Sofiane Khelladi

List of Publications by Year
in descending order

117	1,397	361045	414034
papers	citations	20 h-index	32 g-index

121	121	121	1094
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of the Hydraulic Performances of Two Inducers in Waterâ€"CO2 Mixtureâ€"Toward Performance Improvement With Suppression of Prerotation. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	2
2	Dynamics of fingering convection: a numerical study. Environmental Fluid Mechanics, 2022, 22, 203-243.	0.7	2
3	Numerical Prediction for Temperature Profile of Parts Manufactured using Fused Filament Fabrication. Journal of Manufacturing Processes, 2022, 76, 548-558.	2.8	32
4	Hydrodynamic and Kinematic Study to Analyze the Mixing Efficiency of Short Passive Micromixers. Industrial & Engineering Chemistry Research, 2022, 61, 5994-6009.	1.8	2
5	Towards an Accurate Aerodynamic Performance Analysis Methodology of Cross-Flow Fans. Energies, 2022, 15, 5134.	1.6	6
6	A comparative inâ€process monitoring of temperature profile in fused filament fabrication. Polymer Engineering and Science, 2021, 61, 68-76.	1.5	18
7	Experimental study of <scp>PLA</scp> thermal behavior during fused filament fabrication. Journal of Applied Polymer Science, 2021, 138, 49747.	1.3	35
8	Multi-scale damage analysis and fatigue behavior of PLA manufactured by fused deposition modeling (FDM). Rapid Prototyping Journal, 2021, 27, 371-378.	1.6	35
9	Aerodynamic preliminary design optimization of a centrifugal compressor turbocharger based on one-dimensional mean-line model. Engineering Computations, 2021, 38, 3438-3469.	0.7	8
10	Experimental Validation of the Aerodynamic Performance of an Innovative Counter-Rotating Centrifugal Compressor. Energies, 2021, 14, 2582.	1.6	1
11	Experimental study of a centrifugal compressor with two successive and counter-rotating impellers. Journal of Physics: Conference Series, 2021, 1909, 012023.	0.3	2
12	High hydrodynamic and thermal mixing performances of efficient chaotic micromixers: A comparative study. Chemical Engineering and Processing: Process Intensification, 2021, 164, 108394.	1.8	10
13	Comparative study of mixing behaviors using non-Newtonian fluid flows in passive micromixers. International Journal of Mechanical Sciences, 2021, 201, 106472.	3.6	20
14	Experimental Study of a Novel Centrifugal Compressor with Two Successive and Independent Rotors. Journal of Engineering for Gas Turbines and Power, 2021, , .	0.5	1
15	In-Process Monitoring of Temperature Evolution during Fused Filament Fabrication: A Journey from Numerical to Experimental Approaches. Thermo, 2021, 1, 332-360.	0.6	28
16	CFD Analysis to explain the Operating range extension observed during Operation in Co-rotating Mode of a Twin-impeller Centrifugal Compressor. E3S Web of Conferences, 2021, 321, 02011.	0.2	1
17	Behaviour of hydrodynamic journal bearing under the combined influence of textured surface and Non-Newtonian Rabinowitsch fluid model. E3S Web of Conferences, 2021, 321, 03006.	0.2	0
18	A reduced-order method with PGD for the analysis of misaligned journal bearing. E3S Web of Conferences, 2021, 321, 01012.	0.2	0

