

Joris Degroote

List of Publications by Year in descending order

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148
papers

3,358
citations

172386

29
h-index

175177

52
g-index

149
all docs

149
docs citations

149
times ranked

2914
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Performance of a new partitioned procedure versus a monolithic procedure in fluid-structure interaction. <i>Computers and Structures</i> , 2009, 87, 793-801. | 2.4 | 325 |
| 2 | Dc excited glow discharges in atmospheric pressure air in pin-to-water electrode systems. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215201. | 1.3 | 160 |
| 3 | Performance of partitioned procedures in fluid-structure interaction. <i>Computers and Structures</i> , 2010, 88, 446-457. | 2.4 | 130 |
| 4 | Stability of a coupling technique for partitioned solvers in FSI applications. <i>Computers and Structures</i> , 2008, 86, 2224-2234. | 2.4 | 123 |
| 5 | Characteristics of atmospheric pressure air discharges with a liquid cathode and a metal anode. <i>Plasma Sources Science and Technology</i> , 2008, 17, 025012. | 1.3 | 118 |
| 6 | Variability of Computational Fluid Dynamics Solutions for Pressure and Flow in a Giant Aneurysm: The ASME 2012 Summer Bioengineering Conference CFD Challenge. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021016. | 0.6 | 109 |
| 7 | A computational method to assess the in vivo stresses and unloaded configuration of patient-specific blood vessels. <i>Journal of Computational and Applied Mathematics</i> , 2013, 246, 10-17. | 1.1 | 107 |
| 8 | Implicit coupling of partitioned fluid-structure interaction problems with reduced order models. <i>Computers and Structures</i> , 2007, 85, 970-976. | 2.4 | 105 |
| 9 | Partitioned Simulation of Fluid-Structure Interaction. <i>Archives of Computational Methods in Engineering</i> , 2013, 20, 185-238. | 6.0 | 98 |
| 10 | Water surface deformation in strong electrical fields and its influence on electrical breakdown in a metal pin-to-water electrode system. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4779-4786. | 1.3 | 94 |
| 11 | New insights in twin screw expander performance for small scale ORC systems from 3D CFD analysis. <i>Applied Thermal Engineering</i> , 2015, 91, 535-546. | 3.0 | 60 |
| 12 | Benchmark exercise for fluid flow simulations in a liquid metal fast reactor fuel assembly. <i>Nuclear Engineering and Design</i> , 2016, 298, 218-228. | 0.8 | 60 |
| 13 | Fluid-Structure Interaction Simulation of Prosthetic Aortic Valves: Comparison between Immersed Boundary and Arbitrary Lagrangian-Eulerian Techniques for the Mesh Representation. <i>PLoS ONE</i> , 2016, 11, e0154517. | 1.1 | 59 |
| 14 | Interpolation among reduced-order matrices to obtain parameterized models for design, optimization and probabilistic analysis. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 207-230. | 0.9 | 51 |
| 15 | Partitioned simulation of the interaction between an elastic structure and free surface flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2085-2098. | 3.4 | 49 |
| 16 | FSI simulation of asymmetric mitral valve dynamics during diastolic filling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 121-130. | 0.9 | 48 |
| 17 | Modal characteristics of a flexible cylinder in turbulent axial flow from numerical simulations. <i>Journal of Fluids and Structures</i> , 2013, 43, 110-123. | 1.5 | 46 |
