

Stéphane Pa Bordas

List of Publications by Year in descending order

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374
papers

19,041
citations

11555

69
h-index

16621

121
g-index

396
all docs

396
docs citations

396
times ranked

10310
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple and robust three-dimensional cracking-particle method without enrichment. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2437-2455.	6.7	768
2	Isogeometric analysis: An overview and computer implementation aspects. <i>Mathematics and Computers in Simulation</i> , 2015, 117, 89-116.	4.6	506
3	A computational library for multiscale modeling of material failure. <i>Computational Mechanics</i> , 2014, 53, 1047-1071.	3.9	460
4	Real-time Volumetric Deformable Models for Surgery Simulation using Finite Elements and Condensation. <i>Computer Graphics Forum</i> , 1996, 15, 57-66.	2.5	377
5	A hybrid elastic model for real-time cutting, deformations, and force feedback for surgery training and simulation. <i>Visual Computer</i> , 2000, 16, 437-452.	3.7	364
6	Isogeometric boundary element analysis using unstructured T-splines. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 254, 197-221.	6.7	324
7	A three-dimensional meshfree method for continuous multiple-crack initiation, propagation and junction in statics and dynamics. <i>Computational Mechanics</i> , 2007, 40, 473-495.	3.9	317
8	Three-dimensional crack initiation, propagation, branching and junction in non-linear materials by an extended meshfree method without asymptotic enrichment. <i>Engineering Fracture Mechanics</i> , 2008, 75, 943-960.	4.3	317
9	A two-dimensional Isogeometric Boundary Element Method for elastostatic analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 209-212, 87-100.	6.7	303
10	NURBS-based finite element analysis of functionally graded plates: Static bending, vibration, buckling and flutter. <i>Composite Structures</i> , 2013, 99, 309-326.	5.9	286
11	A smoothed finite element method for plate analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 1184-1203.	6.7	285
12	A geometrically non-linear three-dimensional cohesive crack method for reinforced concrete structures. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4740-4758.	4.3	274
13	Isogeometric analysis of laminated composite and sandwich plates using a new inverse trigonometric shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2014, 43, 89-108.	3.8	267
14	Strain smoothing in FEM and XFEM. <i>Computers and Structures</i> , 2010, 88, 1419-1443.	4.5	257
15	Isogeometric analysis using polynomial splines over hierarchical T-meshes for two-dimensional elastic solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1892-1908.	6.7	228
16	A refined quasi-3D isogeometric analysis for functionally graded microplates based on the modified couple stress theory. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 313, 904-940.	6.7	226
17	An extended finite element library. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 71, 703-732.	2.8	223
18	A smoothed finite element method for shell analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 198, 165-177.	6.7	202

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19	An adaptive multiscale method for quasi-static crack growth. <i>Computational Mechanics</i> , 2014, 53, 1129-1148.	3.9	201
20	Extended finite element method with edge-based strain smoothing (ESm-XFEM) for linear elastic crack growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 209-212, 250-265.	6.7	199
21	Isogeometric analysis of functionally graded carbon nanotube-reinforced composite plates using higher-order shear deformation theory. <i>Composite Structures</i> , 2015, 123, 137-149.	5.9	196
22	Size-dependent free flexural vibration behavior of functionally graded nanoplates. <i>Computational Materials Science</i> , 2012, 65, 74-80.	3.1	191
23	Deep neural network with high-order neuron for the prediction of foamed concrete strength. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 316-332.	10.4	188
24	Nitsche's method for two and three dimensional NURBS patch coupling. <i>Computational Mechanics</i> , 2014, 53, 1163-1182.	3.9	187
25	Isogeometric boundary element methods for three dimensional static fracture and fatigue crack growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 316, 151-185.	6.7	186
26	An adaptive singular ES-FEM for mechanics problems with singular field of arbitrary order. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 252-273.	6.7	185
27	Isogeometric locking-free plate element: A simple first order shear deformation theory for functionally graded plates. <i>Composite Structures</i> , 2014, 118, 121-138.	5.9	183
28	Psychological adjustment after breast cancer: a systematic review of longitudinal studies. <i>Psycho-Oncology</i> , 2017, 26, 917-926.	2.5	167
29	Numerical integration over arbitrary polygonal domains based on Schwarz's Christoffel conformal mapping. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 80, 103-134.	2.8	158
30	Isogeometric analysis of functionally graded plates using a refined plate theory. <i>Composites Part B: Engineering</i> , 2014, 64, 222-234.	12.0	152
31	On the performance of strain smoothing for quadratic and enriched finite element approximations (XFEM/GFEM/PUFEM). <i>International Journal for Numerical Methods in Engineering</i> , 2011, 86, 637-666.	2.8	144
32	Activity and Adverse Events of Actinium-225-PSMA-617 in Advanced Metastatic Castration-resistant Prostate Cancer After Failure of Lutetium-177-PSMA. <i>European Urology</i> , 2021, 79, 343-350.	5.0	144
33	Enriched finite elements and level sets for damage tolerance assessment of complex structures. <i>Engineering Fracture Mechanics</i> , 2006, 73, 1176-1201.	4.3	143
34	An isogeometric boundary element method for elastostatic analysis: 2D implementation aspects. <i>Computers and Structures</i> , 2013, 118, 2-12.	4.5	135
35	Real-time simulation of contact and cutting of heterogeneous soft-tissues. <i>Medical Image Analysis</i> , 2014, 18, 394-410.	11.7	134
36	Smooth finite element methods: Convergence, accuracy and properties. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 74, 175-208.	2.8	130

