

Sheldon Wang

List of Publications by Year in descending order

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33
papers

1,612
citations

471509

17
h-index

501196

28
g-index

36
all docs

36
docs citations

36
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Immersed finite element method. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 2051-2067.	6.6	416
2	Immersed finite element method and its applications to biological systems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1722-1749.	6.6	240
3	Extended immersed boundary method using FEM and RKPM. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1305-1321.	6.6	175
4	Coupling of Navier-Stokes equations with protein molecular dynamics and its application to hemodynamics. International Journal for Numerical Methods in Fluids, 2004, 46, 1237-1252.	1.6	128
5	A mixed displacement-based finite element formulation for acoustic fluid-structure interaction. Computers and Structures, 1995, 56, 225-237.	4.4	106
6	Dynamics of a Closed Rod with Twist and Bend in Fluid. SIAM Journal of Scientific Computing, 2008, 31, 273-302.	2.8	89
7	Stochastic finite elements as a bridge between random material microstructure and global response. Computer Methods in Applied Mechanics and Engineering, 1999, 168, 35-49.	6.6	62
8	Numerical analysis of moving orthotropic thin plates. Computers and Structures, 1999, 70, 467-486.	4.4	60
9	Dynamic modelling of prosthetic chorded mitral valves using the immersed boundary method. Journal of Biomechanics, 2007, 40, 613-626.	2.1	52
10	On computational issues of immersed finite element methods. Journal of Computational Physics, 2009, 228, 2535-2551.	3.8	46
11	From Immersed Boundary Method to Immersed Continuum Methods. International Journal for Multiscale Computational Engineering, 2006, 4, 127-146.	1.2	36
12	DYNAMICS OF A SUBMERGED AND INCLINED CONCENTRIC PIPE SYSTEM WITH INTERNAL AND EXTERNAL FLOWS. Journal of Fluids and Structures, 1999, 13, 443-460.	3.4	28
13	Computational simulation of turbulent mixing with mass transfer. Computers and Structures, 1999, 70, 447-465.	4.4	27
14	An iterative matrix-free method in implicit immersed boundary/continuum methods. Computers and Structures, 2007, 85, 739-748.	4.4	26
15	Finite element analysis of air-sheet interactions and flutter suppression devices. Computers and Structures, 1997, 64, 983-994.	4.4	23
16	Numerical Study of Multi-Jet Mixing. Chemical Engineering Research and Design, 2001, 79, 515-522.	5.6	19
17	ON THE INF [∞] -SUP CONDITION OF MIXED FINITE ELEMENT FORMULATIONS FOR ACOUSTIC FLUIDS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 883-901.	3.3	19
18	Jet Trajectories of Transverse Mixers at Arbitrary Angle in Turbulent Tube Flow. Chemical Engineering Research and Design, 1999, 77, 754-758.	5.6	16

#	ARTICLE	IF	CITATIONS
19	STABILITY ISSUES OF CONCENTRIC PIPES CONTAINING STEADY AND PULSATILE FLOWS. Journal of Fluids and Structures, 2001, 15, 1137-1152.	3.4	11
20	Instability analysis of some fluid-structure interaction problems. Computers and Fluids, 2003, 32, 121-138.	2.5	9
21	On Leakage Issues of Sucker Rod Pumping Systems. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	8
22	The jet shape of concentric mixers. Canadian Journal of Chemical Engineering, 2001, 79, 87-93.	1.7	2
23	A Revisit of Material and Structural Failures. , 2015, , .		2
24	Structural Designs with Consideration of Both Material and Structural Failures. Practice Periodical on Structural Design and Construction, 2017, 22, 04016025.	1.3	2
25	Model Studies of Fluid-Structure Interaction Problems. CMES - Computer Modeling in Engineering and Sciences, 2019, 119, 5-34.	1.1	2
26	Heat Transfer Technology to Convert Plastic Trash to Oil. , 2017, , .		1
27	Scaling, Complexity, and Design Aspects in Computational Fluid Dynamics. Fluids, 2021, 6, 362.	1.7	1
28	Buckling Analysis of a Large Shelter with Composites. Materials, 2021, 14, 7196.	2.9	1
29	A Revisit of Implicit Monolithic Algorithms for Compressible Solids Immersed Inside a Compressible Liquid. Fluids, 2021, 6, 273.	1.7	0
30	Causality of manufacturing processes with significant time delays. Tappi Journal, 2015, 14, 725-738.	0.5	0
31	Preface: Simulation of Fluid-Structure Interaction Problems. CMES - Computer Modeling in Engineering and Sciences, 2019, 119, 1-3.	1.1	0
32	Viscoelastic Representation of the Operation of Sucker Rod Pumps. Fluids, 2022, 7, 70.	1.7	0
33	On Hierarchical Applications of Finite Element Methods and Classical Applied Mechanics Approaches for Complex Structures. Applied Mechanics, 2022, 3, 464-480.	1.5	0