## Henning Struchtrup

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114 3,350 29 54 g-index

129 3,759 3.5 5.92 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
114	Thermodynamically admissible 13-moment equations. <i>Physics of Fluids</i> , <b>2022</b> , 34, 017105	4.4	1
113	Thermodynamic loss analysis of a liquid-sorbent direct air carbon capture plant. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100791	6.1	
112	Are waves with negative spatial damping unstable?. <i>Wave Motion</i> , <b>2020</b> , 97, 102612	1.8	1
111	Formulation of moment equations for rarefied gases within two frameworks of non-equilibrium thermodynamics: RET and GENERIC. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2020</b> , 378, 20190174	3	9
110	Modeling of Fuel Cell Cold Start and Dimension Reduction Simplification Method. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 044501	3.9	10
109	Entropy and the Second Law of Thermodynamics-The Nonequilibrium Perspective. <i>Entropy</i> , <b>2020</b> , 22,	2.8	3
108	R13 moment equations applied to supersonic flow with solid wall interaction 2019,		1
107	Grad⊠ 13 moments approximation for Enskog-Vlasov equation <b>2019</b> ,		6
106	Efficiencies and Work Losses for Cycles Interacting with Reservoirs of Apparent Negative Temperatures. <i>Entropy</i> , <b>2019</b> , 21,	2.8	1
105	Modeling and simulation of the dual stage pressure retarded osmosis systems. <i>Desalination</i> , <b>2019</b> , 460, 28-40	10.3	8
104	Modeling, simulation and optimization of a pressure retarded osmosis power station. <i>Applied Mathematics and Computation</i> , <b>2019</b> , 353, 189-207	2.7	4
103	Work Storage in States of Apparent Negative Thermodynamic Temperature. <i>Physical Review Letters</i> , <b>2018</b> , 120, 250602	7.4	11
102	Evaporation Boundary Conditions for the Linear R13 Equations Based on the Onsager Theory. <i>Entropy</i> , <b>2018</b> , 20,	2.8	5
101	Coupled constitutive relations: a second law based higher-order closure for hydrodynamics.  Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180323	3 <sup>2.4</sup>	5
100	Large scale energy storage using multistage osmotic processes: approaching high efficiency and energy density. Sustainable Energy and Fuels, 2017, 1, 599-614	5.8	4
99	Regulation of anti-Fourier heat transfer for non-equilibrium gas flows through micro/nanochannels. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 118, 24-39	4.1	9
98	Assessment and development of the gas kinetic boundary condition for the Boltzmann equation. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 823, 511-537	3.7	26

