Leonid A Dombrovsky

List of Publications by Year
in descending order

157 papers	3,150 citations	126907 33 h-index	214800 47 g-index
175 all docs	175 docs citations	175 times ranked	1358 citing authors

#	Article	IF	Citations
1	Laser-Induced Thermal Treatment of Superficial Human Tumors: An Advanced Heating Strategy and Non-Arrhenius Law for Living Tissues. , 2022, 1, .		9
2	Effect of ground-based environmental conditions on the level of dangerous ultraviolet solar radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108048.	2.3	3
3	Three scenarios of freezing of liquid marbles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128125.	4.7	5
4	On the universality of shapes of the freezing water droplets. Colloids and Interface Science Communications, 2022, 47, 100590.	4.1	16
5	AN IMPROVED SOLUTION FOR SHIELDING OF THERMAL RADIATION OF FIRES USING MIST CURTAINS OF PURE WATER OR SEA WATER. Computational Thermal Sciences, 2022, , .	0.9	3
6	Thermophoretic levitation of solid particles at atmospheric pressure. Advanced Powder Technology, 2022, 33, 103497.	4.1	4
7	Effect of asymmetric cooling of sessile droplets on orientation of the freezing tip. Journal of Colloid and Interface Science, 2022, 620, 179-186.	9.4	14
8	Specialty Grand Challenge for Heat Transfer and Thermal Power. , 2022, 2, .		1
9	Deep Heating of a Snowpack by Solar Radiation. , 2022, 2, .		6
10	Branched droplet clusters and the Kramers theorem. Physical Review E, 2022, 105, .	2.1	0
11	A hierarchical levitating cluster containing transforming small aggregates of water droplets. Microfluidics and Nanofluidics, 2022, 26, .	2.2	2
12	Levitating clusters of fluorinated fumed silica nanoparticles enable manufacture of liquid marbles: Co-occurrence of interfacial, thermal and electrostatic events. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129453.	4.7	2
13	Hierarchical liquid marbles formed using floating hydrophobic powder and levitating water droplets. Journal of Colloid and Interface Science, 2022, 626, 466-474.	9.4	2
14	Interaction of a Low-Power Laser Radiation with Nanoparticles Formed over the Copper Melt in Rarefied Argon Atmosphere. Thermo, 2021, 1, 1-14.	1.3	4
15	Solar Heating of the Cryosphere: Snow and Ice Sheets. Springer Series in Light Scattering, 2021, , 53-109.	0.6	7
16	Survival of Virus Particles in Water Droplets: Hydrophobic Forces and Landauerâ€™s Principle. Entropy, 2021, 23, 181.	2.2	13
17	Oscillatory Reversible Osmotic Growth of Sessile Saline Droplets on a Floating Polydimethylsiloxane Membrane. Fluids, 2021, 6, 232.	1.7	2
18	Osmotic evolution of composite liquid marbles. Journal of Colloid and Interface Science, 2021, 592, 167-173.	9.4	5

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19	Vertical oscillations of droplets in small droplet clusters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127271.	4.7	3
20	Continuous Symmetry Measure vs Voronoi Entropy of Droplet Clusters. Journal of Physical Chemistry C, 2021, 125, 2431-2436.	3.1	18
21	Thermal conditions for the formation of self-assembled cluster of droplets over the water surface. Journal of Physics: Conference Series, 2021, 2116, 012038.	0.4	1
22	An estimate of size of copper nanoparticles levitating over the melt surface using the measurements of spectral reflectance. Journal of Physics: Conference Series, 2021, 2116, 012060.	0.4	0
23	Light absorption by polluted snow cover: Internal versus external mixture of soot. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106799.	2.3	11
24	Modeling Evaporation of Water Droplets as Applied to Survival of Airborne Viruses. Atmosphere, 2020, 11, 965.	2.3	26
25	Stable cluster of identical water droplets formed under the infrared irradiation: Experimental study and theoretical modeling. International Journal of Heat and Mass Transfer, 2020, 161, 120255.	4.8	22
26	Impact of Surfactants on the Formation and Properties of Droplet Clusters. Langmuir, 2020, 36, 11154-11160.	3.5	9
27	Solar heating of ice sheets containing gas bubbles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 106991.	2.3	15
28	Symmetry of small clusters of levitating water droplets. Physical Chemistry Chemical Physics, 2020, 22, 12239-12244.	2.8	9
29	Effect of external electric field on dynamics of levitating water droplets. International Journal of Thermal Sciences, 2020, 153, 106375.	4.9	25
30	Effect of thermal properties of a substrate on formation of self-arranged surface structures on evaporated polymer films. International Journal of Heat and Mass Transfer, 2020, 158, 120053.	4.8	8
31	A comparative analysis of shielding of thermal radiation of fires using mist curtains containing droplets of pure water or sea water. International Journal of Thermal Sciences, 2020, 152, 106299.	4.9	35
32	In Memoriam - Graham de Vahl Davis. International Journal of Heat and Mass Transfer, 2020, 152, 119486.	4.8	0
33	Clustering and self-organization in small-scale natural and artificial systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190443.	3.4	13
34	The hydrothermal liquefaction as a promising procedure for microalgae-to-biofuel conversion: A general review and some thermophysical problems to be solved. High Temperatures - High Pressures, 2020, 48, 309-351.	0.3	2
35	Scattering of Radiation and Simple Approaches to Radiative Transfer in Thermal Engineering and Biomedical Applications. Springer Series in Light Scattering, 2019, , 71-127.	0.6	19
36	Self-Arranged Levitating Droplet Clusters: A Reversible Transition from Hexagonal to Chain Structure. Langmuir, 2019, 35, 15330-15334.	3.5	13

