

Paul W Cleary

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.

239
papers

9,147
citations

52
h-index

86
g-index

247
ext. papers

10,130
ext. citations

3.5
avg, IF

6.91
L-index

#	Paper	IF	Citations
239	Elastoplastic frictional collisions with Collisional-SPH. <i>Tribology International</i> , 2022 , 168, 107438	4.9	1
238	A Coupled Biomechanical-Smoothed Particle Hydrodynamics Model for Horse Racing Tracks.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 766748	5.8	2
237	Chromitite layers indicate the existence of large, long-lived, and entirely molten magma chambers.. <i>Scientific Reports</i> , 2022 , 12, 4092	4.9	1
236	Axial pressure distribution, flow behaviour and breakage within a HPGR investigation using DEM. <i>Minerals Engineering</i> , 2021 , 163, 106769	4.9	6
235	A particle-based modelling approach to food processing operations. <i>Food and Bioprocess Processing</i> , 2021 , 127, 14-57	4.9	3
234	A Coupled DEM/SPH Computational Model to Simulate Microstructure Evolution in Ti-6Al-4V Laser Powder Bed Fusion Processes. <i>Metals</i> , 2021 , 11, 858	2.3	7
233	Collisional SPH: A method to model frictional collisions with SPH. <i>Applied Mathematical Modelling</i> , 2021 , 94, 13-35	4.5	2
232	Application of SPH to Single and Multiphase Geophysical, Biophysical and Industrial Fluid Flows. <i>International Journal of Computational Fluid Dynamics</i> , 2021 , 35, 22-78	1.2	6
231	Geometric analysis of cone crusher liner shape: Geometric measures, methods for their calculation and linkage to crusher behaviour. <i>Minerals Engineering</i> , 2021 , 160, 106701	4.9	3
230	Predicting Rebound of Ellipsoidal Granules Using SPH. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 673-691	0.4	0
229	The influence of faceted particle shapes on material dynamics in screw conveying. <i>Chemical Engineering Science</i> , 2021 , 243, 116654	4.4	4
228	From discrete element simulation data to process insights. <i>EPJ Web of Conferences</i> , 2021 , 249, 15001	0.3	
227	Advanced comminution modelling: Part 1 [Crushers. <i>Applied Mathematical Modelling</i> , 2020 , 88, 238-265	4.5	7
226	Dispersion of finite-size particles probing inhomogeneous and anisotropic turbulence. <i>European Journal of Mechanics, B/Fluids</i> , 2020 , 84, 93-109	2.4	1
225	Studying the effects of asymmetry on freestyle swimming using smoothed particle hydrodynamics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 271-284	2.1	9
224	The effect of particle shape on the packed bed effective thermal conductivity based on DEM with polyhedral particles on the GPU. <i>Chemical Engineering Science</i> , 2020 , 219, 115584	4.4	15
223	Dive Mechanic: Bringing 3D virtual experimentation using biomechanical modelling to elite level diving with the Workspace workflow engine. <i>Mathematics and Computers in Simulation</i> , 2020 , 175, 202-217	2.7	2

