

# Ren de Borst

## List of Publications by Citations

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306  
papers

14,336  
citations

67  
h-index

113  
g-index

335  
ext. papers

15,748  
ext. citations

3  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
306	GRADIENT ENHANCED DAMAGE FOR QUASI-BRITTLE MATERIALS. <i>International Journal for Numerical Methods in Engineering</i> , <b>1996</b> , 39, 3391-3403	2.4	865
305	Gradient-dependent plasticity: Formulation and algorithmic aspects. <i>International Journal for Numerical Methods in Engineering</i> , <b>1992</b> , 35, 521-539	2.4	690
304	FUNDAMENTAL ISSUES IN FINITE ELEMENT ANALYSES OF LOCALIZATION OF DEFORMATION. <i>Engineering Computations</i> , <b>1993</b> , 10, 99-121	1.4	452
303	A critical comparison of nonlocal and gradient-enhanced softening continua. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 7723-7746	3.1	442
302	SIMULATION OF STRAIN LOCALIZATION: A REAPPRAISAL OF THE COSSERAT CONTINUUM. <i>Engineering Computations</i> , <b>1991</b> , 8, 317-332	1.4	391
301	On the numerical integration of interface elements. <i>International Journal for Numerical Methods in Engineering</i> , <b>1993</b> , 36, 43-66	2.4	290
300	Gradient-enhanced damage modelling of concrete fracture. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>1998</b> , 3, 323-342		278
299	A phase-field model for cohesive fracture. <i>International Journal for Numerical Methods in Engineering</i> , <b>2013</b> , 96, 43-62	2.4	234
298	A cohesive segments method for the simulation of crack growth. <i>Computational Mechanics</i> , <b>2003</b> , 31, 69-77	4	229
297	Non-orthogonal cracks in a smeared finite element model. <i>Engineering Computations</i> , <b>1985</b> , 2, 35-46	1.4	228
296	Numerical aspects of cohesive-zone models. <i>Engineering Fracture Mechanics</i> , <b>2003</b> , 70, 1743-1757	4.2	217
295	<b>2012</b> ,		213
294	Viscoplasticity for instabilities due to strain softening and strain-rate softening. <i>International Journal for Numerical Methods in Engineering</i> , <b>1997</b> , 40, 3839-3864	2.4	206
293	Strain-based transient-gradient damage model for failure analyses. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1998</b> , 160, 133-153	5.7	201
292	Computation of post-bifurcation and post-failure behavior of strain-softening solids. <i>Computers and Structures</i> , <b>1987</b> , 25, 211-224	4.5	201
291	Localisation in a Cosserat continuum under static and dynamic loading conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1991</b> , 90, 805-827	5.7	190
290	SOME NOVEL DEVELOPMENTS IN FINITE ELEMENT PROCEDURES FOR GRADIENT-DEPENDENT PLASTICITY. <i>International Journal for Numerical Methods in Engineering</i> , <b>1996</b> , 39, 2477-2505	2.4	167

