

Gianluigi Rozza

List of PR Articles by Year in descending order

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160

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PR citations

63689

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60180

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63620

41

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2624

citing authors

#	ARTICLE	IF	PR CITATIONS
1	A Streamline Upwind Petrov-Galerkin Reduced Order Method for Advection-Dominated Partial Differential Equations Under Optimal Control. Computational Methods in Applied Mathematics, 2025, 25, 237-260.	1.1	6
2	Stabilized weighted reduced order methods for parametrized advection-dominated optimal control problems governed by partial differential equations with random inputs. Journal of Numerical Mathematics, 2025, 33, 1-35.	3.2	2
3	Linear and nonlinear filtering for a two-layer quasi-geostrophic ocean model. Applied Mathematics and Computation, 2025, 488, 129121.	1.8	3
4	A shape optimization pipeline for marine propellers by means of reduced order modeling techniques. International Journal for Numerical Methods in Engineering, 2024, 125, .	3.0	3
5	Generative models for the deformation of industrial shapes with linear geometric constraints: Model order and parameter space reductions. Computer Methods in Applied Mechanics and Engineering, 2024, 423, 116823.	7.1	4
6	Large-scale graph-machine-learning surrogate models for 3D-flowfield prediction in external aerodynamics. Advanced Modeling and Simulation in Engineering Sciences, 2024, 11, .	2.6	12
7	Effect of particle aspect ratio in targeted drug delivery in abdominal aortic aneurysm. European Journal of Mechanics, B/Fluids, 2024, 106, 181-196.	2.6	15
8	A Local Approach to Parameter Space Reduction for Regression and Classification Tasks. Journal of Scientific Computing, 2024, 99, .	2.6	4
9	An optimisationâ€‘based domainâ€‘decomposition reduced order model for parameterâ€‘dependent nonâ€‘stationary fluid dynamics problems. Computers and Mathematics With Applications, 2024, 166, 253-268.	2.4	9
10	Non-intrusive reduced order models for the accurate prediction of bifurcating phenomena in compressible fluid dynamics. Computers and Fluids, 2024, 278, 106307.	2.7	6
11	An LSTM-enhanced surrogate model to simulate the dynamics of particle-laden fluid systems. Computers and Fluids, 2024, 280, 106361.	2.7	14
12	A novel Large Eddy Simulation model for the Quasi-Geostrophic equations in a Finite Volume setting. Journal of Computational and Applied Mathematics, 2023, 418, 114656.	2.4	16
13	Projection Based Semi-Implicit Partitioned Reduced Basis Method for Fluid-Structure Interaction Problems. Journal of Scientific Computing, 2023, 94, .	2.6	11
14	Assessment of URANS and LES methods in predicting wake shed behind a vertical axis wind turbine. Journal of Wind Engineering and Industrial Aerodynamics, 2023, 232, 105285.	4.4	51
15	Data-Driven Reduced Order Modelling for Patient-Specific Hemodynamics of Coronary Artery Bypass Grafts with Physical and Geometrical Parameters. Journal of Scientific Computing, 2023, 94, .	2.6	25
16	Pressure data-driven variational multiscale reduced order models. Journal of Computational Physics, 2023, 476, 111904.	3.7	12
17	Hybrid data-driven closure strategies for reduced order modeling. Applied Mathematics and Computation, 2023, 448, 127920.	1.8	8
18	An artificial neural network approach to bifurcating phenomena in computational fluid dynamics. Computers and Fluids, 2023, 254, 105813.	2.7	67