| 18 | DC-excited discharges in vapour bubbles in capillaries. <i>Plasma Sources Science and Technology</i> , 2008, 17, 025008. | 1.3 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Influence of the water surface on the glow-to-spark transition in a metal-pin-to-water electrode system. <i>Plasma Sources Science and Technology</i> , 2008, 17, 045014. | 1.3 | 44 |
| 20 | The Quasi-Newton Least Squares Method: A New and Fast Secant Method Analyzed for Linear Systems. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 2347-2368. | 1.1 | 44 |
| 21 | Simulation of fluid-structure interaction with the interface artificial compressibility method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 276-289. | 1.0 | 44 |
| 22 | Dynamic load and stress analysis of a large horizontal axis wind turbine using full scale fluid-structure interaction simulation. <i>Renewable Energy</i> , 2019, 140, 212-226. | 4.3 | 42 |
| 23 | DC Electrical Breakdown in a Metal Pin-Water Electrode System. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1138-1139. | 0.6 | 41 |
| 24 | A simulation environment for validating ultrasonic blood flow and vessel wall imaging based on fluid-structure interaction simulations: Ultrasonic assessment of arterial distension and wall shear rate. <i>Medical Physics</i> , 2010, 37, 4318-4330. | 1.6 | 41 |
| 25 | Multi-solver algorithms for the partitioned simulation of fluid-structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 2195-2210. | 3.4 | 41 |
| 26 | Comparison of Non-Invasive Methods for Measurement of Local Pulse Wave Velocity Using FSI-Simulations and In Vivo Data. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1567-1578. | 1.3 | 41 |
| 27 | The Concept of Segmented Wind Turbine Blades: A Review. <i>Energies</i> , 2017, 10, 1112. | 1.6 | 38 |
| 28 | Performance study of gradient-enhanced Kriging. <i>Engineering With Computers</i> , 2016, 32, 15-34. | 3.5 | 35 |
| 29 | Patient-specific CFD simulation of intraventricular haemodynamics based on 3D ultrasound imaging. <i>BioMedical Engineering OnLine</i> , 2016, 15, 107. | 1.3 | 33 |
| 30 | Simulating the fluid forces and fluid-elastic instabilities of a clamped-clamped cylinder in turbulent axial flow. <i>Journal of Fluids and Structures</i> , 2015, 55, 139-154. | 1.5 | 30 |
| 31 | Patient-specific CFD models for intraventricular flow analysis from 3D ultrasound imaging: Comparison of three clinical cases. <i>Journal of Biomechanics</i> , 2017, 50, 144-150. | 0.9 | 30 |
| 32 | Stability analysis of Gauss-Seidel iterations in a partitioned simulation of fluid-structure interaction. <i>Computers and Structures</i> , 2010, 88, 263-271. | 2.4 | 29 |
| 33 | An Animal-Specific FSI Model of the Abdominal Aorta in Anesthetized Mice. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1298-1309. | 1.3 | 28 |
| 34 | Haemodynamic impact of stent-vessel (mal)apposition following carotid artery stenting: mind the gaps!. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 648-659. | 0.9 | 27 |
| 35 | High dimensional Kriging metamodelling utilising gradient information. <i>Applied Mathematical Modelling</i> , 2016, 40, 5256-5270. | 2.2 | 27 |
| 36 | Comparison of Shell and Solid Finite Element Models for the Static Certification Tests of a 43 m Wind Turbine Blade. <i>Energies</i> , 2018, 11, 1346. | 1.6 | 27 |

