

# Mohamed

## List of Publications by Year in descending order

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220  
papers

4,842  
citations

94433

37  
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133252

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223  
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223  
docs citations

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times ranked

2301  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of refractory metal alloys and mechanically alloyed-oxide dispersion strengthened steels for space nuclear power systems. Journal of Nuclear Materials, 2005, 340, 93-112.	2.7	314
2	Enhanced nucleate boiling on copper micro-porous surfaces. International Journal of Multiphase Flow, 2010, 36, 780-792.	3.4	163
3	“SAIRS” Scalable Amtec Integrated Reactor space power System. Progress in Nuclear Energy, 2004, 45, 25-69.	2.9	134
4	Heat transfer of an impinging jet on a flat surface. International Journal of Heat and Mass Transfer, 1994, 37, 1915-1923.	4.8	115
5	High efficiency segmented thermoelectric unicouple for operation between 973 and 300 K. Energy Conversion and Management, 2003, 44, 1069-1088.	9.2	109
6	Efficient segmented thermoelectric unicouples for space power applications. Energy Conversion and Management, 2003, 44, 1755-1772.	9.2	109
7	Properties of noble gases and binary mixtures for closed Brayton Cycle applications. Energy Conversion and Management, 2008, 49, 469-492.	9.2	109
8	Noble gas binary mixtures for gas-cooled reactor power plants. Nuclear Engineering and Design, 2008, 238, 1353-1372.	1.7	103
9	Tests results and performance comparisons of coated and un-coated skutterudite based segmented unicouples. Energy Conversion and Management, 2006, 47, 174-200.	9.2	102
10	Saturation boiling of HFE-7100 from a copper surface, simulating a microelectronic chip. International Journal of Heat and Mass Transfer, 2003, 46, 1841-1854.	4.8	101
11	Space nuclear reactor power system concepts with static and dynamic energy conversion. Energy Conversion and Management, 2008, 49, 402-411.	9.2	100
12	Transient boiling from inclined and downward-facing surfaces in a saturated pool. International Journal of Refrigeration, 1993, 16, 414-422.	3.4	83
13	Deployment history and design considerations for space reactor power systems. Acta Astronautica, 2009, 64, 833-849.	3.2	75
14	Nucleate boiling of FC-72 and HFE-7100 on porous graphite at different orientations and liquid subcooling. Energy Conversion and Management, 2008, 49, 733-750.	9.2	74
15	Thermal conductivity correlation for uranium nitride fuel between 10 and 1923 K. Journal of Nuclear Materials, 1988, 151, 318-326.	2.7	73
16	Enhanced boiling of HFE-7100 dielectric liquid on porous graphite. Energy Conversion and Management, 2005, 46, 2455-2481.	9.2	73
17	Enhanced saturation and subcooled boiling of FC-72 dielectric liquid. International Journal of Heat and Mass Transfer, 2005, 48, 3736-3752.	4.8	69
18	On the use of noble gases and binary mixtures as reactor coolants and CBC working fluids. Energy Conversion and Management, 2008, 49, 1882-1891.	9.2	63

#	ARTICLE	IF	CITATIONS
19	A vapor flow model for analysis of liquid-metal heat pipe startup from a frozen state. International Journal of Heat and Mass Transfer, 1996, 39, 3767-3780.	4.8	61
20	Immersion cooling nucleate boiling of high power computer chips. Energy Conversion and Management, 2012, 53, 205-218.	9.2	61
21	Determination of operation envelopes for closed, two-phase thermosyphons. International Journal of Heat and Mass Transfer, 1999, 42, 889-903.	4.8	60
22	On the Predictions of Critical Heat Flux in Rod Bundles at Low Flow and Low Pressure Conditions. Heat Transfer Engineering, 1991, 12, 48-57.	1.9	55
23	Brayton rotating units for space reactor power systems. Energy Conversion and Management, 2009, 50, 2210-2232.	9.2	54
24	Noble-Gas Binary Mixtures for Closed-Brayton-Cycle Space Reactor Power Systems. Journal of Propulsion and Power, 2007, 23, 863-873.	2.2	51
25	Axial flow, multi-stage turbine and compressor models. Energy Conversion and Management, 2010, 51, 16-29.	9.2	51
26	Development and validation of a model for the chemical kinetics of graphite oxidation. Journal of Nuclear Materials, 2011, 411, 193-207.	2.7	51
27	Comparison of oxidation model predictions with gasification data of IG-110, IG-430 and NBG-25 nuclear graphite. Journal of Nuclear Materials, 2012, 420, 141-158.	2.7	51
28	Startup of a horizontal lithium-molybdenum heat pipe from a frozen state. International Journal of Heat and Mass Transfer, 2003, 46, 671-685.	4.8	49
29	Tests results of skutterudite based thermoelectric unicouples. Energy Conversion and Management, 2007, 48, 555-567.	9.2	49
30	A Review and Correlations for Convection Heat Transfer and Pressure Losses in Toroidal and Helically Coiled Tubes. Heat Transfer Engineering, 2017, 38, 447-474.	1.9	47
31	Submersion-Subcritical Safe Space (S4) reactor. Nuclear Engineering and Design, 2006, 236, 1759-1777.	1.7	45
32	Uranium nitride fuel swelling correlation. Journal of Nuclear Materials, 1990, 170, 169-177.	2.7	44
33	On the breakup of a thin liquid film subject to interfacial shear. Journal of Fluid Mechanics, 2004, 500, 113-133.	3.4	44
34	COMBINED EFFECTS OF SUBCOOLING AND SURFACE ORIENTATION ON POOL BOILING OF HFE-7100 FROM A SIMULATED ELECTRONIC CHIP. Experimental Heat Transfer, 2003, 16, 281-301.	3.2	42
35	Conceptual Design of HP-STMCs Space Reactor Power System for 110 kWe. AIP Conference Proceedings, 2004, , .	0.4	41
36	AMTEC/TE static converters for high energy utilization, small nuclear power plants. Energy Conversion and Management, 2004, 45, 511-535.	9.2	41

