

Antonio Huerta

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170
papers

5,262
citations

40
h-index

67
g-index

175
ext. papers

5,789
ext. citations

3.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
170	2003,		501
169	Imposing essential boundary conditions in mesh-free methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1257-1275	5.7	298
168	Arbitrary LagrangianEulerian Methods 2004,		253
167	Viscous flow with large free surface motion. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1988 , 69, 277-324	5.7	240
166	PGD-Based Computational Vademecum for Efficient Design, Optimization and Control. <i>Archives of Computational Methods in Engineering</i> , 2013 , 20, 31-59	7.8	210
165	Enrichment and coupling of the finite element and meshless methods. <i>International Journal for Numerical Methods in Engineering</i> , 2000 , 48, 1615-1636	2.4	150
164	NURBS-enhanced finite element method (NEFEM). <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 76, 56-83	2.4	136
163	An elastic plastic damage formulation for concrete: Application to elementary tests and comparison with an isotropic damage model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 7077-7092	5.7	116
162	An error estimator for separated representations of highly multidimensional models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 1872-1880	5.7	90
161	Subdomain-based flux-free a posteriori error estimators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 297-323	5.7	86
160	Proper Generalized Decomposition based dynamic data-driven control of thermal processes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 213-216, 29-41	5.7	76
159	Upper and lower bounds in limit analysis: Adaptive meshing strategies and discontinuous loading. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 77, 471-501	2.4	74
158	Arbitrary LagrangianEulerian formulation for fluid-rigid body interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 3171-3188	5.7	74
157	The computation of bounds for linear-functional outputs of weak solutions to the two-dimensional elasticity equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 406-429	5.7	66
156	NURBS-Enhanced Finite Element Method (NEFEM). <i>Archives of Computational Methods in Engineering</i> , 2011 , 18, 441-484	7.8	63
155	Consistent tangent matrices for substepping schemes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 4627-4647	5.7	63
154	Numerical differentiation for local and global tangent operators in computational plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 189, 277-296	5.7	60

153	Efficiency of high-order elements for continuous and discontinuous Galerkin methods. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 96, 529-560	2.4	59
152	3D NURBS-enhanced finite element method (NEFEM). <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 88, 103-125	2.4	57
151	Efficient unstructured quadrilateral mesh generation. <i>International Journal for Numerical Methods in Engineering</i> , 2000 , 49, 1327-1350	2.4	56
150	Adaptive finite element strategies based on error assessment. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 46, 1803-1818	2.4	56
149	Finite element analysis of bifurcation in nonlocal strain softening solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991 , 90, 905-919	5.7	56
148	Stabilized updated Lagrangian corrected SPH for explicit dynamic problems. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 2687-2710	2.4	55
147	Parametric solutions involving geometry: A step towards efficient shape optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 268, 178-193	5.7	54
146	Pseudo-divergence-free element free Galerkin method for incompressible fluid flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1119-1136	5.7	53
145	Discontinuous Galerkin methods for the Stokes equations using divergence-free approximations. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 1071-1092	1.9	51
144	A unified approach to remeshing strategies for finite element h-adaptivity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999 , 176, 215-229	5.7	51
143	A simple shock-capturing technique for high-order discontinuous Galerkin methods. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 69, 1614-1632	1.9	49
142	Discretization Influence on Regularization by Two Localization Limiters. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 1198-1218	2.4	48
141	Proper generalized decomposition for parameterized Helmholtz problems in heterogeneous and unbounded domains: Application to harbor agitation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 295, 127-149	5.7	47
140	Arbitrary Lagrangian-Eulerian (ALE) formulation for hyperelastoplasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 1831-1851	2.4	47
139	Implementation of a stabilized finite element formulation for the incompressible Navier-Stokes equations based on a pressure gradient projection. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 37, 419-444	1.9	45
138	ALE stress update for transient and quasistatic processes. <i>International Journal for Numerical Methods in Engineering</i> , 1998 , 43, 241-262	2.4	44
137	Stability of incompressible formulations enriched with X-FEM. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 1835-1849	5.7	44
136	New ALE applications in non-linear fast-transient solid dynamics. <i>Engineering Computations</i> , 1994 , 11, 317-345	1.4	44