## (2013-2017)

Different variants of R13 moment equations applied to the shock-wave structure. <i>Physics of Fluids</i> , <b>2017</b> , 29, 037105	4.4	24	
Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. <i>Physics of Fluids</i> , <b>2017</b> , 29, 092004	4.4	13	
A moment model for phonon transport at room temperature. <i>Continuum Mechanics and Thermodynamics</i> , <b>2017</b> , 29, 117-144	3.5	2	
Evaporation/condensation boundary conditions for the regularized 13 moment equations 2016,		1	
The analysis of different variants of R13 equations applied to the shock-wave structure <b>2016</b> ,		6	
Thermodynamically admissible boundary conditions for the regularized 13 moment equations. <i>Physics of Fluids</i> , <b>2016</b> , 28, 027105	4.4	29	
DSMC and R13 modeling of the adiabatic surface. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 101, 9-23	4.1	15	
Multistage Pressure-Retarded Osmosis. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2016</b> , 41,	3.8	11	
Macroscopic and kinetic modelling of rarefied polyatomic gases. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 806, 437-505	3.7	18	
Regularized moment equations for binary gas mixtures: Derivation and linear analysis. <i>Physics of Fluids</i> , <b>2016</b> , 28, 042003	4.4	13	
Velocity dependent Maxwell boundary conditions in DSMC. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 87, 151-160	4.9	12	
A numerical study of the heat transfer through a rarefied gas confined in a microcavity. <i>Continuum Mechanics and Thermodynamics</i> , <b>2015</b> , 27, 433-446	3.5	25	
Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. <i>Physics of Fluids</i> , <b>2015</b> , 27, 112001	4.4	16	
Moment model and boundary conditions for energy transport in the phonon gas. <i>Continuum Mechanics and Thermodynamics</i> , <b>2014</b> , 26, 593-618	3.5	20	
Thermodynamics and Energy Conversion <b>2014</b> ,		21	
Kinetic model and moment method for polyatomic gases <b>2014</b> ,		1	
Capturing non-equilibrium phenomena in rarefied polyatomic gases: A high-order macroscopic model. <i>Physics of Fluids</i> , <b>2014</b> , 26, 052001	4.4	32	
Analysis of temperature difference driven heat and mass transfer in the PhillipsDnsager cell.  International Journal of Heat and Mass Transfer, 2013, 58, 521-531	4.9	6	
	Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. Physics of Fluids, 2017, 29, 092004  A moment model for phonon transport at room temperature. Continuum Mechanics and Thermodynamics, 2017, 29, 117-144  Evaporation/condensation boundary conditions for the regularized 13 moment equations 2016,  The analysis of different variants of R13 equations applied to the shock-wave structure 2016,  Thermodynamically admissible boundary conditions for the regularized 13 moment equations. Physics of Fluids, 2016, 28, 027105  DSMC and R13 modeling of the adiabatic surface. International Journal of Thermal Sciences, 2016, 101, 9-23  Multistage Pressure-Retarded Osmosis. Journal of Non-Equilibrium Thermodynamics, 2016, 41,  Macroscopic and kinetic modelling of rarefied polyatomic gases. Journal of Fluid Mechanics, 2016, 806, 437-505  Regularized moment equations for binary gas mixtures: Derivation and linear analysis. Physics of Fluids, 2016, 28, 042003  Velocity dependent Maxwell boundary conditions in DSMC. International Journal of Heat and Mass Transfer, 2015, 87, 151-160  A numerical study of the heat transfer through a rarefied gas confined in a microcavity. Continuum Mechanics and Thermodynamics, 2015, 27, 433-446  Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. Physics of Fluids, 2015, 27, 112001  Moment model and boundary conditions for energy transport in the phonon gas. Continuum Mechanics and Thermodynamics, 2014, 26, 593-618  Thermodynamics and Energy Conversion 2014,  Kinetic model and moment method for polyatomic gases 2014,  Capturing non-equilibrium phenomena in rarefied polyatomic gases: A high-order macroscopic model. Physics of Fluids, 2014, 26, 052001  Analysis of temperature difference driven heat and mass transfer in the PhillipsDnsager cell.	Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. <i>Physics of Fluids</i> , 2017, 29, 092004  A moment model for phonon transport at room temperature. <i>Continuum Mechanics and Thermodynamics</i> , 2017, 29, 117-144  3-35  Evaporation/condensation boundary conditions for the regularized 13 moment equations 2016,  The analysis of different variants of R13 equations applied to the shock-wave structure 2016,  Thermodynamically admissible boundary conditions for the regularized 13 moment equations. <i>Physics of Fluids</i> , 2016, 28, 027105  4-4  DSMC and R13 modeling of the adiabatic surface. <i>International Journal of Thermal Sciences</i> , 2016, 101, 9-23  Multistage Pressure-Retarded Osmosis. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2016, 41, 3-8  Macroscopic and kinetic modelling of rarefied polyatomic gases. <i>Journal of Fluid Mechanics</i> , 2016, 806, 437-505  Regularized moment equations for binary gas mixtures: Derivation and linear analysis. <i>Physics of Fluids</i> , 2016, 28, 042003  Velocity dependent Maxwell boundary conditions in DSMC. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 151-160  4-9  A numerical study of the heat transfer through a rarefied gas confined in a microcavity. <i>Continuum Mechanics and Thermodynamics</i> , 2015, 27, 433-446  Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. <i>Physics of Fluids</i> , 2015, 27, 112001  Moment model and boundary conditions for energy transport in the phonon gas. <i>Continuum Mechanics and Thermodynamics</i> , 2014, 26, 593-618  Thermodynamics and Energy Conversion 2014,  Kinetic model and moment method for polyatomic gases 2014.  Capturing non-equilibrium phenomena in rarefied polyatomic gases: A high-order macroscopic model. <i>Physics of Fluids</i> , 2014, 26, 052001  Analysis of temperature difference driven heat and mass transfer in the PhillipsDnsager cell.	Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. Physics of Fluids, 2017, 29, 092004  A moment model for phonon transport at room temperature. Continuum Mechanics and Thermodynamics, 2017, 29, 117-144  Evaporation/condensation boundary conditions for the regularized 13 moment equations 2016,  The analysis of different variants of R13 equations applied to the shock-wave structure 2016,  Thermodynamically admissible boundary conditions for the regularized 13 moment equations. Physics of Fluids, 2016, 28, 027105  DSMC and R13 modeling of the adiabatic surface. International Journal of Thermal Sciences, 2016, 101, 9-23  Multistage Pressure-Retarded Osmosis. Journal of Non-Equilibrium Thermodynamics, 2016, 41, 38 11  Macroscopic and kinetic modelling of rarefied polyatomic gases. Journal of Fluid Mechanics, 2016, 806, 437-505  Regularized moment equations for binary gas mixtures: Derivation and linear analysis. Physics of Fluids, 2016, 28, 042003  Velocity dependent Maxwell boundary conditions in DSMC. International Journal of Heat and Mass Transfer, 2015, 87, 151-160  A numerical study of the heat transfer through a rarefied gas confined in a microcavity. Continuum Mechanics and Thermodynamics, 2015, 27, 433-446  Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. Physics of Fluids, 2015, 27, 112001  Moment model and boundary conditions for energy transport in the phonon gas. Continuum Mechanics and Thermodynamics, 2014, 26, 593-618  Thermodynamics and Energy Conversion 2014,  Kinetic model and moment method for polyatomic gases 2014,  Capturing non-equilibrium phenomena in rarefied polyatomic gases: A high-order macroscopic model. Physics of Fluids, 2014, 26, 052001  Analysis of temperature difference driven heat and mass transfer in the PhillipsDnsager cell.

