

# Wei Peng

## List of Publications by Year in descending order

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61  
papers

842  
citations

516215

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525886

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g-index

61  
all docs

61  
docs citations

61  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	A numerical study of segmented cooling-stream injection in supersonic film cooling. Chinese Journal of Aeronautics, 2022, 35, 156-171.	2.8	1
2	Safety analysis of leakage in a nuclear hydrogen production system. International Journal of Hydrogen Energy, 2022, 47, 4916-4931.	3.8	26
3	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
4	Thermodynamic analysis of a novel hydrogen-“electricity”-heat polygeneration system based on a very high-temperature gas-cooled reactor. Energy, 2022, 249, 123695.	4.5	9
5	Analysis of internal heat exchange network and hydrogen production efficiency of iodine-“sulfur cycle for nuclear hydrogen production. International Journal of Energy Research, 2022, 46, 15665-15682.	2.2	5
6	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
7	An innovative design for measuring the enhanced mixing effect of a shock wave on supersonic film cooling. International Communications in Heat and Mass Transfer, 2021, 122, 105132.	2.9	4
8	Influence of shock wave impinging region on supersonic film cooling. Chinese Journal of Aeronautics, 2021, 34, 452-465.	2.8	10
9	Adhesion study between micron-scale graphite particles and rough walls using the finite element method. Advanced Powder Technology, 2021, 32, 1951-1962.	2.0	3
10	A numerical study of heat transfer enhancement by helically corrugated tubes in the intermediate heat exchanger of a very-high-temperature gas-cooled reactor. Nuclear Engineering and Design, 2021, 380, 111275.	0.8	6
11	Mathematical model and atomic force microscopy measurements of adhesion between graphite particles and rough walls. Applied Surface Science, 2021, 562, 149976.	3.1	6
12	Structural Design Simulation of Bayonet Heat Exchanger for Sulfuric Acid Decomposition. Energies, 2021, 14, 422.	1.6	8
13	Study on graphite particle motion and impact in the helium circulator of HTGR. Nuclear Engineering and Design, 2021, 385, 111535.	0.8	1
14	Measurements and analysis of adhesive forces for micron particles on common indoor surfaces. Indoor and Built Environment, 2020, 29, 931-941.	1.5	4
15	Numerical investigation to optimize the inlet flow distributor of the intermediate heat exchanger in an HTGR. Nuclear Engineering and Design, 2020, 356, 110363.	0.8	3
16	Wear of graphite pebbles modeled using a macroscopic particle model in a pneumatic transport lifting pipe. Powder Technology, 2020, 361, 581-590.	2.1	3
17	A review of HTGR graphite dust transport research. Nuclear Engineering and Design, 2020, 360, 110477.	0.8	28
18	Evaluation of thermophoretic effects on graphite dust coagulation in high-temperature gas-cooled reactors. Particuology, 2020, 51, 45-52.	2.0	4

#	ARTICLE	IF	CITATIONS
19	Modeling sulfuric acid decomposition in a bayonet heat exchanger in the iodine-sulfur cycle for hydrogen production. <i>Applied Energy</i> , 2020, 277, 115611.	5.1	22
20	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
21	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
22	Graphite dust emission evaluation in an HTGR depressurization accident. <i>Annals of Nuclear Energy</i> , 2020, 147, 107664.	0.9	4
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	NUMERICAL INVESTIGATION ON HEAT TRANSFER ENHANCEMENT OF HELICALLY COILED TUBE WITH CORRUGATION IN INTERMEDIATE HEAT EXCHANGERS. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , 2019, 2019.27, 1312.	0.0	0
31	THERMOPHORETIC EFFECTS ON AEROSOL COAGULATION IN HTGRS. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , 2019, 2019.27, 1110.	0.0	0
32	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
33	EFFECT OF GRAPHITE DUST ABRASION ON HELIUM CIRCULATOR IMPELLER IN HIGH TEMPERATURE GAS COOLED REACTOR. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , 2019, 2019.27, 1307.	0.0	1
34	Numerical predictions of the drag coefficients of irregular particles in an HTGR. <i>Annals of Nuclear Energy</i> , 2018, 115, 195-208.	0.9	23
35	Influence of hole geometry on film cooling effectiveness for a constant exit flow area. <i>Applied Thermal Engineering</i> , 2018, 130, 1404-1415.	3.0	39
36	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