135	A posteriori error estimation for standard finite element analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998 , 163, 141-157	5.7	43
134	Computing Bounds for Linear Functionals of Exact Weak Solutions to Poisson's Equation. <i>SIAM Journal on Numerical Analysis</i> , 2004 , 42, 1610-1630	2.4	42
133	Arbitrary Lagrangian-Eulerian finite element analysis of strain localization in transient problems. <i>International Journal for Numerical Methods in Engineering</i> , 1995 , 38, 4171-4191	2.4	42
132	Hybridizable discontinuous Galerkin p-adaptivity for wave propagation problems. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 72, 1244-1262	1.9	41
131	Locking in the incompressible limit for the element-free Galerkin method. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 51, 1361-1383	2.4	41
130	High-order accurate time-stepping schemes for convection-diffusion problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 182, 249-275	5.7	40
129	Extraction of a crack opening from a continuous approach using regularized damage models. <i>Computers and Concrete</i> , 2008 , 5, 375-388		40
128	Real-time monitoring of thermal processes by reduced-order modeling. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 991-1017	2.4	39
127	Numerical differentiation for non-trivial consistent tangent matrices: an application to the MRS-Lade model. <i>International Journal for Numerical Methods in Engineering</i> , 2000 , 48, 159-184	2.4	39
126	Error estimation and adaptivity for nonlocal damage models. <i>International Journal of Solids and Structures</i> , 2000 , 37, 7501-7528	3.1	39
125	Error estimation including pollution assessment for nonlinear finite element analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 181, 21-41	5.7	39
124	Continuous blending of SPH with finite elements. <i>Computers and Structures</i> , 2005 , 83, 1448-1458	4.5	38
123	Comparison of high-order curved finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 87, 719-734	2.4	37
122	A fractional-step method for the incompressible Navier-Stokes equations related to a predictor-multicorrector algorithm. <i>International Journal for Numerical Methods in Fluids</i> , 1998 , 28, 1391-1419	1.9	37
121	Viscous Flow Structure Interaction. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1988 , 110, 15-21	1.2	36
120	Hybridizable Discontinuous Galerkin with degree adaptivity for the incompressible Navier-Stokes equations. <i>Computers and Fluids</i> , 2014 , 98, 196-208	2.8	34
119	NURBS-enhanced finite element method for Euler equations. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 1051-1069	1.9	34
118	Adaptivity based on error estimation for viscoplastic softening materials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2000 , 5, 87-112		32

117	Proper generalized decomposition of a geometrically parametrized heat problem with geophysical applications. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 103, 737-758	2.4	31
116	Strict error bounds for linear solid mechanics problems using a subdomain-based flux-free method. <i>Computational Mechanics</i> , 2009 , 44, 533-547	4	31
115	Bounds of functional outputs for parabolic problems. Part I: Exact bounds of the discontinuous Galerkin time discretization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 1641-1660	5.7	31
114	Efficient and reliable nonlocal damage models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 3431-3455	5.7	29
113	A comparison of two formulations to blend finite elements and mesh-free methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 1105-1117	5.7	29
112	Recovering lower bounds of the error by postprocessing implicit residual a posteriori error estimates. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 56, 1465-1488	2.4	29
111	Bounds of functional outputs for parabolic problems. Part II: Bounds of the exact solution. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 1661-1679	5.7	28
110	A Multidimensional Data-Driven Sparse Identification Technique: The Sparse Proper Generalized Decomposition. <i>Complexity</i> , 2018 , 2018, 1-11	1.6	28
109	A new damage model based on non-local displacements. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2005 , 29, 473-493	4	27
108	Arbitrary LagrangianEulerian Methods 2017 , 1-23		25
107	Exact Bounds for Linear Outputs of the Advection-Diffusion-Reaction Equation Using Flux-Free Error Estimates. <i>SIAM Journal of Scientific Computing</i> , 2009 , 31, 3064-3089	2.6	25
106	Hydraulic behaviour of a representative structural volume for containment buildings. <i>Nuclear Engineering and Design</i> , 2007 , 237, 1259-1274	1.8	24
105	A superconvergent hybridisable discontinuous Galerkin method for linear elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 116, 91-116	2.4	23
104	One-dimensional shock-capturing for high-order discontinuous Galerkin methods. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 71, 737-755	1.9	21
103	Two stress update algorithms for large strains: accuracy analysis and numerical implementation. <i>International Journal for Numerical Methods in Engineering</i> , 1997 , 40, 4363-4404	2.4	21
102	Locking in the incompressible limit: pseudo-divergence-free element free Galerkin. <i>Communications in Numerical Methods in Engineering</i> , 2003 , 19, 725-735		20
101	Adaptive analysis of yield line patterns in plates with the arbitrary LagrangianEulerian method. <i>Computers and Structures</i> , 1999 , 70, 257-271	4.5	20
100	Discontinuous Galerkin methods for the NavierStokes equations using solenoidal approximations. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 64, 549-564	1.9	19