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|----|---|-----|-----------|
| 37 | Study of the importance of non-uniform mass density in numerical simulations of fire spread over MDF panels in a corner configuration. <i>Combustion and Flame</i> , 2019, 200, 303-315. | 2.8 | 27 |
| 38 | Assessment of shear stress related parameters in the carotid bifurcation using mouse-specific FSI simulations. <i>Journal of Biomechanics</i> , 2016, 49, 2135-2142. | 0.9 | 26 |
| 39 | Electrical discharges in the vapour phase in liquid-filled capillaries. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 194007. | 1.3 | 24 |
| 40 | On the Similarities Between the Quasi-Newton Inverse Least Squares Method and GMRes. <i>SIAM Journal on Numerical Analysis</i> , 2010, 47, 4660-4679. | 1.1 | 24 |
| 41 | Accuracy of Carotid Strain Estimates From Ultrasonic Wall Tracking: A Study Based on Multiphysics Simulations and In Vivo Data. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 131-139. | 5.4 | 24 |
| 42 | Partitioned solution of an unsteady adjoint for strongly coupled fluid-structure interactions and application to parameter identification of a one-dimensional problem. <i>Structural and Multidisciplinary Optimization</i> , 2013, 47, 77-94. | 1.7 | 24 |
| 43 | Interaction effects between parameters in a vortex generator and louvered fin compact heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 247-256. | 2.5 | 24 |
| 44 | High-fidelity finite element models of composite wind turbine blades with shell and solid elements. <i>Composite Structures</i> , 2018, 200, 521-531. | 3.1 | 23 |
| 45 | Experimental study of corner fires—Part I: Inert panel tests. <i>Combustion and Flame</i> , 2018, 189, 472-490. | 2.8 | 22 |
| 46 | Development of a thermodynamic low order model for a twin screw expander with emphasis on pulsations in the inlet pipe. <i>Applied Thermal Engineering</i> , 2016, 103, 909-919. | 3.0 | 21 |
| 47 | Differential impact of local stiffening and narrowing on hemodynamics in repaired aortic coarctation: an FSI study. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 497-510. | 1.6 | 21 |
| 48 | On the study of transitional low-Reynolds number flows over airfoils operating at high angles of attack and their prediction using transitional turbulence models. <i>Progress in Aerospace Sciences</i> , 2018, 103, 52-68. | 6.3 | 21 |
| 49 | Mean pressure coefficient distributions over hyperbolic paraboloid roof and canopy structures with different shape parameters in a uniform flow with very small turbulence. <i>Engineering Structures</i> , 2020, 205, 110043. | 2.6 | 21 |
| 50 | Slamming wave impact of a composite buoy for wave energy applications: Design and large-scale testing. <i>Polymer Composites</i> , 2011, 32, 700-713. | 2.3 | 20 |
| 51 | Fluid-structure interaction simulation of pulse propagation in arteries: Numerical pitfalls and hemodynamic impact of a local stiffening. <i>International Journal of Engineering Science</i> , 2014, 77, 1-13. | 2.7 | 20 |
| 52 | Multi-level quasi-Newton coupling algorithms for the partitioned simulation of fluid-structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 225-228, 14-27. | 3.4 | 19 |
| 53 | Validation of a numerical FSI simulation of an aortic BMHV by in vitro PIV experiments. <i>Medical Engineering and Physics</i> , 2014, 36, 1014-1023. | 0.8 | 19 |
| 54 | Fluid-Structure Interaction Simulations of a Wind Gust Impacting on the Blades of a Large Horizontal Axis Wind Turbine. <i>Energies</i> , 2020, 13, 509. | 1.6 | 19 |