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37	Oscillatory Motion of a Droplet Cluster. Journal of Physical Chemistry C, 2019, 123, 23572-23576.	3.1	13
38	On snowpack heating by solar radiation: A computational model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 227, 72-85.	2.3	42
39	Droplet clusters: nature-inspired biological reactors and aerosols. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190121.	3.4	25
40	The influence of pollution on solar heating and melting of a snowpack. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 233, 42-51.	2.3	10
41	Professor Yogesh Jaluria on his 70th Birthday. International Journal of Heat and Mass Transfer, 2019, 140, 1106-1107.	4.8	0
42	On relative contribution of electrostatic and aerodynamic effects to dynamics of a levitating droplet cluster. International Journal of Heat and Mass Transfer, 2019, 133, 712-717.	4.8	24
43	COMBINED HEAT TRANSFER IN A SNOWPACK HEATED BY SOLAR RADIATION. , 2019, , .		0
44	ALTERNATIVE MODELS FOR OPTICAL PROPERTIES OF A HIGHLY-POROUS MEDIUM COMPOSED OF WOOD CHIPS. , 2019, , .		0
45	Directional reflectance of optically dense planetary atmosphere illuminated by solar light: An approximate solution and its verification. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 78-85.	2.3	12
46	Two-step method for radiative transfer calculations in a developing pool fire at the initial stage of its suppression by a water spray. International Journal of Heat and Mass Transfer, 2018, 127, 717-726.	4.8	19
47	An infrared scattering by evaporating droplets at the initial stage of a pool fire suppression by water sprays. Infrared Physics and Technology, 2018, 91, 55-62.	2.9	10
48	Self-Propulsion of Water-Supported Liquid Marbles Filled with Sulfuric Acid. Journal of Physical Chemistry B, 2018, 122, 7936-7942.	2.6	25
49	Optical properties of oakwood in the near-infrared range of semi-transparency. Applied Optics, 2018, 57, 6657.	1.8	5
50	Suppression of the condensational growth of droplets of a levitating cluster using the modulation of the laser heating power. International Journal of Heat and Mass Transfer, 2018, 127, 660-664.	4.8	12
51	The Effect of Gold Nanorods Clustering on Near-Infrared Radiation Absorption. Applied Sciences (Switzerland), 2018, 8, 1132.	2.5	21
52	COMPUTATIONAL PROBLEMS OF THERMAL RADIATION IN SOLAR ENGINEERING. High Temperature Material Processes, 2018, 22, 161-184.	0.6	4
53	NEW EXPERIMENTAL RESULTS ON DYNAMICS OF DROPLET CLUSTERS LEVITATING OVER THE LOCALLY HEATED WATER SURFACE. , 2018, , .		2
54	SELF-ASSEMBLED STABLE CLUSTERS OF DROPLETS OVER THE LOCALLY HEATED WATER SURFACE: MILESTONES OF THE LABORATORY STUDY. , 2018, , .		4