99	A Superconvergent HDG Method for Stokes Flow with Strongly Enforced Symmetry of the Stress Tensor. <i>Journal of Scientific Computing</i> , 2018 , 77, 1679-1702	2.3	18
98	HDG-NEFEM with Degree Adaptivity for Stokes Flows. <i>Journal of Scientific Computing</i> , 2018 , 77, 1953-1988		17
97	Tutorial on Hybridizable Discontinuous Galerkin (HDG) for Second-Order Elliptic Problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 105-129	0.6	16
96	Generalized parametric solutions in Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 326, 223-240	5.7	15
95	Efficient and accurate approach for powder compaction problems. <i>Computational Mechanics</i> , 2003 , 30, 220-234	4	15
94	Consistent tangent matrices for density-dependent finite plasticity models. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2001 , 25, 1045-1075	4	15
93	Permeability and Compressibility of Slurries from Seepage-Induced Consolidation. <i>Journal of Geotechnical Engineering</i> , 1988 , 114, 614-627		15
92	An upwind cell centred Total Lagrangian finite volume algorithm for nearly incompressible explicit fast solid dynamic applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 340, 684-727	5.7	14
91	Estimation of crack opening from a two-dimensional continuum-based finite element computation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012 , 36, 1813-1830	4	14
90	A face-centred finite volume method for second-order elliptic problems. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 115, 986-1014	2.4	14
89	An improved algorithm to smooth graded quadrilateral meshes preserving the prescribed element size. <i>Communications in Numerical Methods in Engineering</i> , 2001 , 17, 89-99		13
88	Nonintrusive proper generalised decomposition for parametrised incompressible flow problems in OpenFOAM. <i>Computer Physics Communications</i> , 2020 , 249, 107013	4.2	13
87	Algebraic PGD for tensor separation and compression: An algorithmic approach. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 501-514	2.1	12
86	Model Reduction Methods 2017 , 1-36		12
85	Dimensionless Analysis of HSDM and Application to Simulation of Breakthrough Curves of Highly Adsorbent Porous Media. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 667-676	2	12
84	Encapsulated PGD Algebraic Toolbox Operating with High-Dimensional Data. <i>Archives of Computational Methods in Engineering</i> , 2020 , 27, 1321-1336	7.8	12
83	Proper generalized decomposition solutions within a domain decomposition strategy. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1972-1994	2.4	12
82	A note on upper bound formulations in limit analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 91, 896-908	2.4	11

81	A flux-free a posteriori error estimator for the incompressible Stokes problem using a mixed FE formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 2383-2402	5.7	11
80	Convergence of finite elements enriched with mesh-less methods. <i>Numerische Mathematik</i> , 2003 , 96, 43-59	2.2	11
79	Vademecum-based GFEM (V-GFEM): optimal enrichment for transient problems. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 108, 971-989	2.4	11
78	A locking-free face-centred finite volume (FCFV) method for linear elastostatics. <i>Computers and Structures</i> , 2019 , 212, 43-57	4.5	11
77	Time-accurate solution of stabilized convection-diffusion-reaction equations: II Time and space discretization. <i>Communications in Numerical Methods in Engineering</i> , 2002 , 18, 565-573		10
76	Time-accurate solution of stabilized convection-diffusion-reaction equations: II Accuracy analysis and examples. <i>Communications in Numerical Methods in Engineering</i> , 2002 , 18, 575-584		10
75	Numerical representation of the quality measures of triangles and triangular meshes. <i>Communications in Numerical Methods in Engineering</i> , 2003 , 19, 551-561		10
74	Meshfree Methods 2004 ,		10
73	Space-time NURBS-enhanced finite elements for free-surface flows in 2D. <i>International Journal for Numerical Methods in Fluids</i> , 2016 , 81, 426-450	1.9	9
72	Stability of anchored sheet wall in cohesive-frictional soils by FE limit analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 1213-1230	4	9
71	High-order implicit time integration for unsteady incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 603-626	1.9	9
70	Time accurate consistently stabilized mesh-free methods for convection dominated problems. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 56, 1225-1242	2.4	9
69	A second-order face-centred finite volume method for elliptic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 358, 112655	5.7	9
68	On the natural stabilization of convection dominated problems using high order Bubnov-Galerkin finite elements. <i>Computers and Mathematics With Applications</i> , 2014 , 66, 2545-2558	2.7	8
67	The efficient computation of bounds for functionals of finite element solutions in large strain elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 4807-4826	5.7	8
66	Large-Amplitude Sloshing With Submerged Blocks. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1990 , 112, 104-108	1.2	8
65	Solution of geometrically parametrised problems within a CAD environment via model order reduction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 358, 112631	5.7	8
64	Simulating squeeze flows in multiaxial laminates: towards fully 3D mixed formulations. <i>International Journal of Material Forming</i> , 2017 , 10, 653-669	2	7