79	Maxwell boundary condition and velocity dependent accommodation coefficient. <i>Physics of Fluids</i> , <b>2013</b> , 25, 112001	4.4	32
78	A robust numerical method for the R13 equations of rarefied gas dynamics: Application to lid driven cavity. <i>Journal of Computational Physics</i> , <b>2013</b> , 236, 169-186	4.1	64
77	A Parallel DSMC Investigation of Monatomic/Diatomic Gas Flows in a Micro/Nano Cavity. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 63, 305-325	2.3	36
76	Regularized 13 moment equations for hard sphere molecules: Linear bulk equations. <i>Physics of Fluids</i> , <b>2013</b> , 25, 052001	4.4	23
75	PREDICTING CONTINUUM BREAKDOWN OF RAREFIED MICRO/NANO FLOWS USING ENTROPY AND ENTROPY GENERATION ANALYSIS. <i>International Journal of Modern Physics C</i> , <b>2013</b> , 24, 1350029	1.1	3
74	Thermal and second-law analysis of a micro- or nanocavity using direct-simulation Monte Carlo. <i>Physical Review E</i> , <b>2012</b> , 85, 056310	2.4	48
73	Resonance in rarefied gases. Continuum Mechanics and Thermodynamics, 2012, 24, 361-376	3.5	16
7 <sup>2</sup>	Regularized 13 moment equations for hard spheres <b>2012</b> ,		4
71	Poiseuille flow of moderately rarefied gases in annular channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 1291-1303	4.9	9
70	Temperature-difference-driven mass transfer through the vapor from a cold to a warm liquid. <i>Physical Review E</i> , <b>2012</b> , 85, 061201	2.4	6
69	Heat transfer in micro devices packaged in partial vacuum. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 362, 012034	0.3	8
68	Unique moment set from the order of magnitude method. <i>Kinetic and Related Models</i> , <b>2012</b> , 5, 417-440	2.4	3
67	Macroscopic transport models for rarefied gas flows: a brief review. <i>IMA Journal of Applied Mathematics</i> , <b>2011</b> , 76, 672-697	1	55
66	Interface model for non-equilibrium evaporation. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 31-42	3.3	12
65	Detailed Investigation of Thermal and Hydrodynamic Flow Behaviour in Micro/Nano Cavity Using DSMC and NSF Equations <b>2011</b> ,		1
64	Analytical and Numerical Solutions of Boundary Value Problems for the Regularized 13 Moment Equations <b>2011</b> ,		1
63	Comment on "Thermodynamically admissible 13 moment equations from the Boltzmann equation". <i>Physical Review Letters</i> , <b>2010</b> , 105, 128901; author reply 128902	7.4	12
62	An extended macroscopic transport model for rarefied gas flows in long capillaries with circular cross section. <i>Physics of Fluids</i> , <b>2010</b> , 22, 112004	4.4	19