222	Workspace: A workflow platform for supporting development and deployment of modelling and simulation. <i>Mathematics and Computers in Simulation</i> , 2020 , 175, 25-61	3.3	12
221	Prediction of slurry grinding due to media and coarse rock interactions in a 3D pilot SAG mill using a coupled DEM + SPH model. <i>Minerals Engineering</i> , 2020 , 159, 106614	4.9	4
220	Advanced comminution modelling: Part 2 - Mills. <i>Applied Mathematical Modelling</i> , 2020 , 88, 307-348	4.5	2
219	Using two-way coupled DEM-SPH to model an industrial scale Stirred Media Detritor. <i>Minerals Engineering</i> , 2019 , 137, 259-276	4.9	14
218	Effect of rock shape representation in DEM on flow and energy utilisation in a pilot SAG mill. <i>Computational Particle Mechanics</i> , 2019 , 6, 461-477	3	15
217	Dynamic simulation of flat water kayaking using a coupled biomechanical-smoothed particle hydrodynamics model. <i>Human Movement Science</i> , 2019 , 64, 252-273	2.4	10
216	A coupled discrete droplet and SPH model for predicting spray impingement onto surfaces and into fluid pools. <i>Applied Mathematical Modelling</i> , 2019 , 69, 301-329	4.5	8
215	Effect of geometry and fill level on the transport and mixing behaviour of a co-rotating twin screw extruder. <i>Computational Particle Mechanics</i> , 2019 , 6, 227-247	3	8
214	Effect of particle shape on structure of the charge and nature of energy utilisation in a SAG mill. <i>Minerals Engineering</i> , 2019 , 132, 48-68	4.9	12
213	Effect of operating condition changes on the collisional environment in a SAG mill. <i>Minerals Engineering</i> , 2019 , 132, 297-315	4.9	17
212	Effect of particle cohesion on flow and separation in industrial vibrating screens. <i>Minerals Engineering</i> , 2018 , 119, 191-204	4.9	19
211	Prediction of fluid flow through and jet formation from a high pressure nozzle using Smoothed Particle Hydrodynamics. <i>Chemical Engineering Science</i> , 2018 , 178, 12-26	4.4	9
210	A hierarchical simulation methodology for rotary kilns including granular flow and heat transfer. <i>Minerals Engineering</i> , 2018 , 119, 244-262	4.9	14
209	Forces during front crawl swimming at different stroke rates. <i>Sports Engineering</i> , 2018 , 21, 63-73	1.4	14
208	Accuracy analysis of SPH for flow in a model extruder with a kneading element. <i>Chemical Engineering Science</i> , 2018 , 187, 256-268	4.4	19
207	Development of models relating charge shape and power draw to SAG mill operating parameters and their use in devising mill operating strategies to account for liner wear. <i>Minerals Engineering</i> , 2018 , 117, 42-62	4.9	12
206	Inclusion of incremental damage breakage of particles and slurry rheology into a particle scale multiphase model of a SAG mill. <i>Minerals Engineering</i> , 2018 , 128, 92-105	4.9	10
205	Incremental damage and particle size reduction in a pilot SAG mill: DEM breakage method extension and validation. <i>Minerals Engineering</i> , 2018 , 128, 56-68	4.9	18

204	Investigating mixing and emptying for aqueous liquid content from the stomach using a coupled biomechanical-SPH model. <i>Food and Function</i> , 2018 , 9, 3202-3219	6.1	20
203	Peristaltic transport of a particulate suspension in the small intestine. <i>Applied Mathematical Modelling</i> , 2017 , 44, 143-159	4.5	39
202	Combined DEM and SPH simulation of overflow ball mill discharge and trommel flow. <i>Minerals Engineering</i> , 2017 , 108, 93-108	4.9	24
201	Segregation due to particle shape of a granular mixture in a slowly rotating tumbler. <i>Granular Matter</i> , 2017 , 19, 1	2.6	18
200	On elastic-plastic normal contact force models, with and without adhesion. <i>Powder Technology</i> , 2017 , 315, 339-346	5.2	37
199	Particulate and water mixing in the feed box for a screen. <i>Minerals Engineering</i> , 2017 , 109, 109-125	4.9	4
198	SPH method applied to compression of solid materials for a variety of loading conditions. <i>Applied Mathematical Modelling</i> , 2017 , 44, 72-90	4.5	6
197	Coupled gas-particulate discharge from a bucket elevator. <i>Powder Technology</i> , 2017 , 314, 203-217	5.2	2
196	Modelling of industrial particle and multiphase flows. <i>Powder Technology</i> , 2017 , 314, 232-252	5.2	42
195	Analysis of cone crusher performance with changes in material properties and operating conditions using DEM. <i>Minerals Engineering</i> , 2017 , 100, 49-70	4.9	41
194	Multiscale model for predicting shear zone structure and permeability in deforming rock. <i>Computational Particle Mechanics</i> , 2016 , 3, 179-199	3	11
193	Understanding performance variation of a HICOM [®] mill with operating conditions and media attributes. <i>International Journal of Mineral Processing</i> , 2016 , 155, 13-31		2
192	The effect of particle shape on mixing in a high shear mixer. <i>Computational Particle Mechanics</i> , 2016 , 3, 477-504	3	21
191	Comminution mechanisms, particle shape evolution and collision energy partitioning in tumbling mills. <i>Minerals Engineering</i> , 2016 , 86, 75-95	4.9	42
190	Three-dimensional modelling of coupled flow dynamics, heat transfer and residual stress generation in arc welding processes using the mesh-free SPH method. <i>Journal of Computational Science</i> , 2016 , 16, 200-216	3.4	17
189	A coupled biomechanical-Smoothed Particle Hydrodynamics model for predicting the loading on the body during elite platform diving. <i>Applied Mathematical Modelling</i> , 2016 , 40, 3812-3831	4.5	15
188	Modeling Food Digestion in the Oral Cavity 2016 ,		2
187	The influence of mooring system in rogue wave impact on an offshore platform. <i>Ocean Engineering</i> , 2016 , 115, 168-181	3.9	22