63	Meshfree Methods 2017 , 1-38		7
62	Effect of the separated approximation of input data in the accuracy of the resulting PGD solution. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2015 , 2,	2.7	7
61	Streamline upwind/Petrov-Galerkin-based stabilization of proper generalized decompositions for high-dimensional advection-diffusion equations. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 94, 1216-1232	2.4	7
60	Error estimation and adaptive finite element analysis of softening solids. <i>Studies in Applied Mechanics</i> , 1998 , 333-347		7
59	Adapting Broyden method to handle linear constraints imposed via Lagrange multipliers. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 46, 2011-2026	2.4	7
58	A kernel Principal Component Analysis (kPCA) Digest with a New Backward Mapping (pre-image reconstruction) Strategy		7
57	A weakly compressible hybridizable discontinuous Galerkin formulation for fluid-structure interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113392	5.7	7
56	A new least-squares approximation of affine mappings for sweep algorithms 2005 , 433-448		7
55	UPDATED LAGRANGIAN FORMULATION FOR CORRECTED SMOOTH PARTICLE HYDRODYNAMICS. <i>International Journal of Computational Methods</i> , 2006 , 03, 383-399	1.1	6
54	Benchmarks for the validation of a non local damage model. <i>Revue Européenne De Génie Civil</i> , 2004 , 8, 303-328		6
53	Mesh projection between parametric surfaces. <i>Communications in Numerical Methods in Engineering</i> , 2005 , 22, 591-603		6
52	Adaptive analysis based on error estimation for nonlocal damage models. <i>Revue Européenne Des Elements</i> , 2001 , 10, 193-207		6
51	Comparing Two Algorithms to Add Large Strains to Small-Strain FE Code. <i>Journal of Engineering Mechanics - ASCE</i> , 1998 , 124, 939-948	2.4	6
50	Numerical analysis of non-linear large-strain consolidation and filling. <i>Computers and Structures</i> , 1992 , 44, 357-365	4.5	6
49	Enrichissement des interpolations d'éléments finis en utilisant des méthodes sans maillage. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2002 , 36, 1027-1042	1.8	6
48	Real-time simulation techniques for augmented learning in science and engineering. <i>Visual Computer</i> , 2016 , 32, 1465-1479	2.3	5
47	High-order continuous and discontinuous Galerkin methods for wave problems. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 73, n/a-n/a	1.9	5
46	Computable exact bounds for linear outputs from stabilized solutions of the advection-diffusion-reaction equation. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 93, 483-509	2.4	5

45	A NOTE ON A NUMERICAL BENCHMARK TEST: AN AXISYMMETRIC SHELL UNDER RING LOADS. <i>Communications in Numerical Methods in Engineering</i> , 1997 , 13, 181-192		5
44	Bounds for quantities of interest and adaptivity in the element-free Galerkin method. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 76, 1782-1818	2.4	5
43	Tutorial on Hybridizable Discontinuous Galerkin (HDG) Formulation for Incompressible Flow Problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 163-201	0.6	5
42	Hybrid coupling of CG and HDG discretizations based on Nitsche's method. <i>Computational Mechanics</i> , 2020 , 65, 311-330	4	5
41	Hybridizable discontinuous Galerkin solution of geometrically parametrised Stokes flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113397	5.7	5
40	A local multiple proper generalized decomposition based on the partition of unity. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 120, 139-152	2.4	4
39	Modeling, with a unified level-set representation, of the expansion of a hollow in the ground under different physical phenomena. <i>Computational Mechanics</i> , 2010 , 46, 315-327	4	4
38	Accurate upper and lower error bounds by solving flux-free local problems in \mathbb{P}_1 . <i>Revue Europeenne Des Elements</i> , 2004 , 13, 497-507		4
37	Numerical modelling of void inclusions in porous media. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 59, 577-596	2.4	4
36	Plastic Flow Potential for Cone Region of MRS-Lade Model. <i>Journal of Engineering Mechanics - ASCE</i> , 1999 , 125, 364-366	2.4	4
35	Hybridizable Discontinuous Galerkin Formulation of Compressible Flows. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 753-784	7.8	4
34	Tensor Representation of Non-linear Models Using Cross Approximations. <i>Journal of Scientific Computing</i> , 2019 , 81, 22-47	2.3	3
33	Error Estimation and Quality Control 2010 ,		3
32	A new least-squares approximation of affine mappings for sweep algorithms. <i>Engineering With Computers</i> , 2010 , 26, 327-337	4.5	3
31	SUPG-based stabilization using a separated representations approach. <i>International Journal of Material Forming</i> , 2010 , 3, 883-886	2	3
30	Coupling Finite Elements and Particles for Adaptivity: An Application to Consistently Stabilized Convection-Diffusion. <i>Lecture Notes in Computational Science and Engineering</i> , 2003 , 117-129	0.3	3
29	Locking in the incompressible limit: pseudo-divergence-free element free Galerkin. <i>Revue Europeenne Des Elements</i> , 2002 , 11, 869-892		3
28	Benchmarks for the validation of a non local damage model		3

