

Anvar Gilmanov

List of Publications by Year in descending order

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14
papers

927
citations

840776

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1125743

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docs citations

14
times ranked

813
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid Cartesian/immersed boundary method for simulating flows with 3D, geometrically complex, moving bodies. <i>Journal of Computational Physics</i> , 2005, 207, 457-492.	3.8	474
2	Fluid Mechanics of Heart Valves and Their Replacements. <i>Annual Review of Fluid Mechanics</i> , 2016, 48, 259-283.	25.0	103
3	A numerical approach for simulating fluid structure interaction of flexible thin shells undergoing arbitrarily large deformations in complex domains. <i>Journal of Computational Physics</i> , 2015, 300, 814-843.	3.8	99
4	A hybrid immersed boundary and material point method for simulating 3D fluid-structure interaction problems. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2151-2177.	1.6	61
5	Flow simulations in arbitrarily complex cardiovascular anatomies – An unstructured Cartesian grid approach. <i>Computers and Fluids</i> , 2009, 38, 1749-1762.	2.5	48
6	Comparative hemodynamics in an aorta with bicuspid and trileaflet valves. <i>Theoretical and Computational Fluid Dynamics</i> , 2016, 30, 67-85.	2.2	33
7	A computational strategy for simulating heat transfer and flow past deformable objects. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 4415-4426.	4.8	26
8	Flow-Structure Interaction Simulations of the Aortic Heart Valve at Physiologic Conditions: The Role of Tissue Constitutive Model. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	19
9	Non-linear rotation-free shell finite-element models for aortic heart valves. <i>Journal of Biomechanics</i> , 2017, 50, 56-62.	2.1	18
10	Nonlinear rotation-free three-node shell finite element formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 95, 740-770.	2.8	17
11	Image-Guided Fluid-Structure Interaction Simulation of Transvalvular Hemodynamics: Quantifying the Effects of Varying Aortic Valve Leaflet Thickness. <i>Fluids</i> , 2019, 4, 119.	1.7	16
12	Embedded shell finite elements: Solid-shell interaction, surface locking, and application to image-based bio-structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 335, 298-326.	6.6	7
13	The Effect of Modifying a CFD-AB Approach on Fish Passage through a Model Hydraulic Dam. <i>Water (Switzerland)</i> , 2019, 11, 1776.	2.7	6
14	Coupling the Curvilinear Immersed Boundary Method with Rotation-Free Finite Elements for Simulating Fluid-Structure Interaction: Concepts and Applications. <i>Computational Methods in Engineering & the Sciences</i> , 2020, , 107-138.	0.3	0