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37	A node-based smoothed finite element method with stabilized discrete shear gap technique for analysis of Reissner-Mindlin plates. <i>Computational Mechanics</i> , 2010, 46, 679-701.	3.9	129
38	Natural frequencies of cracked functionally graded material plates by the extended finite element method. <i>Composite Structures</i> , 2011, 93, 3082-3092.	5.9	129
39	Bridging proper orthogonal decomposition methods and augmented Newton-Krylov algorithms: An adaptive model order reduction for highly nonlinear mechanical problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 850-866.	6.7	123
40	Derivative recovery and a posteriori error estimate for extended finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 3381-3399.	6.7	122
41	Structural shape optimization of three dimensional acoustic problems with isogeometric boundary element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 355, 926-951.	6.7	119
42	Shape optimization directly from CAD: An isogeometric boundary element approach using T-splines. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 317, 1-41.	6.7	118
43	A posteriori error estimation for extended finite elements by an extended global recovery. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 1123-1138.	2.8	113
44	Modelling hydraulic fractures in porous media using flow cohesive interface elements. <i>Engineering Geology</i> , 2017, 225, 68-82.	6.3	113
45	The governance of the European Energy Union: Efficiency, effectiveness and acceptance of the Winter Package 2016. <i>Energy Policy</i> , 2018, 112, 209-220.	8.8	113
46	A combined extended finite element and level set method for biofilm growth. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 74, 848-870.	2.8	111
47	The influence of fracture geometry variation on non-Darcy flow in fractures under confining stresses. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 113, 59-71.	5.8	110
48	Implementation of regularized isogeometric boundary element methods for gradient-based shape optimization in two-dimensional linear elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 106, 972-1017.	2.8	104
49	Integrating strong and weak discontinuities without integration subcells and example applications in an XFEM/GFEM framework. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 83, 269-294.	2.8	103
50	Accurate fracture modelling using meshless methods, the visibility criterion and level sets: Formulation and 2D modelling. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 86, 249-268.	2.8	99
51	The giant Dexing porphyry Cu-Mo-Au deposit in east China: product of melting of juvenile lower crust in an intracontinental setting. <i>Mineralium Deposita</i> , 2013, 48, 1019-1045.	4.1	98
52	Image-guided simulation of heterogeneous tissue deformation for augmented reality during hepatic surgery. , 2013, , .		97
53	Acoustic topology optimization of sound absorbing materials directly from subdivision surfaces with isogeometric boundary element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112806.	6.7	96
54	Patient-Specific Biomechanical Modeling for Guidance During Minimally-Invasive Hepatic Surgery. <i>Annals of Biomedical Engineering</i> , 2016, 44, 139-153.	2.5	95