289	The simulation of dynamic crack propagation using the cohesive segments method. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 70-92	5	162
288	A plane stress softening plasticity model for orthotropic materials. <i>International Journal for Numerical Methods in Engineering</i> , <b>1997</b> , 40, 4033-4057	2.4	159
287	A generalisation of J2-flow theory for polar continua. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1993</b> , 103, 347-362	5.7	159
286	A composite plasticity model for concrete. <i>International Journal of Solids and Structures</i> , <b>1996</b> , 33, 707-730	3.1	153
285	Possibilities and limitations of finite elements for limit analysis. <i>Geotechnique</i> , <b>1984</b> , 34, 199-210	3.4	152
284	Gradient damage vs phase-field approaches for fracture: Similarities and differences. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2016</b> , 312, 78-94	5.7	150
283	A non-linear finite element approach for the analysis of mode-I free edge delamination in composites. <i>International Journal of Solids and Structures</i> , <b>1993</b> , 30, 1239-1253	3.1	150
282	Fracture in quasi-brittle materials: a review of continuum damage-based approaches. <i>Engineering Fracture Mechanics</i> , <b>2002</b> , 69, 95-112	4.2	145
281	Discrete vs smeared crack models for concrete fracture: bridging the gap. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2004</b> , 28, 583-607	4	144
280	A two-scale approach for fluid flow in fractured porous media. <i>International Journal for Numerical Methods in Engineering</i> , <b>2006</b> , 71, 780-800	2.4	143
279	Some recent issues in computational failure mechanics. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 52, 63-95	2.4	143
278	An isogeometric analysis approach to gradient damage models. <i>International Journal for Numerical Methods in Engineering</i> , <b>2011</b> , 86, 115-134	2.4	140
277	Comparison of wave propagation characteristics of the Cosserat continuum model and corresponding discrete lattice models. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 1563-1583 <sup>3.1</sup>	3.1	132
276	An isogeometric approach to cohesive zone modeling. <i>International Journal for Numerical Methods in Engineering</i> , <b>2011</b> , 87, 336-360	2.4	130
275	A monolithic approach to fluid-structure interaction. <i>Computers and Fluids</i> , <b>2004</b> , 33, 839-848	2.8	129
274	On coupled gradient-dependent plasticity and damage theories with a view to localization analysis. <i>European Journal of Mechanics, A/Solids</i> , <b>1999</b> , 18, 939-962	3.7	129
273	Analysis of Mixed-Mode Fracture in Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1987</b> , 113, 1739-1758	2.8	128
272	Mesh-independent discrete numerical representations of cohesive-zone models. <i>Engineering Fracture Mechanics</i> , <b>2006</b> , 73, 160-177	4.2	124

271	Phase-field models for brittle and cohesive fracture. <i>Meccanica</i> , <b>2014</b> , 49, 2587-2601	2.1	123
270	A consistent geometrically non-linear approach for delamination. <i>International Journal for Numerical Methods in Engineering</i> , <b>2002</b> , 54, 1333-1355	2.4	122
269	Wave propagation, localization and dispersion in a gradient-dependent medium. <i>International Journal of Solids and Structures</i> , <b>1993</b> , 30, 1153-1171	3.1	122
268	Wave propagation and localization in a rate-dependent cracked medium—model formulation and one-dimensional examples. <i>International Journal of Solids and Structures</i> , <b>1992</b> , 29, 2945-2958	3.1	119
267	A two-scale model for fluid flow in an unsaturated porous medium with cohesive cracks. <i>Computational Mechanics</i> , <b>2008</b> , 42, 227-238	4	111
266	A numerical model for the cyclic deterioration of railway tracks. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 57, 441-470	2.4	108
265	Gradient-enhanced damage modelling of high-cycle fatigue. <i>International Journal for Numerical Methods in Engineering</i> , <b>2000</b> , 49, 1547-1569	2.4	105
264	Computational homogenization for adhesive and cohesive failure in quasi-brittle solids. <i>International Journal for Numerical Methods in Engineering</i> , <b>2010</b> , 83, 1155-1179	2.4	104
263	On gradient-enhanced damage and plasticity models for failure in quasi-brittle and frictional materials. <i>Computational Mechanics</i> , <b>1995</b> , 17, 130-141	4	102
262	An anisotropic gradient damage model for quasi-brittle materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 183, 87-103	5.7	98
261	Studies in anisotropic plasticity with reference to the Hill criterion. <i>International Journal for Numerical Methods in Engineering</i> , <b>1990</b> , 29, 315-336	2.4	98
260	A Numerical Approach for Arbitrary Cracks in a Fluid-Saturated Medium. <i>Archive of Applied Mechanics</i> , <b>2006</b> , 75, 595-606	2.2	93
259	Localisation issues in local and nonlocal continuum approaches to fracture. <i>European Journal of Mechanics, A/Solids</i> , <b>2002</b> , 21, 175-189	3.7	92
258	A numerical assessment of phase-field models for brittle and cohesive fracture: $\Gamma$ -Convergence and stress oscillations. <i>European Journal of Mechanics, A/Solids</i> , <b>2015</b> , 52, 72-84	3.7	89
257	Micro-mechanical modelling of granular material. Part 1: Derivation of a second-gradient micro-polar constitutive theory. <i>Acta Mechanica</i> , <b>2001</b> , 149, 161-180	2.1	89
256	Smearred cracking, plasticity, creep, and thermal loading—A unified approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1987</b> , 62, 89-110	5.7	89
255	Dispersion analysis and element-free Galerkin solutions of second- and fourth-order gradient-enhanced damage models. <i>International Journal for Numerical Methods in Engineering</i> , <b>2000</b> , 49, 811-832	2.4	88
254	Computing strain fields from discrete displacement fields in 2D-solids. <i>International Journal of Solids and Structures</i> , <b>1996</b> , 33, 4293-4307	3.1	88