#	ARTICLE	IF	CITATIONS
37	Performance analysis of cascaded thermoelectric converters for advanced radioisotope power systems. <i>Energy Conversion and Management</i> , 2005, 46, 1083-1105.	9.2	39
38	Submersion criticality safety of fast spectrum space reactors: Potential spectral shift absorbers. <i>Nuclear Engineering and Design</i> , 2006, 236, 238-254.	1.7	38
39	Effects of inclination angle and liquid subcooling on nucleate boiling on dimpled copper surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 650-661.	4.8	38
40	Effect of Surface Orientation on Nucleate Boiling of FC-72 on Porous Graphite. <i>Journal of Heat Transfer</i> , 2006, 128, 1159-1175.	2.1	36
41	CFD analyses and correlation of pressure losses on the shell-side of concentric, helically-coiled tubes heat exchangers. <i>Nuclear Engineering and Design</i> , 2016, 305, 531-546.	1.7	36
42	Effects of metallic coatings on the performance of skutterudite-based segmented uncouples. <i>Energy Conversion and Management</i> , 2007, 48, 1383-1400.	9.2	34
43	Enhancement of Saturation Boiling of PF-5060 on Microporous Copper Dendrite Surfaces. <i>Journal of Heat Transfer</i> , 2010, 132, .	2.1	31
44	Nucleate Boiling Enhancements on Porous Graphite and Microporous and Macro-“Finned Copper Surfaces. <i>Heat Transfer Engineering</i> , 2012, 33, 175-204.	1.9	31
45	On force fields for molecular dynamics simulations of crystalline silica. <i>Computational Materials Science</i> , 2015, 107, 88-101.	3.0	31
46	A review of cesium thermionic converters with developed emitter surfaces. <i>Energy Conversion and Management</i> , 1997, 38, 533-549.	9.2	30
47	Dynamic Simulation of a Space Reactor System with Closed Brayton Cycle Loops. <i>Journal of Propulsion and Power</i> , 2010, 26, 394-406.	2.2	30
48	USES OF LIQUID-METAL AND WATER HEAT PIPES IN SPACE REACTOR POWER SYSTEMS. <i>Frontiers in Heat Pipes</i> , 2011, 2, .	0.9	30
49	High-Energy-Utilization, Dual-Mode System Concept for Mars Missions. <i>Journal of Propulsion and Power</i> , 2001, 17, 340-346.	2.2	29
50	Liquid Metal Loop and Heat Pipe Radiator for Space Reactor Power Systems. <i>Journal of Propulsion and Power</i> , 2006, 22, 1117-1134.	2.2	29
51	Spreaders for immersion nucleate boiling cooling of a computer chip with a central hot spot. <i>Energy Conversion and Management</i> , 2012, 53, 259-267.	9.2	29
52	Performance analyses of VHTR plants with direct and indirect closed Brayton cycles and different working fluids. <i>Progress in Nuclear Energy</i> , 2009, 51, 556-572.	2.9	28
53	DynMo-TE: Dynamic simulation model of space reactor power system with thermoelectric converters. <i>Nuclear Engineering and Design</i> , 2006, 236, 2501-2529.	1.7	27
54	Development and Comparison of a TOPAZ-II System Model with Experimental Data. <i>Nuclear Technology</i> , 1994, 108, 157-170.	1.2	24