27	PGD for solving multidimensional and parametric models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014 , 27-89	0.6	3
26	A staggered high-dimensional Proper Generalised Decomposition for coupled magneto-mechanical problems with application to MRI scanners. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 370, 113271	5.7	3
25	A regularised-adaptive Proper Generalised Decomposition implementation for coupled magneto-mechanical problems with application to MRI scanners. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 358, 112640	5.7	3
24	Separated response surfaces for flows in parametrised domains: Comparison of a priori and a posteriori PGD algorithms. <i>Finite Elements in Analysis and Design</i> , 2021 , 196, 103530	2.2	3
23	Numerical differentiation for non-trivial consistent tangent matrices: an application to the MRS-Lade model 2000 , 48, 159		3
22	Adaptivity based on error estimation for viscoplastic softening materials 2000 , 5, 87		3
21	Analysis of the average efficiency of an error estimator 2017 , 113-126		2
20	Efficient and Reliable Nonlocal Damage Models. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2003 , 239-268	0.3	2
19	Fast solution of elliptic harbor agitation problems under frequency-direction input spectra by model order reduction and NURBS-enhanced FEM. <i>Coastal Engineering</i> , 2020 , 156, 103618	4.8	2
18	Elliptic Harbor Wave Model with Perfectly Matched Layer and Exterior Bathymetry Effects. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2016 , 142, 04016008	1.7	2
17	HDGlab: An Open-Source Implementation of the Hybridisable Discontinuous Galerkin Method in MATLAB. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1941-1986	7.8	2
16	Multiscale proper generalized decomposition based on the partition of unity. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 120, 727-747	2.4	1
15	Reshaping of large aeronautical structural parts: A simplified simulation approach 2018 ,		1
14	Etude de la stabilité d'une formulation incompressible traitée par X-FEM. <i>European Journal of Computational Mechanics</i> , 2006 , 15, 257-268	0.5	1
13	Goal-oriented adaptivity for shell structures Error assessment and remeshing criteria. <i>Revue Européenne Des Elements</i> , 2003 , 12, 691-715		1
12	Error estimation for adaptive computations of shell structures. <i>Revue Européenne Des Elements</i> , 2000 , 9, 49-66		1
11	Error estimation for linear and nonlinear problems 2017 , 183-194		1
10	Implicit Residual Type Error Estimators. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 19-32	0.4	1

9	Un método de captura de choques basado en las funciones de forma para Galerkin discontinuo de alto orden. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2012 , 28, 204-213	1.8	0
8	A non-oscillatory face-centred finite volume method for compressible flows. <i>Computers and Fluids</i> , 2022 , 235, 105272	2.8	0
7	Parametric solutions of turbulent incompressible flows in OpenFOAM via the proper generalised decomposition. <i>Journal of Computational Physics</i> , 2021 , 449, 110802	4.1	0
6	Goal Oriented Error Estimation for the Element Free Galerkin Method 2007 , 265-282		
5	Accuracy of Two Stress Update Algorithms for Shear-Free Large Deformation Paths. <i>Journal of Engineering Mechanics - ASCE</i> , 1999 , 125, 715-717	2.4	
4	Exact Bounds for Linear Outputs of the Convection-Diffusion-Reaction Equation Using Flux-Free Error Estimates. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 215-230	0.3	
3	Continuum damage modelling in geomechanics 2004 , 77-105		
2	Reshaping diagrams for bending straightening of forged aeronautical components. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 110, 1485-1502	3.2	
1	A simple microstructural viscoelastic model for flowing foams. <i>International Journal of Material Forming</i> , 2019 , 12, 295-306	2	