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19	Non-linear Manifold Reduced-Order Models with Convolutional Autoencoders and Reduced Over-Collocation Method. <i>Journal of Scientific Computing</i> , 2023, 94, .	2.6	51
20	Towards a Machine Learning Pipeline in Reduced Order Modelling for Inverse Problems: Neural Networks for Boundary Parametrization, Dimensionality Reduction and Solution Manifold Approximation. <i>Journal of Scientific Computing</i> , 2023, 95, .	2.6	10
21	A linear filter regularization for POD-based reduced-order models of the quasi-geostrophic equations. <i>Comptes Rendus - Mecanique</i> , 2023, 351, 457-477.	0.6	5
22	A data-driven surrogate modeling approach for time-dependent incompressible Navier-Stokes equations with dynamic mode decomposition and manifold interpolation. <i>Advances in Computational Mathematics</i> , 2023, 49, .	1.6	22
23	A hybrid projection/data-driven reduced order model for the Navier-Stokes equations with nonlinear filtering stabilization. <i>Journal of Computational Physics</i> , 2023, 486, 112127.	3.7	15
24	Validation of an OpenFOAM®-based solver for the Euler equations with benchmarks for mesoscale atmospheric modeling. <i>AIP Advances</i> , 2023, 13, .	1.2	13
25	An extended physics informed neural network for preliminary analysis of parametric optimal control problems. <i>Computers and Mathematics With Applications</i> , 2023, 143, 383-396.	2.4	32
26	A dimensionality reduction approach for convolutional neural networks. <i>Applied Intelligence</i> , 2023, 53, 22818-22833.	2.9	9
27	A non-intrusive data-driven reduced order model for parametrized CFD-DEM numerical simulations. <i>Journal of Computational Physics</i> , 2023, 491, 112355.	3.7	35
28	Physics-Informed Neural networks for Advanced modeling. <i>Journal of Open Source Software</i> , 2023, 8, 5352.	2.1	14
29	A DeepONet multi-fidelity approach for residual learning in reduced order modeling. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2023, 10, .	2.6	15
30	A Dynamic Mode Decomposition Extension for the Forecasting of Parametric Dynamical Systems. <i>SIAM Journal on Applied Dynamical Systems</i> , 2023, 22, 2432-2458.	1.5	29
31	Multi-fidelity data fusion through parameter space reduction with applications to automotive engineering. <i>International Journal for Numerical Methods in Engineering</i> , 2023, 124, 5293-5311.	3.0	7
32	A two-stage deep learning architecture for model reduction of parametric time-dependent problems. <i>Computers and Mathematics With Applications</i> , 2023, 149, 115-127.	2.4	4
33	A physics-based reduced order model for urban air pollution prediction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 417, 116416.	7.1	12
34	Filter stabilization for the mildly compressible Euler equations with application to atmosphere dynamics simulations. <i>Computers and Fluids</i> , 2023, 266, 106057.	2.7	6
35	An optimisation-based domain decomposition reduced order model for the incompressible Navier-Stokes equations. <i>Computers and Mathematics With Applications</i> , 2023, 151, 172-189.	2.4	12
36	A Reduced Order Cut Finite Element method for geometrically parametrized steady and unsteady Navier-Stokes problems. <i>Computers and Mathematics With Applications</i> , 2022, 116, 140-160.	2.4	8

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37	POD-Galerkin model order reduction for parametrized nonlinear time-dependent optimal flow control: an application to shallow water equations. <i>Journal of Numerical Mathematics</i> , 2022, 30, 63-84.	3.2	12
38	The Neural Network shifted-proper orthogonal decomposition: A machine learning approach for non-linear reduction of hyperbolic equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 392, 114687.	7.1	48
39	Consistency of the full and reduced order models for evolve&filter&relax regularization of convection&dominated, marginally&resolved flows. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 3148-3178.	3.0	25
40	Microrom: An efficient and accurate reduced order method to solve many-query problems in micro-motility	0.5	0
41	Driving bifurcating parametrized nonlinear PDEs by optimal control strategies: application to Navier&Stokes equations with model order reduction. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2022, 56, 1361-1400.	1.6	22
42	Model order reduction for bifurcating phenomena in fluid&structure interaction problems. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 1611-1640.	1.8	13
43	Reduced basis methods for time-dependent problems. <i>Acta Numerica</i> , 2022, 31, 265-345.	6.0	78
44	Embedded domain Reduced Basis Models for the shallow water hyperbolic equations with the Shifted Boundary Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 398, 115143.	7.1	13
45	A POD-Galerkin reduced order model for the Navier&Stokes equations in stream function-vorticity formulation. <i>Computers and Fluids</i> , 2022, 244, 105536.	2.7	23
46	Non-intrusive PODI-ROM for patient-specific aortic blood flow in presence of a LVAD device. <i>Medical Engineering and Physics</i> , 2022, 107, 103849.	2.2	19
47	Neural-network learning of SPOD latent dynamics. <i>Journal of Computational Physics</i> , 2022, 468, 111475.	3.7	24
48	Finite element based Model Order Reduction for parametrized one-way coupled steady state linear thermo-mechanical problems. <i>Finite Elements in Analysis and Design</i> , 2022, 212, 103837.	3.1	16
49	Model Reduction Using Sparse Polynomial Interpolation for the Incompressible Navier&Stokes Equations. <i>Vietnam Journal of Mathematics</i> , 2022, , .	0.6	1
50	Reduced order methods for parametric optimal flow control in coronary bypass grafts, toward patient&specific data assimilation. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, .	2.3	18
51	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.	4.7	26
52	On the comparison of LES data-driven reduced order approaches for hydroacoustic analysis. <i>Computers and Fluids</i> , 2021, 216, 104819.	2.7	21
53	Hierarchical Model Reduction Techniques for Flow Modeling in a Parametrized Setting. <i>Multiscale Modeling and Simulation</i> , 2021, 19, 267-293.	1.4	3
54	A Supervised Learning Approach Involving Active Subspaces for an Efficient Genetic Algorithm in High-Dimensional Optimization Problems. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, B831-B853.	2.3	18