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37	Simulations of the dust behavior in the sampling and dust filters in the primary loop of HTR-10. Nuclear Engineering and Design, 2018, 340, 112-121.	0.8	9
38	A numerical study of particle deposition in HTGR steam generators. Nuclear Engineering and Design, 2018, 332, 70-78.	0.8	9
39	Review on active thermal protection and its heat transfer for airbreathing hypersonic vehicles. Chinese Journal of Aeronautics, 2018, 31, 1929-1953.	2.8	189
40	Experimental study of thermophoretic deposition of HTGR graphite particles in a straight pipe. Progress in Nuclear Energy, 2018, 107, 136-147.	1.3	6
41	A Numerical Study of Particle Deposition Through Fuel Pebble Bed in HTGR. , 2018, , .		1
42	Inlet Passageway Optimization of Immediate Heat Exchanger in an HTGR. , 2018, , .		1
43	Experimental and numerical study of the effect of conjugate heat transfer on film cooling. Experimental Heat Transfer, 2017, 30, 355-368.	2.3	7
44	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
45	Study on the resuspension of graphite dust based on the Rock'n'Roll model. Progress in Nuclear Energy, 2017, 98, 313-320.	1.3	7
46	Flow and heat transfer analyses of a plate-fin heat exchanger in an HTGR. Annals of Nuclear Energy, 2017, 108, 316-328.	0.9	11
47	Preliminary experiment design of graphite dust emission measurement under accident conditions for HTGR. Nuclear Engineering and Design, 2017, 316, 218-227.	0.8	9
48	Numerical Simulation of Graphite Dust Deposition in Pebble Bed Reactor Core of HTGR. , 2017, , .		3
49	Resuspension of multilayer graphite dust particles in a high temperature gas-cooled reactor. Nuclear Engineering and Design, 2017, 322, 497-503.	0.8	6
50	Characterization of graphite dust produced by pneumatic lift. Nuclear Engineering and Design, 2016, 305, 104-109.	0.8	15
51	Thermophoretic and turbulent deposition of graphite dust in HTGR steam generators. Nuclear Engineering and Design, 2016, 300, 610-619.	0.8	21
52	Effect of Coolant Inlet Conditions on Supersonic Film Cooling. Journal of Spacecraft and Rockets, 2015, 52, 1456-1464.	1.3	28
53	Abrasion behavior of graphite pebble in lifting pipe of pebble-bed HTR. Nuclear Engineering and Design, 2015, 293, 395-402.	0.8	17
54	AFM measurements of adhesive forces between carbonaceous particles and the substrates. Nuclear Engineering and Design, 2015, 293, 87-96.	0.8	21

#	ARTICLE	IF	CITATIONS
55	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
56	Graphite dust resuspension in an HTR-10 steam generator. Particuology, 2014, 17, 149-157.	2.0	15
57	Effect of shock waves on supersonic film cooling with a slotted wall. Applied Thermal Engineering, 2014, 62, 187-196.	3.0	27
58	A Numerical Analysis on Graphite Dust Deposition and Resuspension in HTR-10 Steam Generator. , 2014, , .		0
59	Graphite dust resuspension in a depressurization accident of HTR. Nuclear Engineering and Design, 2013, 265, 785-790.	0.8	21
60	Graphite dust deposition in the HTR-10 steam generator. Particuology, 2013, 11, 533-539.	2.0	26
61	Influence of Shock Waves on Supersonic Film Cooling. Journal of Spacecraft and Rockets, 2009, 46, 67-73.	1.3	54