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|----|---|-----|-----------|
| 55 | On the similarity between Dirichlet–Neumann with interface artificial compressibility and Robin–Neumann schemes for the solution of fluid-structure interaction problems. <i>Journal of Computational Physics</i> , 2011, 230, 6399-6403. | 1.9 | 18 |
| 56 | Optimization of X-shaped louvered fin and tube heat exchangers while maintaining the physical meaning of the performance evaluation criterion. <i>Applied Thermal Engineering</i> , 2013, 58, 136-145. | 3.0 | 18 |
| 57 | The aortic reservoir-wave as a paradigm for arterial haemodynamics. <i>Journal of Hypertension</i> , 2015, 33, 554-563. | 0.3 | 18 |
| 58 | A fast strong coupling algorithm for the partitioned fluid–structure interaction simulation of BMHVs. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 1281-1312. | 0.9 | 17 |
| 59 | Modeling Hemodynamics in Vascular Networks Using a Geometrical Multiscale Approach: Numerical Aspects. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1445-1458. | 1.3 | 17 |
| 60 | On fin efficiency in interrupted fin and tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 557-566. | 2.5 | 17 |
| 61 | On the use of gradients in Kriging surrogate models. , 2014, , . | | 17 |
| 62 | Effect of rotor–tower interaction, tilt angle, and yaw misalignment on the aeroelasticity of a large horizontal axis wind turbine with composite blades. <i>Wind Energy</i> , 2020, 23, 1578-1595. | 1.9 | 17 |
| 63 | A POD-Galerkin reduced order model of a turbulent convective buoyant flow of sodium over a backward-facing step. <i>Applied Mathematical Modelling</i> , 2021, 89, 486-503. | 2.2 | 17 |
| 64 | Experimental study of corner fires—Part II: Flame spread over MDF panels. <i>Combustion and Flame</i> , 2018, 189, 491-505. | 2.8 | 16 |
| 65 | Predicting modal characteristics of a cluster of cylinders in axial flow: From potential flow solutions to coupled CFD–CSM calculations. <i>Journal of Fluids and Structures</i> , 2017, 74, 90-110. | 1.5 | 15 |
| 66 | The upstream boundary condition influences the leaflet opening dynamics in the numerical FSI simulation of an aortic BMHV. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 745-760. | 1.0 | 14 |
| 67 | Predicting turbulence-induced vibration in axial annular flow by means of large-eddy simulations. <i>Journal of Fluids and Structures</i> , 2016, 61, 115-131. | 1.5 | 14 |
| 68 | Fluid-structure interaction of a 7-rods bundle: Benchmarking numerical simulations with experimental data. <i>Nuclear Engineering and Design</i> , 2020, 356, 110394. | 0.8 | 13 |
| 69 | Vibrations in a 7-rod bundle subject to axial flow: Simulations and experiments. <i>Nuclear Engineering and Design</i> , 2019, 353, 110227. | 0.8 | 12 |
| 70 | Comparative Study of Transition Models for High-Angle-of-Attack Behavior. <i>AIAA Journal</i> , 2019, 57, 2356-2371. | 1.5 | 12 |
| 71 | Wind-structure interaction simulations of ovaling vibrations in silo groups. <i>Journal of Fluids and Structures</i> , 2015, 59, 328-350. | 1.5 | 11 |
| 72 | Unstructured hexahedral mesh generation of complex vascular trees using a multi-block grid-based approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 663-672. | 0.9 | 11 |

