

Eugenio Oate Ibaez de Navarra

List of Publications by Year in Descending Order

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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.

391
papers

13,512
citations

55
h-index

102
g-index

424
ext. papers

15,138
ext. citations

3.4
avg, IF

6.69
L-index

#	Paper	IF	Citations
391	Combination of the finite element method and particle-based methods for predicting the failure of reinforced concrete structures under extreme water forces. <i>Engineering Structures</i> , 2022 , 251, 113510	4.7	0
390	A FIC-FEM procedure for the shallow water equations over partially wet domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 389, 114362	5.7	0
389	Adaptive breakwaters with inflatable elements for coastal protection. Preliminary numerical estimation of their performance. <i>Ocean Engineering</i> , 2022 , 251, 110818	3.9	
388	A nodal-integration based particle finite element method (N-PFEM) to model cliff recession. <i>Geomorphology</i> , 2021 , 381, 107666	4.3	3
387	Numerical Simulation of Flame Retardant Polymers Using a Combined Eulerian-Lagrangian Finite Element Formulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5952	2.6	0
386	Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent fire-retardant coating. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51206	2.9	2
385	The Pseudo-Direct Numerical Simulation method for multi-scale problems in mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 380, 113774	5.7	3
384	Methodological-Technological Framework for Construction 4.0. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 689-711	7.8	28
383	Mathematical Optimization Problems for Particle Finite Element Analysis Applied to 2D Landslide Modeling. <i>Mathematical Geosciences</i> , 2021 , 53, 81-103	2.5	5
382	Accurate Timoshenko Beam Elements For Linear Elastostatics and LPB Stability. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 2021-2080	7.8	0
381	Numerical prediction of the distribution of black carbon in a street canyon using a semi-Lagrangian finite element formulation. <i>Building and Environment</i> , 2021 , 199, 107910	6.5	0
380	A fully Lagrangian formulation for fluid-structure interaction problems with free-surface flows and fracturing solids. <i>Computers and Structures</i> , 2021 , 250, 106532	4.5	2
379	Semi-Lagrangian formulation for the advection-diffusion-absorption equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 380, 113807	5.7	5
378	An embedded Finite Element framework for the resolution of strongly coupled Fluid-Structure Interaction problems. Application to volumetric and membrane-like structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 368, 113179	5.7	6
377	Modelling 3D metal cutting problems with the particle finite element method. <i>Computational Mechanics</i> , 2020 , 66, 603-624	4	4
376	A Lagrangian nodal integration method for free-surface fluid flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 361, 112816	5.7	10
375	Development of New Lagrangian Computational Methods for Ice-Ship Interaction Problems: NICESHIP Project. <i>Computational Methods in Applied Sciences (Springer)</i> , 2020 , 121-153	0.4	

