

# Mohamed S El-Genk

## List of Publications by Year in descending order

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244  
papers

5,616  
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81900  
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245  
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245  
docs citations

245  
times ranked

2651  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Pressurizer dynamic model and emulated programmable logic controllers for nuclear power plants cybersecurity investigations. Annals of Nuclear Energy, 2021, 154, 108121.	1.8	7
4	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
5	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
6	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
7	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
8	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
9	Selection and Validation of Fast and Synchronous Interface to the Controller of a Space Nuclear Reactor Power System. , 2020, , .		1
10	Postoperation Dose Rate Estimates for the Very-Small, Long-Life, Modular Reactor. Journal of Nuclear Engineering and Radiation Science, 2020, 6, .	0.4	0
11	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
12	Investigations of irradiation effects in crystalline and amorphous SiC. Journal of Applied Physics, 2019, 126, .	2.5	9
13	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
14	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
15	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
16	A walk-away safe, Very-Small, Long-Life, Modular (VSLIM) reactor for portable and stationary power. Annals of Nuclear Energy, 2019, 129, 181-198.	1.8	18
17	Nusselt number and development length correlations for laminar flows of water and air in microchannels. International Journal of Heat and Mass Transfer, 2019, 133, 277-294.	4.8	15
18	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

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19	Post-operation radiological source term and dose rate estimates for the Scalable Liquid Metal-cooled small Modular Reactor. <i>Annals of Nuclear Energy</i> , 2018, 115, 442-458.	1.8	3
20	Convection heat transfer of alkali liquid metals and LBE in hexagonal bundles of uniformly heated tubes with helical spacers. <i>Thermal Science and Engineering Progress</i> , 2018, 5, 339-350.	2.7	3
21	Point defects production and energy thresholds for displacements in crystalline and amorphous SiC. <i>Computational Materials Science</i> , 2018, 151, 73-83.	3.0	12
22	Effects of decreasing fuel enrichment on the design of the Pellet Bed Reactor (PeBR) for lunar outposts. <i>Progress in Nuclear Energy</i> , 2018, 104, 288-297.	2.9	5
23	A study of irradiation effects in TiO <sub>2</sub> using molecular dynamics simulation and complementary in situ transmission electron microscopy. <i>Journal of Applied Physics</i> , 2018, 124, 095901.	2.5	2
24	Characterization of radiation damage in TiO <sub>2</sub> using molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 085005.	2.0	1
25	Thermal conductivity of silicon using reverse non-equilibrium molecular dynamics. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	12
26	A Review and Correlations for Convection Heat Transfer and Pressure Losses in Toroidal and Helically Coiled Tubes. <i>Heat Transfer Engineering</i> , 2017, 38, 447-474.	1.9	47
27	A review of experimental data and heat transfer correlations for parallel flow of alkali liquid metals and lead-bismuth eutectic in bundles. <i>Nuclear Engineering and Design</i> , 2017, 317, 199-219.	1.7	14
28	Estimates of point defect production in $\alpha$ -quartz using molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 055001.	2.0	6
29	Low-enrichment and long-life Scalable Liquid Metal cooled small Modular (SLIMM-1.2) reactor. <i>Nuclear Engineering and Design</i> , 2017, 316, 163-185.	1.7	10
30	Natural circulation thermal-hydraulics model and analyses of "SLIMM" A small modular reactor. <i>Annals of Nuclear Energy</i> , 2017, 101, 516-527.	1.8	7
31	Directional dependence of the threshold displacement energies in metal oxides. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 085009.	2.0	11
32	Reliable and safe thermal coupling of generation-IV VHTR to a hydrogen fuel production complex. <i>Thermal Science and Engineering Progress</i> , 2017, 3, 164-170.	2.7	6
33	Computational Fluid Dynamics and Thermal-Hydraulic Analyses of SLIMM Reactor Passive Decay Heat Removal by Natural Circulation of Ambient Air. <i>Nuclear Technology</i> , 2016, 195, 1-14.	1.2	8
34	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
35	Bubbles Transient Growth in Saturation Boiling of PF-5060 Dielectric Liquid on Dimpled Cu Surfaces. <i>Journal of Thermal Science and Engineering Applications</i> , 2016, 8, .	1.5	11
36	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