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55	SCoRe " Concepts of Liquid Metal Cooled Space Reactors for Avoidance of Single-Point Failure. AIP Conference Proceedings, 2005, , .	0.4	24
56	Properties of Helium, Nitrogen and He-N <sub>2</sub> Binary Gas Mixtures. Journal of Thermophysics and Heat Transfer, 2008, 22, 442-456.	1.6	24
57	Effect of inclination on saturation boiling of PF-5060 dielectric liquid on 80- and 137- $\mu$ m thick copper micro-porous surfaces. International Journal of Thermal Sciences, 2012, 53, 42-48.	4.9	24
58	Saturation Nucleate Boiling and Correlations for PF-5060 Dielectric Liquid on Inclined Rough Copper Surfaces. Journal of Heat Transfer, 2014, 136, .	2.1	24
59	Transient Analysis and Startup Simulation of a Thermionic Space Nuclear Reactor System. Nuclear Technology, 1994, 105, 70-86.	1.2	24
60	Performance analysis of Pluto/Express, multitube AMTEC cells. Energy Conversion and Management, 1999, 40, 139-173.	9.2	23
61	Transient and Load-Following Characteristics of a Fully Integrated Single-Cell Thermionic Fuel Element. Nuclear Technology, 1993, 102, 145-166.	1.2	22
62	Space reactor power systems with no single point failures. Nuclear Engineering and Design, 2008, 238, 2245-2255.	1.7	22
63	Friction Numbers and Viscous Dissipation Heating for Laminar Flows of Water in Microtubes. Journal of Heat Transfer, 2008, 130, .	2.1	22
64	TRANSIENT ANALYSIS OF THE START-UP OF A WATER HEAT PIPE FROM A FROZEN STATE. Numerical Heat Transfer; Part A: Applications, 1995, 28, 461-486.	2.1	21
65	Performance comparison of potassium and sodium vapor anode, multi-tube AMTEC converters. Energy Conversion and Management, 2002, 43, 1931-1951.	9.2	21
66	Thermal-hydraulic and neutronic analyses of the submersion-subcritical, safe space (S4) reactor. Nuclear Engineering and Design, 2009, 239, 2809-2819.	1.7	21
67	Saturation boiling of PF-5060 on rough Cu surfaces: Bubbles transient growth, departure diameter and detachment frequency. International Journal of Heat and Mass Transfer, 2015, 91, 363-373.	4.8	21
68	Thermal-hydraulics analyses for 1/6 prismatic VHTR core and fuel element with and without bypass flow. Energy Conversion and Management, 2013, 67, 325-341.	9.2	20
69	Selection of Noble Gas Binary Mixtures for Brayton Space Nuclear Power Systems. , 2006, , .		19
70	Sectored Compact Space Reactor (SCoRe) concepts with a supplementary lunar regolith reflector. Progress in Nuclear Energy, 2009, 51, 93-108.	2.9	19
71	Long operation life reactor for lunar surface power. Nuclear Engineering and Design, 2011, 241, 2339-2352.	1.7	19
72	A performance comparison of SiGe and skutterudite based segmented thermoelectric devices. AIP Conference Proceedings, 2002, , .	0.4	18

