Saad B Mansoor

List of Publications by Year
in descending order

38 papers	368 citations	840585 11 h-index	887953 17 g-index
38 all docs	38 docs citations	38 times ranked	114 citing authors

#	Article	IF	Citations
1	Phonon transport in siliconâ€"silicon and siliconâ€"diamond thin films: Consideration of thermal boundary resistance at interface. Physica B: Condensed Matter, 2011, 406, 2186-2195.	1.3	38
2	Laser evaporative heating of surface: simulation of flow field in the laser produced cavity. Journal Physics D: Applied Physics, 2006, 39, 3863-3875.	1.3	33
3	Analytical solution of hyperbolic heat conduction equation in relation to laser short-pulse heating. Physica B: Condensed Matter, 2011, 406, 1550-1555.	1.3	24
4	Radiative phonon transport in silicon and collisional energy transfer in aluminum films due to laser short-pulse heating: Influence of laser pulse intensity on temperature distribution. Optics and Laser Technology, 2012, 44, 43-50.	2.2	23
5	Non-equilibrium energy transport in a thin metallic film: Analytical solution for radiative transport equation. Physica B: Condensed Matter, 2014, 454, 15-22.	1.3	22
6	Phonon and electron transport in aluminum thin film: Influence of film thickness on electron and lattice temperatures. Physica B: Condensed Matter, 2012, 407, 4643-4648.	1.3	21
7	Logistic characteristics of phonon transport in silicon thin film: the S-curve. Physica B: Condensed Matter, 2013, 426, 79-84.	1.3	19
8	FREQUENCY DEPENDENT PHONON TRANSPORT IN TWO-DIMENSIONAL SILICON AND DIAMOND THIN FILMS. Modern Physics Letters B, 2012, 26, 1250104.	1.0	14
9	Laser short-pulse heating of silicon-aluminum thin films. Optical and Quantum Electronics, 2011, 42, 601-618.	1.5	13
10	Laser shock processing: modeling of evaporation and pressure field developed in the laser-produced cavity. International Journal of Advanced Manufacturing Technology, 2009, 42, 250-262.	1.5	12
11	Energy transport in siliconâ€"aluminum composite thin film during laser short-pulse irradiation. Optical and Quantum Electronics, 2012, 44, 437-457.	1.5	11
12	Phonon Transport Characteristics in aÂThinÂSiliconÂFilm. Journal of Computational and Theoretical Transport, 2015, 44, 154-174.	0.3	11
13	Phonon transport across nano-scale curved thin films. Physica B: Condensed Matter, 2016, 503, 130-140.	1.3	11
14	Phonon transport in aluminum and silicon film pair: laser short-pulse irradiation at aluminum film surface. Canadian Journal of Physics, 2014, 92, 1614-1622.	0.4	10
15	Lattice Phonon and Electron Temperatures in Silicon-Aluminum Thin Films Pair: Comparison of Boltzmann Equation and Modified Two-Equation Model. Transport Theory and Statistical Physics, 2013, 42, 21-39.	0.4	9
16	Phonon transport in a curved aluminum thin film due to laser short pulse irradiation. Optics and Laser Technology, 2018, 101, 107-115.	2.2	9
17	Size effect on phonon transport in two-dimensional silicon film. Optical and Quantum Electronics, 2014, 46, 1467-1479.	1.5	8
18	Laser heating and surface evaporation. International Communications in Heat and Mass Transfer, 2005, 32, 822-830.	2.9	7

#	Article	IF	Citations
19	Laser pulse heating and vapor front generation. AICHE Journal, 2008, 54, 627-638.	1.8	7
20	Laser Short-Pulse Interaction of Aluminum and Silicon Films. Journal of Thermophysics and Heat Transfer, 2012, 26, 523-530.	0.9	7
21	Phonon Transport in Two-Dimensional Siliconâ€"Diamond Film Pair. Journal of Thermophysics and Heat Transfer, 2013, 27, 465-473.	0.9	7
22	Laser short-pulse heating of silicon film with the presence of metallic substrate. Current Applied Physics, 2010, 10, 1243-1248.	1.1	6
23	Influence of Heat Source Size on Phonon Transport in Thin Silicon Film. Transport Theory and Statistical Physics, 2013, 42, 65-84.	0.4	6
24	Laser pulse heating: Cavity formation into steel, nickel and tantalum surfaces. Optics and Laser Technology, 2008, 40, 723-734.	2.2	5
25	Phonon Transport in Silicon Thin Film: Effect of Temperature Oscillation on Effective Thermal Conductivity. Transport Theory and Statistical Physics, 2013, 42, 179-201.	0.4	5
26	Thermal Characteristics of an Aluminum Thin Film due to Temperature Disturbance at Film Edges. International Journal of Thermophysics, 2015, 36, 157-182.	1.0	4
27	Phonon Transport in Curved Thin Film: Effect of Film Curvature and Radius on Transport Characteristics. Journal of Computational and Theoretical Transport, 2017, 46, 283-306.	0.3	4
28	Entropy generation in laser heating in relation to machining. Heat and Mass Transfer, 2007, 44, 331-341.	1.2	3
29	Temperature Distribution in Silicon-Aluminum Thin Films with Presence of Thermal Boundary Resistance. Transport Theory and Statistical Physics, 2011, 40, 153-181.	0.4	3
30	Novel Analytical Approach for Solution of Radiative Transport Equation in Thin Films. Journal of Thermophysics and Heat Transfer, 2018, 32, 1104-1108.	0.9	3
31	A New Approach for Semi-Analytical Solution of Cross-plane Phonon Transport in Siliconâ€"Diamond Thin Films. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 359-372.	2.4	3
32	Microscale Thermal Energy Transfer Over a Combined System of Thin Films: Analytical Approach. Journal of Computational and Theoretical Transport, 2019, 48, 89-108.	0.3	3
33	Nonequilibrium cross-plane energy transport in aluminumâ€"siliconâ€"aluminum wafer. International Journal of Modern Physics B, 2015, 29, 1550112.	1.0	2
34	Semi-Analytical Solution of Equation for Phonon Radiative Transport Pertinent to Thin Films. Journal of Thermophysics and Heat Transfer, 2018, 32, 316-325.	0.9	2
35	COMPUTATIONAL ASPECTS OF RADIATIVE TRANSFER EQUATION IN NON-ORTHOGONAL COORDINATES. Journal of Thermal Engineering, 0, , 162-170.	0.8	2
36	Laser Evaporative Heating: Influence of Laser Pulse Intensity on the Cavity Formation. Heat Transfer Engineering, 2008, 29, 328-339.	1.2	1

#	Article	IF	Citations
37	Laser-Pulsed Heating of Aluminum: Cavity Formation at the Surface. Journal of Materials Engineering and Performance, 2008, 17, 920-927.	1.2	0
38	Pulsative heating of silicon thin film resembling laser pulses. Optics and Laser Technology, 2018, 108, 502-509.	2.2	0