

# Minami Yoda

## 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.

87  
papers

1,550  
citations

22  
h-index

37  
g-index

101  
ext. papers

1,817  
ext. citations

2.8  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
87	Genetic algorithm based cooling energy optimization of data centers. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 3148-3168	4.5	0
86	Observations of the near-wall accumulation of suspended particles due to shear and electroosmotic flow in opposite directions. <i>Electrophoresis</i> , <b>2021</b> , 42, 2215-2222	3.6	1
85	Quantitative evaluation of latent fingerprints with novel enhancement and illumination. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2021</b> , 61, 635-648	2	0
84	Determining timescales for directed assembly of particles into bands by shear flow and electric fields. <i>Experiments in Fluids</i> , <b>2020</b> , 61, 1	2.5	1
83	Structured illumination microscopy: a new way to improve the axial spatial resolution of microscale particle velocimetry. <i>Experiments in Fluids</i> , <b>2020</b> , 61, 1	2.5	0
82	Super-Resolution Imaging in Fluid Mechanics Using New Illumination Approaches. <i>Annual Review of Fluid Mechanics</i> , <b>2020</b> , 52, 369-393	22	3
81	An Experimental Reversed Heat Flux Investigation of the Helium-Cooled Modular Divertor with Multiple Jets. <i>Fusion Science and Technology</i> , <b>2019</b> , 75, 879-885	1.1	1
80	Particle distribution and velocity in electrokinetically induced banding. <i>Microfluidics and Nanofluidics</i> , <b>2019</b> , 23, 1	2.8	9
79	Comparison of data driven modeling approaches for temperature prediction in data centers. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 1039-1052	4.9	22
78	Thermal Hydraulics of Helium-Cooled Finger-Type Divertors at Higher Incident Heat Fluxes. <i>Fusion Science and Technology</i> , <b>2019</b> , 75, 873-878	1.1	3
77	Dynamics of colloidal particles in microchannels under combined pressure and electric potential gradients. <i>Microfluidics and Nanofluidics</i> , <b>2019</b> , 23, 1	2.8	8
76	Experimentally Validated Computational Fluid Dynamics Model for Data Center With Active Tiles. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2018</b> , 140,	2	15
75	Experimental and numerical studies of helium-cooled modular divertors with multiple jets. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 67-71	1.7	4
74	Thermal Modeling of Data Centers for Control and Energy Usage Optimization. <i>Advances in Heat Transfer</i> , <b>2018</b> , 50, 123-186	1.9	2
73	Analysis of Co-Flow Water Cavitation Peening of Al7075-T651 Alloy Using High-Speed Imaging and Surface Pitting Tests. <i>Materials Performance and Characterization</i> , <b>2018</b> , 7, 20180021	0.5	1
72	Experimental observations of bands of suspended colloidal particles subject to shear flow and steady electric field. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	9
71	An Experimental Investigation of the Effect of Jet-to-Surface Distance on the Thermal Hydraulics of the Helium-Cooled Modular Divertor with Multiple Jets. <i>Fusion Science and Technology</i> , <b>2017</b> , 1-6	1.1	