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| 73 | Simulation of air flow-yarn interaction inside the main nozzle of an air jet loom. Textile Research Journal, 2018, 88, 1173-1183. | 1.1 | 11 |
| 74 | Prototyping of thin shell wind tunnel models to facilitate experimental wind load analysis on curved canopy structures. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 188, 308-322. | 1.7 | 11 |
| 75 | Velocity profiles in the human ductus venosus: a numerical fluid structure interaction study. Biomechanics and Modeling in Mechanobiology, 2013, 12, 1019-1035. | 1.4 | 10 |
| 76 | Toward three-dimensional modeling of the interaction between the air flow and a clamped-free yarn inside the main nozzle of an air jet loom. Textile Research Journal, 2019, 89, 914-925. | 1.1 | 10 |
| 77 | Multi-objective optimization of a wing fence on an unmanned aerial vehicle using surrogate-derived gradients. Structural and Multidisciplinary Optimization, 2020, 61, 353-364. | 1.7 | 10 |
| 78 | A multi-stage approach of simulating turbulence-induced vibrations in a wire-wrapped tube bundle for fretting wear prediction. Journal of Fluids and Structures, 2022, 109, 103460. | 1.5 | 10 |
| 79 | Development of an adaptive infill criterion for constrained multi-objective asynchronous surrogate-based optimization. Journal of Global Optimization, 2020, 78, 137-160. | 1.1 | 9 |
| 80 | Accounting for the effect of the heat exchanger length in the performance evaluation of compact fin and tube heat exchangers. Applied Thermal Engineering, 2014, 65, 544-553. | 3.0 | 8 |
| 81 | Application of a strong FSI coupling scheme for the numerical simulation of bileaflet mechanical heart valve dynamics: study of wall shear stress on the valve leaflets. Progress in Computational Fluid Dynamics, 2012, 12, 68. | 0.1 | 7 |
| 82 | Inverse modelling of an aneurysm's stiffness using surrogate-based optimization and fluid-structure interaction simulations. Structural and Multidisciplinary Optimization, 2012, 46, 457-469. | 1.7 | 7 |
| 83 | Unsteady Reynolds averaged Navier-Stokes simulation of the post-critical flow around a closely spaced group of silos. Journal of Fluids and Structures, 2012, 30, 51-72. | 1.5 | 7 |
| 84 | 3D CFD Analysis of an Oil Injected Twin Screw Expander. , 2013, , . | | 7 |
| 85 | Inverse modelling of image-based patient-specific blood vessels: zero-pressure geometry and in vivo stress incorporation. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 1059-1075. | 0.8 | 7 |
| 86 | Secant Update generalized version of PSB: a new approach. Computational Optimization and Applications, 2021, 78, 953-982. | 0.9 | 7 |
| 87 | ESLA: a new surrogate-assisted single-loop reliability-based design optimization technique. Structural and Multidisciplinary Optimization, 2021, 63, 2653-2671. | 1.7 | 7 |
| 88 | Development of a coupling between a system thermal-hydraulic code and a reduced order CFD model. Annals of Nuclear Energy, 2021, 153, 108056. | 0.9 | 7 |
| 89 | Bubble simulations with an interface tracking technique based on a partitioned fluid-structure interaction algorithm. Journal of Computational and Applied Mathematics, 2010, 234, 2303-2310. | 1.1 | 6 |
| 90 | Optimization of a Human-Powered Aircraft Using Fluid-Structure Interaction Simulations. Aerospace, 2016, 3, 26. | 1.1 | 6 |