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37	A point kinetics model for dynamic simulations of next generation nuclear reactor. Progress in Nuclear Energy, 2016, 92, 91-103.	2.9	2
38	Effects of inclination angle and liquid subcooling on nucleate boiling on dimpled copper surfaces. International Journal of Heat and Mass Transfer, 2016, 95, 650-661.	4.8	38
39	Thermally anisotropic composite heat spreaders for enhanced thermal management of high-performance microprocessors. International Journal of Thermal Sciences, 2016, 100, 213-228.	4.9	16
40	Bond-order reactive force fields for molecular dynamics simulations of crystalline silica. Computational Materials Science, 2016, 111, 269-276.	3.0	14
41	SATURATION NUCLEATE BOILING OF PF-5060 ON INCLINED DIMPLED SURFACES. , 2016, , .		4
42	A Composite Cu/HOPG Heat Spreader for Immersion Cooling of High Power Chips. , 2015, , .		0
43	Saturation Boiling Critical Heat Flux of PF-5060 Dielectric Liquid on Microporous Copper Surfaces. Journal of Heat Transfer, 2015, 137, .	2.1	15
44	On force fields for molecular dynamics simulations of crystalline silica. Computational Materials Science, 2015, 107, 88-101.	3.0	31
45	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
46	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
47	SLIMM-Scalable Liquid Metal cooled small Modular Reactor: Preliminary design and performance analyses. Progress in Nuclear Energy, 2015, 85, 56-70.	2.9	13
48	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
49	Saturation Nucleate Boiling and Correlations for PF-5060 Dielectric Liquid on Inclined Rough Copper Surfaces. Journal of Heat Transfer, 2014, 136, .	2.1	24
50	Comparative CFD analyses of liquid metal cooled reactor for lunar surface power. Nuclear Engineering and Design, 2014, 280, 105-121.	1.7	4
51	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
52	Chemical kinetics parameters and model validation for the gasification of PCEA nuclear graphite. Journal of Nuclear Materials, 2014, 444, 112-128.	2.7	14
53	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
54	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

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55	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
56	Sherwood number correlation for nuclear graphite gasification at high temperature. Progress in Nuclear Energy, 2013, 62, 26-36.	2.9	10
57	Effects of Surface Roughness and Inclination Angle on Nucleate Boiling of PF-5060 Dielectric Liquid on Copper. , 2013, , .		3
58	Numerical Simulation and Turbulent Convection Heat Transfer Correlation for Coolant Channels in a Very-High-Temperature Reactor. Heat Transfer Engineering, 2013, 34, 1-14.	1.9	14
59	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
60	Numerical analysis of spreaders with an enhancing nucleate boiling surface for immersion cooling of chips with central hot spots. , 2012, , .		1
61	A Heat Transfer Correlation for Flow Channels in a Prismatic Core VHTR. Fusion Science and Technology, 2012, 61, 161-166.	1.1	1
62	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
63	Nucleate Boiling Enhancements on Porous Graphite and Microporous and Macroâ€Finned Copper Surfaces. Heat Transfer Engineering, 2012, 33, 175-204.	1.9	31
64	Validation of gasification model for NBC-18 nuclear graphite. Nuclear Engineering and Design, 2012, 250, 142-155.	1.7	13
65	Neutronics and thermalâ€hydraulics analysis of a liquid metal fast reactor for expandable lunar surface power. Annals of Nuclear Energy, 2012, 41, 48-60.	1.8	15
66	Effect of inclination on saturation boiling of PF-5060 dielectric liquid on 80- and 137-1¼m thick copper micro-porous surfaces. International Journal of Thermal Sciences, 2012, 53, 42-48.	4.9	24
67	Immersion cooling nucleate boiling of high power computer chips. Energy Conversion and Management, 2012, 53, 205-218.	9.2	61
68	Spreader for immersion nucleate boiling cooling of a computer chip with a central hot spot. Energy Conversion and Management, 2012, 53, 259-267.	9.2	29
69	Comparison of oxidation model predictions with gasification data of IG-110, IG-430 and NBC-25 nuclear graphite. Journal of Nuclear Materials, 2012, 420, 141-158.	2.7	51
70	Long operation life reactor for lunar surface power. Nuclear Engineering and Design, 2011, 241, 2339-2352.	1.7	19
71	Development and validation of a model for the chemical kinetics of graphite oxidation. Journal of Nuclear Materials, 2011, 411, 193-207.	2.7	51
72	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