70	Optimization of Multiple Jet Arrays for Helium-Cooled Finger-Type Divertors. <i>Fusion Science and Technology</i> , <b>2017</b> , 1-6	1.1	
69	Overview of Thermal Hydraulics of Helium-Cooled Solid Divertors. <i>Fusion Science and Technology</i> , <b>2017</b> , 1-9	1.1	3
68	Reversed Heat Flux Study of Impinging-Jet Water Cooling for Helium-Cooled Finger-Type Divertors. <i>Fusion Science and Technology</i> , <b>2017</b> , 1-6	1.1	
67	Effect of jet velocity in co-flow water cavitation jet peening. <i>Wear</i> , <b>2016</b> , 360-361, 38-50	3.5	21
66	An experimental study of buoyancy-Marangoni convection in confined and volatile binary fluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 102, 369-380	4.9	16
65	An Experimental Study of the Helium-Cooled Modular Divertor with Multiple Jets at Nearly Prototypical Conditions. <i>Fusion Science and Technology</i> , <b>2015</b> , 68, 541-545	1.1	12
64	Evaluation of Cooling Conditions for a High Heat Flux Testing Facility Based on Plasma-Arc Lamps. <i>Fusion Science and Technology</i> , <b>2015</b> , 68, 694-699	1.1	1
63	A Numerical Investigation of the Thermal-Hydraulics of the Helium-Cooled Modular Divertor with Multiple Jets. <i>Fusion Science and Technology</i> , <b>2015</b> , 68, 561-565	1.1	1
62	Experimental Evaluation of the Thermal Hydraulics of Helium-Cooled Divertors. <i>Fusion Science and Technology</i> , <b>2015</b> , 67, 142-157	1.1	14
61	The spatial resolution of dual-tracer fluorescence thermometry in volumetrically illuminated channels. <i>Experiments in Fluids</i> , <b>2014</b> , 55, 1	2.5	2
60	Electrokinetically driven reversible banding of colloidal particles near the wall. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1391-4	7.2	22
59	Convection driven by a horizontal temperature gradient in a confined aqueous surfactant solution: the effect of noncondensables. <i>Experiments in Fluids</i> , <b>2014</b> , 55, 1	2.5	7
58	Using Shear and DC Electric Fields to Manipulate and Self-Assemble Dielectric Particles on Microchannel Walls <b>2014</b> ,		1
57	Using Shear and Direct Current Electric Fields to Manipulate and Self-Assemble Dielectric Particles on Microchannel Walls. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2014</b> , 5,		4
56	Experimental study of the effect of noncondensables on buoyancy-thermocapillary convection in a volatile low-viscosity silicone oil. <i>Physics of Fluids</i> , <b>2014</b> , 26, 122112	4.4	26
55	Lift forces on colloidal particles in combined electroosmotic and Poiseuille flow. <i>Langmuir</i> , <b>2014</b> , 30, 13771-80	4	11
54	Evanescent Wave-Based Flow Diagnostics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2013</b> , 135,	2.1	10
53	Studying Interfacial Transport With Evanescent Wave-Based Particle Velocimetry and Thermometry. <i>Heat Transfer Engineering</i> , <b>2013</b> , 34, 101-112	1.7	4