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55	3D meso-scale modelling of foamed concrete based on X-ray Computed Tomography. <i>Construction and Building Materials</i> , 2018, 188, 583-598.	7.2	94
56	An efficient computational approach for control of nonlinear transient responses of smart piezoelectric composite plates. <i>International Journal of Non-Linear Mechanics</i> , 2015, 76, 190-202.	2.7	93
57	A simple error estimator for extended finite elements. <i>Communications in Numerical Methods in Engineering</i> , 2007, 24, 961-971.	1.3	90
58	A cell-based smoothed finite element method for kinematic limit analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 83, 1651-1674.	2.8	88
59	DRP1 Suppresses Leptin and Glucose Sensing of POMC Neurons. <i>Cell Metabolism</i> , 2017, 25, 647-660.	15.7	87
60	An experimental/numerical investigation into the main driving force for crack propagation in uni-directional fibre-reinforced composite laminae. <i>Composite Structures</i> , 2014, 107, 119-130.	5.9	85
61	Linear smoothed polygonal and polyhedral finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 109, 1263-1288.	2.8	85
62	Histogram Equalization Variants as Optimization Problems: A Review. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1471-1496.	10.6	81
63	Finite element analysis on implicitly defined domains: An accurate representation based on arbitrary parametric surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 774-796.	6.7	80
64	Isogeometric analysis enhanced by the scaled boundary finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 733-762.	6.7	80
65	Minimum energy multiple crack propagation. Part III: XFEM computer implementation and applications. <i>Engineering Fracture Mechanics</i> , 2018, 191, 257-276.	4.3	74
66	Generalized B-splines as a tool in isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 867-881.	6.7	73
67	On the approximation in the smoothed finite element method (SFEM). <i>International Journal for Numerical Methods in Engineering</i> , 2010, 81, 660-670.	2.8	72
68	Convergence and accuracy of displacement based finite element formulations over arbitrary polygons: Laplace interpolants, strain smoothing and scaled boundary polygon formulation. <i>Finite Elements in Analysis and Design</i> , 2014, 85, 101-122.	3.2	72
69	A well-conditioned and optimally convergent XFEM for 3D linear elastic fracture. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 105, 643-677.	2.8	72
70	Improving the conditioning of XFEM/GFEM for fracture mechanics problems through enrichment quasi-orthogonalization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 1051-1073.	6.7	72
71	A meshless adaptive multiscale method for fracture. <i>Computational Materials Science</i> , 2015, 96, 382-395.	3.1	71
72	Minimum energy multiple crack propagation. Part I: Theory and state of the art review. <i>Engineering Fracture Mechanics</i> , 2018, 191, 205-224.	4.3	71

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73	Numerically determined enrichment functions for the extended finite element method and applications to bi-material anisotropic fracture and polycrystals. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 83, 805-828.	2.8	70
74	Stable 3D extended finite elements with higher order enrichment for accurate non planar fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 306, 19-46.	6.7	70
75	Hygrothermal effects on the free vibration and buckling of laminated composites with cutouts. <i>Composite Structures</i> , 2014, 108, 848-855.	5.9	68
76	Quantifying the uncertainty in a hyperelastic soft tissue model with stochastic parameters. <i>Applied Mathematical Modelling</i> , 2018, 62, 86-102.	4.3	68
77	Identifying elastoplastic parameters with Bayes's theorem considering output error, input error and model uncertainty. <i>Probabilistic Engineering Mechanics</i> , 2019, 55, 28-41.	2.8	67
78	Bayesian inference to identify parameters in viscoelasticity. <i>Mechanics of Time-Dependent Materials</i> , 2018, 22, 221-258.	4.1	66
79	Stable 3D XFEM/vector level sets for non-planar 3D crack propagation and comparison of enrichment schemes. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 252-276.	2.8	65
80	Advances in oral cancer detection. <i>Advances in Clinical Chemistry</i> , 2019, 91, 181-200.	3.3	65
81	Linear free flexural vibration of cracked functionally graded plates in thermal environment. <i>Computers and Structures</i> , 2011, 89, 1535-1546.	4.5	63
82	An alternative alpha finite element method with discrete shear gap technique for analysis of isotropic Mindlin-Reissner plates. <i>Finite Elements in Analysis and Design</i> , 2011, 47, 519-535.	3.2	61
83	Extended finite element method for dynamic fracture of piezo-electric materials. <i>Engineering Fracture Mechanics</i> , 2012, 92, 19-31.	4.3	61
84	Two- and three-dimensional isogeometric cohesive elements for composite delamination analysis. <i>Composites Part B: Engineering</i> , 2014, 60, 193-212.	12.0	61
85	Simulation of hyperelastic materials in real-time using deep learning. <i>Medical Image Analysis</i> , 2020, 59, 101569.	11.7	61
86	N-doped hollow mesoporous carbon spheres prepared by polybenzoxazines precursor for energy storage. <i>Carbon</i> , 2020, 160, 265-272.	10.6	61
87	Microplastics identification and quantification in the composted Organic Fraction of Municipal Solid Waste. <i>Science of the Total Environment</i> , 2022, 813, 151902.	8.1	61
88	Multi-frequency acoustic topology optimization of sound-absorption materials with isogeometric boundary element methods accelerated by frequency-decoupling and model order reduction techniques. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 395, 114997.	6.7	61
89	Minimum energy multiple crack propagation. Part-II: Discrete solution with XFEM. <i>Engineering Fracture Mechanics</i> , 2018, 191, 225-256.	4.3	60
90	Stochastic modelling of clay/epoxy nanocomposites. <i>Composite Structures</i> , 2014, 118, 241-249.	5.9	59