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55	Characterization of Self-Assembled 2D Patterns with Voronoi Entropy. Entropy, 2018, 20, 956.	2.2	49
56	A NEW PROCEDURE OF HYDROTHERMAL LIQUEFACTION OF MICROALGAE AFTER DIFFERENT THERMOCHEMICAL PRE-TREATMENTS. , 2018, , .		1
57	A MULTI-LAYERED COATING WITH EMBEDDED SMALL PARTICLES TO IMPROVE SHIELDING OF SPACE VEHICLES FROM INTENSE SOLAR IRRADIATION. , 2018, , .		0
58	A BACKUP SYSTEM OF A SPACECRAFT ORIENTATION BASED ON HEAT FLUX MEASUREMENTS AT THE STRUCTURE ELEMENTS OF VARIOUS ORIENTATIONS. , 2018, , .		0
59	TWO-STEP ITERATIVE METHOD FOR RADIATIVE TRANSFER CALCULATIONS IN AXISYMMETRIC FLAMES CONTAINING ABSORBING AND SCATTERING PARTICLES. , 2018, , .		0
60	Identification of radiative heat transfer parameters in multilayer thermal insulation of spacecraft. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 598-614.	2.8	13
61	Self-assembled levitating clusters of water droplets: pattern-formation and stability. Scientific Reports, 2017, 7, 1888.	3.3	61
62	Simple methods for identification of radiative properties of highly-porous ceria ceramics in the range of semi-transparency. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1108-1117.	2.8	10
63	Abnormally strong decrease in reflectance of molten copper due to possible generation of levitating sub-micron melt droplets. International Journal of Heat and Mass Transfer, 2017, 113, 53-58.	4.8	4
64	Academician Alexander Ivanovich Leontiev on his 90th birthday. International Journal of Heat and Mass Transfer, 2017, 109, 689.	4.8	0
65	A generalized analytical model for radiative transfer in vacuum thermal insulation of space vehicles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 166-172.	2.3	9
66	Kinetics of high-temperature thermal treatment of boehmite-based alumina in vacuum to produce pure alumina. International Journal of Heat and Mass Transfer, 2017, 110, 314-318.	4.8	5
67	Steam explosion in nuclear reactors: Droplets of molten steel vs core melt droplets. International Journal of Heat and Mass Transfer, 2017, 107, 432-438.	4.8	13
68	Expanding the temperature range for generation of droplet clusters over the locally heated water surface. International Journal of Heat and Mass Transfer, 2017, 113, 1054-1058.	4.8	19
69	Self-generated clouds of micron-sized particles as a promising way of a Solar Probe shielding from intense thermal radiation of the Sun. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 234-243.	2.3	13
70	Generation of levitating droplet clusters above the locally heated water surface: A thermal analysis of modified installation. International Journal of Heat and Mass Transfer, 2017, 104, 1268-1274.	4.8	32
71	Heat Generation in Gold Nanorods Solutions due to Absorption of Near-Infrared Radiation. , 2017, , .		2
72	Heat Generation in Gold Nanorods Solutions due to Absorption of Near-Infrared Radiation. , 2017, , .		0

