.2	57
11	Modelling water intrusion and oxygen diffusion in a reconstructed microporous layer of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17222-17230.	3.8	56
12	The effects of gas diffusion layers structure on water transportation using X-ray computed tomography based Lattice Boltzmann method. <i>Journal of Power Sources</i> , 2018, 378, 53-65.	4.0	51
13	A Review of Experimental and Simulation Studies on Controlled Auto-Ignition Combustion. , 2001, , .		50
14	A generic electrical circuit for performance analysis of the fuel cell cathode catalyst layer through electrochemical impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2013, 694, 45-55.	1.9	46
15	Different combustion modes caused by flame-shock interactions in a confined chamber with a perforated plate. <i>Combustion and Flame</i> , 2017, 178, 277-285.	2.8	45
16	Preconditioning Enhances the Therapeutic Effects of Mesenchymal Stem Cells on Colitis Through PGE2-Mediated T-Cell Modulation. <i>Cell Transplantation</i> , 2018, 27, 1352-1367.	1.2	43
17	An X-Ray Tomography Based Lattice Boltzmann Simulation Study on Gas Diffusion Layers of Polymer Electrolyte Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	42
18	Calculating the Anisotropic Permeability of Porous Media Using the Lattice Boltzmann Method and X-ray Computed Tomography. <i>Transport in Porous Media</i> , 2012, 92, 457-472.	1.2	40

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19	Site-specific characterization of cell membrane N-glycosylation with integrated hydrophilic interaction chromatography solid phase extraction and LC-MS/MS. <i>Journal of Proteomics</i> , 2014, 103, 194-203.	1.2	40
20	<i>In Vitro</i> Metabolic Labeling of Intestinal Microbiota for Quantitative Metaproteomics. <i>Analytical Chemistry</i> , 2016, 88, 6120-6125.	3.2	40
21	Enlarging the Operational Range of a Gasoline HCCI Engine By Controlling the Coolant Temperature. , O, , .		39
22	Lattice Boltzmann simulation of water and gas flow in porous gas diffusion layers in fuel cells reconstructed from micro-tomography. <i>Computers and Mathematics With Applications</i> , 2013, 65, 891-900.	1.4	38
23	Epigenetic memory gained by priming with osteogenic induction medium improves osteogenesis and other properties of mesenchymal stem cells. <i>Scientific Reports</i> , 2015, 5, 11056.	1.6	38
24	Prediction of the fuel economy potential for a skutterudite thermoelectric generator in light-duty vehicle applications. <i>Applied Energy</i> , 2018, 231, 68-79.	5.1	38
25	KDM3A and KDM4C Regulate Mesenchymal Stromal Cell Senescence and Bone Aging via Condensin-mediated Heterochromatin Reorganization. <i>IScience</i> , 2019, 21, 375-390.	1.9	38
26	Dedifferentiation-Reprogrammed Mesenchymal Stem Cells with Improved Therapeutic Potential. <i>Stem Cells</i> , 2011, 29, 2077-2089.	1.4	36
27	Study of current distribution and oxygen diffusion in the fuel cell cathode catalyst layer through electrochemical impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1702-1713.	3.8	36
28	ADAR2 increases in exercised heart and protects against myocardial infarction and doxorubicin-induced cardiotoxicity. <i>Molecular Therapy</i> , 2022, 30, 400-414.	3.7	36
29	The Thermal Effect of Internal Exhaust Gas Recirculation on Controlled Auto Ignition. , 2003, , .		35
30	Turbulent flame propagation with pressure oscillation in the end gas region of confined combustion chamber equipped with different perforated plates. <i>Combustion and Flame</i> , 2018, 191, 453-467.	2.8	34
31	Multi-attention augmented network for single image super-resolution. <i>Pattern Recognition</i> , 2022, 122, 108349.	5.1	34
32	Flow properties of an intact MPL from nano-tomography and pore network modelling. <i>Fuel</i> , 2014, 136, 307-315.	3.4	32
33	Responses of anaerobic microorganisms to different culture conditions and corresponding effects on biogas production and solid digestate quality. <i>Biomass and Bioenergy</i> , 2016, 85, 84-93.	2.9	29
