

Guillaume Ricciardi

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Modelling Pressurized Water Reactor cores in terms of porous media. Journal of Fluids and Structures, 2009, 25, 112-133.	1.5	35
2	Row of fuel assemblies analysis under seismic loading: Modelling and experimental validation. Nuclear Engineering and Design, 2009, 239, 2692-2704.	0.8	28
3	Fluid-structure interaction modelling of a PWR fuel assembly subjected to axial flow. Journal of Fluids and Structures, 2016, 62, 156-171.	1.5	22
4	Measurements of fluid fluctuations around an oscillating nuclear fuel assembly. Journal of Fluids and Structures, 2014, 48, 332-346.	1.5	20
5	Fluctuating pressure calculation induced by axial flow trough mixing grid. Nuclear Engineering and Design, 2012, 242, 233-246.	0.8	19
6	Modelling of the flow induced stiffness of a PWR fuel assembly. Nuclear Engineering and Design, 2015, 282, 8-14.	0.8	17
7	Sliding window proper orthogonal decomposition: Application to linear and nonlinear modal identification. Journal of Sound and Vibration, 2014, 333, 5312-5323.	2.1	14
8	Comparative study of the contribution of various PWR spacer grid components to hydrodynamic and wall pressure characteristics. Nuclear Engineering and Design, 2017, 317, 22-43.	0.8	14
9	High Speed EIT With Multifrequency Excitation Using FPGA and Response Analysis Using FDM. IEEE Sensors Journal, 2020, 20, 8698-8710.	2.4	14
10	On the Implementation of Simultaneous Multi-Frequency Excitations and Measurements for Electrical Impedance Tomography. Sensors, 2019, 19, 3679.	2.1	13
11	Improving EIT-Based Visualizations of Two-Phase Flows Using an Eigenvalue Correlation Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	12
12	Fluid-Structure Interaction in a 3-by-3 Reduced-Scale Fuel Assembly Network. Science and Technology of Nuclear Installations, 2010, 2010, 1-8.	0.3	11
13	Electrical Capacitance-Based Flow Regimes Identification in Multiphase Experiments and Sensor Modeling. IEEE Sensors Journal, 2017, 17, 8117-8128.	2.4	11
14	Novel Approach for Analysis and Design of High-Speed Electrical Impedance Tomographic System for Void Fraction Measurements in Fast Two-Phase Flows. IEEE Sensors Journal, 2017, 17, 4472-4482.	2.4	10
15	Nonlinear normal mode continuation through a Proper Generalized Decomposition approach with modal enrichment. Journal of Sound and Vibration, 2019, 443, 444-459.	2.1	10
16	Parametric study on confinement effect on a fuel assembly dynamical behavior under axial flow. Journal of Fluids and Structures, 2018, 78, 109-125.	1.5	7
17	Experimental study of fluid structure interaction on fuel assemblies on the ICARE experimental facility. Nuclear Engineering and Design, 2019, 352, 110146.	0.8	7
18	Practical comparisons of EIT excitation protocols with applications in high-contrast imaging. Measurement Science and Technology, 2021, 32, 085110.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Hydraulic coupling of fuel assemblies under axial flow, confinement effect. Nuclear Engineering and Design, 2018, 326, 190-201.	0.8	5
20	Numerical Investigation of Fluid Forces Acting on a Confined Cylinder with Obstacle Subjected to Axial Flow. Science and Technology of Nuclear Installations, 2020, 2020, 1-10.	0.3	5
21	Particle-laden flow around an obstacle in a square pipe: experiments and modeling. Mechanics and Industry, 2020, 21, 517.	0.5	4
22	Numerical strategy for dynamic simulation of impacts on SFR fuel pins and experimental validation. Nuclear Engineering and Design, 2018, 340, 73-85.	0.8	3
23	Dynamical Nonlinear Modelling Of A Pressurised Water Reactor Fuel Assembly Subjected To An Axial Flow. Procedia Engineering, 2017, 199, 1314-1319.	1.2	2
24	Fluid Damping in Fuel Assemblies. , 2017, , .		2
25	Advanced benchmark of the flow through a mixing vane grid â€“ Large eddy simulation validation. Nuclear Engineering and Design, 2021, 381, 111335.	0.8	2
26	Assessment tools for numerical resolution of a contact dynamic problem with modal basis reduction.. Procedia Engineering, 2017, 199, 540-545.	1.2	1
27	Deployment of Time-Resolved Particle Image Velocimetry between two PWR surrogate bundles. Nuclear Engineering and Design, 2021, 382, 111375.	0.8	1
28	Analytical model of transverse pressure loss in a rod array. Nuclear Engineering and Technology, 2022, 54, 2714-2719.	1.1	1
29	Numerical Study of Coupled Fluid and Solid Wave Propagation Related to the Cladding Failure of a Nuclear Fuel Rod. Applied Sciences (Switzerland), 2022, 12, 1784.	1.3	1
30	Analytical model of added mass, damping and stiffness of a fuel assembly induced by axial flow. Nuclear Engineering and Design, 2022, 389, 111670.	0.8	1
31	Seismic response of cylinder assemblies in axial flow. Journal of Fluid Mechanics, 2022, 943, .	1.4	1
32	Numerical and Experimental Investigation of Nuclear Reactor Core Modeled by a Porous Media. , 2007, , .		0
33	LES CFD Simulation of Unsteady Fluid Forces in Tube Bundle. , 2011, , .		0
34	Fluidelastic Instability in Tube Arrays Subject to Two-Phase Cross Flow: A Porous Medium Approach. , 2015, , .		0
35	Multiscale Filtering of Compressible Wave Propagation in Complex Geometry through a Wavelet-Based Approach in the Framework of Pressurized Water Reactors Depressurization Transient Analysis. Fluids, 2020, 5, 64.	0.8	0
36	Impact forces occurring in a forced damped multi-body system with clearances. Strojniski Vestnik/Journal of Mechanical Engineering, 0, , .	0.6	0

#	ARTICLE	IF	CITATIONS
37	Dynamics of a slender structure subjected to annular flow, application to a nuclear reactor core guide tube. <i>Annals of Nuclear Energy</i> , 2022, 165, 108774.	0.9	0
38	Modal contribution of bundle oscillation to induced flow. <i>Journal of Fluids and Structures</i> , 2022, 111, 103557.	1.5	0