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| 91 | Numerical investigation of large-scale vortices in an array of cylinders in axial flow. <i>Journal of Fluids and Structures</i> , 2018, 78, 277-298. | 1.5 | 6 |
| 92 | Analysis of several subcycling schemes in partitioned simulations of a strongly coupled fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 89, 181-195. | 0.9 | 6 |
| 93 | Three-dimensional fluid-structure interaction simulations of a yarn subjected to the main nozzle flow of an air-jet weaving loom using a Chimera technique. <i>Textile Research Journal</i> , 2020, 90, 194-212. | 1.1 | 6 |
| 94 | An efficient quasi-Newton method for two-dimensional steady free surface flow. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 785-801. | 0.9 | 6 |
| 95 | A coupling algorithm for partitioned solvers applied to bubble and droplet dynamics. <i>Computers and Fluids</i> , 2009, 38, 613-624. | 1.3 | 5 |
| 96 | Evaluation of a new Implicit Coupling Algorithm for the Partitioned Fluid-Structure Interaction Simulation of Bileaflet Mechanical Heart Valves. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 10, 012124. | 0.3 | 5 |
| 97 | Secant update version of quasi-Newton PSB with weighted multiseccant equations. <i>Computational Optimization and Applications</i> , 2020, 75, 441-466. | 0.9 | 5 |
| 98 | A study of the vibration of a horizontal U-bend subjected to an internal upwards flowing air-water mixture. <i>Journal of Fluids and Structures</i> , 2020, 93, 102883. | 1.5 | 5 |
| 99 | Monolithic and partitioned approaches to determine static deformation of membrane structures due to ponding. <i>Computers and Structures</i> , 2021, 244, 106419. | 2.4 | 5 |
| 100 | Surrogate-based acceleration of quasi-Newton techniques for fluid-structure interaction simulations. <i>Computers and Structures</i> , 2022, 260, 106720. | 2.4 | 5 |
| 101 | Numerical optimization of louvered fin heat exchanger with variable louver angles. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012054. | 0.3 | 4 |
| 102 | Numerical simulation of a twin screw expander for performance prediction. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 90, 012059. | 0.3 | 4 |
| 103 | Numerical prediction and experimental analysis of ends-together yarn splicing. <i>Textile Research Journal</i> , 2017, 87, 1457-1468. | 1.1 | 4 |
| 104 | Mixed impact of torsion on LV hemodynamics: A CFD study based on the Chimera technique. <i>Computers in Biology and Medicine</i> , 2019, 112, 103363. | 3.9 | 4 |
| 105 | Reduced order models for the incompressible Navier-Stokes equations on collocated grids using a "discretize-then-project" approach. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 2694-2722. | 0.9 | 4 |
| 106 | An efficient quasi-Newton method for three-dimensional steady free surface flow. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 2581-2610. | 0.9 | 4 |
| 107 | A Novel Iterative Penalty Method to Enforce Boundary Conditions in Finite Volume POD-Galerkin Reduced Order Models for Fluid Dynamics Problems. <i>Communications in Computational Physics</i> , 2022, 30, 34-66. | 0.7 | 4 |
| 108 | Computational aspects of simulating wind induced ovaling vibrations in silo groups. <i>Journal of Computational and Applied Mathematics</i> , 2013, 246, 161-173. | 1.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | POD identification reduced order model of linear transport equations for control purposes. International Journal for Numerical Methods in Fluids, 2019, 90, 375-388. | 0.9 | 3 |
| 110 | Towards simulation of force and velocity fluctuations due to turbulence in the relay nozzle jet of an air jet loom. Textile Reseach Journal, 2021, 91, 990-1008. | 1.1 | 3 |
| 111 | 3D CFD Analysis of a Twin Screw Expander With Different Real Gas Models for R245fa. , 2015, , . | | 2 |
| 112 | Influence of Valve Size, Orientation and Downstream Geometry of an Aortic BMHV on Leaflet Motion and Clinically Used Valve Performance Parameters. Annals of Biomedical Engineering, 2015, 43, 1370-1384. | 1.3 | 2 |
| 113 | Stability analysis of a partitioned iterative method for steady free surface flow. Journal of Computational Physics, 2018, 354, 387-392. | 1.9 | 2 |
| 114 | Surrogate-Assisted Parametric Study of a Wing Fences for Unmanned Aerial Vehicles. Journal of Aircraft, 2021, 58, 562-579. | 1.7 | 2 |
| 115 | Effect of a new synthetic bubble model on forces in simulations of two-phase flows in tube bundles. European Journal of Mechanics, B/Fluids, 2021, 90, 49-62. | 1.2 | 2 |
| 116 | A multi-solver quasi-Newton method for the partitioned simulation of fluid-structure interaction. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012020. | 0.3 | 1 |
| 117 | Mechanical Valve Fluid Dynamics and Thrombus Initiation. , 2010, , 437-462. | | 1 |
| 118 | Automated Hexahedral Mesh Generation in a Complex Vascular Tree: The Extended Treemesh Method. , 2013, , . | | 1 |
| 119 | Speeding Up Fluid-Structure Interaction Simulation of the Blood Flow in a Flexible Artery Using Sub-Cycling: Stability and Accuracy. , 2013, , . | | 1 |
| 120 | Fluid-Structure Interaction Simulations of Flexible Cylinders in Confined Axial Flow. , 2018, , . | | 1 |
| 121 | Accelerating Existing Non-Blind Image Deblurring Techniques through a Strap-On Limited-Memory Switched Broyden Method. IEICE Transactions on Information and Systems, 2018, E101.D, 1288-1295. | 0.4 | 1 |
| 122 | Development of an iterative procedure with a flow solver for optimizing the yarn speed in a main nozzle of an air jet loom. Journal of the Textile Institute, 2019, 110, 859-872. | 1.0 | 1 |
| 123 | Investigating the influence of compressibility on the second mode flutter instability of a clamped free cylinder in axial flow using fluid structure interaction simulations with the Chimera technique. Journal of Fluids and Structures, 2022, 109, 103469. | 1.5 | 1 |
| 124 | On the effect of nonlinearity and Jacobian initialization on the convergence of the generalized Broyden quasi-Newton method. International Journal for Numerical Methods in Engineering, 0, , . | 1.5 | 1 |
| 125 | Characteristics of the different plasma regimes of discharges with water cathodes. , 2008, , . | | 0 |
| 126 | Improving ultrasonic imaging of the vascular wall and blood flow using a multiphysics simulation tool integrating fluid-structure interaction and ultrasound simulations. , 2010, , . | | 0 |