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73	A NEW CONCEPT OF A SOLAR PROBE SHIELDING FROM INTENSE THERMAL RADIATION OF THE SUN. , 2017, , .		0
74	A NEW CONCEPT OF A SOLAR PROBE SHIELDING FROM INTENSE THERMAL RADIATION OF THE SUN. , 2017, , .		0
75	Near-infrared optical properties of a porous alumina ceramics produced by hydrothermal oxidation of aluminum. Infrared Physics and Technology, 2016, 77, 162-170.	2.9	42
76	Professor Oleg M. Alifanov on his 75th birthday. International Journal of Heat and Mass Transfer, 2016, 97, 1010-1011.	4.8	0
77	The use of infrared irradiation to stabilize levitating clusters of water droplets. Infrared Physics and Technology, 2016, 75, 124-132.	2.9	38
78	A new method to retrieve spectral absorption coefficient of highly-scattering and weakly-absorbing materials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 75-82.	2.3	9
79	A simplified model for the shielding of fire thermal radiation by water mists. International Journal of Heat and Mass Transfer, 2016, 96, 199-209.	4.8	39
80	Radiative heat transfer from supersonic flow with suspended particles to a blunt body. International Journal of Heat and Mass Transfer, 2016, 93, 853-861.	4.8	28
81	SHIELDING OF FIRE RADIATION WITH THE USE OF MULTI-LAYERED WATER MIST CURTAINS: PRELIMINARY ESTIMATES. Computational Thermal Sciences, 2016, 8, 371-380.	0.9	8
82	SHIELDING OF FIRE RADIATION WITH THE USE OF MULTI-LAYERED WATER MIST CURTAINS: PRELIMINARY ESTIMATES. , 2016, , .		0
83	A GENERALIZED ANALYTICAL MODEL FOR RADIATIVE TRANSFER IN VACUUM THERMAL INSULATION OF SPACE VEHICLES. , 2016, , .		0
84	Radiative heating of superficial human tissues with the use of water-filtered infrared-A radiation: A computational modeling. International Journal of Heat and Mass Transfer, 2015, 85, 311-320.	4.8	38
85	The use of infrared self-emission measurements to retrieve surface temperature of levitating water droplets. Infrared Physics and Technology, 2015, 69, 238-243.	2.9	20
86	Modeling of repeating freezing of biological tissues and analysis of possible microwave monitoring of local regions of thawing. International Journal of Heat and Mass Transfer, 2015, 89, 894-902.	4.8	26
87	RADIATIVE HEAT TRANSFER FROM SUPERSONIC FLOW WITH SUSPENDED POLYDISPERSE PARTICLES TO A BLUNT BODY: EFFECT OF COLLISIONS BETWEEN PARTICLES. Computational Thermal Sciences, 2015, 7, 313-325.	0.9	7
88	Simple physical models for engineering estimates of radiative transfer in particle clouds and dispersed materials. , 2014, , .		0
89	Spectroscopic diagnostics of morphological changes arising in thermal processing of polypropylene. Applied Optics, 2014, 53, 2702.	1.8	13
90	Effects of short-pulsed laser radiation on transient heating of superficial human tissues. International Journal of Heat and Mass Transfer, 2014, 78, 488-497.	4.8	26

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91	RADIATIVE TRANSFER IN VACUUM THERMAL INSULATION OF SPACE VEHICLES. Computational Thermal Sciences, 2014, 6, 103-111.	0.9	5
92	Radiative Heat Transfer Modeling in Supersonic Gas Flow with Suspended Particles to a Blunt Body. , 2014, , .		3
93	Visible and near-infrared optical properties of ceria ceramics. Infrared Physics and Technology, 2013, 57, 101-109.	2.9	57
94	Determination of Optical Constants of Ceria By Combined Analytical and Experimental Approaches. Jom, 2013, 65, 1694-1701.	1.9	6
95	Plasmonic â€œpumpâ€“probeâ€•method to study semi-transparent nanofluids. Applied Optics, 2013, 52, 6041.	1.8	60
96	SIMPLIFIED APPROACHES TO RADIATIVE TRANSFER SIMULATIONS IN LASER-INDUCED HYPERTHERMIA OF SUPERFICIAL TUMORS. Computational Thermal Sciences, 2013, 5, 521-530.	0.9	38
97	THERMAL RADIATION PROPERTIES OF HIGHLY POROUS CELLULAR FOAMS. Special Topics and Reviews in Porous Media, 2013, 4, 111-136.	1.1	41
98	THE USE OF TRANSPORT APPROXIMATION AND DIFFUSION-BASED MODELS IN RADIATIVE TRANSFER CALCULATIONS. Computational Thermal Sciences, 2012, 4, 297-315.	0.9	130
99	A Simplified Model of Laser Hyperthermia of Superficial Tumors Including Variation of Human Tissue Optical Properties With Thermal Damage. , 2012, , .		1
100	Indirect heating strategy for laser induced hyperthermia: An advanced thermal model. International Journal of Heat and Mass Transfer, 2012, 55, 4688-4700.	4.8	107
101	Efficiency of particle acceleration, heating, and melting in high-enthalpy plasma jets. High Temperature, 2012, 50, 145-153.	1.0	4
102	COMBINED TWO-FLUX APPROXIMATION AND MONTE CARLO MODEL FOR IDENTIFICATION OF RADIATIVE PROPERTIES OF HIGHLY SCATTERING DISPERSED MATERIALS. Computational Thermal Sciences, 2012, 4, 365-378.	0.9	40
103	LASER INDUCED HYPERTHERMIA OF SUPERFICIAL TUMORS: A TRANSIENT THERMAL MODEL FOR INDIRECT HEATING STRATEGY. Computational Thermal Sciences, 2012, 4, 457-475.	0.9	3
104	High Temperature Infrared Properties of <scp>YSZ</scp> Electrolyte Ceramics for <scp>SOFCs</scp>: Experimental Determination and Theoretical Modeling. Journal of the American Ceramic Society, 2011, 94, 4310-4316.	3.8	26
105	A combined transient thermal model for laser hyperthermia of tumors with embedded gold nanoshells. International Journal of Heat and Mass Transfer, 2011, 54, 5459-5469.	4.8	119
106	Attenuation of solar radiation by a water mist from the ultraviolet to the infrared range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1182-1190.	2.3	38
107	Approximate analytical solution to normal emittance of semi-transparent layer of an absorbing, scattering, and refracting medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1987-1994.	2.3	50
108	A Simple Physical Approach to Model Spectral Radiative Properties of Semi-Transparent Dispersed Materials. , 2011, , .		4