52	An Experimental Study of the Effects of Solid-to-Coolant Thermal Conductivity Ratio in Helium-Cooled Divertor Modules. <i>Fusion Science and Technology</i> , <b>2013</b> , 64, 670-674	1.1	3
51	Verification of Thermal Performance Predictions of Prototypical Multi-Jet Impingement Helium-Cooled Divertor Module. <i>Fusion Science and Technology</i> , <b>2013</b> , 64, 282-287	1.1	8
50	Evanescent-wave particle velocimetry measurements of zeta-potentials in fused-silica microchannels. <i>Electrophoresis</i> , <b>2013</b> , 34, 1950-6	3.6	2
49	Extending Fluorescence Thermometry to Measuring Wall Surface Temperatures Using Evanescent-Wave Illumination. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	6
48	Dynamically Similar Studies of the Thermal Performance of Helium-Cooled Finger-Type Divertors with and Without Fins. <i>Fusion Science and Technology</i> , <b>2012</b> , 62, 379-388	1.1	9
47	Experimental study of the effect of external electric fields on interfacial dynamics of colloidal particles. <i>Langmuir</i> , <b>2011</b> , 27, 11481-8	4	31
46	Experimental and Numerical Investigation of Thermal Performance of Gas-Cooled Jet-Impingement Finger-Type Divertor Concept. <i>Fusion Science and Technology</i> , <b>2011</b> , 60, 223-227	1.1	5
45	Experimental Investigation of Fin Enhancement for Gas-Cooled Divertor Concepts. <i>Fusion Science and Technology</i> , <b>2011</b> , 60, 190-196	1.1	6
44	Recent US activities on advanced He-cooled W-alloy divertor concepts for fusion power plants. <i>Fusion Engineering and Design</i> , <b>2011</b> , 86, 71-98	1.7	62
43	Measurements of the near-wall hindered diffusion of colloidal particles in the presence of an electric field. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 124104	3.4	32
42	Acoustically induced streaming flows near a model cod otolith and their potential implications for fish hearing. <i>Journal of the Acoustical Society of America</i> , <b>2011</b> , 130, 1049-59	2.2	4
41	An experimental study of slip considering the effects of non-uniform colloidal tracer distributions. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 662, 269-287	3.7	39
40	Dual-tracer fluorescence thermometry measurements in a heated channel. <i>Experiments in Fluids</i> , <b>2010</b> , 49, 257-266	2.5	20
39	Effect of Divalent Ions on Electroosmotic Flow in Microchannels. <i>Mechanics Research Communications</i> , <b>2009</b> , 36, 65-74	2.2	28
38	Experimental and Numerical Investigation of the Thermal Performance of the Gas-Cooled Divertor Plate Concept. <i>Fusion Science and Technology</i> , <b>2009</b> , 56, 75-79	1.1	10
37	Thermal-Hydraulic Studies in Support of the ARIES-CS T-Tube Divertor Design. <i>Fusion Science and Technology</i> , <b>2008</b> , 54, 864-877	1.1	12
36	Steady streaming flows near spheroids oscillated at multiple frequencies. <i>Experiments in Fluids</i> , <b>2008</b> , 45, 295-307	2.5	9
35	Diffusion-induced bias in near-wall velocimetry. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 577, 443-456	3.7	35

34	Towards an in vivo biologically inspired nanofactory. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 3-7	28.7	152
33	Initial Conditions and Near-Field Dynamics in Turbulent Liquid Sheets. <i>Flow, Turbulence and Combustion</i> , <b>2007</b> , 79, 307-320	2.5	
32	On the Rayleigh-Taylor instability for confined liquid films with injection through the bounding surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 1529-1546	4.9	5
31	Multilayer nano-particle image velocimetry. <i>Experiments in Fluids</i> , <b>2006</b> , 41, 185-194	2.5	41
30	Visualization of steady streaming near oscillating spheroids. <i>Experiments in Fluids</i> , <b>2006</b> , 42, 111-121	2.5	29
29	An Overview of Georgia Tech Studies on the Fluid Dynamics Aspects of Liquid Protection Schemes for Fusion Reactors. <i>Fusion Science and Technology</i> , <b>2005</b> , 47, 601-609	1.1	2
28	Assessment and Control of Primary Turbulent Breakup of Thick Liquid Sheets in IFE Reactor Cavities: The Hydrodynamic Source Term. <i>Fusion Science and Technology</i> , <b>2005</b> , 47, 16-26	1.1	3
27	Design Constraints for Liquid-Protected Divertors. <i>Fusion Science and Technology</i> , <b>2005</b> , 47, 708-712	1.1	1
26	Pressure drop caused by abrupt flow area changes in small channels. <i>Experimental Thermal and Fluid Science</i> , <b>2005</b> , 29, 425-434	3	103
25	Impact of hindered Brownian diffusion on the accuracy of particle-image velocimetry using evanescent-wave illumination. <i>Experiments in Fluids</i> , <b>2005</b> , 38, 90-98	2.5	40
24	Surface Fluctuation Analysis for Turbulent Liquid Sheets. <i>Fusion Science and Technology</i> , <b>2004</b> , 45, 1-10	1.1	3
23	An experimental study of electro-osmotic flow in rectangular microchannels. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 506, 357-367	3.7	124
22	Operational Windows for Dry-Wall and Wetted-Wall IFE Chambers. <i>Fusion Science and Technology</i> , <b>2004</b> , 46, 401-416	1.1	21
21	Primary Breakup in Turbulent Liquid Films on Downward-Facing Surfaces. <i>Fusion Science and Technology</i> , <b>2004</b> , 46, 571-576	1.1	
20	Thermo Fluid Dynamics and Chamber Aerosol Behavior for Thin Liquid Wall under IFE Cyclic Operation. <i>Fusion Science and Technology</i> , <b>2004</b> , 46, 438-450	1.1	5
19	Effects of Surface Evaporation and Condensation on the Dynamics of Thin Liquid Films for the Porous Wetted Wall Protection Scheme in IFE Reactors. <i>Fusion Science and Technology</i> , <b>2003</b> , 44, 117-126 <sup>1.1</sup>	1.1	3
18	Turbulent Liquid Sheets for Protecting IFE Reactor Chamber First Walls. <i>Fusion Science and Technology</i> , <b>2003</b> , 44, 307-311	1.1	6
17	Experiments on High-Speed Liquid Films Over Downward-Facing Wetting and Nonwetting Surfaces. <i>Fusion Science and Technology</i> , <b>2003</b> , 44, 132-137	1.1	1