374	Combination of an adaptive remeshing technique with a coupled FEMDEM approach for analysis of crack propagation problems. <i>Computational Particle Mechanics</i> , 2020 , 7, 735-752	3	3
373	3D simulation of Vajont disaster. Part 1: Numerical formulation and validation. <i>Engineering Geology</i> , 2020 , 279, 105854	6	5
372	3D simulation of Vajont disaster. Part 2: Multi-failure scenarios. <i>Engineering Geology</i> , 2020 , 279, 105856	6	3
371	Detailed simulation of viral propagation in the built environment. <i>Computational Mechanics</i> , 2020 , 66, 1-15	4	15
370	A State of the Art Review of the Particle Finite Element Method (PFEM). <i>Archives of Computational Methods in Engineering</i> , 2020 , 27, 1709-1735	7.8	27
369	PFEMDEM for particle-laden flows with free surface. <i>Computational Particle Mechanics</i> , 2020 , 7, 101-120	3	3
368	Shockwaves in spillways with the particle finite element method. <i>Computational Particle Mechanics</i> , 2020 , 7, 87-99	3	3
367	An accurate nonlocal bonded discrete element method for nonlinear analysis of solids: application to concrete fracture tests. <i>Computational Particle Mechanics</i> , 2020 , 7, 543-553	3	4
366	FICDEM formulation for the multidimensional transient advection-diffusion-absorption equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 365, 112984	5.7	3
365	An investigation on thermal performance of wollastonite and bentonite reinforced intumescent fire-retardant coating for steel structures. <i>Construction and Building Materials</i> , 2019 , 228, 116734	6.7	23
364	Effect of the integration scheme on the rotation of non-spherical particles with the discrete element method. <i>Computational Particle Mechanics</i> , 2019 , 6, 545-559	3	6
363	A bonded discrete element method for modeling ship-ice interactions in broken and unbroken sea ice fields. <i>Computational Particle Mechanics</i> , 2019 , 6, 739-765	3	15
362	Efficient aeroelastic analysis of inflatable structures using enhanced potential flow aerodynamics. <i>Journal of Fluids and Structures</i> , 2019 , 90, 230-245	3.1	2
361	Cool Steam Method for Desalinating Seawater. <i>Water (Switzerland)</i> , 2019 , 11, 2385	3	1
360	An implicit unsteady hydraulic solver for suspended cuttings transport in managed pressure wells. <i>Computational Particle Mechanics</i> , 2019 , 6, 163-175	3	
359	A unified Lagrangian formulation for solid and fluid dynamics and its possibility for modelling submarine landslides and their consequences. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 343, 314-338	5.7	34
358	Advances in particle packing algorithms for generating the medium in the Discrete Element Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 345, 336-362	5.7	9
357	A stabilized mixed implicit Material Point Method for non-linear incompressible solid mechanics. <i>Computational Mechanics</i> , 2019 , 63, 1243-1260	4	11

356	Modeling polycrystalline materials with elongated grains. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 118, 121-131	2.4	1
355	Triangular prismatic solid-shell element with generalised deformation description. <i>European Journal of Computational Mechanics</i> , 2018 , 27, 1-32	0.5	
354	A three-dimensional FEMDEM technique for predicting the evolution of fracture in geomaterials and concrete. <i>Computational Particle Mechanics</i> , 2018 , 5, 411-420	3	10
353	Real-time micro-modelling of city evacuations. <i>Computational Particle Mechanics</i> , 2018 , 5, 71-86	3	3
352	Virtual modeling of polycrystalline structures of materials using particle packing algorithms and Laguerre cells. <i>Computational Particle Mechanics</i> , 2018 , 5, 213-226	3	2
351	Systemic characterization and evaluation of particle packings as initial sets for discrete element simulations. <i>Computational Particle Mechanics</i> , 2018 , 5, 319-334	3	2
350	Variational Framework for FIC Formulations in Continuum Mechanics: High Order Tensor-Derivative Transformations and Invariants. <i>Archives of Computational Methods in Engineering</i> , 2018 , 25, 919-963	7.8	0
349	Approximating the Basset force by optimizing the method of van Hinsberg et al.. <i>Journal of Computational Physics</i> , 2018 , 352, 142-171	4.1	4
348	Advances in the DEM and Coupled DEM and FEM Techniques in Non Linear Solid Mechanics. <i>Computational Methods in Applied Sciences (Springer)</i> , 2018 , 309-335	0.4	2
347	Pulse fracture simulation in shale rock reservoirs: DEM and FEMDEM approaches. <i>Computational Particle Mechanics</i> , 2018 , 5, 355-373	3	7
346	Dynamic modelling of retrogressive landslides with emphasis on the role of clay sensitivity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018 , 42, 1806-1822	4	28
345	Applying Multi-objective Robust Design Optimization Procedure to the Route Planning of a Commercial Aircraft. <i>Computational Methods in Applied Sciences (Springer)</i> , 2018 , 147-167	0.4	
344	Finite element modelling of fracture propagation in saturated media using quasi-zero-thickness interface elements. <i>Computers and Geotechnics</i> , 2018 , 96, 103-117	4.4	3
343	General advancing front packing algorithm for the discrete element method. <i>Computational Particle Mechanics</i> , 2018 , 5, 13-33	3	5
342	A coupled fluid FEM-DEM technique for predicting blasting operations in tunnels. <i>Underground Space (China)</i> , 2018 , 3, 310-316	3.7	7
341	A Finite Element Model for the Simulation of the UL-94 Burning Test. <i>Fire Technology</i> , 2018 , 54, 1783-1805		10
340	Data-Based Models for the Prediction of Dam Behaviour: A Review and Some Methodological Considerations. <i>Archives of Computational Methods in Engineering</i> , 2017 , 24, 1-21	7.8	129
339	Air demand estimation in bottom outlets with the particle finite element method. <i>Computational Particle Mechanics</i> , 2017 , 4, 345-356	3	8

