

Wei Peng

List of Publications by Year in descending order

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papers

842
citations

516215

16
h-index

525886

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61
all docs

61
docs citations

61
times ranked

330
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on active thermal protection and its heat transfer for airbreathing hypersonic vehicles. Chinese Journal of Aeronautics, 2018, 31, 1929-1953.	2.8	189
2	Influence of Shock Waves on Supersonic Film Cooling. Journal of Spacecraft and Rockets, 2009, 46, 67-73.	1.3	54
3	Influence of hole geometry on film cooling effectiveness for a constant exit flow area. Applied Thermal Engineering, 2018, 130, 1404-1415.	3.0	39
4	Effect of Coolant Inlet Conditions on Supersonic Film Cooling. Journal of Spacecraft and Rockets, 2015, 52, 1456-1464.	1.3	28
5	A review of HTGR graphite dust transport research. Nuclear Engineering and Design, 2020, 360, 110477.	0.8	28
6	Effect of shock waves on supersonic film cooling with a slotted wall. Applied Thermal Engineering, 2014, 62, 187-196.	3.0	27
7	Graphite dust deposition in the HTR-10 steam generator. Particuology, 2013, 11, 533-539.	2.0	26
8	Safety analysis of leakage in a nuclear hydrogen production system. International Journal of Hydrogen Energy, 2022, 47, 4916-4931.	3.8	26
9	Numerical predictions of the drag coefficients of irregular particles in an HTGR. Annals of Nuclear Energy, 2018, 115, 195-208.	0.9	23
10	Modeling sulfuric acid decomposition in a bayonet heat exchanger in the iodine-sulfur cycle for hydrogen production. Applied Energy, 2020, 277, 115611.	5.1	22
11	Graphite dust resuspension in a depressurization accident of HTR. Nuclear Engineering and Design, 2013, 265, 785-790.	0.8	21
12	AFM measurements of adhesive forces between carbonaceous particles and the substrates. Nuclear Engineering and Design, 2015, 293, 87-96.	0.8	21
13	Thermophoretic and turbulent deposition of graphite dust in HTGR steam generators. Nuclear Engineering and Design, 2016, 300, 610-619.	0.8	21
14	Experimental and numerical investigation of turbulent heat transfer enhancement of an intermediate heat exchanger using corrugated tubes. International Journal of Heat and Mass Transfer, 2022, 185, 122385.	2.5	21
15	Effect of continuous or discrete shock wave generators on supersonic film cooling. International Journal of Heat and Mass Transfer, 2017, 108, 770-783.	2.5	19
16	Abrasion behavior of graphite pebble in lifting pipe of pebble-bed HTR. Nuclear Engineering and Design, 2015, 293, 395-402.	0.8	17
17	Graphite dust resuspension in an HTR-10 steam generator. Particuology, 2014, 17, 149-157.	2.0	15
18	Characterization of graphite dust produced by pneumatic lift. Nuclear Engineering and Design, 2016, 305, 104-109.	0.8	15

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19	A novel moment method using the log skew normal distribution for particle coagulation. <i>Journal of Aerosol Science</i> , 2019, 134, 95-108.	1.8	15
20	Numerical study of heat transfer and sulfuric acid decomposition in the process of hydrogen production. <i>International Journal of Energy Research</i> , 2019, 43, 5969-5982.	2.2	14
21	Sulfuric acid decomposition in the iodine-sulfur cycle using heat from a very high temperature gas-cooled reactor. <i>International Journal of Hydrogen Energy</i> , 2020, 46, 28969-28969.	3.8	14
22	Extended log-normal method of moments for solving the population balance equation for Brownian coagulation. <i>Aerosol Science and Technology</i> , 2019, 53, 332-343.	1.5	13
23	Flow and heat transfer analyses of a plate-fin heat exchanger in an HTGR. <i>Annals of Nuclear Energy</i> , 2017, 108, 316-328.	0.9	11
24	Study of the deposition of graphite dust in the inlet passageway of intermediate heat exchanger in VHTR. <i>Experimental and Computational Multiphase Flow</i> , 2019, 1, 29-37.	1.9	11
25	Influence of shock wave impinging region on supersonic film cooling. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 452-465.	2.8	10
26	Preliminary experiment design of graphite dust emission measurement under accident conditions for HTGR. <i>Nuclear Engineering and Design</i> , 2017, 316, 218-227.	0.8	9
27	Simulations of the dust behavior in the sampling and dust filters in the primary loop of HTR-10. <i>Nuclear Engineering and Design</i> , 2018, 340, 112-121.	0.8	9
28	A numerical study of particle deposition in HTGR steam generators. <i>Nuclear Engineering and Design</i> , 2018, 332, 70-78.	0.8	9
29	Thermodynamic analysis of a novel hydrogen-electricity-heat polygeneration system based on a very high-temperature gas-cooled reactor. <i>Energy</i> , 2022, 249, 123695.	4.5	9
30	A new approximation approach for analytically solving the population balance equation due to thermophoretic coagulation. <i>Journal of Aerosol Science</i> , 2019, 128, 125-137.	1.8	8
31	Structural Design Simulation of Bayonet Heat Exchanger for Sulfuric Acid Decomposition. <i>Energies</i> , 2021, 14, 422.	1.6	8
32	Experimental and numerical study of the effect of conjugate heat transfer on film cooling. <i>Experimental Heat Transfer</i> , 2017, 30, 355-368.	2.3	7
33	Study on the resuspension of graphite dust based on the Rock'n'Roll model. <i>Progress in Nuclear Energy</i> , 2017, 98, 313-320.	1.3	7
34	Resuspension of multilayer graphite dust particles in a high temperature gas-cooled reactor. <i>Nuclear Engineering and Design</i> , 2017, 322, 497-503.	0.8	6
35	Experimental study of thermophoretic deposition of HTGR graphite particles in a straight pipe. <i>Progress in Nuclear Energy</i> , 2018, 107, 136-147.	1.3	6
36	A numerical study of heat transfer enhancement by helically corrugated tubes in the intermediate heat exchanger of a very-high-temperature gas-cooled reactor. <i>Nuclear Engineering and Design</i> , 2021, 380, 111275.	0.8	6