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91	Virtual and smoothed finite elements: A connection and its application to polygonal/polyhedral finite element methods. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 104, 1173-1199.	2.8	59
92	Free vibration and mechanical buckling of plates with in-plane material inhomogeneity – A three dimensional consistent approach. <i>Composite Structures</i> , 2014, 118, 634-642.	5.9	58
93	Automatised selection of load paths to construct reduced-order models in computational damage micromechanics: from dissipation-driven random selection to Bayesian optimization. <i>Computational Mechanics</i> , 2016, 58, 213-234.	3.9	57
94	Multiple crack detection in 3D using a stable XFEM and global optimization. <i>Computational Mechanics</i> , 2018, 62, 835-852.	3.9	57
95	Linear buckling analysis of cracked plates by SFEM and XFEM. <i>Journal of Mechanics of Materials and Structures</i> , 2011, 6, 1213-1238.	0.6	56
96	Constraint-Based Haptic Rendering of Multirate Compliant Mechanisms. <i>IEEE Transactions on Haptics</i> , 2011, 4, 175-187.	2.7	56
97	Analysis of Functionally Graded Material Plates Using Triangular Elements with Cell-Based Smoothed Discrete Shear Gap Method. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-13.	1.2	56
98	A framework for polyconvex large strain phase-field methods to fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 317, 649-683.	6.7	55
99	XFEM modeling of multistage hydraulic fracturing in anisotropic shale formations. <i>Journal of Petroleum Science and Engineering</i> , 2018, 162, 801-812.	4.3	55
100	Interfacial behavior and debonding failures of full-scale CFRP-strengthened H-section steel beams. <i>Composite Structures</i> , 2018, 201, 540-552.	5.9	55
101	An alternative alpha finite element method (α -TJ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td (xmlns:mml="http://www.wiley.com/terms-and-conditions") using triangular meshes. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2112-2135.	2.0	54
102	How the vestibular system interacts with somatosensory perception: A sham-controlled study with galvanic vestibular stimulation. <i>Neuroscience Letters</i> , 2013, 550, 35-40.	2.1	54
103	Representation of singular fields without asymptotic enrichment in the extended finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 96, 813-841.	2.8	54
104	Impact of Soft Tissue Heterogeneity on Augmented Reality for Liver Surgery. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 584-597.	4.5	54
105	Effects of elastic strain energy and interfacial stress on the equilibrium morphology of misfit particles in heterogeneous solids. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1433-1445.	4.9	53
106	Explicit finite deformation analysis of isogeometric membranes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 277, 104-130.	6.7	53
107	Real-Time Error Control for Surgical Simulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 596-607.	4.3	53
108	Skew-symmetric Nitsche's formulation in isogeometric analysis: Dirichlet and symmetry conditions, patch coupling and frictionless contact. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 341, 188-220.	6.7	53