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73	A walk-away safe, Very-Small, Long-Life, Modular (VSLIM) reactor for portable and stationary power. <i>Annals of Nuclear Energy</i> , 2019, 129, 181-198.	1.8	18
74	Design optimization and integration of nickel/Haynes-25 AMTEC cells into radioisotope power systems. <i>Energy Conversion and Management</i> , 2000, 41, 1703-1728.	9.2	17
75	Dissociative recombination coefficient for low temperature equilibrium cesium plasma. <i>Journal of Applied Physics</i> , 2002, 92, 690-697.	2.5	17
76	An Integrated Model of the TOPAZ-II Electromagnetic Pump. <i>Nuclear Technology</i> , 1994, 108, 171-180.	1.2	16
77	Review of Refractory Materials for Alkali Metal Thermal-to-Electric Conversion Cells. <i>Journal of Propulsion and Power</i> , 2001, 17, 547-556.	2.2	16
78	Numerical analysis of laminar flow in micro-tubes with a slip boundary. <i>Energy Conversion and Management</i> , 2009, 50, 1481-1490.	9.2	16
79	Probability-based threshold displacement energies for oxygen and silicon atoms in $\alpha$ -quartz silica. <i>Computational Materials Science</i> , 2016, 117, 164-171.	3.0	16
80	Thermally anisotropic composite heat spreaders for enhanced thermal management of high-performance microprocessors. <i>International Journal of Thermal Sciences</i> , 2016, 100, 213-228.	4.9	16
81	Thermal and performance analyses of efficient radioisotope power systems. <i>Energy Conversion and Management</i> , 2006, 47, 2290-2307.	9.2	15
82	Composite Spreader for Cooling Computer Chip With Non-Uniform Heat Dissipation. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2008, 31, 165-172.	1.3	15
83	Reactivity control options of space nuclear reactors. <i>Progress in Nuclear Energy</i> , 2009, 51, 526-542.	2.9	15
84	Neutronics and thermal-hydraulics analysis of a liquid metal fast reactor for expandable lunar surface power. <i>Annals of Nuclear Energy</i> , 2012, 41, 48-60.	1.8	15
85	Saturation Boiling Critical Heat Flux of PF-5060 Dielectric Liquid on Microporous Copper Surfaces. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	15
86	Nusselt number and development length correlations for laminar flows of water and air in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 277-294.	4.8	15
87	Two-Dimensional Steady-State and Transient Analyses of Single-Cell Thermionic Fuel Elements. <i>Nuclear Technology</i> , 1994, 108, 112-125.	1.2	14
88	Numerical investigation of potential elimination of "hot streaking" and stratification in the VHTR lower plenum using helicoid inserts. <i>Nuclear Engineering and Design</i> , 2010, 240, 995-1004.	1.7	14
89	Numerical Simulation and Turbulent Convection Heat Transfer Correlation for Coolant Channels in a Very-High-Temperature Reactor. <i>Heat Transfer Engineering</i> , 2013, 34, 1-14.	1.9	14
90	Chemical kinetics parameters and model validation for the gasification of PCEA nuclear graphite. <i>Journal of Nuclear Materials</i> , 2014, 444, 112-128.	2.7	14

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91	Bond-order reactive force fields for molecular dynamics simulations of crystalline silica. Computational Materials Science, 2016, 111, 269-276.	3.0	14
92	A review of experimental data and heat transfer correlations for parallel flow of alkali liquid metals and lead-bismuth eutectic in bundles. Nuclear Engineering and Design, 2017, 317, 199-219.	1.7	14
93	Estimates of helium gas release in <sup>238</sup> PuO <sub>2</sub> fuel particles for radioisotope heat sources and heater units. Journal of Nuclear Materials, 2000, 280, 1-17.	2.7	13
94	Performance analyses of an Nb-1Zr/C-103 vapor anode multi-tube alkali-metal thermal-to-electric conversion cell. Energy Conversion and Management, 2001, 42, 721-739.	9.2	13
95	An experimental investigation of the performance of a thermionic converter with planar molybdenum electrodes for low temperature applications. Energy Conversion and Management, 2002, 43, 911-936.	9.2	13
96	Validation of gasification model for NBG-18 nuclear graphite. Nuclear Engineering and Design, 2012, 250, 142-155.	1.7	13
97	Convection heat transfer of NaK-78 liquid metal in a circular tube and a tri-lobe channel. International Journal of Heat and Mass Transfer, 2015, 86, 234-243.	4.8	13
98	SLIMM-Scalable Liquid Metal cooled small Modular Reactor: Preliminary design and performance analyses. Progress in Nuclear Energy, 2015, 85, 56-70.	2.9	13
99	Saturation Boiling of HFE-7100 Dielectric Liquid on Copper Surfaces with Corner Pins at Different Inclinations. Journal of Enhanced Heat Transfer, 2009, 16, 103-122.	1.1	13
100	Sodium Vapor Pressure Losses in a Multitube, Alkali-Metal Thermal-to-Electric Converter. Journal of Thermophysics and Heat Transfer, 1999, 13, 117-125.	1.6	12
101	Efficient spreaders for cooling high-power computer chips. Applied Thermal Engineering, 2007, 27, 1072-1088.	6.0	12
102	Thermal conductivity of silicon using reverse non-equilibrium molecular dynamics. Journal of Applied Physics, 2018, 123, .	2.5	12
103	Forced and Combined Convection of Water in Rod Bundles. Heat Transfer Engineering, 1990, 11, 32-43.	1.9	11
104	Model Reference Adaptive Control with Selective State Variable Weighting Applied to a Space Nuclear Power System. Nuclear Science and Engineering, 1991, 109, 171-187.	1.1	11
105	Modeling of Remote Condensing AMTEC Cells. , 1994, , .		11
106	Thermal conductivity measurements of alumina powders and molded Min-K in vacuum. Energy Conversion and Management, 2001, 42, 599-612.	9.2	11
107	High Temperature Water Heat Pipes Radiator for a Brayton Space Reactor Power System. AIP Conference Proceedings, 2006, , .	0.4	11
108	Dose estimates in a lunar shelter with regolith shielding. Acta Astronautica, 2009, 64, 697-713.	3.2	11