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55	A Gaussian Process Regression approach within a data-driven POD framework for engineering problems in fluid dynamics. <i>Mathematics in Engineering</i> , 2021, 4, 1-16.	0.9	32
56	PyGeM: Python Geometrical Morphing. <i>Software Impacts</i> , 2021, 7, 100047.	1.1	32
57	Hull Shape Design Optimization with Parameter Space and Model Reductions, and Self-Learning Mesh Morphing. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 185.	2.5	39
58	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.	1.8	8
59	A Monolithic and a Partitioned, Reduced Basis Method for Fluid–Structure Interaction Problems. <i>Fluids</i> , 2021, 6, 229.	1.7	22
60	A numerical approach for heat flux estimation in thin slabs continuous casting molds using data assimilation. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 4541-4574.	3.0	5
61	Non-intrusive data-driven ROM framework for hemodynamics problems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1183-1191.	3.7	15
62	A POD-Galerkin reduced order model for a LES filtering approach. <i>Journal of Computational Physics</i> , 2021, 436, 110260.	3.7	47
63	A Reduced Order Model for a Stable Embedded Boundary Parametrized Cahn–Hilliard Phase-Field System Based on Cut Finite Elements. <i>Journal of Scientific Computing</i> , 2021, 89, .	2.6	5
64	Hybrid Neural Network Reduced Order Modelling for Turbulent Flows with Geometric Parameters. <i>Fluids</i> , 2021, 6, 296.	1.7	19
65	Pressure Stabilization Strategies for a LES Filtering Reduced Order Model. <i>Fluids</i> , 2021, 6, 302.	1.7	15
66	An optimal control approach to determine “resistance” type boundary conditions from in vivo data for cardiovascular simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, .	2.3	24
67	ATHENA: Advanced Techniques for High dimensional parameter spaces to Enhance Numerical Analysis. <i>Software Impacts</i> , 2021, 10, 100133.	1.1	11
68	Fluid-structure interaction simulations with a LES filtering approach in <i>solids4foam</i> . <i>Communications in Applied and Industrial Mathematics</i> , 2021, 12, 13-28.	0.2	13
69	A weighted POD-reduction approach for parametrized PDE-constrained optimal control problems with random inputs and applications to environmental sciences. <i>Computers and Mathematics With Applications</i> , 2021, 102, 261-276.	2.4	21
70	Reduced Flow Model for Plastics Melt Inside an Extrusion Die. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.5	3
71	Reduced basis model order reduction for Navier–Stokes equations in domains with walls of varying curvature. <i>International Journal of Computational Fluid Dynamics</i> , 2020, 34, 119-126.	1.1	17
72	POD–Galerkin reduced order methods for combined Navier–Stokes transport equations based on a hybrid FV-FE solver. <i>Computers and Mathematics With Applications</i> , 2020, 79, 256-273.	2.4	20

