

Satoshi Taguchi

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

208
citations

1307594

7
h-index

1058476

14
g-index

27
all docs

27
docs citations

27
times ranked

88
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | One-way flow over uniformly heated U-shaped bodies driven by thermal edge effects. Scientific Reports, 2022, 12, 1929. | 3.3 | 1 |
| 2 | Inversion of the transverse force on a spinning sphere moving in a rarefied gas. Journal of Fluid Mechanics, 2022, 933, . | 3.4 | 2 |
| 3 | Switching between laser-induced thermophoresis and thermal convection of liquid suspension in a microgap with variable dimension. Electrophoresis, 2021, 42, 2401-2409. | 2.4 | 6 |
| 4 | Transient behaviour of a rarefied gas around a sphere caused by impulsive rotation. Journal of Fluid Mechanics, 2021, 909, . | 3.4 | 4 |
| 5 | A Generalized Slip-Flow Theory for a Slightly Rarefied Gas Flow Induced by Discontinuous Wall Temperature. Springer INdAM Series, 2021, , 327-344. | 0.5 | 0 |
| 6 | On the motion of slightly rarefied gas induced by a discontinuous surface temperature. Journal of Fluid Mechanics, 2020, 897, . | 3.4 | 5 |
| 7 | A rarefied gas flow around a rotating sphere: diverging profiles of gradients of macroscopic quantities. Journal of Fluid Mechanics, 2019, 862, 5-33. | 3.4 | 7 |
| 8 | Gradient Divergence of Fluid-Dynamic Quantities in Rarefied Gases on Smooth Boundaries. Journal of Statistical Physics, 2017, 168, 1319-1352. | 1.2 | 6 |
| 9 | Asymptotic far-field behavior of macroscopic quantities in a problem of slow uniform rarefied gas flow past a sphere. Physical Review Fluids, 2017, 2, . | 2.5 | 4 |
| 10 | Singular behavior of the macroscopic quantities in the free molecular gas. Physics of Fluids, 2016, 28, . | 4.0 | 3 |
| 11 | Asymptotic theory of a uniform flow of a rarefied gas past a sphere at low Mach numbers. Journal of Fluid Mechanics, 2015, 774, 363-394. | 3.4 | 10 |
| 12 | Motion of an array of plates in a rarefied gas caused by radiometric force. Physical Review E, 2015, 91, 063007. | 2.1 | 16 |
| 13 | On the drag exerted on the sphere by a slow uniform flow of a rarefied gas. , 2014, , . | | 1 |
| 14 | J0550205 Drag exerted on a spherical particle immersed in a rarefied gas flow. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0550205-_J0550205-. | 0.0 | 0 |
| 15 | Vacuum formation behind the expansion wave in a piston motion problem. Physical Review E, 2012, 86, 016305. | 2.1 | 1 |
| 16 | A simple model for flows around moving vanes in Crookes radiometer. , 2012, , . | | 2 |
| 17 | Rarefied gas flow around a sharp edge induced by a temperature field. Journal of Fluid Mechanics, 2012, 694, 191-224. | 3.4 | 38 |
| 18 | Diffusion model for Knudsen-type compressor composed of periodic arrays of circular cylinders. Physics of Fluids, 2010, 22, 102001. | 4.0 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Study of Promotion of Sublimation Phenomenon of Freeze Drying by Using Thermal Edge Flow(Fluids) Tj ETQq1 1 0.784314 rgBT /Ove Engineers Series B B-hen, 2009, 75, 1642-1648. | 0.2 | 2 |
| 20 | Rarefied gas flow over an in-line array of circular cylinders. Physics of Fluids, 2008, 20, . | 4.0 | 4 |
| 21 | A Two-Surface Problem of the Electron Flow in a Semiconductor on the Basis of Kinetic Theory. Journal of Statistical Physics, 2007, 130, 313-342. | 1.2 | 3 |
| 22 | Vapor Flows Along a Plane Condensed Phase with Weak Condensation in the Presence of a Noncondensable Gas. Journal of Statistical Physics, 2006, 124, 321-369. | 1.2 | 6 |
| 23 | Vapor flows condensing at incidence onto a plane condensed phase in the presence of a noncondensable gas. II. Supersonic condensation. Physics of Fluids, 2004, 16, 79-92. | 4.0 | 17 |
| 24 | Vapor flows in the continuum limit in the presence of a small amount of noncondensable gas. Physics of Fluids, 2004, 16, 4105-4120. | 4.0 | 6 |
| 25 | Vapor flows with evaporation and condensation in the continuum limit: effect of a trace of noncondensable gas. European Journal of Mechanics, B/Fluids, 2003, 22, 51-71. | 2.5 | 24 |
| 26 | Vapor flows condensing at incidence onto a plane condensed phase in the presence of a noncondensable gas. I. Subsonic condensation. Physics of Fluids, 2003, 15, 689-705. | 4.0 | 32 |