186	Using DEM to understand scale-up for a HICOM mill. <i>Minerals Engineering</i> , 2016 , 92, 86-109	4.9	14
185	Computational prediction of performance for a full scale Isamill: Part 1 [Media motion and energy utilisation in a dry mill. <i>Minerals Engineering</i> , 2015 , 79, 220-238	4.9	24
184	DEM modelling of non-spherical particle breakage and flow in an industrial scale cone crusher. <i>Minerals Engineering</i> , 2015 , 74, 112-122	4.9	75
183	Modelling food digestion 2015 , 255-305		9
182	The relationship between charge shape characteristics and fill level and lifter height for a SAG mill. <i>Minerals Engineering</i> , 2015 , 83, 19-32	4.9	19
181	Non-universal Voronoi cell shapes in amorphous ellipsoid packs. <i>Europhysics Letters</i> , 2015 , 111, 24002	1.6	38
180	Computational prediction of performance for a full scale Isamill: Part 2 [Wet models of charge and slurry transport. <i>Minerals Engineering</i> , 2015 , 79, 239-260	4.9	14
179	How to account for operating condition variability when predicting liner operating life with DEM [A case study. <i>Minerals Engineering</i> , 2015 , 73, 53-68	4.9	15
178	Effect of liner design on performance of a HICOM mill over the predicted liner life cycle. <i>International Journal of Mineral Processing</i> , 2015 , 134, 11-22		9
177	Prediction of coupled particle and fluid flows using DEM and SPH. <i>Minerals Engineering</i> , 2015 , 73, 85-99	4.9	60
176	A scenario-based risk framework for determining consequences of different failure modes of earth dams. <i>Natural Hazards</i> , 2015 , 75, 1489-1530	3	13
175	Novel application of the mesh-free SPH method for modelling thermo-mechanical responses in arc welding. <i>International Journal of Mechanics and Materials in Design</i> , 2015 , 11, 337-355	2.5	7
174	How arterial pressures affect the consideration of internal carotid artery angle as a risk factor for carotid arteriosclerotic disease. <i>Progress in Computational Fluid Dynamics</i> , 2015 , 15, 87	0.7	3
173	Validation of DEM prediction for granular avalanches on irregular terrain. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 1724-1742	3.8	20
172	Interpreting manometric signals for propulsion in the gut. <i>Computational Particle Mechanics</i> , 2015 , 2, 273-282	3	6
171	A multiscale method for including fine particle effects in DEM models of grinding mills. <i>Minerals Engineering</i> , 2015 , 84, 88-99	4.9	23
170	A new approach to boiling simulation using a discrete particle based method. <i>Computers and Graphics</i> , 2015 , 53, 118-126	1.8	12
169	The Role of the Hand During Freestyle Swimming. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 11100-11107		20

