Altug Sisman

List of Publications by Year
in descending order

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49 papers	1,120 citations	394421 19 h-index	395702 33 g-index
49 all docs	49 docs citations	49 times ranked	466 citing authors

#	Article	IF	Citations
1	Quantum shape oscillations in the thermodynamic properties of confined electrons in coreâ€“shell nanostructures. Journal of Physics Condensed Matter, 2022, 34, 025301.	1.8	4
2	Thermodefect voltage in graphene nanoribbon junctions. Journal of Physics Condensed Matter, 2022, 34, 195304.	1.8	2
3	Effect of layered geological structures on borehole heat transfer. Geothermics, 2021, 91, 102043.	3.4	10
4	Fractional integral representation in statistical thermodynamics of confined systems. Physical Review E, 2021, 104, 054110.	2.1	4
5	Thermoshape effect for energy harvesting with nanostructures. Journal Physics D: Applied Physics, 2020, 53, 375501.	2.8	5
6	Landauerâ€™s Principle in a Quantum Szilard Engine without Maxwellâ€™s Demon. Entropy, 2020, 22, 294.	2.2	16
7	Thermosize voltage induced in a ballistic graphene nanoribbon junction. Journal of Applied Physics, 2019, 126, 104302.	2.5	2
8	Effects of arrangement geometry and number of boreholes on thermal interaction coefficient of multi-borehole heat exchangers. Applied Energy, 2019, 237, 163-170.	10.1	23
9	Discrete and Weyl density of states for photonic dispersion relation. Physica Scripta, 2019, 94, 105001.	2.5	4
10	Quantum shape effects and novel thermodynamic behaviors at nanoscale. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 655-665.	2.1	19
11	A new method for analysis of constant-temperature thermal response tests. Geothermics, 2019, 78, 1-8.	3.4	6
12	Quantum oscillations in confined and degenerate Fermi gases. I. Half-vicinity model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1807-1812.	2.1	9
13	Characterization of density oscillations in confined and degenerate Fermi gases. Modern Physics Letters B, 2018, 32, 1850393.	1.9	5
14	On the Compatibility of Electric Equivalent Circuit Models for Enhanced Flooded Lead Acid Batteries Based on Electrochemical Impedance Spectroscopy. Energies, 2018, 11, 118.	3.1	16
15	Quantum oscillations in confined and degenerate Fermi gases. II. The phase diagram and applications of half-vicinity model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1813-1817.	2.1	5
16	Thermosize potentials in semiconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2704-2708.	2.1	6
17	Parametric investigation of helical ground heat exchangers for heat pump applications. Energy and Buildings, 2016, 127, 999-1007.	6.7	44
18	Thermal performance analysis of multiple borehole heat exchangers. Energy Conversion and Management, 2016, 122, 544-551.	9.2	58

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19	Quantum degeneracy effect on gas diffusion. AIP Conference Proceedings, 2016, , .	0.4	0
20	Discrete density of states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1236-1240.	2.1	10
21	An analytical solution for quantum size effects on Seebeck coefficient. Physica Scripta, 2016, 91, 035803.	2.5	3
22	Experimental and computational investigation of multi U-tube boreholes. Applied Energy, 2015, 145, 163-171.	10.1	43
23	Dimensional transitions in thermodynamic properties of ideal Maxwellâ€“Boltzmann gases. Physica Scripta, 2015, 90, 045208.	2.5	7
24	Discrete nature of thermodynamics in confined ideal Fermi gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2001-2007.	2.1	18
25	Quantum forces of a gas confined in nano structures. Physica Scripta, 2013, 87, 045008.	2.5	12
26	Quantum size effects on classical thermosize effects. Continuum Mechanics and Thermodynamics, 2012, 24, 339-346.	2.2	20
27	Characterization of a thermoelectric generator at low temperatures. Energy Conversion and Management, 2012, 62, 47-50.	9.2	58
28	Thermodynamic Cycles Based on Classical Thermosize Effects. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1720-1726.	0.4	12
29	Classical Thermosize Effects in Degenerate Quantum Gases. Journal of Computational and Theoretical Nanoscience, 2011, 8, 2331-2334.	0.4	11
30	Effects of Particle-Wall Interactions on the Thermodynamic Behavior of Gases at the Nano Scale. International Journal of Thermodynamics, 2011, 14, .	1.0	0
31	Gas Diffusion at the Nano Scale. International Journal of Thermodynamics, 2011, 14, .	1.0	0
32	Thermodynamics of gases in nano cavities. Energy, 2010, 35, 814-819.	8.8	24
33	Universality of the quantum boundary layer for a Maxwellian gas. Physica Scripta, 2009, 79, 065002.	2.5	21
34	Quantum size effects on the thermal and potential conductivities of ideal gases. Physica Scripta, 2009, 80, 065402.	2.5	15
35	Two-dimensional thermal analysis of liquid hydrogen tank insulation. International Journal of Hydrogen Energy, 2009, 34, 6357-6363.	7.1	37
36	Quantum boundary layer: a non-uniform density distribution of an ideal gas in thermodynamic equilibrium. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 16-20.	2.1	48

#	Article	IF	Citations
37	The Casimir-like size effects in ideal gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 320, 360-366.	2.1	74
38	Surface dependency in thermodynamics of ideal gases. Journal of Physics A, 2004, 37, 11353-11361.	1.6	60
39	The improvement effect of quantum degeneracy on the work from a Carnot cycle. Applied Energy, 2001, 68, 367-376.	10.1	51
40	Brayton refrigeration cycles working under quantum degeneracy conditions. Applied Energy, 2001, 69, 77-85.	10.1	66
41	Jouleâ€“Thomson coefficients of quantum ideal-gases. Applied Energy, 2001, 70, 49-57.	10.1	17
42	Re-Optimisation of Otto Power Cycles Working with Ideal Quantum Gases. Physica Scripta, 2001, 64, 108-112.	2.5	43
43	Efficiency Analysis of a Stirling Power Cycle under Quantum Degeneracy Conditions. Physica Scripta, 2001, 63, 263-267.	2.5	48
44	Quantum degeneracy effect on the work output from a Stirling cycle. Journal of Applied Physics, 2001, 90, 3086-3089.	2.5	72
45	ON THE UPPER LIMIT FOR SURFACE TEMPERATURE OF A STATIC AND SPHERICAL BODY. International Journal of Modern Physics D, 2000, 09, 215-225.	2.1	0
46	On the power cycles working with ideal quantum gases: I. The Ericsson cycle. Journal Physics D: Applied Physics, 1999, 32, 664-670.	2.8	83
47	A comparison between the results of perturbation theory and TRIGAP for the reactivity worth calculations of fuel elements. Annals of Nuclear Energy, 1998, 25, 1133-1140.	1.8	0
48	The effect of joule losses on the total efficiency of a thermoelectric power cycle. Energy, 1995, 20, 573-576.	8.8	27
49	The contribution of thermal electron-positron pairs to the thermodynamic properties of black-body radiation. Journal of Physics A, 1995, 28, 5729-5735.	1.6	2