338	A modular, partitioned, discrete element framework for industrial grain distribution systems with rotating machinery. <i>Computational Particle Mechanics</i> , 2017 , 4, 181-198	3	11
337	A FIC-based stabilized mixed finite element method with equal order interpolation for solid-pore fluid interaction problems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017 , 41, 110-134	4	12
336	A hierarchical finite element for composite laminated beams using a refined zigzag theory. <i>Composite Structures</i> , 2017 , 163, 168-184	5-3	29
335	Numerical modelling of granular materials with spherical discrete particles and the bounded rolling friction model. Application to railway ballast. <i>Computers and Geotechnics</i> , 2017 , 85, 220-229	4-4	46
334	Early detection of anomalies in dam performance: A methodology based on boosted regression trees. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e2012	4-5	41
333	An Implicit Material Point Method Applied to Granular Flows. <i>Procedia Engineering</i> , 2017 , 175, 226-232		6
332	A-posteriori error estimation for the finite point method with applications to compressible flow. <i>Computational Mechanics</i> , 2017 , 60, 219-233	4	3
331	A new formulation for air-blast fluid-structure interaction using an immersed approach. Part I: basic methodology and FEM-based simulations. <i>Computational Mechanics</i> , 2017 , 60, 83-100	4	18
330	Fast fluid-structure interaction simulations using a displacement-based finite element model equipped with an explicit streamline integration prediction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 315, 1080-1097	5-7	18
329	Ship Hydrodynamics 2017 , 1-46		
328	A finite element model for fluid-structure interaction problems involving closed membranes, internal and external fluids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 326, 422-445	5-7	10
327	Accurate FIC-FEM formulation for the multidimensional steady-state advection-diffusion-absorption equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 327, 352-368	5-7	6
326	Accurate modelling of the elastic behavior of a continuum with the Discrete Element Method. <i>Computational Mechanics</i> , 2017 , 60, 997-1010	4	26
325	PFEM formulation for thermo-coupled FSI analysis. Application to nuclear core melt accident. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 325, 711-732	5-7	4
324	A FIC-based stabilized finite element formulation for turbulent flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 315, 607-631	5-7	3
323	Discrete/Finite Element Modelling of Rock Cutting with a TBM Disc Cutter. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 621-638	5-7	53
322	Numerical modelling of landslide-generated waves with the particle finite element method (PFEM) and a non-Newtonian flow model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016 , 40, 809-826	4	55
321	A FEM-DEM technique for studying the motion of particles in non-Newtonian fluids. Application to the transport of drill cuttings in wellbores. <i>Computational Particle Mechanics</i> , 2016 , 3, 263-276	3	12