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109	An effect of turbulent clustering on scattering of microwave radiation by small particles in the atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 234-242.	2.3	18
110	An effect of â€œscattering by absorptionâ€•observed in near-infrared properties of nanoporous silica. Journal of Applied Physics, 2010, 107, .	2.5	29
111	An Extension of the Large-Cell Radiation Model for the Case of Semitransparent Nonisothermal Particles. Journal of Heat Transfer, 2010, 132, .	2.1	8
112	A COMPUTATIONAL MODEL FOR THERMAL RADIATION FROM THE ZONE OF MELT-WATER INTERACTION. Computational Thermal Sciences, 2010, 2, 535-547.	0.9	6
113	A COMBINED P1 AND MONTE CARLO MODEL FOR MULTIDIMENSIONAL RADIATIVE TRANSFER PROBLEMS IN SCATTERING MEDIA. Computational Thermal Sciences, 2010, 2, 549-560.	0.9	24
114	A Combined P1 and Monte Carlo Model for Radiative Transfer in Multi-Dimensional Anisotropically Scattering Media. , 2010, , .		1
115	Thermal Radiation From the Zone of Melt-Water Interaction: Computational Model and Some Numerical Results. , 2010, , .		0
116	An Extension of the Large-Cell Radiation Model for the Case of Semi-Transparent Nonisothermal Particles. , 2009, , .		2
117	Analysis of the effect of turbulence on thermal radiation transfer in a nonscattering medium. High Temperature, 2009, 47, 367-374.	1.0	0
118	The effect of clustering of particles on Rayleigh scattering of radiation in a turbulent flow. High Temperature, 2009, 47, 589-596.	1.0	0
119	Approximate model for break-up of solidifying melt particles due to thermal stresses in surface crust layer. International Journal of Heat and Mass Transfer, 2009, 52, 582-587.	4.8	19
120	A model for solid bubbles formation in meltâ€“coolant interaction. International Journal of Heat and Mass Transfer, 2009, 52, 1085-1093.	4.8	8
121	An ablation model for the thermal decomposition of porous zinc oxide layer heated by concentrated solar radiation. International Journal of Heat and Mass Transfer, 2009, 52, 2444-2452.	4.8	36
122	Atomization of superheated water: Results from experimental studies. Thermal Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	16
123	THERMAL RADIATION MODELING IN NUMERICAL SIMULATION OF MELT-COOLANT INTERACTION. Computational Thermal Sciences, 2009, 1, 1-35.	0.9	25
124	The effect of thermal radiation on the solidification dynamics of metal oxide melt droplets. Nuclear Engineering and Design, 2008, 238, 1421-1429.	1.7	39
125	THERMAL RADIATION MODELING IN NUMERICAL SIMULATION OF MELT-COOLANT INTERACTION. , 2008, , .		3
126	Near-infrared radiative properties of porous zirconia ceramics. Infrared Physics and Technology, 2007, 51, 44-53.	2.9	86