168	Simulation of particle flows and breakage in crushers using DEM: Part 1 [Compression crushers. <i>Minerals Engineering</i> , 2015 , 74, 178-197	4.9	71
167	Evaluation of Accuracy and Stability of the Classical SPH Method Under Uniaxial Compression. <i>Journal of Scientific Computing</i> , 2015 , 64, 858-897	2.3	16
166	Simulation of particle flows and breakage in crushers using DEM: Part 2 [Impact crushers. <i>Minerals Engineering</i> , 2015 , 74, 163-177	4.9	28
165	Modelling highly deformable metal extrusion using SPH. <i>Computational Particle Mechanics</i> , 2015 , 2, 19-38		15
164	Application of a mesh-free method to modelling brittle fracture and fragmentation of a concrete column during projectile impact. <i>Computers and Concrete</i> , 2015 , 16, 933-961		3
163	Comparison of non-cohesive resolved and coarse grain DEM models for gas flow through particle beds. <i>Applied Mathematical Modelling</i> , 2014 , 38, 4197-4214	4.5	35
162	Challenges in computational modelling of food breakdown and flavour release. <i>Food and Function</i> , 2014 , 5, 2792-805	6.1	33
161	Effect of port configuration on discharge from a HICOM mill. <i>Minerals Engineering</i> , 2014 , 69, 113-119	4.9	4
160	Towards modelling of fluid flow and food breakage by the teeth in the oral cavity using smoothed particle hydrodynamics (SPH). <i>European Food Research and Technology</i> , 2014 , 238, 185-215	3.4	34
159	Quantitative structural analysis of simulated granular packings of non-spherical particles. <i>Granular Matter</i> , 2014 , 16, 457-468	2.6	10
158	Segregation of combined size and density varying binary granular mixtures in a slowly rotating tumbler. <i>Granular Matter</i> , 2014 , 16, 711-732	2.6	26
157	Flow analysis and validation of numerical modelling for a thin walled high pressure die casting using SPH. <i>Computational Particle Mechanics</i> , 2014 , 1, 229-243	3	24
156	Modelling the impact of dam failure scenarios on flood inundation using SPH. <i>Applied Mathematical Modelling</i> , 2014 , 38, 5515-5534	4.5	29
155	Application of Smoothed Particle Hydrodynamics for modelling gated spillway flows. <i>Applied Mathematical Modelling</i> , 2014 , 38, 4308-4322	4.5	17
154	Temperature and strain rate effects in cold spray investigated by smoothed particle hydrodynamics. <i>Surface and Coatings Technology</i> , 2014 , 254, 121-130	4.4	32
153	Pitching effects of buoyancy during four competitive swimming strokes. <i>Journal of Applied Biomechanics</i> , 2014 , 30, 609-18	1.2	13
152	Modelling rock fracturing caused by magma intrusion using the smoothed particle hydrodynamics method. <i>Computational Geosciences</i> , 2014 , 18, 927-947	2.7	13
151	Computational Modeling of Food Oral Breakdown Using Smoothed Particle Hydrodynamics. <i>Journal of Texture Studies</i> , 2014 , 45, 97-109	3.6	33

150	An efficient computational approach to characterize DSC-MRI signals arising from three-dimensional heterogeneous tissue structures. <i>PLoS ONE</i> , 2014 , 9, e84764	3.7	18
149	Using smooth particle hydrodynamics to investigate femoral cortical bone remodelling at the Haversian level. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013 , 29, 129-43	2.6	14
148	Rogue wave impact on a tension leg platform: The effect of wave incidence angle and mooring line tension. <i>Ocean Engineering</i> , 2013 , 61, 123-138	3.9	36
147	Radial segregation of multi-component granular media in a rotating tumbler. <i>Granular Matter</i> , 2013 , 15, 705-724	2.6	31
146	The contribution of DEM to the science of comminution. <i>Powder Technology</i> , 2013 , 248, 3-24	5.2	206
145	A mesh-free approach for fracture modelling of gravity dams under earthquake. <i>International Journal of Fracture</i> , 2013 , 179, 9-33	2.3	31
144	De-mixing of binary particle mixtures during unloading of a V-blender. <i>Chemical Engineering Science</i> , 2013 , 94, 93-107	4.4	6
143	Modelling spray coating using a combined CFDDEM and spherical harmonic formulation. <i>Chemical Engineering Science</i> , 2013 , 99, 141-160	4.4	35
142	Predicting breakage and the evolution of rock size and shape distributions in Ag and SAG mills using DEM. <i>Minerals Engineering</i> , 2013 , 50-51, 132-139	4.9	54
141	Comparisons of PEPT derived charge features in wet milling environments with a friction-adjusted DEM model. <i>Chemical Engineering Science</i> , 2013 , 97, 162-175	4.4	44
140	Dust modelling using a combined CFD and discrete element formulation. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 72, 528-549	1.9	24
139	Particulate mixing in a plough share mixer using DEM with realistic shaped particles. <i>Powder Technology</i> , 2013 , 248, 103-120	5.2	53
138	An investigation of the comparative behaviour of alternative contact force models during inelastic collisions. <i>Powder Technology</i> , 2013 , 233, 30-46	5.2	150
137	Prediction of industrial, biophysical and extreme geophysical flows using particle methods. <i>Engineering Computations</i> , 2013 , 30, 157-196	1.4	27
136	Fluid flow in a spiral device used for irradiation of biological fluids. <i>Biotechnology Progress</i> , 2013 , 29, 359-67	2.8	2
135	The role of inter-grain friction in determining the mechanical and structural properties of superellipsoid packings 2013 ,		1
134	Unitary stick-slip motion in granular beds 2013 ,		3
133	Comparative study by PEPT and DEM for flow and mixing in a ploughshare mixer. <i>Powder Technology</i> , 2012 , 228, 171-186	5.2	35