320	The Double Hierarchy Method. A parallel 3D contact method for the interaction of spherical particles with rigid FE boundaries using the DEM. <i>Computational Particle Mechanics</i> , 2016 , 3, 407-428	3	13
319	Combination of a non-local damage model for quasi-brittle materials with a mesh-adaptive finite element technique. <i>Finite Elements in Analysis and Design</i> , 2016 , 112, 26-39	2.2	14
318	Application of an enhanced discrete element method to oil and gas drilling processes. <i>Computational Particle Mechanics</i> , 2016 , 3, 29-41	3	4
317	An accurate FIC-FEM formulation for the 1D advection-diffusion-reaction equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 298, 373-406	5.7	10
316	Unified Lagrangian formulation for solid and fluid mechanics and FSI problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 298, 520-547	5.7	45
315	Velocity-based formulations for standard and quasi-incompressible hypoelastic-plastic solids. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 107, 970-990	2.4	8
314	Advanced solid elements for sheet metal forming simulation. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032128	0.3	
313	A Triaxial Failure Diagram to predict the forming limit of 3D sheet metal parts subjected to multiaxial stresses. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032020	0.3	3
312	Surface tension problems solved with the particle finite element method using large time-steps. <i>Computers and Fluids</i> , 2016 , 141, 90-104	2.8	9
311	Interpretation of dam deformation and leakage with boosted regression trees. <i>Engineering Structures</i> , 2016 , 119, 230-251	4.7	61
310	Lagrangian finite element model for the 3D simulation of glass forming processes. <i>Computers and Structures</i> , 2016 , 177, 126-140	4.5	9
309	A unified monolithic approach for multi-fluid flows and fluid-structure interaction using the Particle Finite Element Method with fixed mesh. <i>Computational Mechanics</i> , 2015 , 55, 1091-1104	4	33
308	An empirical comparison of machine learning techniques for dam behaviour modelling. <i>Structural Safety</i> , 2015 , 56, 9-17	4.9	101
307	Two-noded zigzag beam element accounting for shear effects based on an extended Euler Bernoulli theory. <i>Composite Structures</i> , 2015 , 132, 1192-1205	5.3	4
306	A FEM fluid-structure interaction algorithm for analysis of the seal dynamics of a Surface-Effect Ship. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 295, 290-304	5.7	9
305	Lagrangian versus Eulerian integration errors. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 293, 191-206	5.7	16
304	A locally extended finite element method for the simulation of multi-fluid flows using the Particle Level Set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 294, 1-18	5.7	13
303	A semi-analytical model for droplet dynamics on the GDL surface of a PEFC electrode. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5375-5383	6.7	12

302	Adjoint-based adaptive finite element method for the compressible Euler equations using finite calculus. <i>Aerospace Science and Technology</i> , 2015 , 46, 422-435	4.9	7
301	A simple FEMDEM technique for fracture prediction in materials and structures. <i>Computational Particle Mechanics</i> , 2015 , 2, 301-314	3	17
300	A local constitutive model for the discrete element method. Application to geomaterials and concrete. <i>Computational Particle Mechanics</i> , 2015 , 2, 139-160	3	53
299	Modelling the vertical UL 94 test: competition and collaboration between melt dripping, gasification and combustion. <i>Fire and Materials</i> , 2015 , 39, 570-584	1.8	44
298	Numerical and Experimental Study of Overtopping and Failure of Rockfill Dams. <i>International Journal of Geomechanics</i> , 2015 , 15, 04014060	3.1	32
297	On the effect of the bulk tangent matrix in partitioned solution schemes for nearly incompressible fluids. <i>International Journal for Numerical Methods in Engineering</i> , 2015 , 102, 257-277	2.4	17
296	An implicit stabilized finite element method for the compressible Navier-Stokes equations using finite calculus. <i>Computational Mechanics</i> , 2015 , 56, 113-129	4	4
295	Validation of numerical flow simulations against in vitro phantom measurements in different type B aortic dissection scenarios. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 805-15	2.1	17
294	2D particle contact-based meshfree method in CDEM and its application in geotechnical problems. <i>Engineering Computations</i> , 2015 , 32, 1080-1103	1.4	3
293	Finite Element Modeling of Free Surface Flow in Variable Porosity Media. <i>Archives of Computational Methods in Engineering</i> , 2015 , 22, 637-653	7.8	15
292	CFD analysis of flow pattern in labyrinth weirs 2015 , 287-294		2
291	Comparative accuracy and performance assessment of the finite point method in compressible flow problems. <i>Computers and Fluids</i> , 2014 , 89, 53-65	2.8	7
290	A reduced-order model based on the coupled 1D-3D finite element simulations for an efficient analysis of hemodynamics problems. <i>Computational Mechanics</i> , 2014 , 54, 1013-1022	4	7
289	Analysis of Segmentally Constructed Prestressed Concrete Bridges Using Hexahedral Elements with Realistic Tendon Profiles. <i>Journal of Structural Engineering</i> , 2014 , 140, 04014028	3	4
288	A particle finite element method for analysis of industrial forming processes. <i>Computational Mechanics</i> , 2014 , 54, 85-107	4	34
287	Analysis of multifluid flows with large time steps using the particle finite element method. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 75, 621-644	1.9	36
286	Lagrangian analysis of multiscale particulate flows with the particle finite element method. <i>Computational Particle Mechanics</i> , 2014 , 1, 85-102	3	43
285	Formulaci3n de elementos finitos para vigas de secci3n abierta formadas por laminados compuestos incluyendo las deformaciones tangenciales por cortante y torsi3n. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2014 , 30, 238-246	1.8	2