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109	Bubbles Transient Growth in Saturation Boiling of PF-5060 Dielectric Liquid on Dimpled Cu Surfaces. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	11
110	Directional dependence of the threshold displacement energies in metal oxides. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 085009.	2.0	11
111	Reliability and vulnerability studies of the SP-100 dual-loop thermoelectric-electromagnetic pump. Journal of Propulsion and Power, 1990, 6, 305-314.	2.2	10
112	Experimental investigation of the ruthenium-uranium and rhenium-uranium binary systems. Journal of Nuclear Materials, 1994, 217, 304-321.	2.7	10
113	Thermal-hydraulic analysis of the pellet bed reactor for nuclear thermal propulsion. Nuclear Engineering and Design, 1994, 149, 387-400.	1.7	10
114	Test Results of Ya-21u Thermionic Space Power System. Nuclear Technology, 1997, 117, 1-14.	1.2	10
115	AMTEC Performance and Evaluation Analysis Model (APEAM): Comparison with test results of PX-4C, PX-5A, and PX-3A cells. AIP Conference Proceedings, 1998, , .	0.4	10
116	Performance comparison of thermionic converters with smooth and macro-grooved electrodes. Energy Conversion and Management, 1999, 40, 319-334.	9.2	10
117	Analyses of static energy conversion systems for small nuclear power plants. Progress in Nuclear Energy, 2003, 42, 283-310.	2.9	10
118	Temperature and burnup reactivities and operational lifetime for the submersion-subcritical, safe space (S <sup>4</sup> ) reactor. Nuclear Engineering and Design, 2007, 237, 552-564.	1.7	10
119	Effects of working fluid and shaft rotation speed on the performance of HTR plants and the size of CBC turbo-machine. Nuclear Engineering and Design, 2009, 239, 1811-1827.	1.7	10
120	Subcooled Boiling of PF-5060 Dielectric Liquid on Microporous Surfaces. Journal of Heat Transfer, 2011, 133, .	2.1	10
121	Sherwood number correlation for nuclear graphite gasification at high temperature. Progress in Nuclear Energy, 2013, 62, 26-36.	2.9	10
122	Thermal-hydraulics and safety analyses of the Solid Core-Sector Compact Reactor (SC-SCoRe) and power system. Progress in Nuclear Energy, 2014, 76, 216-231.	2.9	10
123	Low-enrichment and long-life Scalable Liquid Metal Cooled Small Modular (SLIMM-1.2) reactor. Nuclear Engineering and Design, 2017, 316, 163-185.	1.7	10
124	Thermal analyses of heat source assembly for a dual loop, Turbo-Brayton Radioisotope power system. Thermal Science and Engineering Progress, 2019, 10, 82-91.	2.7	10
125	Experimental investigation of saturation boiling of HFE-7000 dielectric liquid on rough copper surfaces. Thermal Science and Engineering Progress, 2020, 15, 100428.	2.7	10
126	Neutronics and Thermal-Hydraulics Analyses of the Pellet Bed Reactor for Nuclear Thermal Propulsion. Nuclear Technology, 1995, 109, 87-107.	1.2	9