34	Feasibility study on a vehicular thermoelectric generator for both waste heat recovery and engine oil warm-up. <i>Applied Energy</i> , 2019, 242, 273-284.	5.1	29
35	Inductive Effect on the Fuel Cell Cathode Impedance Spectrum at High Frequencies. <i>Journal of Fuel Cell Science and Technology</i> , 2012, 9, .	0.8	28
36	Experimental analysis of super-knock occurrence based on a spark ignition engine with high compression ratio. <i>Energy</i> , 2018, 165, 68-75.	4.5	28

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37	Using machine learning to predict one-year cardiovascular events in patients with severe dilated cardiomyopathy. <i>European Journal of Radiology</i> , 2019, 117, 178-183.	1.2	25
38	JQ1, a BET bromodomain inhibitor, inhibits human cancer growth and suppresses PD-L1 expression. <i>Cell Biology International</i> , 2019, 43, 642-650.	1.4	24
39	Reliability of the spherical agglomerate models for catalyst layer in polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2014, 133, 475-483.	2.6	23
40	Anaerobic co-digestion of energy crop and agricultural wastes to prepare uniform-format cellulosic feedstock for biorefining. <i>Renewable Energy</i> , 2020, 147, 1358-1370.	4.3	23
41	Use of an algal hydrolysate to improve enzymatic hydrolysis of lignocellulose. <i>Bioresource Technology</i> , 2012, 108, 149-154.	4.8	22
42	An impedance model for analysis of EIS of polymer electrolyte fuel cells under hydrogen peroxide formation in the cathode. <i>Journal of Electroanalytical Chemistry</i> , 2015, 745, 28-36.	1.9	22
43	On the Mechanism of Controlled Auto Ignition. , 0, , .		21
44	Epigenetic Modification of the CCL5/CCR1/ERK Axis Enhances Glioma Targeting in Dedifferentiation-Reprogrammed BMSCs. <i>Stem Cell Reports</i> , 2017, 8, 743-757.	2.3	21
45	Effects of coffee processing residues on anaerobic microorganisms and corresponding digestion performance. <i>Bioresource Technology</i> , 2017, 245, 714-723.	4.8	21
46	Multiscale Modeling of Single-Phase Multicomponent Transport in the Cathode Gas Diffusion Layer of a Polymer Electrolyte Fuel Cell. <i>Energy & Fuels</i> , 2010, 24, 3130-3143.	2.5	20
47	A Petri net approach for performance modelling of polymer electrolyte membrane fuel cell systems. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12242-12260.	3.8	20
48	An Electrical Circuit for Performance Analysis of Polymer Electrolyte Fuel Cell Stacks Using Electrochemical Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1109-F1115.	1.3	19
49	Life Cycle and Economic Assessment of Anaerobic Co-digestion of Dairy Manure and Food Waste. <i>Industrial Biotechnology</i> , 2015, 11, 127-139.	0.5	19
50	The comparison of short-term prognostic value of T1 mapping with feature tracking by cardiovascular magnetic resonance in patients with severe dilated cardiomyopathy. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 171-178.	0.7	19
51	Experimental investigation on DMFCs using reduced noble metal loading with NiTiO ₃ as supportive material to enhance cell performances. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13415-13423.	3.8	19
52	Method to improve catalyst layer model for modelling proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2015, 289, 114-128.	4.0	18
53	Focal adhesion kinase (FAK) siRNA inhibits human hypertrophic scar by suppressing integrin β_1 , TGF β_1 and α 5 β_1 . <i>Cell Biology International</i> , 2014, 38, 803-808.	1.4	17
54	An impedance model for analysis of EIS of polymer electrolyte fuel cells under platinum oxidation and hydrogen peroxide formation in the cathode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 771, 94-105.	1.9	17

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55	An Impedance Model for EIS Analysis of Nickel Metal Hydride Batteries. Journal of the Electrochemical Society, 2017, 164, A1446-A1453.	1.3	17
56	Using Ion-current Sensing to Interpret Gasoline HCCI Combustion Processes. , 0, , .		16
