

# Takuya Matsunaga

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1347574/publications.pdf>

Version: 2024-02-01

19  
papers

334  
citations

759233

12  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

164  
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into error accumulation due to biased particle distribution in semi-implicit particle methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114219.	6.6	17
2	Stabilized LSMPS method for complex free-surface flow simulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114416.	6.6	18
3	Axisymmetric free-surface flow simulation using the moving surface mesh particle method and application to drop formation. <i>Journal of Computational Physics</i> , 2022, , 111298.	3.8	1
4	Imposing accurate wall boundary conditions in correctiveâ€matrixâ€based moving particle semiâ€implicit method for free surface flow. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 148-175.	1.6	22
5	A coupled 3D isogeometric/least-square MPS approach for modeling fluidâ€structure interactions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113538.	6.6	11
6	Improvement of the time marching method in a particle method. <i>Transactions of the JSME (in Japanese)</i> , 2021, 87, 20-00437-20-00437.	0.2	3
7	Adaptive resizing-based multi-resolution particle method. <i>Mechanical Engineering Journal</i> , 2021, , .	0.4	0
8	Improved treatment of wall boundary conditions for a particle method with consistent spatial discretization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 358, 112624.	6.6	39
9	A wall boundary treatment using analytical volume integrations in a particle method. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 4101-4133.	2.8	14
10	Consistent Robin boundary enforcement of particle method for heat transfer problem with arbitrary geometry. <i>International Journal of Heat and Mass Transfer</i> , 2020, 157, 119919.	4.8	18
11	Moving surface mesh-incorporated particle method for numerical simulation of a liquid droplet. <i>Journal of Computational Physics</i> , 2020, 409, 109349.	3.8	25
12	Bucket-based multigrid preconditioner for solving pressure Poisson equation using a particle method. <i>Computers and Fluids</i> , 2019, 191, 104242.	2.5	3
13	An ALE particle method using upwind interpolation. <i>Computers and Fluids</i> , 2017, 145, 21-36.	2.5	17
14	The overlapping particle technique for multi-resolution simulation of particle methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 325, 434-462.	6.6	48
15	Hybrid grid-particle method for fluid mixing simulation. <i>Computational Particle Mechanics</i> , 2015, 2, 233-246.	3.0	12
16	Performance improvements of differential operators code for MPS method on GPU. <i>Computational Particle Mechanics</i> , 2015, 2, 261-272.	3.0	14
17	Swirl-inducing inlet for passive micromixers. <i>RSC Advances</i> , 2014, 4, 824-829.	3.6	28
18	An approach for accurate simulation of liquid mixing in a T-shaped micromixer. <i>Lab on A Chip</i> , 2013, 13, 1515.	6.0	40

#	ARTICLE	IF	CITATIONS
19	Semi-Lagrangian Method for Numerical Analysis of Fluid Mixing in T-Shaped Micromixer. Journal of Chemical Engineering of Japan, 2013, 46, 699-708.	0.6	4