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73	Projection-based reduced order models for a cut finite element method in parametrized domains. <i>Computers and Mathematics With Applications</i> , 2020, 79, 833-851.	2.4	31
74	A reduced-order shifted boundary method for parametrized incompressible Navier–Stokes equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 370, 113273.	7.1	25
75	Enhancing CFD predictions in shape design problems by model and parameter space reduction. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020, 7, .	2.6	22
76	Data-driven POD-Galerkin reduced order model for turbulent flows. <i>Journal of Computational Physics</i> , 2020, 416, 109513.	3.7	176
77	Certified Reduced Basis VMS-Smagorinsky model for natural convection flow in a cavity with variable height. <i>Computers and Mathematics With Applications</i> , 2020, 80, 973-989.	2.4	18
78	POD–Galerkin Model Order Reduction for Parametrized Time Dependent Linear Quadratic Optimal Control Problems in Saddle Point Formulation. <i>Journal of Scientific Computing</i> , 2020, 83, .	2.6	16
79	A hybrid reduced order method for modelling turbulent heat transfer problems. <i>Computers and Fluids</i> , 2020, 208, 104615.	2.7	34
80	Efficient geometrical parametrization for finite–volume–based reduced order methods. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 2655-2682.	3.0	40
81	Stabilized reduced basis methods for parametrized steady Stokes and Navier–Stokes equations. <i>Computers and Mathematics With Applications</i> , 2020, 80, 2399-2416.	2.4	36
82	An efficient computational framework for naval shape design and optimization problems by means of data-driven reduced order modeling techniques. <i>Bollettino Dell Unione Matematica Italiana</i> , 2020, 14, 211-230.	0.6	21
83	Efficient computation of bifurcation diagrams with a deflated approach to reduced basis spectral element method. <i>Advances in Computational Mathematics</i> , 2020, 47, .	1.6	23
84	A Reduced Order Modeling Technique to Study Bifurcating Phenomena: Application to the Gross–Pitaevskii Equation. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, B1115-B1135.	2.3	13
85	A non-intrusive approach for the reconstruction of POD modal coefficients through active subspaces. <i>Comptes Rendus - Mecanique</i> , 2019, 347, 873-881.	0.6	38
86	Reduced Basis Approaches for Parametrized Bifurcation Problems held by Non-linear Von Kármán Equations. <i>Journal of Scientific Computing</i> , 2019, 81, 112-135.	2.6	20
87	A reduced basis approach for PDEs on parametrized geometries based on the shifted boundary finite element method and application to a Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 568-587.	7.1	33
88	A reduced order variational multiscale approach for turbulent flows. <i>Advances in Computational Mathematics</i> , 2019, 45, 2349-2368.	1.6	58
89	A Finite Volume approximation of the Navier-Stokes equations with nonlinear filtering stabilization. <i>Computers and Fluids</i> , 2019, 187, 27-45.	2.7	30
90	A POD–selective inverse distance weighting method for fast parametrized shape morphing. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 860-884.	3.0	40

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91	A localized reduced-order modeling approach for PDEs with bifurcating solutions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 351, 379-403.	7.1	41
92	BladeX: Python Blade Morphing. <i>Journal of Open Source Software</i> , 2019, 4, 1203.	2.1	2
93	Finite volume POD-Galerkin stabilised reduced order methods for the parametrised incompressible Navier-Stokes equations. <i>Computers and Fluids</i> , 2018, 173, 273-284.	2.7	173
94	Dimension reduction in heterogeneous parametric spaces with application to naval engineering shape design problems. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2018, 5, .	2.6	39
95	Stabilized Weighted Reduced Basis Methods for Parametrized Advection Dominated Problems with Random Inputs. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018, 6, 1475-1502.	1.7	24
96	Free-form deformation, mesh morphing and reduced-order methods: enablers for efficient aerodynamic shape optimisation. <i>International Journal of Computational Fluid Dynamics</i> , 2018, 32, 233-247.	1.1	54
97	Model Reduction for Parametrized Optimal Control Problems in Environmental Marine Sciences and Engineering. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, B1055-B1079.	2.3	39
98	A Weighted POD Method for Elliptic PDEs with Random Inputs. <i>Journal of Scientific Computing</i> , 2018, 81, 136-153.	2.6	22
99	PyDMD: Python Dynamic Mode Decomposition. <i>Journal of Open Source Software</i> , 2018, 3, 530.	2.1	106
100	EZyRB: Easy Reduced Basis method. <i>Journal of Open Source Software</i> , 2018, 3, 661.	2.1	38
101	A reduced order model for investigating the dynamics of the Gen-IV LFR coolant pool. <i>Applied Mathematical Modelling</i> , 2017, 46, 263-284.	4.7	34
102	Computational reduction strategies for the detection of steady bifurcations in incompressible fluid-dynamics: Applications to Coanda effect in cardiology. <i>Journal of Computational Physics</i> , 2017, 344, 534-557.	3.7	36
103	On the Application of Reduced Basis Methods to Bifurcation Problems in Incompressible Fluid Dynamics. <i>Journal of Scientific Computing</i> , 2017, 73, 157-177.	2.6	29
104	Numerical modeling of hemodynamics scenarios of patient-specific coronary artery bypass grafts. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1373-1399.	2.4	39
105	Reduced Basis Methods for Uncertainty Quantification. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2017, 5, 813-869.	1.7	57
106	On a Certified Smagorinsky Reduced Basis Turbulence Model. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 3047-3067.	2.5	45
107	POD-Galerkin reduced order methods for CFD using Finite Volume Discretisation: vortex shedding around a circular cylinder. <i>Communications in Applied and Industrial Mathematics</i> , 2017, 8, 210-236.	0.2	72
108	Certified Reduced Basis Approximation for the Coupling of Viscous and Inviscid Parametrized Flow Models. <i>Journal of Scientific Computing</i> , 2017, 74, 197-219.	2.6	3