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109	Landslide susceptibility index based on the integration of logistic regression and weights of evidence: A case study in Popayan, Colombia. <i>Engineering Geology</i> , 2021, 280, 105958.	6.3	53
110	Dynamic fracture simulations using the scaled boundary finite element method on hybrid polygonal-quadtrees. <i>International Journal of Impact Engineering</i> , 2016, 90, 154-164.	5.0	52
111	A FEniCS implementation of the phase field method for quasi-static brittle fracture. <i>Frontiers of Structural and Civil Engineering</i> , 2019, 13, 380-396.	2.8	52
112	Optimization of elastic properties and weaving patterns of woven composites. <i>Composite Structures</i> , 2013, 100, 575-591.	5.9	51
113	On a family of convected particle domain interpolations in the material point method. <i>Finite Elements in Analysis and Design</i> , 2017, 126, 50-64.	3.2	49
114	Linear smoothed extended finite element method for fatigue crack growth simulations. <i>Engineering Fracture Mechanics</i> , 2019, 206, 551-564.	4.3	49
115	A simulation-based design paradigm for complex cast components. <i>Engineering With Computers</i> , 2007, 23, 25-37.	5.8	47
116	$\int_{\Omega} \mathbf{h} \cdot \mathbf{p}$ - adaptivity driven by recovery and residual-based error estimators for PHT-splines applied to time-harmonic acoustics. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2369-2395.	2.8	47
117	Seamless integration of computer-aided geometric modeling and acoustic simulation: Isogeometric boundary element methods based on Catmull-Clark subdivision surfaces. <i>Advances in Engineering Software</i> , 2020, 149, 102879.	3.8	47
118	Efficient Nonlinear FEM for Soft Tissue Modelling and Its GPU Implementation within the Open Source Framework SOFA. <i>Lecture Notes in Computer Science</i> , 2008, , 28-39.	2.0	46
119	Bi-material topology optimization for fully coupled structural-acoustic systems with isogeometric FEM-BEM. <i>Engineering Analysis With Boundary Elements</i> , 2022, 135, 182-195.	3.7	46
120	A sample-efficient deep learning method for multivariate uncertainty qualification of acoustic-vibration interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 393, 114784.	6.7	46
121	A new soft-tissue simulation strategy for cranio-maxillofacial surgery using facial muscle template model. <i>Progress in Biophysics and Molecular Biology</i> , 2010, 103, 284-291.	3.0	45
122	Smoothed finite element and genetic algorithm based optimization for shape adaptive composite marine propellers. <i>Composite Structures</i> , 2014, 109, 189-197.	5.9	45
123	On the Convergence of Stresses in Fretting Fatigue. <i>Materials</i> , 2016, 9, 639.	3.0	45
124	Direct analysis of ascorbic acid in food beverage samples by flow injection analysis using reduced graphene oxide sensor. <i>Food Chemistry</i> , 2020, 319, 126509.	8.3	45
125	Adaptive Isogeometric analysis for plate vibrations: An efficient approach of local refinement based on hierarchical a posteriori error estimation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 342, 251-286.	6.7	44
126	A real-time predictive simulation of abdominal viscera positions during quiet free breathing. <i>Progress in Biophysics and Molecular Biology</i> , 2010, 103, 169-184.	3.0	43