### (2007-2010)

61	Rarefaction effects in thermally-driven microflows. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 3069-3080	3.3	23
60	Hybrid membrane/cryogenic separation of oxygen from air for use in the oxy-fuel process. <i>Energy</i> , <b>2010</b> , 35, 1884-1897	7.9	128
59	Effects of rarefaction in microflows between coaxial cylinders. <i>Physical Review E</i> , <b>2009</b> , 80, 066317	2.4	19
58	Modeling Micro Mass and Heat Transfer for Gases Using Extended Continuum Equations. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	9
57	Switching criteria for hybrid rarefied gas flow solvers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2009</b> , 465, 1581-1598	2.4	22
56	Macroscopic description of steady and unsteady rarefaction effects in boundary value problems of gas dynamics. <i>Continuum Mechanics and Thermodynamics</i> , <b>2009</b> , 21, 423-443	3.5	31
55	Inconsistency of a dissipative contribution to the mass flux in hydrodynamics. <i>Physical Review E</i> , <b>2009</b> , 80, 056303	2.4	31
54	Couette and Poiseuille microflows: Analytical solutions for regularized 13-moment equations. <i>Physics of Fluids</i> , <b>2009</b> , 21, 017102	4.4	80
53	Coupled Proton and Water Transport in Polymer Electrolyte Membranes. <i>Topics in Applied Physics</i> , <b>2009</b> , 123-155	0.5	1
52	Higher-order effects in rarefied channel flows. <i>Physical Review E</i> , <b>2008</b> , 78, 046301	2.4	55
51	External losses in high-bypass turbo fan air engines. International Journal of Exergy, 2008, 5, 400	1.2	9
50	Boundary conditions for Grad's 13 moment equations. <i>Progress in Computational Fluid Dynamics</i> , <b>2008</b> , 8, 69	0.7	5
49	Boundary conditions for regularized 13-moment-equations for micro-channel-flows. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 1982-2011	4.1	117
48	What does an ideal wall look like?. Continuum Mechanics and Thermodynamics, 2008, 19, 493-498	3.5	2
47	Thermodynamics of pore wetting and swelling in Nafion. <i>Journal of Membrane Science</i> , <b>2008</b> , 315, 125-	13326	16
46	Linear kinetic heat transfer: Moment equations, boundary conditions, and Knudsen layers. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2008</b> , 387, 1750-1766	3.3	29
45	A linearization of Mieussens's discrete velocity model for kinetic equations. <i>European Journal of Mechanics, B/Fluids</i> , <b>2007</b> , 26, 182-192	2.4	3
44	Thermodynamic considerations on the stability of water in Nafion. <i>Journal of Membrane Science</i> , <b>2007</b> , 297, 190-198	9.6	19

43	Bulk equations and Knudsen layers for the regularized 13 moment equations. <i>Continuum Mechanics and Thermodynamics</i> , <b>2007</b> , 19, 177-189	3.5	18
42	H theorem, regularization, and boundary conditions for linearized 13 moment equations. <i>Physical Review Letters</i> , <b>2007</b> , 99, 014502	7.4	73
41	The Mathematical Procedure of Coarse Graining: From Grad Ten-Moment Equations to Hydrodynamics. <i>Multiscale Modeling and Simulation</i> , <b>2007</b> , 6, 53-69	1.8	7
40	Comparing macroscopic continuum models for rarefied gas dynamics: A new test method. <i>Journal of Computational Physics</i> , <b>2006</b> , 218, 748-769	4.1	11
39	Scaling and Expansion of Moment Equations in Kinetic Theory. <i>Journal of Statistical Physics</i> , <b>2006</b> , 125, 569-591	1.5	12
38	Derivation of 13 Moment Equations for Rarefied Gas Flow to Second Order Accuracy for Arbitrary Interaction Potentials. <i>Multiscale Modeling and Simulation</i> , <b>2005</b> , 3, 221-243	1.8	37
37	Macroscopic transport equations for rarefied gas flows. <i>Interaction of Mechanics and Mathematics</i> , <b>2005</b> , 145-160	9	21
36	Regularized 13 moment equations for rarefied gas flows <b>2005</b> , 247-267		
35	Failures of the Burnett and super-Burnett equations in steady state processes. <i>Continuum Mechanics and Thermodynamics</i> , <b>2005</b> , 17, 43-50	3.5	32
34	Ellipsoidal statistical Bhatnagar@ross@rook model with velocity-dependent collision frequency. <i>Physics of Fluids</i> , <b>2005</b> , 17, 127103	4.4	32
33	Transport Phenomena in Polymer Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1804	3.9	63
32	Transport Phenomena in Polymer Electrolyte Membranes. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1815	3.9	40
31	Macroscopic Transport Equations for Rarefied Gas Flows. <i>Interaction of Mechanics and Mathematics</i> , <b>2005</b> ,	9	281
30	Stable transport equations for rarefied gases at high orders in the Knudsen number. <i>Physics of Fluids</i> , <b>2004</b> , 16, 3921-3934	4.4	82
29	Numerical comparison of Bhatnagar@ross@rook models with proper Prandtl number. <i>Physics of Fluids</i> , <b>2004</b> , 16, 2797-2813	4.4	79
28	Burnett equations for the ellipsoidal statistical BGK model. <i>Continuum Mechanics and Thermodynamics</i> , <b>2004</b> , 16, 97-108	3.5	11
27	Regularized 13-moment equations: shock structure calculations and comparison to Burnett models. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 513, 171-198	3.7	167
26	Mean evaporation and condensation coefficients based on energy dependent condensation probability. <i>Physical Review E</i> , <b>2004</b> , 70, 061605	2.4	120