#	Article	IF	Citations
19	Numerical Analysis of a Novel Twin-Impeller Centrifugal Compressor. Computation, 2021, 9, 143.	1.0	1
20	Texture shape effects on hydrodynamic journal bearing performances using mass-conserving numerical approach. Tribology - Materials, Surfaces and Interfaces, 2020, 14, 33-50.	0.6	35
21	A high-order finite volume method with improved isotherms reconstruction for the computation of multiphase flows using the Navierâ€“Stokesâ€“Korteweg equations. Computers and Mathematics With Applications, 2020, 79, 673-696.	1.4	2
22	An a posteriori-implicit turbulent model with automatic dissipation adjustment for Large Eddy Simulation of compressible flows. Computers and Fluids, 2020, 197, 104371.	1.3	7
23	Computational investigation on the performance of hydrodynamic micro-textured journal bearing lubricated with micropolar fluid using mass-conserving numerical approach. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1310-1331.	1.0	10
24	Toward the understanding of temperature effect on bonding strength, dimensions and geometry of 3D-printed parts. Journal of Materials Science, 2020, 55, 14677-14689.	1.7	54
25	Development of Attached Cavitation at Very Low Reynolds Numbers from Partial to Super-Cavitation. Applied Sciences (Switzerland), 2020, 10, 7350.	1.3	2
26	Improved Î´-SPH Scheme with Automatic and Adaptive Numerical Dissipation. Water (Switzerland), 2020, 12, 2858.	1.2	11
27	Numerical assessment of fan blades screen effect on fan/OGV interaction tonal noise. Journal of Sound and Vibration, 2020, 481, 115428.	2.1	7
28	Influence of process parameters on thermal and mechanical properties of <scp>polylactic acid</scp> fabricated by fused filament fabrication. Polymer Engineering and Science, 2020, 60, 1822-1831.	1.5	55
29	Mixing in turbulent compressible heated coaxial jets: A numerical study. International Journal of Hydrogen Energy, 2020, 45, 16816-16837.	3.8	5
30	Parametric study of the Crossing elongation effect on the mixing performances using short Two-Layer Crossing Channels Micromixer (TLCCM) geometry. Chemical Engineering Research and Design, 2020, 158, 33-43.	2.7	12
31	EFFECT OF GAS CONTENT ON THE CAVITATING AND NON-CAVITATING PERFORMANCE OF AN AXIAL THREE-BLADED INDUCER. Multiphase Science and Technology, 2020, 32, 81-92.	0.2	3
32	Experimental Study of the Hydraulic Performances of Two Three-Bladed Inducers in Water, Water With Dissolved CO2, and Jet Fuel. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	4
33	Compte-rendu des JournÃ©es Â«â€‰Machines hydrauliques, Cavitationâ€‰Â» 2019, Sion, HES-SO, 6 et 7 novembre 2019. Houille Blanche, 2020, 106, 95-97.	0.3	0
34	A POSTERIORI METHODS WITH AUTOMATIC DISSIPATION ADJUSTMENT FOR THE SIMULATION OF COMPRESSIBLE FLOWS. WIT Transactions on Engineering Sciences, 2020, , .	0.0	0
35	Performance of hydrodynamic journal bearing under the combined influence of textured surface and journal misalignment: A numerical survey. Comptes Rendus - Mecanique, 2019, 347, 141-165.	2.1	49
36	Coupling of inverse method and cuckoo search algorithm for multiobjective optimization design of an axial flow pump. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 988-1006.	0.8	6

#	Article	IF	Citations
37	A Higher-Order Chimera Method Based on Moving Least Squares. Springer Tracts in Mechanical Engineering, 2019, , 73-82.	0.1	0
38	Design And Behavioral Study Of EMI Filter Intended For Aeronautical Application. , 2019, , .		2
39	A Comparative Study of Mixed Resolvedâ€“Unresolved CFD-DEM and Unresolved CFD-DEM Methods for the Solution of Particle-Laden Liquid Flows. Archives of Computational Methods in Engineering, 2019, 26, 1239-1254.	6.0	18
40	On the miscibility of PVDF/PMMA polymer blends: Thermodynamics, experimental and numerical investigations. Polymer Testing, 2019, 73, 222-231.	2.3	60
41	Smoothed Particle Hydrodynamics: A consistent model for interfacial multiphase fluid flow simulations. Journal of Computational Physics, 2018, 358, 53-87.	1.9	56
42	A Higher-Order Chimera Method for Finite Volume Schemes. Archives of Computational Methods in Engineering, 2018, 25, 691-706.	6.0	17
43	Efficiency of bio- and socio-inspired optimization algorithms for axial turbomachinery design. Applied Soft Computing Journal, 2018, 64, 282-306.	4.1	6
44	Mastering of the Filling Stage in Low Pressure Sand Casting Process. Materials Science Forum, 2018, 941, 2306-2312.	0.3	0
45	Compte-rendu des JournÃ©es 'Machines hydrauliques, Cavitation' 2017. ENSAM, Campus de Paris 8 et 9 Novembre 2017. Houille Blanche, 2018, 104, 100-102.	0.3	0
46	Effect of Computational Grid on Prediction of a Vertical axis Wind turbine Rotor Using Delayed Detached-Eddy Simulations. , 2018, , .		1
47	A very accurate Arbitrary Lagrangianâ€“Eulerian meshless method for Computational Aeroacoustics. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 116-141.	3.4	12
48	Multiphase smoothed particle hydrodynamics approach for modeling soilâ€“water interactions. Advances in Water Resources, 2018, 121, 189-205.	1.7	16
49	Motion of a Solid Particle in a Water Flow Inside a Pipe. Green Energy and Technology, 2018, , 217-231.	0.4	1
50	Experimental investigation of an actively controlled automotive cooling fan using steady air injection in the leakage gap. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 59-67.	0.8	9
51	Toward a near-field CAA-CFD coupling approach: Application to a centrifugal blower. , 2017, , .		0
52	Investigation of Two Mechanisms Governing Cloud Cavitation Shedding: Experimental Study and Numerical Highlight. , 2016, , .		2
53	3D unsteady flow analysis around a rotor blade of horizontal axis wind turbine-Rutland 503. International Journal of Energy and Statistics, 2016, 04, 1650013.	0.5	0
54	An efficient reduced-order method with PGD for solving journal bearing hydrodynamic lubrication problems. Comptes Rendus - Mecanique, 2016, 344, 689-714.	2.1	10