284	Geometry optimization of the diffuser for the supersonic wind tunnel using genetic algorithm and adaptive mesh refinement technique. <i>Aerospace Science and Technology</i> , 2014 , 36, 64-74	4.9	5
283	Lagrangian formulation for finite element analysis of quasi-incompressible fluids with reduced mass losses. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 74, 699-731	1.9	52
282	Application of the finite point method to high-Reynolds number compressible flow problems. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 74, 732-748	1.9	2
281	A stabilized finite element formulation for high-speed inviscid compressible flows using finite calculus. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 74, 872-897	1.9	5
280	A two-step monolithic method for the efficient simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 74, 919-934	1.9	16
279	Updated lagrangian mixed finite element formulation for quasi and fully incompressible fluids. <i>Computational Mechanics</i> , 2014 , 54, 1583-1596	4	14
278	Simple and efficient numerical tools for the analysis of parachutes. <i>Engineering Computations</i> , 2014 , 31, 957-985	1.4	3
277	A SHALLOW WATER MODEL BY FINITE POINT METHOD. <i>International Journal of Computational Methods</i> , 2014 , 11, 1350047	1.1	3
276	Delamination in laminated plates using the 4-noded quadrilateral QLRZ plate element based on the refined zigzag theory. <i>Composite Structures</i> , 2014 , 108, 456-471	5.3	23
275	P1/P0+ elements for incompressible flows with discontinuous material properties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 271, 185-209	5.7	10
274	A Particle Finite Element Method (PFEM) for Coupled Thermal Analysis of Quasi and Fully Incompressible Flows and Fluid-Structure Interaction Problems. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 129-156	0.4	7
273	An efficient edge-based level set finite element method for free surface flow problems. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 71, 687-716	1.9	23
272	Migration of a generic multi-physics framework to HPC environments. <i>Computers and Fluids</i> , 2013 , 80, 301-309	2.8	39
271	A numerical model of delamination in composite laminated beams using the LRZ beam element based on the refined zigzag theory. <i>Composite Structures</i> , 2013 , 104, 270-280	5.3	29
270	A contact algorithm for shell problems via Delaunay-based meshing of the contact domain. <i>Computational Mechanics</i> , 2013 , 52, 1-16	4	7
269	Structural Analysis with the Finite Element Method Linear Statics. <i>Lecture Notes on Numerical Methods in Engineering and Sciences</i> , 2013 ,		42
268	Robust design optimisation of advance hybrid (fiber/metal) composite structures. <i>Composite Structures</i> , 2013 , 99, 181-192	5.3	32
267	Modelling and simulation of the sea-landing of aerial vehicles using the Particle Finite Element Method. <i>Ocean Engineering</i> , 2013 , 66, 92-100	3.9	11

