

# Toshihiko Umekage

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

115  
citations

1477746

6  
h-index

1372195

10  
g-index

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all docs

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docs citations

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times ranked

71  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Simulation of Effect of Tuyere Angle and Wall Scaffolding on Unsteady Gas and Particle Flows Including Raceway in Blast Furnace. ISIJ International, 2007, 47, 659-668.	0.6	32
2	Large Scale Simulation of Coke and Iron Ore Particle Motions and Air Flow in Actual Blast Furnace. ISIJ International, 2010, 50, 962-971.	0.6	15
3	CFD-PBM approach for the gas-liquid flow in a nanobubble generator with honeycomb structure. Journal of Dispersion Science and Technology, 2019, 40, 306-317.	1.3	12
4	Numerical Simulation of Particle Agglomeration and Bed Shrink in Sintering Process. ISIJ International, 2009, 49, 693-702.	0.6	9
5	Simulation of Granular Flows and Pile Formation in a Flat-Bottomed Hopper and Bin, and Experimental Verification. Materials, 2011, 4, 1440-1468.	1.3	7
6	Simulation of Sintering Process “ Effects of Contraction Force by Particle Shrinkage and Melted Particle Volume on Growth of Void and Crack “. ISIJ International, 2013, 53, 1648-1657.	0.6	6
7	Computation Transport Phenomena in Chemical Engineering. Numerical Simulation of Air and Particle Motions in Turbulent Fluidized Bed Using D.S.M.C. Method.. Kagaku Kogaku Ronbunshu, 1997, 23, 811-819.	0.1	5
8	Effect of Particle Existence on High Reynolds Number Slit Nozzle Gas-Particle Two-Phase Jet. JSME International Journal Series B, 2001, 44, 204-212.	0.3	5
9	Simulation of Sintering Process -Effects of Air Flow, Liquid Film Cohesion Force and Fixation Process on Large Scale Crack-. ISIJ International, 2012, 52, 1785-1793.	0.6	5
10	Numerical Simulation of Flow Fields in Two-Dimensional Bubbling Fluidized Bed Using Smoothed Particle Hydrodynamics Based on Stress Strain Relations Obtained by Distinct Element Method Calculation and Finite Difference Methods, and Experimental Verification. Kagaku Kogaku Ronbunshu, 2005, 31, 92-101.	0.1	4
11	Numerical Simulation of Granular Flow. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1995, 81, N556-N563.	0.1	4
12	An elucidation for the central stress minimum in granular piles using the smoothed particle hydrodynamics. AIChE Journal, 2016, 62, 1417-1429.	1.8	2
13	Mechanism of avalanche precursors in inclining granular layers using a continuum model obtained by discrete element method. Advanced Powder Technology, 2021, 32, 2258-2258.	2.0	2
14	Numerical Simulation of Sintering Process “ Effects of Containing Ratios of Magnetite Ores on Large Scale Cracks “. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 305-314.	0.1	1
15	Methods of Numerically Analyzing and Visually Measuring Transport Phenomena in Chemical Equipment. Computation of Air and Particle Motions in Bubbling Fluidized Bed Using Distinct Element Method.. Kagaku Kogaku Ronbunshu, 2001, 27, 560-565.	0.1	1
16	Numerical Simulation of Air and Particles Motions in Circulating Fluidized Bed Using Hard Sphere Model, DSMC Method and LES Model, and Experimental Verification. Kagaku Kogaku Ronbunshu, 2007, 33, 6-15.	0.1	1
17	Numerical Simulation of Three Dimensional Fluidized Bed Using Nozzle at Bottom and Experimental Verification [Translated]&lt;sup>g&t;.&lt;/sup>. KONA Powder and Particle Journal, 1997, 15, 190-201.	0.9	1
18	Numerical Simulation of Particle Sedimentation in Liquid and Experimental Verification.. Journal of the Society of Powder Technology, Japan, 2001, 38, 140-149.	0.0	1

#	ARTICLE	IF	CITATIONS
19	Observation of Avalanche Precursors of Granular Packings Using 3D DEM. Journal of the Society of Powder Technology, Japan, 2020, 57, 302-310.	0.0	1
20	Methods of Numerically Analyzing and Visually Measuring Transport Phenomena in Chemical Equipment. Direct Numerical Simulation of the Flow Fields in a Medium Reynolds Number Non-Baffled Stirred Tank (Re=4,500) and Experimental Verification.. Kagaku Kogaku Ronbunshu, 2001, 27, 554-559.	0.1	1
21	Development of Probe for Simultaneous Measurements of Normal and Shear Stress and Measurements of Wall Stress Distributions of Powder Bed.. Kagaku Kogaku Ronbunshu, 2000, 26, 480-482.	0.1	0
22	Numerical Simulation of a Medium Reynolds Number Baffled Stirred Tank (Re=4500) and Experimental Verification. JSME International Journal Series B, 2002, 45, 752-758.	0.3	0
23	Numerical Simulation of Flow Field in High Reynolds Number Baffled Stirred Tank (Re=45000) and Experimental Verification. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 514-522.	0.2	0
24	Numerical Simulation of Constitution Relationship between Stress and Strain of Particulate Matters [Translated]. KONA Powder and Particle Journal, 2007, 25, 270-279.	0.9	0
25	Onset mechanism of granular avalanches in inclining layers using a continuum model. Advanced Powder Technology, 2022, 33, 103659.	2.0	0