253	Simulating the propagation of displacement discontinuities in a regularized strain-softening medium. <i>International Journal for Numerical Methods in Engineering</i> , <b>2002</b> , 53, 1235-1256	2.4	87
252	A comparison between the Perzyna viscoplastic model and the Consistency viscoplastic model. <i>European Journal of Mechanics, A/Solids</i> , <b>2002</b> , 21, 1-12	3.7	87
251	Cohesive-zone models, higher-order continuum theories and reliability methods for computational failure analysis. <i>International Journal for Numerical Methods in Engineering</i> , <b>2004</b> , 60, 289-315	2.4	81
250	Bifurcations in finite element models with a non-associated flow law. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>1988</b> , 12, 99-116	4	77
249	Challenges in computational materials science: Multiple scales, multi-physics and evolving discontinuities. <i>Computational Materials Science</i> , <b>2008</b> , 43, 1-15	3.2	75
248	On the Nonnormality of Subiteration for a Fluid-Structure-Interaction Problem. <i>SIAM Journal of Scientific Computing</i> , <b>2005</b> , 27, 599-621	2.6	75
247	An interface Newton-Krylov solver for fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , <b>2005</b> , 47, 1189-1195	1.9	75
246	Computational modelling of delamination. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 713-722	8.6	74
245	Delamination buckling of fibre-metal laminates. <i>Composites Science and Technology</i> , <b>2001</b> , 61, 2207-2213	8.6	74
244	Finite-Element Modeling of Deformation and Cracking in Early-Age Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1994</b> , 120, 2519-2534	2.4	74
243	A solid-like shell element allowing for arbitrary delaminations. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 58, 2013-2040	2.4	73
242	Damage and crack modeling in single-edge and double-edge notched concrete beams. <i>Engineering Fracture Mechanics</i> , <b>2000</b> , 65, 247-261	4.2	71
241	An arbitrary Lagrangian Eulerian finite-element approach for fluid-structure interaction phenomena. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 57, 117-142	2.4	70
240	Free edge delamination in carbon-epoxy laminates: a novel numerical/experimental approach. <i>Composite Structures</i> , <b>1994</b> , 28, 357-373	5.3	68
239	An isogeometric continuum shell element for non-linear analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2014</b> , 271, 1-22	5.7	66
238	Image-based goal-oriented adaptive isogeometric analysis with application to the micro-mechanical modeling of trabecular bone. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 284, 138-164	5.7	63
237	An isogeometric solid-like shell element for nonlinear analysis. <i>International Journal for Numerical Methods in Engineering</i> , <b>2013</b> , 95, 238-256	2.4	63
236	Classification of smeared crack models based on material and structural properties. <i>International Journal of Solids and Structures</i> , <b>1998</b> , 35, 1289-1308	3.1	62