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|-----|---|-----|-----------|
| 127 | Strain estimation in the carotid artery from ultrasonic wall tracking: A multiphysics model study. , 2011, , . | | 0 |
| 128 | Multiphysics modeling in support of ultrasonic image development: Integration of fluid-structure interaction simulations and Field II applied to the carotid artery. , 2011, , . | | 0 |
| 129 | Comparative Study of Slamming Loads on Cylindrical Structures. , 2011, , . | | 0 |
| 130 | Analysis of Aortic Wave Travel and Reflection Using Advanced Modeling Methods in Simplified Geometries. , 2011, , . | | 0 |
| 131 | CFD Challenge: Solutions Using an Open-Source Finite Volume Solver, OpenFOAM. , 2012, , . | | 0 |
| 132 | CFD Challenge: Solutions Using the Commercial Finite Volume Solver, Fluent, and a pyFormex-Generated Full Hexahedral Mesh. , 2012, , . | | 0 |
| 133 | Predicting the Functional Impact of Residual Aortic Coarctation Lesions Using Fluid-Structure Interaction Simulations. , 2012, , . | | 0 |
| 134 | Numerical Computation of Modal Characteristics of a Clamped-Clamped Cylinder in Turbulent Axial Pipe Flow. , 2013, , . | | 0 |
| 135 | Large-Eddy Simulations of Turbulence-Induced Vibrations in Annular Pipe Flow. , 2014, , . | | 0 |
| 136 | Fluid-Elastic Instabilities of Clamped-Clamped Aligned and Inclined Cylinders in Turbulent Axial Flow. , 2015, , . | | 0 |
| 137 | A hybrid sequential sampling based metamodelling approach for high dimensional problems. , 2016, , . | | 0 |
| 138 | Limited memory switched Broyden method for faster image deblurring. , 2017, , . | | 0 |
| 139 | Simulation of the Interaction Between a Slender Flexible Cylinder and an Axial High-Speed Air Flow. , 2017, , . | | 0 |
| 140 | A Comparison of Different Quasi-Newton Acceleration Methods for Partitioned Multi-Physics Codes. , 2018, , 135-152. | | 0 |
| 141 | Numerical Study of the Amplitude and the Convection Speed of Periodic Large-Scale Vortices in a Square Array of Cylinders Subjected to Axial Flow. , 2018, , . | | 0 |
| 142 | Numerical Investigation of the Effect of Tower Dam and Rotor Misalignment on Performance and Loads of a Large Wind Turbine in the Atmospheric Boundary Layer. Energies, 2019, 12, 1208. | 1.6 | 0 |
| 143 | Typhoon: A vortex-lattice code for assessing dynamic stability characteristics of hydrofoil crafts. International Shipbuilding Progress, 2021, 68, 61-78. | 0.3 | 0 |
| 144 | Synthetic Vascular Ultrasound Imaging through Coupled Fluid-Structure Interaction and Ultrasound Simulations. IFMBE Proceedings, 2010, , 430-433. | 0.2 | 0 |

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|-----|--|-----|-----------|
| 145 | Structural Simulation of a Mouse-Specific Abdominal Aorta. , 2011, , . | | 0 |
| 146 | Assessing the Accuracy of Non-Invasive Measuring Methods of Pulse Wave Velocity: An Analysis Based on Fluid-Structure Interaction Simulations in the Carotid Artery. , 2012, , . | | 0 |
| 147 | Numerical Investigation of Pressure Fluctuations and Vibrations for Upward Two-Phase Flow in a Pipe. , 2019, , . | | 0 |
| 148 | A symmetric grouped and ordered multi-secant Quasi-Newton update formula. Optimization Methods and Software, 0, , 1-22. | 1.6 | 0 |