

# Ailiang Xing

## List of Publications by Year in descending order

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46  
papers

999  
citations

516710

16  
h-index

454955

30  
g-index

46  
all docs

46  
docs citations

46  
times ranked

648  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the mechanism, risk evaluation, and prevention of coal spontaneous combustion in China. Environmental Science and Pollution Research, 2017, 24, 23453-23470.	5.3	141
2	Free radical reaction characteristics of coal low-temperature oxidation and its inhibition method. Environmental Science and Pollution Research, 2016, 23, 23593-23605.	5.3	107
3	Optimal Containment Control of Unknown Heterogeneous Systems With Active Leaders. IEEE Transactions on Control Systems Technology, 2019, 27, 1228-1236.	5.2	80
4	Safe reinforcement learning for dynamical games. International Journal of Robust and Nonlinear Control, 2020, 30, 3706-3726.	3.7	64
5	Study Governing the Impact of Long-Term Water Immersion on Coal Spontaneous Ignition. Arabian Journal for Science and Engineering, 2017, 42, 1359-1369.	3.0	56
6	Improved Porosity and Permeability Models with Coal Matrix Block Deformation Effect. Rock Mechanics and Rock Engineering, 2016, 49, 3687-3697.	5.4	49
7	Research on the Composition and Distribution of Organic Sulfur in Coal. Molecules, 2016, 21, 630.	3.8	40
8	Dynamic intermittent Q-learning-based model-free suboptimal co-design of stabilization. International Journal of Robust and Nonlinear Control, 2019, 29, 2673-2694.	3.7	34
9	Evolution of Coal Permeability with Cleat Deformation and Variable Klinkenberg Effect. Transport in Porous Media, 2016, 115, 153-167.	2.6	33
10	Studies on the Low-Temp Oxidation of Coal Containing Organic Sulfur and the Corresponding Model Compounds. Molecules, 2015, 20, 22241-22256.	3.8	30
11	Experimental Investigation for Pore Structure and CH <sub>4</sub> Release Characteristics of Coal during Pulverization Process. Energy & Fuels, 2017, 31, 14357-14366.	5.1	30
12	Development of Blast Furnace Burden Distribution Process Modeling and Control. ISIJ International, 2017, 57, 1350-1363.	1.4	28
13	Safety-Aware Reinforcement Learning Framework with an Actor-Critic-Barrier Structure. , 2019, , .		28
14	Consolidation grouting technology for fire prevention in mined-out areas of working face with large inclined angle and its application. Fire and Materials, 2017, 41, 700-715.	2.0	26
15	Study on the Spontaneous Combustion Characteristics and Prevention Technology of Coal Seam in Overlying Close Goaf. Combustion Science and Technology, 2022, 194, 2233-2254.	2.3	23
16	Data-Driven Human-Robot Interaction Without Velocity Measurement Using Off-Policy Reinforcement Learning. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 47-63.	13.1	22
17	A modified ELM algorithm for the prediction of silicon content in hot metal. Neural Computing and Applications, 2016, 27, 241-247.	5.6	19
18	Sparse online kernelized actor-critic Learning in reproducing kernel Hilbert space. Artificial Intelligence Review, 2022, 55, 23-58.	15.7	19

#	ARTICLE	IF	CITATIONS
19	Influence of the Pore Geometry Structure on the Evolution of Gas Permeability. <i>Transport in Porous Media</i> , 2018, 123, 321-339.	2.6	15
20	Hamiltonian-driven adaptive dynamic programming for mixed $H_2/H_\infty$ performance using sum of squares. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 1941-1963.	3.7	15
21	Robust Performance-Prescribed Attitude Control of Foldable Wave-Energy Powered AUV Using Optimized Backstepping Technique. <i>IEEE Transactions on Intelligent Vehicles</i> , 2023, 8, 1230-1240.	12.7	15
22	Modeling and Application of Gas Pressure Measurement in Water-Saturated Coal Seam Based on Methane Solubility. <i>Transport in Porous Media</i> , 2017, 119, 163-179.	2.6	13
23	Robust adaptive control of uncertain nonlinear systems with unmodeled dynamics using command filter. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 7764-7784.	3.7	13
24	Data-Driven Integral Reinforcement Learning for Continuous-Time Non-Zero-Sum Games. <i>IEEE Access</i> , 2019, 7, 82901-82912.	4.2	12
25	Evolution Characteristics of Gas Permeability Under Multiple Factors. <i>Transport in Porous Media</i> , 2019, 127, 415-432.	2.6	12
26	SOM's Effect on Coal Spontaneous Combustion and Its Inhibition Efficiency. <i>Combustion Science and Technology</i> , 2017, 189, 2266-2283.	2.3	10
27	Experimental Study on Pore-fracture Evolution Law in the Thermal Damage Process of Coal. <i>Combustion Science and Technology</i> , 2021, 193, 677-701.	2.3	9
28	Containment Control of Heterogeneous Systems With Non-Autonomous Leaders: A Distributed Optimal Model Reference Approach. <i>IEEE Access</i> , 2018, 6, 60689-60703.	4.2	8
29	Dynamic Event-Triggered Design With Fixed-Time Performance and Input Dead-Zone. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 4344-4348.	3.0	8
30	Model-Free Event-Triggered Containment Control of Multi-Agent Systems. , 2018, , .		7
31	Off-policy reinforcement learning for robust control of discrete-time uncertain linear systems. , 2017, , .		6
32	Identification of Primary CO in Coal Seam Based on Oxygen Isotope Method. <i>Combustion Science and Technology</i> , 2017, 189, 1924-1942.	2.3	5
33	Safe Intermittent Reinforcement Learning for Nonlinear Systems. , 2019, , .		5
34	Data-Driven Nonzero-Sum Game for Discrete-Time Systems Using Off-Policy Reinforcement Learning. <i>IEEE Access</i> , 2020, 8, 14074-14088.	4.2	5
35	Containment control of heterogeneous systems with active leaders of bounded unknown control using reinforcement learning. , 2017, , .		3
36	Dynamic Intermittent Suboptimal Control: Performance Quantification and Comparisons. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	Study on spontaneous combustion laws and fire prevention measures of coal remains during water drainage in water soaked goaf. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-20.	2.3	2
38	Kinetic Analysis of the Generation of Active Sites During the Low-Temperature Pyrolysis of Coal. Combustion Science and Technology, 2024, 196, 352-370.	2.3	2
39	Dynamic Intermittent Q-Learning for Systems with Reduced Bandwidth. , 2018, , .		1
40	Adaptive Dynamic Surface Control of Constrained Nonlinear Systems. , 2020, , .		1
41	Study on the effect of CO <sub>2</sub> alkaline water two phase displacing gas and wetting coal. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-14.	2.3	1
42	Off-Policy Integral Reinforcement Learning for Semi-Global Constrained Output Regulation of Continuous-Time Linear Systems. , 2018, , .		0
43	Model-free semi-global output regulation for discrete-time linear systems subject to input amplitude saturation. , 2018, , .		0
44	Model-Free Temporal Difference Learning for Non-Zero-Sum Games. , 2019, , .		0
45	Model-Free Solution to the Discrete-Time Coupled Riccati Equation Using Off-Policy Reinforcement Learning. , 2019, , .		0
46	Command Filtered Control for Time-Delay Systems with Asymmetric Full State Constraints. , 2021, , .		0