16	Fluid Dynamic Aspects of the Porous Wetted Wall Protection Scheme for Inertial Fusion Energy Reactors. <i>Fusion Science and Technology</i> , <b>2003</b> , 43, 366-377	1.1	5
15	Experimental Studies of High-Speed Liquid Films on Downward-Facing Surfaces for Inertial Fusion Energy Wet Wall Concepts. <i>Fusion Science and Technology</i> , <b>2003</b> , 43, 401-407	1.1	4
14	Particle velocity field measurements in a near-wall flow using evanescent wave illumination. <i>Experiments in Fluids</i> , <b>2003</b> , 34, 115-121	2.5	120
13	An aqueous low-viscosity density- and refractive index-matched suspension system. <i>Experiments in Fluids</i> , <b>2003</b> , 35, 1-3	2.5	12
12	IS THE FISH EAR AN AUDITORY RETINA? STEADY STREAMING IN THE OTOLITH-MACULA GAP. <i>Bioacoustics</i> , <b>2002</b> , 12, 131-134	1.6	4
11	Particle image velocimetry studies of a boundary layer perturbed by localized suction. <i>Experiments in Fluids</i> , <b>2001</b> , 30, 239-245	2.5	5
10	The circular cylinder in simple shear at moderate Reynolds numbers: An experimental study. <i>Experiments in Fluids</i> , <b>2001</b> , 30, 346-353	2.5	23
9	Moderate-aspect-ratio elliptical cylinders in simple shear with inertia. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 442, 241-266	3.7	44
8	Direct Visualization of Particle Dynamics in Model CMP Geometries. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 671, 1		1
7	A simple model for the refractive index of sodium iodide aqueous solutions. <i>Experiments in Fluids</i> , <b>2000</b> , 28, 282-283	2.5	46
6	Gas-liquid two-phase flow in narrow horizontal annuli. <i>Nuclear Engineering and Design</i> , <b>1999</b> , 192, 59-80	1.8	45
5	The round jet in a uniform counterflow: flow visualization and mean concentration measurements. <i>Experiments in Fluids</i> , <b>1996</b> , 21, 427-436	2.5	47
4	Instantaneous three-dimensional concentration measurements in the self-similar region of a round high-Schmidt-number jet. <i>Journal of Fluid Mechanics</i> , <b>1994</b> , 279, 313-350	3.7	51
3	The evolution and nature of large-scale structures in the turbulent jet. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1992</b> , 4, 803-811		26
2	Experimental and Numerical Evaluation of the Thermal-Fluid Characteristics of the Helium-Cooled Modular Divertor with Multiple Jets Using a Reversed Heat Flux Approach. <i>Fusion Science and Technology</i> , 1-7	1.1	
1	Updated Thermofluid Performance of the Simplified Flat Variant of the HEMJ. <i>Fusion Science and Technology</i> , 1-8	1.1	