132	Three-dimensional wave impact on a rigid structure using smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 68, 1471-1496	1.9	58
131	Prediction of 3D slurry flow within the grinding chamber and discharge from a pilot scale SAG mill. <i>Minerals Engineering</i> , 2012 , 39, 184-195	4.9	41
130	Flow and mixing performance in helical ribbon mixers. <i>Chemical Engineering Science</i> , 2012 , 84, 382-398	4.4	36
129	Investigating the relationships between peristaltic contraction and fluid transport in the human colon using Smoothed Particle Hydrodynamics. <i>Computers in Biology and Medicine</i> , 2012 , 42, 492-503	7	47
128	Raceway formation in laterally gas-driven particle beds. <i>Chemical Engineering Science</i> , 2012 , 80, 306-316	4.4	43
127	Testing the validity of the spherical DEM model in simulating real granular screening processes. <i>Chemical Engineering Science</i> , 2012 , 68, 215-226	4.4	61
126	Simulations of dolphin kick swimming using smoothed particle hydrodynamics. <i>Human Movement Science</i> , 2012 , 31, 604-19	2.4	64
125	Modelling of metal forging using SPH. <i>Applied Mathematical Modelling</i> , 2012 , 36, 3836-3855	4.5	37
124	Dynamic simulation of dam-break scenarios for risk analysis and disaster management. <i>International Journal of Image and Data Fusion</i> , 2012 , 3, 333-363	1.8	8
123	Comparison of permeability of model porous media between SPH and LB. <i>Progress in Computational Fluid Dynamics</i> , 2012 , 12, 176	0.7	12
122	A MULTISCALE METHOD FOR GEOPHYSICAL FLOW EVENTS. <i>International Journal for Multiscale Computational Engineering</i> , 2012 , 10, 375-390	2.4	5
121	Large Scale Simulation of Industrial, Engineering and Geophysical Flows Using Particle Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 89-111	0.4	6
120	Defining random loose packing for nonspherical grains. <i>Physical Review E</i> , 2011 , 83, 051305	2.4	56
119	Is media shape important for grinding performance in stirred mills?. <i>Minerals Engineering</i> , 2011 , 24, 138-151	4.5	33
118	Slurry flow in a tower mill. <i>Minerals Engineering</i> , 2011 , 24, 152-159	4.9	23
117	Understanding fine ore breakage in a laboratory scale ball mill using DEM. <i>Minerals Engineering</i> , 2011 , 24, 352-366	4.9	44
116	Using SPH one-way coupled to DEM to model wet industrial banana screens. <i>Minerals Engineering</i> , 2011 , 24, 741-753	4.9	89
115	Effect of screw design on hopper drawdown of spherical particles in a horizontal screw feeder. <i>Chemical Engineering Science</i> , 2011 , 66, 5585-5601	4.4	64

114	Insights from simulations into mechanisms for density segregation of granular mixtures in rotating cylinders. <i>Granular Matter</i> , 2011 , 13, 53-74	2.6	43
113	Discrete element modelling of a bucket elevator head pulley transition zone. <i>Granular Matter</i> , 2011 , 13, 169-174	2.6	7
112	Application of a mesh-free continuum method for simulation of rock caving processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011 , 48, 703-711	6	35
111	The influence of cam geometry and operating conditions on chaotic mixing of viscous fluids in a twin cam mixer. <i>AIChE Journal</i> , 2011 , 57, 581-598	3.6	16
110	The influence of particle shape on flow modes in pneumatic conveying. <i>Chemical Engineering Science</i> , 2011 , 66, 231-240	4.4	100
109	Analysis of Vezin sampler performance. <i>Chemical Engineering Science</i> , 2011 , 66, 2385-2397	4.4	4
108	Sampling of cohesive bulk materials by falling stream cutters. <i>Chemical Engineering Science</i> , 2011 , 66, 3991-4003	4.4	5
107	Streak patterns in binary granular media in a rotating drum. <i>Applied Mathematical Modelling</i> , 2011 , 35, 1638-1646	4.5	30
106	SPH modelling of fluid at the grain level in a porous medium. <i>Applied Mathematical Modelling</i> , 2011 , 35, 1666-1675	4.5	21
105	Using distributed contacts in DEM. <i>Applied Mathematical Modelling</i> , 2011 , 35, 1904-1914	4.5	15
104	Three dimensional modelling of lava flow using Smoothed Particle Hydrodynamics. <i>Applied Mathematical Modelling</i> , 2011 , 35, 3021-3035	4.5	7
103	An investigation of the comparative behaviour of alternative contact force models during elastic collisions. <i>Powder Technology</i> , 2011 , 210, 189-197	5.2	114
102	Granular flow during hopper discharge. <i>Physical Review E</i> , 2011 , 84, 011307	2.4	69
101	SPH Modeling of the Effect of Crucible Tipping Rate on Oxide Formation. <i>Materials Science Forum</i> , 2011 , 693, 54-62	0.4	2
100	Novel application of DEM to modelling comminution processes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012099	0.4	14
99	Screw conveyor performance: comparison of discrete element modelling with laboratory experiments. <i>Progress in Computational Fluid Dynamics</i> , 2010 , 10, 327	0.7	31
98	Combining digital terrain and surface textures with large-scale particle-based computational models to predict dam collapse and landslide events. <i>International Journal of Image and Data Fusion</i> , 2010 , 1, 337-357	1.8	14
97	The effect of rotational shear on granular discharge rates. <i>Physics of Fluids</i> , 2010 , 22, 071701	4.4	7