#	Article	IF	Citations
55	High-order aeroacoustics propagation solver with sliding-mesh capabilities for subsonic turbomachinery. , 2016, , .		1
56	Numerical Simulations of Shock-Wave Propagation in Turbofan Intakes. , 2016, , .		4
57	Experimental study on the effects of big particles physical characteristics on the hydraulic transport inside a horizontal pipe. Chinese Journal of Chemical Engineering, 2016, 24, 317-322.	1.7	20
58	A high-order density-based finite volume method for the computation of all-speed flows. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 229-251.	3.4	17
59	Experimental study of aerated cavitation in a horizontal venturi nozzle. Experimental Thermal and Fluid Science, 2016, 70, 85-95.	1.5	48
60	Numerical Modeling of Aerated Cavitation Using Compressible Homogeneous Equilibrium Model. Springer Water, 2016, , 531-547.	0.2	0
61	Modelling of sintering during rotational moulding of the thermoplastic polymers. International Journal of Material Forming, 2016, 9, 519-530.	0.9	22
62	Implementation of surface tension force in fluid flow during reactive rotational molding. International Journal of Material Forming, 2016, 9, 131-148.	0.9	1
63	Towards Numerical Simulation of Snow Showers in Jet Engine Fuel Systems. Springer Water, 2016, , 613-624.	0.2	2
64	Investigation of the Rotor Wake of Horizontal Axis Wind Turbine under Yawed Condition. Journal of Applied Fluid Mechanics, 2016, 9, 2695-2705.	0.4	4
65	POD study of aerated cavitation in a venturi nozzle. Journal of Physics: Conference Series, 2015, 656, 012171.	0.3	7
66	A Moving Least Squares-Based High-Order-Preserving Sliding Mesh Technique with No Intersections. Springer Tracts in Mechanical Engineering, 2015, , 27-36.	0.1	1
67	Modelling surface tension with smoothed particle hydrodynamics in reactive rotational moulding. Computers and Fluids, 2015, 118, 191-203.	1.3	4
68	Epoxy/amine reactive systems for composites materials and their thermomechanical properties. , 2015, , 269-296.		8
69	New high-resolution-preserving sliding mesh techniques for higher-order finite volume schemes. Computers and Fluids, 2015, 118, 114-130.	1.3	37
70	A naturally anti-diffusive compressible two phases Kapila model with boundedness preservation coupled to a high order finite volume solver. Computers and Fluids, 2015, 114, 265-273.	1.3	6
71	Numerical analysis of unsteady cavitating flow in an axial inducer. Applied Thermal Engineering, 2015, 75, 1302-1310.	3.0	17
72	Cavitation modeling using compressible Navierâ€“Stokes and Korteweg equations. , 2015, , .		1

#	Article	IF	Citations
73	Aeroacoustic noise prediction for SRM. , 2014, , .		3
74	A new higher-order finite volume method based on Moving Least Squares for the resolution of the incompressible Navierâ€“Stokes equations on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 883-901.	3.4	28
75	Optimization of a Solar Photovoltaic Applied to Greenhouses. Physics Procedia, 2014, 55, 383-389.	1.2	12
76	Analysis and Study of the Aerodynamic Turbulent Flow Around a Blade of Wind Turbine. Physics Procedia, 2014, 55, 307-316.	1.2	0
77	Influence of Humidity on the Apparent Thermal Conductivity of Concrete Pozzolan. Physics Procedia, 2014, 55, 150-156.	1.2	18
78	Numerical Modeling of Aerated Cavitation Using a Penalization Approach for Air Bubble Modeling Coupled to Homogeneous Equilibrium Model. , 2014, , .		3
79	Surge Limit Prediction of Centrifugal Compressor Using Semi Classical Signal Analysis. , 2014, , .		0
80	Experimental study of hydraulic transport of large particles in horizontal pipes. Experimental Thermal and Fluid Science, 2013, 45, 187-197.	1.5	53
81	Influence of blade compactness and segmentation strategy on tonal noise prediction of an automotive engine cooling fan. Applied Acoustics, 2013, 74, 782-787.	1.7	15
82	Accuracy assessment of a high-order moving least squares finite volume method for compressible flows. Computers and Fluids, 2013, 71, 41-53.	1.3	20
83	High accuracy volume flow rate measurement using vortex counting. Flow Measurement and Instrumentation, 2013, 33, 138-144.	1.0	8
84	A Weighted Average Flux (WAF) scheme applied to shallow water equations for real-life applications. Advances in Water Resources, 2013, 62, 155-172.	1.7	22
85	Simulation of polymer flow using smoothed particle hydrodynamics method. Polymer Engineering and Science, 2013, 53, 2509-2518.	1.5	8
86	Moving Kriging reconstruction for high-order finite volume computation of compressible flows. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 463-478.	3.4	9
87	Numerical and experimental study of cavitating flow through an axial inducer considering tip clearance. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2013, 227, 858-868.	0.8	20
88	Numerical Simulation of Surface Roughness Effects on Dynamic Stall of Wind Turbine Blade. Journal of Power and Energy Systems, 2013, 7, 32-48.	0.5	2
89	Experimental study of yawed inflow around wind turbine rotor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 664-673.	0.8	5
90	3D model for powder compact densification in rotational molding. Polymer Engineering and Science, 2012, 52, 2033-2040.	1.5	10