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127	A three-dimensional, performance model of segmented thermoelectric converters. AIP Conference Proceedings, 2002, , .	0.4	9
128	Transient Analysis of Sulfur-Iodine Cycle Experiments and Very High Temperature Reactor Simulations Using MELCOR-H2. Nuclear Technology, 2009, 166, 76-85.	1.2	9
129	Performance and radiological analyses of a space reactor power system deployed into a 1000â€“3000km earth orbit. Progress in Nuclear Energy, 2010, 52, 236-248.	2.9	9
130	A neutronics analysis of long-life, sectored compact reactor concepts for lunar surface power. Progress in Nuclear Energy, 2011, 53, 106-118.	2.9	9
131	Investigations of irradiation effects in crystalline and amorphous SiC. Journal of Applied Physics, 2019, 126, .	2.5	9
132	SEDIMENTATION OF BINARY MIXTURES OF PARTICLES OF UNEQUAL DENSITIES AND OF DIFFERENT SIZES. Chemical Engineering Communications, 1985, 36, 99-119.	2.6	8
133	Application of a model-reference adaptive controller to a space nuclear power system. Journal of Propulsion and Power, 1992, 8, 1093-1102.	2.2	8
134	Thermal-Hydraulic Analyses of the Submersion-Subcritical Safe Space (Sâˆ\$4) Reactor. AIP Conference Proceedings, 2007, , .	0.4	8
135	Saturation and Subcooled Boiling of HFE-7100 on Pinned Surfaces at Different Orientations. Journal of Thermophysics and Heat Transfer, 2009, 23, 381-391.	1.6	8
136	Dielectric liquids natural convection on small rough Cu surfaces at different orientations. International Journal of Heat and Mass Transfer, 2015, 81, 289-296.	4.8	8
137	Computational Fluid Dynamics and Thermal-Hydraulic Analyses of SLIMM Reactor Passive Decay Heat Removal by Natural Circulation of Ambient Air. Nuclear Technology, 2016, 195, 1-14.	1.2	8
138	Status Report on the Throput Transient Heat Pipe Modeling Code. , 1994, , .		7
139	Experiments on Pool Boiling of Water from Downward-Facing Hemispheres. Nuclear Technology, 1999, 125, 52-69.	1.2	7
140	Compressor and Turbine Models of Brayton Units for Space Nuclear Power Systems. AIP Conference Proceedings, 2007, , .	0.4	7
141	High-Power Brayton Rotating Unit for Reactor and Solar Dynamic Power Systems. Journal of Propulsion and Power, 2010, 26, 167-176.	2.2	7
142	Natural circulation thermal-hydraulics model and analyses of â€œSLIMMâ€“ A small modular reactor. Annals of Nuclear Energy, 2017, 101, 516-527.	1.8	7
143	Experiments and correlations of saturation boiling of hfe-7000 dielectric liquid on rough inclined copper surfaces. International Journal of Heat and Mass Transfer, 2021, 164, 120540.	4.8	7
144	Pressurizer dynamic model and emulated programmable logic controllers for nuclear power plants cybersecurity investigations. Annals of Nuclear Energy, 2021, 154, 108121.	1.8	7

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145	Pellet bed reactor concepts for nuclear propulsion applications. Journal of Propulsion and Power, 1994, 10, 817-827.	2.2	6
146	Performance analysis of coated plutonia particle fuel compact for radioisotope heater units. Nuclear Engineering and Design, 2001, 208, 29-50.	1.7	6
147	Investigations of the performance of grooved electrodes thermionic converters at collector temperatures up to 1023 K. Energy Conversion and Management, 2004, 45, 1153-1173.	9.2	6
148	An analysis of coated particles fuel compact-general purpose heat source (CPFC-GPHS). Progress in Nuclear Energy, 2004, 44, 215-236.	2.9	6
149	Thermal Analyses of Composite Copper/ Porous Graphite Spreaders for Immersion Cooling Applications. , 2005, , 305.		6
150	Reliable and safe thermal coupling of generation-IV VHTR to a hydrogen fuel production complex. Thermal Science and Engineering Progress, 2017, 3, 164-170.	2.7	6
151	Analytical and Numerical Investigations of Friction Number for Laminar Flow in Microchannels. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	6
152	CFD and thermal-hydraulics analyses of liquid sodium heat transfer in 19-rod hexagonal bundles with scalloped walls. International Journal of Heat and Mass Transfer, 2019, 144, 118637.	4.8	6
153	SATURATION AND SUBCOOLED CHF CORRELATIONS FOR PF-5060 DIELECTRIC LIQUID ON INCLINED ROUGH COPPER SURFACES. Multiphase Science and Technology, 2014, 26, 139-170.	0.5	6
154	TRANSIENT HEAT CONDUCTION DURING QUENCHING OF DOWNWARD FACING COPPER AND STAINLESS STEEL CONVEX SURFACES. Numerical Heat Transfer; Part A: Applications, 1996, 29, 543-573.	2.1	5
155	Analysis of a vapor anode, multi-tube, potassium refractory AMTEC converter for space applications. AIP Conference Proceedings, 2001, , .	0.4	5
156	Capillary Limit of Evaporator Wick in Alkali Metal Thermal-to-Electric Converters. Journal of Thermophysics and Heat Transfer, 2002, 16, 141-153.	1.6	5
157	Effects of decreasing fuel enrichment on the design of the Pellet Bed Reactor (PeBR) for lunar outposts. Progress in Nuclear Energy, 2018, 104, 288-297.	2.9	5
158	Friction factor correlation for hexagonal bundles of bare tubes/rods and with flat and scalloped walls. Nuclear Engineering and Design, 2019, 353, 110230.	1.7	5
159	Gas-lift enhanced natural circulation of alkali and heavy liquid metals for passive cooling of nuclear reactors. International Journal of Multiphase Flow, 2021, 143, 103783.	3.4	5
160	NUMERICAL SOLUTION OF TRANSIENT HEAT CONDUCTION IN A CYLINDRICAL SECTION DURING QUENCHING. Numerical Heat Transfer; Part A: Applications, 1995, 28, 547-574.	2.1	4
161	Analysis of Ya-21u Thermionic Fuel Elements. Nuclear Technology, 1996, 116, 261-269.	1.2	4
162	Current capabilities of HPTAM for modeling high-temperature heat pipes™ startup from a frozen state. AIP Conference Proceedings, 2002, , .	0.4	4