#### (1998-2004)

25	Some Remarks on the Equations of Burnett and Grad. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2004</b> , 265-276	0.5	5
24	Grad® Moment Equations for Microscale Flows. AIP Conference Proceedings, 2003,	Ο	10
23	Explicit fluxes and productions for large systems of the moment method based on extended thermodynamics. <i>Continuum Mechanics and Thermodynamics</i> , <b>2003</b> , 15, 97-111	3.5	20
22	Regularization of Grad 13 moment equations: Derivation and linear analysis. <i>Physics of Fluids</i> , <b>2003</b> , 15, 2668-2680	4.4	308
21	How much work is lost in an irreversible turbine?. Exergy an International Journal, 2002, 2, 152-158		12
20	A Hybrid Sectional-moment Model for Coagulation and Phase Segregation in Binary Liquid Nanodroplets. <i>Journal of Nanoparticle Research</i> , <b>2002</b> , 4, 61-72	2.3	2
19	Heat transfer in the transition regime: solution of boundary value problems for Grad's moment equations via kinetic schemes. <i>Physical Review E</i> , <b>2002</b> , 65, 041204	2.4	27
18	Inflating a Rubber Balloon. <i>Mathematics and Mechanics of Solids</i> , <b>2002</b> , 7, 569-577	2.3	32
17	Positivity of Entropy Production Chapman-Enskog Expansion and Phase Density in the. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2001</b> , 15, 372-373	1.3	6
16	A model for kinetically controlled internal phase segregation during aerosol coagulation. <i>Journal of Aerosol Science</i> , <b>2001</b> , 32, 1479-1504	4.3	6
15	Moment equations for electrons in semiconductors: comparison of spherical harmonics and full moments. <i>Solid-State Electronics</i> , <b>2000</b> , 44, 95-103	1.7	16
14	Extended moment method for electrons in semiconductors. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2000</b> , 275, 229-255	3.3	18
13	Kinetic schemes and boundary conditions for moment equations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2000</b> , 51, 346	1.6	17
12	Temperature jump and velocity slip in the moment method. <i>Continuum Mechanics and Thermodynamics</i> , <b>2000</b> , 12, 1-18	3.5	31
11	The BGK model for an ideal gas with an internal degree of freedom. <i>Transport Theory and Statistical Physics</i> , <b>1999</b> , 28, 369-385		16
10	On the Number of Moments in Radiative Transfer Problems. <i>Annals of Physics</i> , <b>1998</b> , 266, 1-26	2.5	22
9	Projected moments in relativistic kinetic theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 253, 555-593	3.3	15
8	Maximum of the Local Entropy Production Becomes Minimal in Stationary Processes. <i>Physical Review Letters</i> , <b>1998</b> , 80, 5048-5051	7.4	49

7	Struchtrup and Weiss Reply:. Physical Review Letters, 1998, 81, 5701-5701	7.4	4
6	Extended Thermodynamics of Radiation. Springer Tracts in Natural Philosophy, 1998, 309-341		2
5	Extended Thermodynamics of Phonons. Springer Tracts in Natural Philosophy, 1998, 343-355		3
4	The BGK-model with velocity-dependent collision frequency. <i>Continuum Mechanics and Thermodynamics</i> , <b>1997</b> , 9, 23-31	3.5	42
3	An Extended Moment Method in Radiative Transfer: The Matrices of Mean Absorption and Scattering Coefficients. <i>Annals of Physics</i> , <b>1997</b> , 257, 111-135	2.5	27
2	Heat pulse experiments revisited. <i>Continuum Mechanics and Thermodynamics</i> , <b>1993</b> , 5, 3-50	3.5	248

Model Reduction in Kinetic Theory317-341