235	A plasticity model and algorithm for mode-I cracking in concrete. <i>International Journal for Numerical Methods in Engineering</i> , <b>1995</b> , 38, 2509-2529	2.4	61
234	Two gradient plasticity theories discretized with the element-free Galerkin method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2003</b> , 192, 2377-2403	5.7	57
233	Mixed mode fracture in plain and reinforced concrete: some results on benchmark tests. <i>International Journal of Fracture</i> , <b>2000</b> , 103, 127-148	2.3	55
232	Phase-field modelling of interface failure in brittle materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 346, 25-42	5.7	54
231	Analysis of concrete fracture in Direct Tension. <i>International Journal of Solids and Structures</i> , <b>1989</b> , 25, 1381-1394	3.1	51
230	Numerical homogenization of cracking processes in thin fibre-epoxy layers. <i>European Journal of Mechanics, A/Solids</i> , <b>2010</b> , 29, 119-131	3.7	48
229	The relevance of conservation for stability and accuracy of numerical methods for fluid-structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2003</b> , 192, 4195-4215	5.7	48
228	Numerical assessment of delamination in fibre metal laminates. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 185, 141-159	5.7	46
227	Integration of plasticity equations for singular yield functions. <i>Computers and Structures</i> , <b>1987</b> , 26, 823-829	4.9	46
226	A unified approach to the implicit integration of standard, non-standard and viscous plasticity models. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2002</b> , 26, 1059-1070	4	45
225	A fracture-controlled path-following technique for phase-field modeling of brittle fracture. <i>Finite Elements in Analysis and Design</i> , <b>2016</b> , 113, 14-29	2.2	44
224	A convergence study of phase-field models for brittle fracture. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 184, 307-318	4.2	44
223	Some recent developments in computational modelling of concrete fracture. <i>International Journal of Fracture</i> , <b>1997</b> , 86, 5-36	2.3	43
222	Constitutive Model for Reinforced Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1995</b> , 121, 587-595	2.4	43
221	AN EULEREAN FINITE ELEMENT MODEL FOR PENETRATION IN LAYERED SOIL. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>1996</b> , 20, 865-886	4	43
220	A unified framework for concrete damage and fracture models including size effects. <i>International Journal of Fracture</i> , <b>1999</b> , 95, 261-277	2.3	42
219	The use of the Hoffman yield criterion in finite element analysis of anisotropic composites. <i>Computers and Structures</i> , <b>1990</b> , 37, 1087-1096	4.5	42
218	The zero-normal-stress condition in plane-stress and shell elastoplasticity. <i>Communications in Applied Numerical Methods</i> , <b>1991</b> , 7, 29-33		41

217	Dispersive properties of gradient-dependent and rate-dependent media. <i>Mechanics of Materials</i> , <b>1994</b> , 18, 131-149	3.3	40
216	Isogeometric analysis of the Cahn-Hilliard equation: a convergence study. <i>Journal of Computational Physics</i> , <b>2016</b> , 305, 360-371	4.1	39
215	Micro-mechanical modelling of granular material. Part 2: Plane wave propagation in infinite media. <i>Acta Mechanica</i> , <b>2001</b> , 149, 181-200	2.1	39
214	Phenomenological nonlocal approaches based on implicit gradient-enhanced damage. <i>Acta Mechanica</i> , <b>2000</b> , 144, 1-15	2.1	39
213	Mixed numerical-experimental identification of non-local characteristics of random-fibre-reinforced composites. <i>Composites Science and Technology</i> , <b>1999</b> , 59, 1569-1578	8.6	38
212	Analysis of concrete structures under thermal loading. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1989</b> , 77, 293-310	5.7	38
211	Goal-oriented error estimation and adaptivity for fluid-structure interaction using exact linearized adjoints. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2011</b> , 200, 2738-2757	5.7	36
210	A new arc-length control method based on the rates of the internal and the dissipated energy. <i>Engineering Computations</i> , <b>2016</b> , 33, 100-115	1.4	35
209	An isogeometric analysis Bzier interface element for mechanical and poromechanical fracture problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2014</b> , 97, 608-628	2.4	35
208	A discrete model for the dynamic propagation of shear bands in a fluid-saturated medium. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2007</b> , 31, 347-370	4	35
207	Conditions for locking-free elasto-plastic analyses in the Element-Free Galerkin method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1999</b> , 173, 99-109	5.7	35
206	A large deformation formulation for fluid flow in a progressively fracturing porous material. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2013</b> , 256, 29-37	5.7	34
205	Numerical Study on Crack Dilatancy Part I: Models and Stability Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1991</b> , 117, 733-753	2.4	34
204	Isogeometric finite element analysis of poroelasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2013</b> , 37, 1891-1907	4	33
203	Energy conservation of atomistic/continuum coupling. <i>International Journal for Numerical Methods in Engineering</i> , <b>2009</b> , 78, 1365-1386	2.4	33
202	Failure in plain and reinforced concrete: an analysis of crack width and crack spacing. <i>International Journal of Solids and Structures</i> , <b>1996</b> , 33, 3257-3276	3.1	33
201	Analysis of fracture and delamination in laminates using 3D numerical modelling. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 761-780	4.2	32
200	Transverse Failure Behavior of Fiber-epoxy Systems. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 1493-1516	6.7	30