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163	Electrical breakdown experiments with application to alkali metal thermal-to-electric converters. Energy Conversion and Management, 2003, 44, 819-843.	9.2	4
164	Comparative CFD analyses of liquid metal cooled reactor for lunar surface power. Nuclear Engineering and Design, 2014, 280, 105-121.	1.7	4
165	SATURATION NUCLEATE BOILING OF PF-5060 ON INCLINED DIMPLED SURFACES. , 2016, , .		4
166	Decay Heat Removal by Natural Circulation in a 550-kW(electric) SP-100 Power System for a Lunar Outpost. Nuclear Technology, 1992, 100, 271-286.	1.2	3
167	Effect of oxygen on the operation of a single-cell thermionic fuel element. Journal of Nuclear Materials, 1998, 256, 218-228.	2.7	3
168	Parametric analyses of vapor-anode, multitube AMTEC cells for Pluto/Express mission. AIP Conference Proceedings, 1998, , .	0.4	3
169	A thermal model of the conical evaporator in Pluto/Express, multi-tube AMTEC cells. , 1999, , .		3
170	Super-alloy, AMTEC cells for the pluto/express mission. , 1999, , .		3
171	A thermionic converter with a planar, macro-grooved emitter and 0.5 mm Gap. , 1999, , .		3
172	Dual-mode, high energy utilization system concept for mars missions. AIP Conference Proceedings, 2000, , .	0.4	3
173	An investigation of breakdown voltage in AMTECs. AIP Conference Proceedings, 2002, , .	0.4	3
174	Benefit of Lunar Regolith on Reflector Mass Savings. AIP Conference Proceedings, 2007, , .	0.4	3
175	Small Size Turbo-Machines for HTR Plants. , 2009, , .		3
176	High Performance Brayton Rotating Unit (UNM-BRU-3) for Space Reactor Power Systems. , 2009, , .		3
177	Safety guidelines for space nuclear reactor power and propulsion systems. , 2010, , 319-370.		3
178	Effects of Surface Roughness and Inclination Angle on Nucleate Boiling of PF-5060 Dielectric Liquid on Copper. , 2013, , .		3
179	Post-operation radiological source term and dose rate estimates for the Scalable Liquid Metal-cooled small Modular Reactor. Annals of Nuclear Energy, 2018, 115, 442-458.	1.8	3
180	Convection heat transfer of alkali liquid metals and LBE in hexagonal bundles of uniformly heated tubes with helical spacers. Thermal Science and Engineering Progress, 2018, 5, 339-350.	2.7	3

#	ARTICLE	IF	CITATIONS
181	Thermal analyses of high-power advanced thermoacoustic radioisotope power system for future space exploration missions. Nuclear Engineering and Design, 2021, 385, 111504.	1.7	3
182	Extinguishing by "slow quenching"™™ in a thick grid Cs-Ba tacitron. Journal of Applied Physics, 1997, 81, 50-57.	2.5	2
183	Performance evaluation of a thermionic converter with a macro-grooved emitter and a smooth collector. AIP Conference Proceedings, 1998, , .	0.4	2
184	Methods for determining operation life and reactivity depletion for space reactors with fast energy spectra. Progress in Nuclear Energy, 2009, 51, 366-373.	2.9	2
185	On the Performance of Very High Temperature Reactor Plants With Direct and Indirect Closed Brayton Cycles. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	2
186	Saturation and Subcooled Boiling on Copper Nano-Dendrites Surfaces. , 2010, , .		2
187	A point kinetics model for dynamic simulations of next generation nuclear reactor. Progress in Nuclear Energy, 2016, 92, 91-103.	2.9	2
188	A study of irradiation effects in TiO2 using molecular dynamics simulation and complementary in situ transmission electron microscopy. Journal of Applied Physics, 2018, 124, 095901.	2.5	2
189	Extrapolation of thermal conductivity in non-equilibrium molecular dynamics simulations to bulk scale. International Communications in Heat and Mass Transfer, 2020, 118, 104880.	5.6	2
190	Subcooled boiling critical heat flux of HFE-7000 dielectric liquid on inclined rough Cu. International Journal of Heat and Mass Transfer, 2021, 175, 121354.	4.8	2
191	Modeling and Optimization of Segmented Thermoelectric Generators for Terrestrial and Space Applications. , 2005, , 43-1-43-14.		2
192	SATURATION BOILING ON MPC: EFFECTS OF THICKNESS, INCLINATION ANGLE, TRANSIENT BUBBLE GROWTH, AND NUCLEATION SITE DENSITY. Multiphase Science and Technology, 2013, 25, 201-236.	0.5	2
193	A cybersecurity platform for simulating transient responses of emulated programmable logic controllers in instrumentation and control systems for a pwr plant. Journal of Cyber Security Technology, 2022, 6, 65-90.	2.9	2
194	Experimental Studies of the Air Coolability of TRIGA Reactors Following a Loss-of-Coolant Accident. Nuclear Technology, 1987, 76, 360-369.	1.2	1
195	FREE CONVECTION EXPERIMENTS OF ATMOSPHERIC AIR IN VERTICAL OPEN ANNULI. Chemical Engineering Communications, 1988, 63, 225-243.	2.6	1
196	Pool Boiling from Downward-Facing Curved Surfaces: Effects of Radius of Curvature and Edge Angle. Nuclear Technology, 1996, 114, 351-364.	1.2	1
197	Optimization of liquid-return artery in a vapor-anode, multitube AMTEC. AIP Conference Proceedings, 1998, , .	0.4	1
198	Conical evaporator and liquid-return wick model for vapor anode, multi-tube AMTEC cells. AIP Conference Proceedings, 2000, , .	0.4	1