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109	POD-Galerkin monolithic reduced order models for parametrized fluid-structure interaction problems. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 1010-1034.	1.8	51
110	Reduced Basis Approaches in Time-Dependent Non-Coercive Settings for Modelling the Movement of Nuclear Reactor Control Rods. <i>Communications in Computational Physics</i> , 2016, 20, 23-59.	1.4	4
111	A Reduced Basis Approach for Modeling the Movement of Nuclear Reactor Control Rods. <i>Journal of Nuclear Engineering and Radiation Science</i> , 2016, 2, .	0.6	13
112	Reduced basis method and domain decomposition for elliptic problems in networks and complex parametrized geometries. <i>Computers and Mathematics With Applications</i> , 2016, 71, 408-430.	2.4	53
113	Fast simulations of patient-specific haemodynamics of coronary artery bypass grafts based on a POD-Galerkin method and a vascular shape parametrization. <i>Journal of Computational Physics</i> , 2016, 315, 609-628.	3.7	92
114	POD-Galerkin method for finite volume approximation of Navier-Stokes and RANS equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 311, 151-179.	7.1	134
115	Isogeometric analysis-based reduced order modelling for incompressible linear viscous flows in parametrized shapes. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2016, 3, .	2.6	21
116	A multi-physics reduced order model for the analysis of Lead Fast Reactor single channel. <i>Annals of Nuclear Energy</i> , 2016, 87, 198-208.	2.1	31
117	Supremizer stabilization of POD-Galerkin approximation of parametrized steady incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 1136-1161.	3.0	239
118	Reduced basis approximation of parametrized optimal flow control problems for the Stokes equations. <i>Computers and Mathematics With Applications</i> , 2015, 69, 319-336.	2.4	52
119	Multilevel and weighted reduced basis method for stochastic optimal control problems constrained by Stokes equations. <i>Numerische Mathematik</i> , 2015, 133, 67-102.	1.8	43
120	A weighted empirical interpolation method: a priori convergence analysis and applications. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2014, 48, 943-953.	0.5	21
121	Stabilized reduced basis method for parametrized advection-diffusion PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 274, 1-18.	7.1	49
122	An improvement on geometrical parameterizations by transfinite maps. <i>Comptes Rendus Mathematique</i> , 2014, 352, 263-268.	0.6	10
123	Efficient geometrical parametrisation techniques of interfaces for reduced-order modelling: application to fluid-structure interaction coupling problems. <i>International Journal of Computational Fluid Dynamics</i> , 2014, 28, 158-169.	1.1	41
124	Comparison of a Modal Method and a Proper Orthogonal Decomposition approach for multi-group time-dependent reactor spatial kinetics. <i>Annals of Nuclear Energy</i> , 2014, 71, 217-229.	2.1	43
125	Reduced basis approximation and a-posteriori error estimation for the coupled Stokes-Darcy system. <i>Advances in Computational Mathematics</i> , 2014, 41, 1131-1157.	1.6	30
126	Reduced basis approximation and a posteriori error estimation for Stokes flows in parametrized geometries: roles of the inf-sup stability constants. <i>Numerische Mathematik</i> , 2013, 125, 115-152.	1.8	110