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73	Subcooled Boiling of PF-5060 Dielectric Liquid on Microporous Surfaces. Journal of Heat Transfer, 2011, 133, .	2.1	10
74	USES OF LIQUID-METAL AND WATER HEAT PIPES IN SPACE REACTOR POWER SYSTEMS. Frontiers in Heat Pipes, 2011, 2, .	0.9	30
75	Axial flow, multi-stage turbine and compressor models. Energy Conversion and Management, 2010, 51, 16-29.	9.2	51
76	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
77	Enhanced nucleate boiling on copper micro-porous surfaces. International Journal of Multiphase Flow, 2010, 36, 780-792.	3.4	163
78	Numerical investigation of potential elimination of "hot streaking" and stratification in the VHTR lower plenum using helicoid inserts. Nuclear Engineering and Design, 2010, 240, 995-1004.	1.7	14
79	Enhancement of Saturation Boiling of PF-5060 on Microporous Copper Dendrite Surfaces. Journal of Heat Transfer, 2010, 132, .	2.1	31
80	Dynamic Simulation of a Space Reactor System with Closed Brayton Cycle Loops. Journal of Propulsion and Power, 2010, 26, 394-406.	2.2	30
81	High-Power Brayton Rotating Unit for Reactor and Solar Dynamic Power Systems. Journal of Propulsion and Power, 2010, 26, 167-176.	2.2	7
82	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
83	Saturation and Subcooled Boiling on Copper Nano-Dendrites Surfaces. , 2010, , .		2
84	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
85	Small Size Turbo-Machines for HTR Plants. , 2009, , .		3
86	Numerical analysis of laminar flow in micro-tubes with a slip boundary. Energy Conversion and Management, 2009, 50, 1481-1490.	9.2	16
87	Brayton rotating units for space reactor power systems. Energy Conversion and Management, 2009, 50, 2210-2232.	9.2	54
88	Dose estimates in a lunar shelter with regolith shielding. Acta Astronautica, 2009, 64, 697-713.	3.2	11
89	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
90	Thermal-hydraulic and neutronic analyses of the submersion-subcritical, safe space (S4) reactor. Nuclear Engineering and Design, 2009, 239, 2809-2819.	1.7	21

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91	Sectored Compact Space Reactor (SCoRe) concepts with a supplementary lunar regolith reflector. Progress in Nuclear Energy, 2009, 51, 93-108.	2.9	19
92	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
93	Reactivity control options of space nuclear reactors. Progress in Nuclear Energy, 2009, 51, 526-542.	2.9	15
94	Performance analyses of VHTR plants with direct and indirect closed Brayton cycles and different working fluids. Progress in Nuclear Energy, 2009, 51, 556-572.	2.9	28
95	Deployment history and design considerations for space reactor power systems. Acta Astronautica, 2009, 64, 833-849.	3.2	75
96	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
97	Noble gas binary mixtures for gas-cooled reactor power plants. Nuclear Engineering and Design, 2008, 238, 1353-1372.	1.7	103
98	Space reactor power systems with no single point failures. Nuclear Engineering and Design, 2008, 238, 2245-2255.	1.7	22
99	Properties of noble gases and binary mixtures for closed Brayton Cycle applications. Energy Conversion and Management, 2008, 49, 469-492.	9.2	109
100	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
101	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
102	Space nuclear reactor power system concepts with static and dynamic energy conversion. Energy Conversion and Management, 2008, 49, 402-411.	9.2	100
103	On the introduction of nuclear power in Middle East countries: Promise, strategies, vision and challenges. Energy Conversion and Management, 2008, 49, 2618-2628.	9.2	8
104	Composite Spreader for Cooling Computer Chip With Non-Uniform Heat Dissipation. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 165-172.	1.3	15
105	Friction Numbers and Viscous Dissipation Heating for Laminar Flows of Water in Microtubes. Journal of Heat Transfer, 2008, 130, .	2.1	22
106	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
107	Radar Men on the Moon: A Brief Survey of Fission Surface Power Studies. AIP Conference Proceedings, 2008, , .	0.4	1
108	Reactivity Control Schemes for Fast Spectrum Space Nuclear Reactors. AIP Conference Proceedings, 2008, , .	0.4	0