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127	In-vessel corium catcher of a nuclear reactor. Nuclear Engineering and Design, 2007, 237, 1745-1751.	1.7	4
128	Transient temperature and thermal stress profiles in semi-transparent particles under high-flux irradiation. International Journal of Heat and Mass Transfer, 2007, 50, 2117-2123.	4.8	34
129	A diffusion-based approximate model for radiation heat transfer in a solar thermochemical reactor. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 103, 601-610.	2.3	43
130	Infrared radiative properties of polymer coatings containing hollow microspheres. International Journal of Heat and Mass Transfer, 2007, 50, 1516-1527.	4.8	54
131	Large-cell model of radiation heat transfer in multiphase flows typical for fuelâ€“coolant interaction. International Journal of Heat and Mass Transfer, 2007, 50, 3401-3410.	4.8	38
132	An estimate of stability of large solidifying droplets in fuelâ€“coolant interaction. International Journal of Heat and Mass Transfer, 2007, 50, 3832-3836.	4.8	13
133	THERMAL RADIATION OF NONISOTHERMAL PARTICLES IN COMBINED HEAT TRANSFER PROBLEMS. , 2007, , .		11
134	Modified two-flux approximation for identification of radiative properties of absorbing and scattering media from directional-hemispherical measurements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 91.	1.5	94
135	Calculations of heat flowrates to the VVER-440 reactor vessel during interaction of corium melt with the reactor vessel. Thermal Engineering (English Translation of Teploenergetika), 2006, 53, 302-306.	0.9	4
136	Modeling of thermal radiation of polymer coating containing hollow microspheres. High Temperature, 2005, 43, 247-258.	1.0	22
137	Use of Mie theory to analyze experimental data to identify infrared properties of fused quartz containing bubbles. Applied Optics, 2005, 44, 7021.	2.1	80
138	The Propagation of Infrared Radiation in a Semitransparent Liquid Containing Gas Bubbles. High Temperature, 2004, 42, 146-153.	1.0	13
139	Nonuniform absorption of thermal radiation in semitransparent spherical particles under conditions of arbitrary illumination of a disperse system. High Temperature, 2004, 42, 975-986.	1.0	3
140	Absorption of thermal radiation in large semi-transparent particles at arbitrary illumination of the polydisperse system. International Journal of Heat and Mass Transfer, 2004, 47, 5511-5522.	4.8	55
141	Absorption of external thermal radiation in asymmetrically illuminated droplets. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 87, 119-135.	2.3	21
142	Heat Transfer by Radiation through a Vapor Gap under Conditions of Film Boiling of Liquid. High Temperature, 2003, 41, 819-824.	1.0	9
143	Spectral properties of diesel fuel droplets. Fuel, 2003, 82, 15-22.	6.4	57
144	Absorption of thermal radiation in a semi-transparent spherical droplet: a simplified model. International Journal of Heat and Fluid Flow, 2003, 24, 919-927.	2.4	57

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145	A simplified non-isothermal model for droplet heating and evaporation. International Communications in Heat and Mass Transfer, 2003, 30, 787-796.	5.6	58
146	An Estimate of the Temperature of Semitransparent Oxide Particles in Thermal Spraying. Heat Transfer Engineering, 2003, 24, 60-68.	1.9	40
147	A modified differential approximation for thermal radiation of semitransparent nonisothermal particles: application to optical diagnostics of plasma spraying. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 433-441.	2.3	45
148	The Growth and Stability of Vapor Film on the Surface of a Hot Spherical Particle. High Temperature, 2002, 40, 100-104.	1.0	5
149	Spectral Model of Absorption and Scattering of Thermal Radiation by Diesel Fuel Droplets. High Temperature, 2002, 40, 242-248.	1.0	44
150	Heat Transfer in a Heterogeneous Supersonic Flow. , 2002, , .		6
151	Heating and evaporation of semi-transparent diesel fuel droplets in the presence of thermal radiation. Fuel, 2001, 80, 1535-1544.	6.4	78
152	A MODIFIED DIFFERENTIAL APPROXIMATION FOR THERMAL RADIATION OF SEMITRANSPARENT NONISOTHERMAL PARTICLES: APPLICATION TO OPTICAL DIAGNOSTICS OF PLASMA SPRAYING. , 2001, , .		1
153	Thermal radiation from nonisothermal spherical particles of a semitransparent material. International Journal of Heat and Mass Transfer, 2000, 43, 1661-1672.	4.8	83
154	Heat transfer by radiation from a hot particle to ambient water through the vapor layer. International Journal of Heat and Mass Transfer, 2000, 43, 2405-2414.	4.8	21
155	Infrared and microwave radiative properties of metal coated microfibres. International Journal of Thermal Sciences, 1998, 37, 925-933.	0.2	9
156	Calculation of radiative heat transfer in a plane-parallel layer of an absorbing and scattering medium. Fluid Dynamics, 1972, 7, 691-695.	0.9	5
157	Thermal conditions for the formation of self-assembled cluster of droplets over the water surface and diversity of levitating droplet clusters. Heat and Mass Transfer, 0, , .	2.1	4