

David Kamensky

List of Publications by Year in descending order

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28
papers

1,835
citations

430843

18
h-index

580810

25
g-index

28
all docs

28
docs citations

28
times ranked

926
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Nonlocality in Computational Contact Mechanics. , 2022, , 239-246.		2
2	An open-source framework for coupling non-matching isogeometric shells with application to aerospace structures. Computers and Mathematics With Applications, 2022, 111, 109-123.	2.7	11
3	Open-source immersogeometric analysis of fluid-structure interaction using FEniCS and tIGAr. Computers and Mathematics With Applications, 2021, 81, 634-648.	2.7	15
4	Isogeometric finite element-based simulation of the aortic heart valve: Integration of neural network structural material model and structural tensor fiber architecture representations. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3438.	2.1	16
5	Residual-based shock capturing in solids. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112638.	6.6	9
6	Variational multiscale modeling with discretely divergence-free subscales. Computers and Mathematics With Applications, 2020, 80, 2517-2537.	2.7	9
7	Peridynamic Modeling of Frictional Contact. Journal of Peridynamics and Nonlocal Modeling, 2019, 1, 107-121.	2.9	37
8	Modeling strong discontinuities in the material point method using a single velocity field. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 584-601.	6.6	17
9	tIGAr: Automating isogeometric analysis with FEniCS. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 477-498.	6.6	40
10	An anisotropic constitutive model for immersogeometric fluid-structure interaction analysis of bioprosthetic heart valves. Journal of Biomechanics, 2018, 74, 23-31.	2.1	56
11	A framework for designing patient-specific bioprosthetic heart valves using immersogeometric fluid-structure interaction analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2938.	2.1	93
12	A contact formulation based on a volumetric potential: Application to isogeometric simulations of atrioventricular valves. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 522-546.	6.6	61
13	Immersogeometric Analysis of Bioprosthetic Heart Valves, Using the Dynamic Augmented Lagrangian Method. Modeling and Simulation in Science, Engineering and Technology, 2018, , 167-212.	0.6	8
14	Hyperbolic phase field modeling of brittle fracture: Part II - immersed IGA-RKPM coupling for air-blast-structure interaction. Journal of the Mechanics and Physics of Solids, 2018, 121, 114-132.	4.8	41
15	Error estimates for projection-based dynamic augmented Lagrangian boundary condition enforcement, with application to fluid-structure interaction. Mathematical Models and Methods in Applied Sciences, 2018, 28, 2457-2509.	3.3	40
16	Compressible flows on moving domains: Stabilized methods, weakly enforced essential boundary conditions, sliding interfaces, and application to gas-turbine modeling. Computers and Fluids, 2017, 158, 201-220.	2.5	87
17	Projection-based stabilization of interface Lagrange multipliers in immersogeometric fluid-thin structure interaction analysis, with application to heart valve modeling. Computers and Mathematics With Applications, 2017, 74, 2068-2088.	2.7	54
18	Immersogeometric cardiovascular fluid-structure interaction analysis with divergence-conforming B-splines. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 408-472.	6.6	80

#	ARTICLE	IF	CITATIONS
19	Optimizing fluid-structure interaction systems with immersogeometric analysis and surrogate modeling: Application to a hydraulic arresting gear. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 316, 668-693.	6.6	86
20	An Immersogeometric Method for the Simulation of Turbulent Flow Around Complex Geometries. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2016, , 111-125.	0.6	0
21	Biomechanical Behavior of Bioprosthetic Heart Valve Heterograft Tissues: Characterization, Simulation, and Performance. <i>Cardiovascular Engineering and Technology</i> , 2016, 7, 309-351.	1.6	61
22	The non-symmetric Nitsche method for the parameter-free imposition of weak boundary and coupling conditions in immersed finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 309, 625-652.	6.6	71
23	The tetrahedral finite cell method for fluids: Immersogeometric analysis of turbulent flow around complex geometries. <i>Computers and Fluids</i> , 2016, 141, 135-154.	2.5	91
24	Stability and Conservation Properties of Collocated Constraints in Immersogeometric Fluid-Thin Structure Interaction Analysis. <i>Communications in Computational Physics</i> , 2015, 18, 1147-1180.	1.7	35
25	An immersogeometric variational framework for fluid-structure interaction: Application to bioprosthetic heart valves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 284, 1005-1053.	6.6	350
26	Dynamic and fluid-structure interaction simulations of bioprosthetic heart valves using parametric design with T-splines and Fung-type material models. <i>Computational Mechanics</i> , 2015, 55, 1211-1225.	4.0	207
27	Fluid-structure interaction analysis of bioprosthetic heart valves: significance of arterial wall deformation. <i>Computational Mechanics</i> , 2014, 54, 1055-1071.	4.0	240
28	Statistical debugging with elastic predicates. , 2011, , .		18