- 199 A numerical model for the time-dependent cracking of cementitious materials. *International Journal for Numerical Methods in Engineering*, **2001**, 52, 637-654 2.4 30
- 198 Space/time multigrid for a fluid-structure-interaction problem. *Applied Numerical Mathematics*, **2008**, 58, 1951-1971 2.5 29
- 197 Some observations on embedded discontinuity models. *Engineering Computations*, **2001**, 18, 241-254 1.4 29
- 196 Occurrence of spurious mechanisms in computations of strain-softening solids. *Engineering Computations*, **1989**, 6, 272-280 1.4 29
- 195 Fluid flow in fractured and fracturing porous media: A unified view. *Mechanics Research Communications*, **2017**, 80, 47-57 2.2 28
- 194 Propagation of delamination in composite materials with isogeometric continuum shell elements. *International Journal for Numerical Methods in Engineering*, **2015**, 102, 159-179 2.4 28
- 193 A finite-element/boundary-element method for large-displacement fluid-structure interaction. *Computational Mechanics*, **2012**, 50, 779-788 4 28
- 192 Wave propagation and localisation in a softening two-phase medium. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 5011-5019 5.7 27
- 191 A reappraisal of nonlocal mechanics. *European Journal of Mechanics, A/Solids*, **1999**, 18, 17-46 3.7 27
- 190 Numerical analysis of localization using a viscoplastic regularization: influence of stochastic material defects. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 1823-1841 2.4 27
- 189 Stochastic approaches for damage evolution in standard and non-standard continua. *International Journal of Solids and Structures*, **1995**, 32, 1149-1160 3.1 27
- 188 On the numerical integration of isogeometric interface elements. *International Journal for Numerical Methods in Engineering*, **2015**, 102, 1733-1749 2.4 26
- 187 The cohesive band model: a cohesive surface formulation with stress triaxiality. *International Journal of Fracture*, **2013**, 181, 177-188 2.3 26
- 186 Error-amplification analysis of subiteration-preconditioned GMRES for fluid-structure interaction. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 2124-2148 5.7 26
- 185 Implicit integration of a generalized plasticity constitutive model for partially saturated soil. *Engineering Computations*, **2001**, 18, 314-336 1.4 26
- 184 On the behaviour of rubberlike materials in compression and shear. *Archive of Applied Mechanics*, **1994**, 64, 136-146 2.2 26
- 183 Critical behaviour of a Timoshenko beam-half plane system under a moving load. *Archive of Applied Mechanics*, **1998**, 68, 158-168 2.2 25
- 182 Adaptive hierarchical refinement of NURBS in cohesive fracture analysis. *International Journal for Numerical Methods in Engineering*, **2017**, 112, 2151-2173 2.4 25