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37	Mathematical model and atomic force microscopy measurements of adhesion between graphite particles and rough walls. <i>Applied Surface Science</i> , 2021, 562, 149976.	3.1	6
38	An analytical solution of the population balance equation for simultaneous Brownian and shear coagulation in the continuum regime. <i>Advanced Powder Technology</i> , 2020, 31, 2128-2135.	2.0	5
39	Analysis of internal heat exchange network and hydrogen production efficiency of iodine-sulfur cycle for nuclear hydrogen production. <i>International Journal of Energy Research</i> , 2022, 46, 15665-15682.	2.2	5
40	A numerical study on slip correction factor of dust particle in HTGR. <i>Nuclear Engineering and Design</i> , 2018, 340, 31-39.	0.8	4
41	Measurements and analysis of adhesive forces for micron particles on common indoor surfaces. <i>Indoor and Built Environment</i> , 2020, 29, 931-941.	1.5	4
42	Evaluation of thermophoretic effects on graphite dust coagulation in high-temperature gas-cooled reactors. <i>Particuology</i> , 2020, 51, 45-52.	2.0	4
43	Graphite dust emission evaluation in an HTGR depressurization accident. <i>Annals of Nuclear Energy</i> , 2020, 147, 107664.	0.9	4
44	An innovative design for measuring the enhanced mixing effect of a shock wave on supersonic film cooling. <i>International Communications in Heat and Mass Transfer</i> , 2021, 122, 105132.	2.9	4
45	Numerical Simulation of Graphite Dust Deposition in Pebble Bed Reactor Core of HTGR. , 2017, , .		3
46	Numerical investigation to optimize the inlet flow distributor of the intermediate heat exchanger in an HTGR. <i>Nuclear Engineering and Design</i> , 2020, 356, 110363.	0.8	3
47	Wear of graphite pebbles modeled using a macroscopic particle model in a pneumatic transport lifting pipe. <i>Powder Technology</i> , 2020, 361, 581-590.	2.1	3
48	Adhesion study between micron-scale graphite particles and rough walls using the finite element method. <i>Advanced Powder Technology</i> , 2021, 32, 1951-1962.	2.0	3
49	A new method for solving population balance equations using a radial basis function network. <i>Aerosol Science and Technology</i> , 2020, 54, 644-655.	1.5	2
50	Pneumatic vertical transport characteristics of the graphite pebble in a high temperature gas-cooled reactor. <i>Powder Technology</i> , 2020, 371, 256-266.	2.1	1
51	A Numerical Study of Particle Deposition Through Fuel Pebble Bed in HTGR. , 2018, , .		1
52	Inlet Passageway Optimization of Immediate Heat Exchanger in an HTGR. , 2018, , .		1
53	A numerical study of segmented cooling-stream injection in supersonic film cooling. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 156-171.	2.8	1
54	INFLUENCE OF COOLANT PRESSURE RATIO AND SHOCK WAVE ON SUPERSONIC FILM COOLING WITH TWO ROWS OF DISCRETE HOLES. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , 2019, 2019.27, 1596.	0.0	1

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55	EFFECT OF GRAPHITE DUST ABRASION ON HELIUM CIRCULATOR IMPELLER IN HIGH TEMPERATURE GAS COOLED REACTOR. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1307.	0.0	1
56	Study on graphite particle motion and impact in the helium circulator of HTGR. Nuclear Engineering and Design, 2021, 385, 111535.	0.8	1
57	Numerical study of thermal-hydraulic and dust-deposition of tube bundles in an intermediate heat exchanger. International Journal of Hydrogen Energy, 2022, 47, 27187-27198.	3.8	1
58	A Numerical Analysis on Graphite Dust Deposition and Resuspension in HTR-10 Steam Generator. , 2014, , .		0
59	ICONE23-1404 INFLUENCE OF THE FORCES ON THE ADHESION BEHAVIOR OF GRAPHITE DUST IN HTGR. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1-_ICONE23-1.	0.0	0
60	NUMERICAL INVESTIGATION ON HEAT TRANSFER ENHANCEMENT OF HELICALLY COILED TUBE WITH CORRUGATION IN INTERMEDIATE HEAT EXCHANGERS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1312.	0.0	0
61	THERMOPHORETIC EFFECTS ON AEROSOL COAGULATION IN HTGRS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1110.	0.0	0