#	Article	IF	Citations
91	Numerical Study of Development of Karman Vortex in Blade's Passage in Centrifugal Compressors and Pumps. , 2012, , .		0
92	Estimation of a Turbulence Model in Cavitation Effect on the Reynolds Stress Equation with Rotor Vibrations. , 2012, , .		0
93	On the use of moving least squares for pressure discretization in low mach number flows. , 2012, , 365-369.		0
94	Numerical and Experimental Study of Mass Transfer Through Cavitation in Turbomachinery. , 2011, , .		1
95	The Apparent Thermal Conductivity of Pozzolana Concrete. Physics Procedia, 2011, 21, 59-66.	1.2	11
96	High-Resolution Finite Volume Methods on Unstructured Grids for Turbulence and Aeroacoustics. Archives of Computational Methods in Engineering, 2011, 18, 315-340.	6.0	13
97	Characterization and modeling of sintering of polymer particles. Journal of Applied Polymer Science, 2011, 119, 2784-2792.	1.3	16
98	Toward a higher order unsteady finite volume solver based on reproducing kernel methods. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2348-2362.	3.4	27
99	A New High-Precision Solver to Predict Pressure Fluctuations in Centrifugal Pumps. , 2011, , .		0
100	Numerical Study on Pressure Fluctuations Reduction in Centrifugal Pumps: Influence of Radial Gap and Splitter Blades. ISRN Mechanical Engineering, 2011, 2011, 1-14.	0.9	7
101	Implicit large-Eddy simulation with a moving least squares-based finite volume method. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012235.	0.3	3
102	On the simulation of wave propagation with a higher-order finite volume scheme based on Reproducing Kernel Methods. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1471-1490.	3.4	27
103	Resolution of computational aeroacoustics problems on unstructured grids with a higher-order finite volume scheme. Journal of Computational and Applied Mathematics, 2010, 234, 2089-2097.	1.1	19
104	Numerical analysis of unsteady cavitating flow in an axial inducer. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 223-238.	0.8	13
105	Study of a high rotational speed shrouded centrifugal fan: Aerodynamics and effects of a shroud-associated cavity on the performance. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 691-700.	0.8	6
106	A Consistency Test of Thickness and Loading Noise Codes Using Ffowcs Williams and Hawkings Equation. Advances in Acoustics and Vibration, 2010, 2010, 1-6.	0.5	1
107	Experimental and Numerical Analysis of the Flow Inside a Configuration Including an Axial Pump and a Tubular Exchanger. , 2010, , .		0
108	Higher-Order Preserving Methods for Unsteady Finite Volume Solvers Based on Reproducing Kernels: Application to Aeroacoustic Problems. , 2010, , .		0

#	Article	IF	Citations
109	Study of the Aerodynamics/Aeroacoustics of an Axial-Flow Fan: Experimental Validation of a LES/LPCE/Brinkman Penalization Method. , 2010, , .		1
110	Pressure Fluctuations Reduction in Centrifugal Pumps: Influence of Impeller Geometry and Radial Gap. , 2009, , .		8
111	Predicting tonal noise from a high rotational speed centrifugal fan. Journal of Sound and Vibration, 2008, 313, 113-133.	2.1	81
112	Isom's thickness noise for axial and centrifugal subsonic fans. Journal of Sound and Vibration, 2008, 313, 1-6.	2.1	12
113	A Numerical Study on the Aeroacoustic of a Vaned Centrifugal Fan. , 2005, , 227.		1
114	Flow Study in the Impellerâ€“Diffuser Interface of a Vaned Centrifugal Fan. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 495.	0.8	34
115	Unsteady Flow in Multistage Centrifugal Fans. , 2004, , 1255.		1
116	Aerodynamic and Aeroacoustic Study of a High Rotational Speed Centrifugal Fan. , 0, , .		0
117	NUMERICAL INVESTIGATION OF THE BLADE PROFILE EFFECT ON THE AERODYNAMIC PERFORMANCE OF A VERTICAL-AXIS WIND TURBINE DARRIEUS H-ROTOR. Journal of Thermal Engineering, 0, , 388-402.	0.8	0