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109	Thermal-Hydraulic Analyses of the Submersion-Subcritical Safe Space (S <sup>4</sup> ) Reactor. AIP Conference Proceedings, 2007, , .	0.4	8
110	Benefit of Lunar Regolith on Reflector Mass Savings. AIP Conference Proceedings, 2007, , .	0.4	3
111	Compressor and Turbine Models of Brayton Units for Space Nuclear Power Systems. AIP Conference Proceedings, 2007, , .	0.4	7
112	Noble-Gas Binary Mixtures for Closed-Brayton-Cycle Space Reactor Power Systems. Journal of Propulsion and Power, 2007, 23, 863-873.	2.2	51
113	Effects of metallic coatings on the performance of skutterudite-based segmented uncouples. Energy Conversion and Management, 2007, 48, 1383-1400.	9.2	34
114	Tests results of skutterudite based thermoelectric uncouples. Energy Conversion and Management, 2007, 48, 555-567.	9.2	49
115	Efficient spreaders for cooling high-power computer chips. Applied Thermal Engineering, 2007, 27, 1072-1088.	6.0	12
116	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
117	High Temperature Water Heat Pipes Radiator for a Brayton Space Reactor Power System. AIP Conference Proceedings, 2006, , .	0.4	11
118	Submersion criticality safety of fast spectrum space reactors: Potential spectral shift absorbers. Nuclear Engineering and Design, 2006, 236, 238-254.	1.7	38
119	Submersion-Subcritical Safe Space (S <sup>4</sup> ) reactor. Nuclear Engineering and Design, 2006, 236, 1759-1777.	1.7	45
120	DynMo-TE: Dynamic simulation model of space reactor power system with thermoelectric converters. Nuclear Engineering and Design, 2006, 236, 2501-2529.	1.7	27
121	Tests results and performance comparisons of coated and un-coated skutterudite based segmented uncouples. Energy Conversion and Management, 2006, 47, 174-200.	9.2	102
122	Thermal and performance analyses of efficient radioisotope power systems. Energy Conversion and Management, 2006, 47, 2290-2307.	9.2	15
123	Effect of Surface Orientation on Nucleate Boiling of FC-72 on Porous Graphite. Journal of Heat Transfer, 2006, 128, 1159-1175.	2.1	36
124	Liquid Metal Loop and Heat Pipe Radiator for Space Reactor Power Systems. Journal of Propulsion and Power, 2006, 22, 1117-1134.	2.2	29
125	Thermal Analyses of Composite Copper/ Porous Graphite Spreaders for Immersion Cooling Applications. , 2005, , 305.		6
126	Effect of Inclination on Pool Boiling of FC-72 Dielectric Liquid on Porous Graphite. , 2005, , 527.		4



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127	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
128	Enhanced saturation and subcooled boiling of FC-72 dielectric liquid. International Journal of Heat and Mass Transfer, 2005, 48, 3736-3752.	4.8	69
129	Performance analysis of cascaded thermoelectric converters for advanced radioisotope power systems. Energy Conversion and Management, 2005, 46, 1083-1105.	9.2	39
130	Enhanced boiling of HFE-7100 dielectric liquid on porous graphite. Energy Conversion and Management, 2005, 46, 2455-2481.	9.2	73
131	Conceptual Design of HP-STMCs Space Reactor Power System for 110 kWe. AIP Conference Proceedings, 2004, , .	0.4	41
132	Performance Analysis of Potassium Heat Pipes Radiator for HP-STMCs Space Reactor Power System. AIP Conference Proceedings, 2004, , .	0.4	15
133	Mechanically Alloyed-Oxide Dispersion Strengthened Steels for Use in Space Nuclear Power Systems. AIP Conference Proceedings, 2004, , .	0.4	2
134	AMTEC/TE static converters for high energy utilization, small nuclear power plants. Energy Conversion and Management, 2004, 45, 511-535.	9.2	41
135	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
136	An analysis of coated particles fuel compact-general purpose heat source (CPFC-GPHS). Progress in Nuclear Energy, 2004, 44, 215-236.	2.9	6
137	“SAIRS” Scalable Amtec Integrated Reactor space power System. Progress in Nuclear Energy, 2004, 45, 25-69.	2.9	134
138	Pool Boiling in Saturated and Subcooled FC-72 Dielectric Fluid From a Porous Graphite Surface. , 2004, , .		11
139	Electrical breakdown experiments with application to alkali metal thermal-to-electric converters. Energy Conversion and Management, 2003, 44, 819-843.	9.2	4
140	High efficiency segmented thermoelectric unicouple for operation between 973 and 300 K. Energy Conversion and Management, 2003, 44, 1069-1088.	9.2	109
141	Efficient segmented thermoelectric unicouples for space power applications. Energy Conversion and Management, 2003, 44, 1755-1772.	9.2	109
142	Analyses of static energy conversion systems for small nuclear power plants. Progress in Nuclear Energy, 2003, 42, 283-310.	2.9	10
143	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
144	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