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127	Reduced Basis Method for Parametrized Elliptic Optimal Control Problems. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2316-A2340.	2.3	83
128	A combination between the reduced basis method and the ANOVA expansion: On the computation of sensitivity indices. <i>Comptes Rendus Mathematique</i> , 2013, 351, 593-598.	0.6	1
129	Simulation-based uncertainty quantification of human arterial network hemodynamics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 698-721.	2.3	67
130	A reduced computational and geometrical framework for inverse problems in hemodynamics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 741-776.	2.3	85
131	A Weighted Reduced Basis Method for Elliptic Partial Differential Equations with Random Input Data. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 3163-3185.	2.5	56
132	Stochastic Optimal Robin Boundary Control Problems of Advection-Dominated Elliptic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 2700-2722.	2.5	43
133	Boundary control and shape optimization for the robust design of bypass anastomoses under uncertainty. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2013, 47, 1107-1131.	0.5	26
134	Comparison Between Reduced Basis and Stochastic Collocation Methods for Elliptic Problems. <i>Journal of Scientific Computing</i> , 2013, 59, 187-216.	2.6	58
135	Shape Optimization by Free-Form Deformation: Existence Results and Numerical Solution for Stokes Flows. <i>Journal of Scientific Computing</i> , 2013, 60, 537-563.	2.6	25
136	A Reduced Basis Model with Parametric Coupling for Fluid-Structure Interaction Problems. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A1187-A1213.	2.3	29
137	Computational Reduction for Parametrized PDEs: Strategies and Applications. <i>Milan Journal of Mathematics</i> , 2012, 80, 283-309.	0.6	35
138	On the approximation of stability factors for general parametrized partial differential equations with a two-level affine decomposition. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2012, 46, 1555-1576.	0.5	15
139	Shape optimization for viscous flows by reduced basis methods and free-form deformation. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 646-670.	1.8	105
140	Model reduction techniques for fast blood flow simulation in parametrized geometries. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 604-625.	2.3	80
141	A reduced basis hybrid method for the coupling of parametrized domains represented by fluidic networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 221-222, 63-82.	7.1	53
142	Reduced Basis Approximation and Error Bounds for Potential Flows in Parametrized Geometries. <i>Communications in Computational Physics</i> , 2011, 9, 1-48.	1.4	39
143	Certified reduced basis approximation for parametrized partial differential equations and applications. <i>Journal of Mathematics in Industry</i> , 2011, 1, .	1.4	153
144	Model reduction of semiaffinely parameterized partial differential equations by two-level affine approximation. <i>Comptes Rendus Mathematique</i> , 2011, 349, 61-66.	0.6	3

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145	Comparison and combination of reduced-order modelling techniques in 3D parametrized heat transfer problems. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2011, 17, 371-394.	1.6	12
146	Parametric free-form shape design with PDE models and reduced basis method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1583-1592.	7.1	119
147	Reduced basis approximation and a posteriori error estimation for the time-dependent viscous Burgers's equation. <i>Calcolo</i> , 2009, 46, 157-185.	1.1	110
148	Reduced basis method for multi-parameter-dependent steady Navier-Stokes equations: Applications to natural convection in a cavity. <i>Journal of Computational Physics</i> , 2009, 228, 4359-4378.	3.7	78
149	Reduced Basis Approximation and a Posteriori Error Estimation for Affinely Parametrized Elliptic Coercive Partial Differential Equations. <i>Archives of Computational Methods in Engineering</i> , 2008, 15, 229-275.	10.2	832
150	Reduced basis method for linear elasticity problems with many parameters. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 4812-4829.	7.1	41
151	Numerical solution of parametrized Navier-Stokes equations by reduced basis methods. <i>Numerical Methods for Partial Differential Equations</i> , 2007, 23, 923-948.	1.9	123
152	On the stability of the reduced basis method for Stokes equations in parametrized domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 1244-1260.	7.1	229
153	A successive constraint linear optimization method for lower bounds of parametric coercivity and inf-sup stability constants. <i>Comptes Rendus Mathematique</i> , 2007, 345, 473-478.	0.6	180
154	Reduced basis approximation and a posteriori error estimation for affinely parametrized elliptic coercive partial differential equations. <i>Archives of Computational Methods in Engineering</i> , 2007, 15, 1-47.	10.2	169
155	Shape Design in Aorto-Coronary Bypass Anastomoses Using Perturbation Theory. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 367-384.	2.5	38
156	A Mathematical Approach in the Design of Arterial Bypass Using Unsteady Stokes Equations. <i>Journal of Scientific Computing</i> , 2006, 28, 139-165.	2.6	31
157	Reduced basis methods for Stokes equations in domains with non-affine parameter dependence. <i>Computing and Visualization in Science</i> , 2006, 12, 23-35.	1.1	56
158	Reduced-basis methods for elliptic equations in sub-domains with a posteriori error bounds and adaptivity. <i>Applied Numerical Mathematics</i> , 2005, 55, 403-424.	2.2	32
159	On optimization, control and shape design of an arterial bypass. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 47, 1411-1419.	1.8	45
160	OPTIMAL CONTROL AND SHAPE OPTIMIZATION OF AORTO-CORONARY BYPASS ANASTOMOSES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2003, 13, 1801-1823.	2.7	91