57	An Improved MRT Lattice Boltzmann Model for Calculating Anisotropic Permeability of Compressed and Uncompressed Carbon Cloth Gas Diffusion Layers Based on X-Ray Computed Micro-Tomography. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	16
58	Performance comparison of a thermoelectric generator applied in conventional vehicles and extended-range electric vehicles. Energy Conversion and Management, 2022, 266, 115791.	4.4	16
59	Improved Thermoelectric Generator Performance Using High Temperature Thermoelectric Materials. , 0, , .		15
60	Experimental investigation of the stochastic nature of end-gas autoignition with detonation development in confined combustion chamber. Combustion and Flame, 2019, 210, 324-338.	2.8	15
61	Electrochemical impedance study on estimating the mass transport resistance in the polymer electrolyte fuel cell cathode catalyst layer. Journal of Electroanalytical Chemistry, 2013, 702, 45-48.	1.9	14
62	The Low Current Electrochemical Mechanisms of the Fuel Cell Cathode Catalyst Layer Through an Impedance Study. Journal of the Electrochemical Society, 2010, 157, B400.	1.3	13
63	Liquid Water Transport in Porous Metal Foam Flow-Field Fuel Cells: A Two-Phase Numerical Modelling and Ex-Situ Experimental Study. Energies, 2019, 12, 1186.	1.6	13
64	Oxygen transport in proton exchange membrane fuel cells with metal foam flow fields. Journal of Power Sources, 2022, 521, 230937.	4.0	13
65	Evaluate the Validity of Electrochemical Impedance Measurements of Polymer Electrolyte Fuel Cells using a Computational Algorithm based on Fast Fourier Transform. Insights in Analytical Electrochemistry, 2015, 1, .	0.8	12
66	Steered migration and changed morphology of human astrocytes by an applied electric field. Experimental Cell Research, 2019, 374, 282-289.	1.2	12
67	Phosphoinositide specific phospholipase C ^β 1 inhibition-driven autophagy caused cell death in human lung adenocarcinoma A549 cells <i>in vivo</i> and <i>in vitro</i> . International Journal of Biological Sciences, 2020, 16, 1427-1440.	2.6	12
68	Effect of diluent gases on end-gas autoignition and combustion modes in a confined space. Combustion and Flame, 2020, 222, 48-60.	2.8	11
69	A proposed agglomerate model for oxygen reduction in the catalyst layer of proton exchange membrane fuel cells. Electrochimica Acta, 2014, 150, 320-328.	2.6	10
70	Experimental study on stoichiometric laminar flame velocities and Markstein lengths of methane and PRF95 dual fuels. Fuel, 2016, 182, 721-731.	3.4	10
71	The Potential of Thermoelectric Generator in Parallel Hybrid Vehicle Applications. , 0, , .		10
72	Shedding of cancer susceptibility candidate 4 by the convertases PC7/furin unravels a novel secretory protein implicated in cancer progression. Cell Death and Disease, 2020, 11, 665.	2.7	10

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73	Impedance Study on Oxygen Diffusion Through Fuel Cell Cathode Catalyst Layer at High Current. Journal of the Electrochemical Society, 2010, 157, B1865.	1.3	8
74	Using an environmentally friendly process combining electrocoagulation and algal cultivation to treat high-strength wastewater. Algal Research, 2016, 16, 330-337.	2.4	8
75	Effect of Nafion loading and the novel flow field designs on innovative anode electrocatalyst for improved Direct Methanol Fuel cells performance. Materials Letters, 2020, 276, 128222.	1.3	8
76	Reticulocalbin 1 is required for proliferation and migration of non-small cell lung cancer cells regulated by osteoblast-conditioned medium. Journal of Cellular and Molecular Medicine, 2021, 25, 11198-11211.	1.6	8
77	Synergistic Anti-Ageing through Senescent Cells Specific Reprogramming. Cells, 2022, 11, 830.	1.8	8
78	A Comparison of Four Modelling Techniques for Thermoelectric Generator. , 0, , .		7
79	Failure Analysis of Polymer Electrolyte Fuel Cells. , 2008, , .		6
80	Protein-protein interaction network of gene expression in the hydrocortisone-treated keloid. International Journal of Dermatology, 2015, 54, 549-554.	0.5	6
81	Experimental Assessment of Vapour Chamber Heater Spreader Implementation in Avionic Cooling. , 2015, , .		6