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145	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
146	An Investigation of the Breakup of an Evaporating Liquid Film, Falling Down a Vertical, Uniformly Heated Wall. Journal of Heat Transfer, 2002, 124, 39-50.	2.1	30
147	Static Converter for High Energy Utilization, Modular, Small Nuclear Power Plants. , 2002, , 7.		3
148	A performance comparison of SiGe and skutterudite based segmented thermoelectric devices. AIP Conference Proceedings, 2002, , .	0.4	18
149	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
150	Performance comparison of potassium and sodium vapor anode, multi-tube AMTEC converters. Energy Conversion and Management, 2002, 43, 1931-1951.	9.2	21
151	On Visualization of Sub-Micron Particles with Dark-Field Light Microscopy. Journal of Colloid and Interface Science, 2002, 246, 410-412.	9.4	7
152	Automated Video Microscopic Imaging and Data Acquisition System for Colloid Deposition Measurements. Journal of Colloid and Interface Science, 2002, 246, 241-258.	9.4	15
153	Experimental investigation of a thermionic converter with Molybdenum electrodes for low temperature applications. AIP Conference Proceedings, 2001, , .	0.4	0
154	Performance analysis of coated plutonia particle fuel compact for radioisotope heater units. Nuclear Engineering and Design, 2001, 208, 29-50.	1.7	6
155	Minimum thickness of a flowing down liquid film on a vertical surface. International Journal of Heat and Mass Transfer, 2001, 44, 2809-2825.	4.8	103
156	Performance analyses of an Nb <sup>100</sup> Zr/C-103 vapor anode multi-tube alkali-metal thermal-to-electric conversion cell. Energy Conversion and Management, 2001, 42, 721-739.	9.2	13
157	Thermal conductivity measurements of alumina powders and molded Min-K in vacuum. Energy Conversion and Management, 2001, 42, 599-612.	9.2	11
158	High-Energy-Utilization, Dual-Mode System Concept for Mars Missions. Journal of Propulsion and Power, 2001, 17, 340-346.	2.2	29
159	Review of Refractory Materials for Alkali Metal Thermal-to-Electric Conversion Cells. Journal of Propulsion and Power, 2001, 17, 547-556.	2.2	16
160	Stress and Buckling Analyses of Multitube, Vapor-Anode, Nb-1Zr/C-103 AMTEC Cells. Journal of Propulsion and Power, 2001, 17, 557-565.	2.2	1
161	Application of Radio-Frequency Plasma Glow Discharge to Removal of Uranium Dioxide from Metal Surfaces. Nuclear Technology, 2000, 132, 290-308.	1.2	1
162	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

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163	Etching of UO <sub>2</sub> in NF <sub>3</sub> RF plasma glow discharge. Journal of Nuclear Materials, 2000, 277, 315-324.	2.7	19
164	Design optimization and integration of nickel/Haynes-25 AMTEC cells into radioisotope power systems. Energy Conversion and Management, 2000, 41, 1703-1728.	9.2	17
165	Conical evaporator and liquid-return wick model for vapor anode, multi-tube AMTEC cells. AIP Conference Proceedings, 2000, , .	0.4	1
166	Performance analysis of coated [sup 238]PuO[sub 2] fuel particles compact for radioisotope heater units. AIP Conference Proceedings, 2000, , .	0.4	0
167	A thermionic converter with a planar, macro-grooved emitter and 0.5 mm Gap. , 1999, , .		3
168	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
169	Determination of operation envelopes for closed, two-phase thermosyphons. International Journal of Heat and Mass Transfer, 1999, 42, 889-903.	4.8	60
170	Performance analysis of Pluto/Express, multitube AMTEC cells. Energy Conversion and Management, 1999, 40, 139-173.	9.2	23
171	Performance comparison of thermionic converters with smooth and macro-grooved electrodes. Energy Conversion and Management, 1999, 40, 319-334.	9.2	10
172	Coated particle fuel for radioisotope power systems (RPSs) and radioisotope heater units (RHUs). , 1999, , .		5
173	Experiments on Pool Boiling of Water from Downward-Facing Hemispheres. Nuclear Technology, 1999, 125, 52-69.	1.2	7
174	On colloidal particle sorption onto a stagnant air-water interface. Advances in Colloid and Interface Science, 1998, 78, 237-266.	14.7	54
175	Heat transfer correlations for small, uniformly heated liquid pools. International Journal of Heat and Mass Transfer, 1998, 41, 261-274.	4.8	47
176	Effect of oxygen on the operation of a planar thermionic converter for isothermal and isoflux heating conditions. Energy Conversion and Management, 1998, 39, 375-390.	9.2	3
177	Sorption of Hydrophobic, Negatively Charged Microspheres onto a Stagnant Air/Water Interface. Journal of Colloid and Interface Science, 1998, 202, 417-429.	9.4	42
178	Effect of oxygen on the operation of a single-cell thermionic fuel element. Journal of Nuclear Materials, 1998, 256, 218-228.	2.7	3
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