181	DYNAMIC BEHAVIOUR OF A LAYER OF DISCRETE PARTICLES, PART 1: ANALYSIS OF BODY WAVES AND EIGENMODES. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 240, 1-18	3.9	24
180	Numerical modelling of bifurcation and localisation in cohesive-frictional materials. <i>Pure and Applied Geophysics</i> , <b>1991</b> , 137, 367-390	2.2	24
179	Simulation of crack spacing using a reinforced concrete model with an internal length parameter. <i>Archive of Applied Mechanics</i> , <b>1998</b> , 68, 613-625	2.2	23
178	Deterministic and stochastic analysis of size effects and damage evolution in quasi-brittle materials. <i>Archive of Applied Mechanics</i> , <b>1999</b> , 69, 655-676	2.2	23
177	Surface waves in a stratified half space with enhanced continuum properties. Part 1: Formulation of the boundary value problem. <i>European Journal of Mechanics, A/Solids</i> , <b>1999</b> , 18, 749-768	3.7	22
176	Finite element procedure for modelling fibre metal laminates. <i>Composite Structures</i> , <b>1995</b> , 32, 255-264	5.3	22
175	Isogeometric analysis of fluid-saturated porous media including flow in the cracks. <i>International Journal for Numerical Methods in Engineering</i> , <b>2016</b> , 108, 990-1006	2.4	22
174	Enhanced continua and discrete lattices for modelling granular assemblies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2005</b> , 363, 2543-80	3	21
173	Some observations on element performance in isochoric and dilatant plastic flow. <i>International Journal for Numerical Methods in Engineering</i> , <b>1995</b> , 38, 2887-2906	2.4	21
172	Powell-Babin B-splines and unstructured standard T-splines for the solution of the Kirchhoff Love plate theory exploiting Bzier extraction. <i>International Journal for Numerical Methods in Engineering</i> , <b>2016</b> , 107, 205-233	2.4	20
171	A coupled molecular dynamics and extended finite element method for dynamic crack propagation. <i>International Journal for Numerical Methods in Engineering</i> , <b>2010</b> , 81, 72-88	2.4	20
170	Instability analysis of vibrations of a uniformly moving mass in one and two-dimensional elastic systems. <i>European Journal of Mechanics, A/Solids</i> , <b>2002</b> , 21, 151-165	3.7	20
169	Object-oriented stochastic finite element analysis of fibre metal laminates. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2005</b> , 194, 1427-1446	5.7	20
168	Delamination behavior of spliced Fiber Metal Laminates. Part 2. Numerical investigation. <i>Composite Structures</i> , <b>1999</b> , 46, 147-162	5.3	20
167	The Benefits of Using a Consistent Tangent Operator for Viscoelastoplastic Computations in Geodynamics. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 4904-4924	3.6	20
166	Phase-field modeling of crack branching and deflection in heterogeneous media. <i>Engineering Fracture Mechanics</i> , <b>2020</b> , 232, 107004	4.2	19
165	The role of crack rate dependence in the long-term behaviour of cementitious materials. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 5063-5079	3.1	19
164	Energy conservation under incompatibility for fluid-structure interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2003</b> , 192, 2727-2748	5.7	18

163	Locally Refined T-splines. <i>International Journal for Numerical Methods in Engineering</i> , <b>2018</b> , 114, 637-659	2.4	17
162	Discrete fracture analysis using locally refined T-splines. <i>International Journal for Numerical Methods in Engineering</i> , <b>2018</b> , 116, 117-140	2.4	17
161	The role of the B $\zeta$ ier extraction operator for T-splines of arbitrary degree: linear dependencies, partition of unity property, nesting behaviour and local refinement. <i>International Journal for Numerical Methods in Engineering</i> , <b>2015</b> , 103, 547-581	2.4	17
160	Goal-Oriented Error Estimation and Adaptivity for Free-Boundary Problems: The Shape-Linearization Approach. <i>SIAM Journal of Scientific Computing</i> , <b>2010</b> , 32, 1093-1118	2.6	17
159	DYNAMIC BEHAVIOUR OF A LAYER OF DISCRETE PARTICLES, PART 2: RESPONSE TO A UNIFORMLY MOVING, HARMONICALLY VIBRATING LOAD. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 240, 19-39	3.9	17
158	The application of interface elements and enriched or rate-dependent continua to micro-mechanical analyses of fracture in composites. <i>Computational Mechanics</i> , <b>1994</b> , 14, 68-83	4	17
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