82	Blind restoration for nonuniform aerial images using nonlocal Retinex model and shearlet-based higher-order regularization. Journal of Electronic Imaging, 2017, 26, 033016.	0.5	6
83	Experimental Investigation of Turbulent Flame Propagation and Pressure Oscillation in a Constant Volume Chamber Equipped With an Orifice Plate. Combustion Science and Technology, 0, , 1-17.	1.2	6
84	Suppressing phosphoinositide-specific phospholipases C β 1 promotes mineralization of osteoarthritic subchondral bone osteoblasts via increasing autophagy, thereby ameliorating articular cartilage degeneration. Bone, 2022, 154, 116262.	1.4	6
85	Effects of algal hydrolyzate as reaction medium on enzymatic hydrolysis of lignocelluloses. Biomass and Bioenergy, 2014, 67, 72-78.	2.9	5
86	Development of a Full Scale Experimental and Simulation Tool for Environmental Control System Optimisation and Fault Detection. , 2015, , .		5
87	Highly (110)-Oriented Co ₁ S Nanosheet Arrays on Carbon Fiber Paper as High-Performance and Binder-Free Electrodes for Oxygen Production. ChemistrySelect, 2018, 3, 3970-3974.	0.7	5
88	Robust image/video super-resolution display. , 2015, , .		4
89	Thermal Sensitivity Analysis of Avionic and Environmental Control Subsystems to Variations in Flight Condition. , 2016, , .		4
90	Engineered Circular RNA CircmiR29b Attenuates Muscle Atrophy by Sponging MiR29b. Advanced Therapeutics, 2022, 5, .	1.6	4

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91	Polymer Electrolyte Fuel Cell Transport Mechanisms: A Universal Approach to Multilayer Two-Phase Modeling Through the General Transport Equation. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	3
92	Experimental Study on the Burning Rate of Methane and PRF95 Dual Fuels. SAE International Journal of Engines, 0, 9, 1117-1129.	0.4	3
93	A structure-preserving image restoration method with high-level ensemble constraints. , 2016, , .		3
94	PTFE mapping in gas diffusion media for PEMFCs using fluorescence microscopy. International Journal of Hydrogen Energy, 2016, 41, 17631-17643.	3.8	3
95	Experimental Investigation on the Laminar Burning Velocities and Markstein Lengths of Methane and PRF95 Dual Fuels. Energy & Fuels, 2016, 30, 6777-6789.	2.5	3
96	Bacterial infections exacerbate myeloma bone disease. Journal of Translational Medicine, 2022, 20, 16.	1.8	3
97	Robust estimation for image noise based on eigenvalue distributions of large sample covariance matrices. Journal of Visual Communication and Image Representation, 2019, 63, 102604.	1.7	2
98	Noise Level Estimation for Overcomplete Dictionary Learning Based on Tight Asymptotic Bounds. Lecture Notes in Computer Science, 2018, , 257-267.	1.0	2
99	A Tendon-Specific Double Reporter Transgenic Mouse Enables Tracking Cell Lineage and Functions Alteration In Vitro and In Vivo. International Journal of Molecular Sciences, 2021, 22, 11189.	1.8	2
100	Ionisation and Ionisation Rate of a Two-Stroke HCCI Engine Fuelled with E85 for Control Feedback. , 2010, , .		1
101	3D visualization and characterization of nano structured materials. , 2011, , .		1
102	A fast super-resolution method based on sparsity properties. , 2015, , .		1
103	Evaluating Environmental Control System Thermal Response to Degraded Operating Conditions. , 2016, , .		1
104	A Study into Refrigeration Cycle Working Fluids using an Air Cycle Machine Environmental Control System. , 2016, , .		1
105	Bayer demosaicking using optimised mean curvature over RGB channels. Electronics Letters, 2017, 53, 1190-1192.	0.5	1
106	Multi-Zone Kinetic Model of Controlled Auto Ignition Combustion. , 0, , .		0
107	A HVS-guided approach for real-time image interpolation. , 2015, , .		0
108	Structure preserving single image super-resolution. , 2016, , .		0

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109	Correlation preserving on graphs for image denoising. , 2017, , .		0
110	Single image super-resolution using deep hierarchical attention network. , 2020, , .		0