#	ARTICLE	IF	CITATIONS
199	Radar Men on the Moon: A Brief Survey of Fission Surface Power Studies. AIP Conference Proceedings, 2008, , .	0.4	1
200	DynMo-CBC: Dynamic Simulation Model of a Space Reactor Power System with Multiple CBC Loops. , 2009, , .		1
201	Numerical analysis of spreaders with an enhancing nucleate boiling surface for immersion cooling of chips with central hot spots. , 2012, , .		1
202	A Heat Transfer Correlation for Flow Channels in a Prismatic Core VHTR. Fusion Science and Technology, 2012, 61, 161-166.	1.1	1
203	Neutronics and Thermal-Hydraulics Analysis of a Long Operational Life LMR for Lunar Surface Power. Fusion Science and Technology, 2012, 61, 349-354.	1.1	1
204	Transient gasification in an NBC-18 coolant channel of a VHTR prismatic fuel element. Progress in Nuclear Energy, 2013, 64, 16-30.	2.9	1
205	Characterization of radiation damage in TiO <sub>2</sub> using molecular dynamics simulations. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 085005.	2.0	1
206	Performance and Mass Estimates of CTM <sup>®</sup> ARPSs with Four GPHS Bricks. , 2005, , 54-1-54-14.		1
207	Parametric and Optimization Analyses of Cascaded Thermoelectric-Advanced Radioisotope Power Systems with Four GPHS Bricks. , 2005, , 55-1-55-13.		1
208	Solar Gel Ponds. Science, 1982, 217, 982-984.	12.6	1
209	Manned Mars Rover Powered by a Nuclear Reactor: Radiation Shield Analysis. Nuclear Technology, 1992, 99, 188-202.	1.2	0
210	Analysis of a lithium fluoride, porous thermal energy storage unit subjected to cyclical thermal loading. , 1997, , .		0
211	Helium release from [ <sup>238</sup> PuO] <sub>2</sub> fuel particles. AIP Conference Proceedings, 2000, , .	0.4	0
212	Coated particle fuel for radioisotope power systems and heater units: status and future research needs. AIP Conference Proceedings, 2000, , .	0.4	0
213	A high power, Coated Particle Fuel Compact Radioisotope Heat Unit. AIP Conference Proceedings, 2001, , .	0.4	0
214	Saturation pool boiling of HFE-7100 dielectric liquid in a simulated reduced gravity. AIP Conference Proceedings, 2002, , .	0.4	0
215	Shielding Electronic Devices from Monoenergetic 100-MeV Protons. Nuclear Science and Engineering, 2010, 166, 58-72.	1.1	0
216	An Investigation of Dose Estimates inside a Space Station Using Solar Protons Spectrum. Fusion Science and Technology, 2012, 61, 343-348.	1.1	0

#	ARTICLE	IF	CITATIONS
217	A Composite Cu/HOPG Heat Spreader for Immersion Cooling of High Power Chips. , 2015, , .		0
218	CFD analyses of passive decay heat removal for the Very-Small, Long-Life, Modular (VSLIM) reactor by natural circulation of ambient air. Thermal Science and Engineering Progress, 2019, 11, 50-65.	2.7	0
219	Passive and Walk-Away Safe Small and Microreactors for Electricity Generation and Production of Process Heat for Industrial Uses. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	0
220	Postoperation Dose Rate Estimates for the Very-Small, Long-Life, Modular Reactor. Journal of Nuclear Engineering and Radiation Science, 2020, 6, .	0.4	0