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127	Simple and extensible plate and shell finite element models through automatic code generation tools. <i>Computers and Structures</i> , 2018, 209, 163-181.	4.5	43
128	On the use of NURBS-based discretizations in the scaled boundary finite element method for wave propagation problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 315, 867-880.	6.7	42
129	Quantifying discretization errors for soft tissue simulation in computer assisted surgery: A preliminary study. <i>Applied Mathematical Modelling</i> , 2020, 77, 709-723.	4.3	41
130	Uncertainty quantification of dry woven fabrics: A sensitivity analysis on material properties. <i>Composite Structures</i> , 2014, 116, 1-17.	5.9	40
131	Environmental effects on the free vibration of curvilinear fibre composite laminates with cutouts. <i>Composites Part B: Engineering</i> , 2016, 88, 131-138.	12.0	40
132	Histopathology of aortic complications in bicuspid aortic valve versus Marfan syndrome: relevance for therapy?. <i>Heart and Vessels</i> , 2016, 31, 795-806.	1.2	40
133	Corotational cut finite element method for real-time surgical simulation: Application to needle insertion simulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 345, 183-211.	6.7	40
134	Strengthening RC structures using FRP spike anchors in combination with EBR systems. <i>Composite Structures</i> , 2019, 209, 668-685.	5.9	39
135	Crack propagation modelling in functionally graded materials using scaled boundary polygons. <i>International Journal of Fracture</i> , 2015, 192, 87-105.	2.2	38
136	A combined scheme of edge-based and node-based smoothed finite element methods for Reissner-Mindlin flat shells. <i>Engineering With Computers</i> , 2016, 32, 267-284.	5.8	38
137	A Bayesian multiscale CNN framework to predict local stress fields in structures with microscale features. <i>Computational Mechanics</i> , 2022, 69, 733-766.	3.9	38
138	Virtual cutting of deformable objects based on efficient topological operations. <i>Visual Computer</i> , 2015, 31, 831-841.	3.7	36
139	Viscous and elastic properties of polylactide melts filled with silica particles: Effect of particle size and concentration. <i>Composites Part B: Engineering</i> , 2016, 89, 44-53.	12.0	36
140	Variable stiffness laminated composite shells – Free vibration characteristics based on higher-order structural theory. <i>Composite Structures</i> , 2018, 188, 407-414.	5.9	36
141	Model order reduction accelerated Monte Carlo stochastic isogeometric method for the analysis of structures with high-dimensional and independent material uncertainties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 266-284.	6.7	36
142	A scaled boundary finite element formulation over arbitrary faceted star convex polyhedra. <i>Engineering Analysis With Boundary Elements</i> , 2017, 80, 218-229.	3.7	34
143	What makes Data Science different? A discussion involving Statistics2.0 and Computational Sciences. <i>International Journal of Data Science and Analytics</i> , 2018, 6, 167-175.	4.4	34
144	Current knowledge and challenges in extraction, characterization and bioactivity of seaweed protein and seaweed-derived proteins. <i>Advances in Botanical Research</i> , 2020, 95, 289-326.	1.0	34

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145	A unified enrichment approach addressing blending and conditioning issues in enriched finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 673-700.	6.7	33
146	A parallel and efficient multi-split XFEM for 3-D analysis of heterogeneous materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 365-401.	6.7	33
147	Adaptive phase field modelling of crack propagation in orthotropic functionally graded materials. <i>Defence Technology</i> , 2021, 17, 185-195.	4.5	33
148	Addressing volumetric locking and instabilities by selective integration in smoothed finite elements. <i>Communications in Numerical Methods in Engineering</i> , 2009, 25, 19-34.	1.3	32
149	A cell based smoothed finite element method for free vibration and buckling analysis of shells. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 347-361.	1.9	32
150	Gradient plasticity crack tip characterization by means of the extended finite element method. <i>Computational Mechanics</i> , 2017, 59, 831-842.	3.9	32
151	Interactive Simulation of Flexible Needle Insertions Based on Constraint Models. <i>Lecture Notes in Computer Science</i> , 2009, 12, 291-299.	2.0	32
152	Analysis of composite plates by a unified formulation-cell based smoothed finite element method and field consistent elements. <i>Composite Structures</i> , 2013, 105, 75-81.	5.9	31
153	Open-cell aluminium foams with graded coatings as passively controllable energy absorbers. <i>Materials and Design</i> , 2015, 87, 36-41.	7.1	31
154	An extended finite element method (XFEM) for linear elastic fracture with smooth nodal stress. <i>Computers and Structures</i> , 2017, 179, 48-63.	4.5	31
155	Locally equilibrated stress recovery for goal oriented error estimation in the extended finite element method. <i>Computers and Structures</i> , 2015, 152, 1-10.	4.5	30
156	Preoperative trajectory planning for percutaneous procedures in deformable environments. <i>Computerized Medical Imaging and Graphics</i> , 2016, 47, 16-28.	6.0	30
157	Parametric instabilities of variable angle tow composite laminate under axial compression. <i>Composite Structures</i> , 2017, 166, 229-238.	5.9	30
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