266	Robust active shock control bump design optimisation using hybrid parallel MOGA. <i>Computers and Fluids</i> , 2013 , 80, 214-224	2.8	8
265	Multi-objective aerodynamic shape optimization using MOGA coupled to advanced adaptive mesh refinement. <i>Computers and Fluids</i> , 2013 , 88, 298-312	2.8	5
264	Analysis of the discharge capacity of radial-gated spillways using CFD and ANN [Oliana Dam case study. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013 , 51, 244-252	1.9	8
263	A meshless finite point method for three-dimensional analysis of compressible flow problems involving moving boundaries and adaptivity. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 73, 323-343	1.9	10
262	Modelling of tunnelling processes and rock cutting tool wear with the particle finite element method. <i>Computational Mechanics</i> , 2013 , 52, 607-629	4	49
261	A four-noded quadrilateral element for composite laminated plates/shells using the refined zigzag theory. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 95, 631-660	2.4	29
260	A compressible Lagrangian framework for the simulation of the underwater implosion of large air bubbles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 255, 210-225	5.7	18
259	A COMPRESSIBLE LAGRANGIAN FRAMEWORK FOR MODELING THE FLUID-STRUCTURE INTERACTION IN THE UNDERWATER IMPLOSION OF AN ALUMINUM CYLINDER. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013 , 23, 339-367	3.5	24
258	The Particle Finite Element Method (PFEM). An Effective Numerical Technique for Solving Marine, Naval and Harbour Engineering Problems. <i>Computational Methods in Applied Sciences (Springer)</i> , 2013 , 65-81	0.4	
257	Comparative study of different discrete element models and evaluation of equivalent micromechanical parameters. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1497-1517	3.1	78
256	Optimizaci3n robusta en aplicaciones aeron3uticas con la combinaci3n de c3lculo estoc3stico y algoritmos evolutivos. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2012 , 28, 18-32	1.8	2
255	Sobre la necesidad de controlar el error de discretizaci3n de elementos finitos en optimizaci3n de forma estructural con algoritmos evolutivos. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2012 , 28, 1-11	1.8	3
254	Modelaci3n num3rica de deslizamientos de ladera en embalses mediante el M3todo de Part3culas y Elementos Finitos (PFEM). <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2012 , 28, 112-123	1.8	9
253	A Petrov-Galerkin formulation for the alpha interpolation of FEM and FDM stencils: Applications to the Helmholtz equation. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 89, 1367-1391 ^{2.4}	2.4	2
252	Robust multidisciplinary UAS design optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 433-450	3.6	7
251	Flow behaviour of negatively buoyant jets in immiscible ambient fluid. <i>Experiments in Fluids</i> , 2012 , 52, 261-271	2.5	7
250	A coupled PFEM-Eulerian approach for the solution of porous FSI problems. <i>Computational Mechanics</i> , 2012 , 50, 805-819	4	47
249	Advanced Models for Finite Element Analysis of Composite Materials 2012 , 1		

248	Improving mass conservation in simulation of incompressible flows. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 90, 1435-1451	2.4	40
247	Combined Eulerian-PFEM approach for analysis of polymers in fire situations. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 92, 782-801	2.4	21
246	Numerical simulations of negatively buoyant jets in an immiscible fluid using the Particle Finite Element Method. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 69, 1016-1030	1.9	5
245	An algorithm for the simulation of thermally coupled low speed flow problems. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 1-19	1.9	10
244	Extended rotation-free shell triangles with transverse shear deformation effects. <i>Computational Mechanics</i> , 2012 , 49, 487-503	4	7
243	A high-resolution Petrov-Galerkin method for the convection-diffusion-reaction problem. Part II: A multidimensional extension. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 213-216, 327-352	5.7	15
242	Simple and accurate two-noded beam element for composite laminated beams using a refined zigzag theory. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 213-216, 362-382	5.7	49
241	Large time-step explicit integration method for solving problems with dominant convection. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 217-220, 168-185	5.7	42
240	Multilayered composite structure design optimisation using distributed/parallel multi-objective evolutionary algorithms. <i>Composite Structures</i> , 2012 , 94, 1087-1096	5.3	39
239	Discrete Element Modelling of Rock Cutting. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 247-267	0.4	10
238	Advanced Computational Intelligence System for Inverse Aeronautical Design Optimisation 2011 ,		3
237	The Particle Finite Element Method for Multi-Fluid Flows. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 135-158	0.4	6
236	Advances in the Particle Finite Element Method (PFEM) for Solving Coupled Problems in Engineering. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 1-49	0.4	19
235	Mejora de la soluci3n fuertemente acoplada de problemas FSI mediante una aproximaci3n de la matriz tangente de presi3n. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2011 , 27, 165-179	1.8	3
234	Un elemento de s3lido con una mejora en el comportamiento del corte transversal para el tratamiento de l3minas. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2011 , 27, 258-268	1.8	1
233	Possibilities of the particle finite element method for fluid-boil3r structure interaction problems. <i>Computational Mechanics</i> , 2011 , 48, 307-318	4	126
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