96	Application of SPH for Modelling Heat Transfer and Residual Stress Generation in Arc Welding. <i>Materials Science Forum</i> , 2010 , 654-656, 2751-2754	0.4	1
95	The packing properties of superellipsoids. <i>Europhysics Letters</i> , 2010 , 89, 34002	1.6	135
94	Modelling hypervelocity impact fracture of ceramic panels using a mesh-free method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012058	0.4	3
93	Effect of rotor blade angle and clearance on blood flow through a non-pulsatile, axial, heart pump. <i>Progress in Computational Fluid Dynamics</i> , 2010 , 10, 300	0.7	7
92	Validation of SPH predictions of oxide generated during Al melt transfer. <i>Progress in Computational Fluid Dynamics</i> , 2010 , 10, 319	0.7	4
91	Short shots and industrial case studies: Understanding fluid flow and solidification in high pressure die casting. <i>Applied Mathematical Modelling</i> , 2010 , 34, 2018-2033	4.5	47
90	Prediction of mill liner shape evolution and changing operational performance during the liner life cycle: Case study of a Hicom mill. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 81, 1157-1179	2.4	29
89	Extension of SPH to predict feeding, freezing and defect creation in low pressure die casting. <i>Applied Mathematical Modelling</i> , 2010 , 34, 3189-3201	4.5	56
88	DEM prediction of industrial and geophysical particle flows. <i>Particuology</i> , 2010 , 8, 106-118	2.8	142
87	Effect of rock shapes on brittle fracture using Smoothed Particle Hydrodynamics. <i>Theoretical and Applied Fracture Mechanics</i> , 2010 , 53, 47-60	3.7	79
86	Elastoplastic deformation during projectile-wall collision. <i>Applied Mathematical Modelling</i> , 2010 , 34, 266-283	4.5	27
85	Dynamics of gas-solid fluidised beds with non-spherical particle geometry. <i>Chemical Engineering Science</i> , 2010 , 65, 1584-1596	4.4	134
84	Strain Reduction between Cortical Pore Structures Leads to Bone Weakening and Fracture Susceptibility: An Investigation Using Smooth Particle Hydrodynamics. <i>IFMBE Proceedings</i> , 2010 , 784-787	0.2	2
83	Improving Understanding of Human Swimming Using Smoothed Particle Hydrodynamics. <i>IFMBE Proceedings</i> , 2010 , 174-177	0.2	3
82	Computational Studies of the Locomotion of Dolphins and Sharks Using Smoothed Particle Hydrodynamics. <i>IFMBE Proceedings</i> , 2010 , 22-25	0.2	4
81	Fundamental relations between particle shape and the properties of granular packings 2009 ,		8
80	Using DEM to compare the energy efficiency of pilot scale ball and tower mills. <i>Minerals Engineering</i> , 2009 , 22, 665-672	4.9	33
79	Ball motion, axial segregation and power consumption in a full scale two chamber cement mill. <i>Minerals Engineering</i> , 2009 , 22, 809-820	4.9	46

78	Separation performance of double deck banana screens [Part 2: Quantitative predictions. <i>Minerals Engineering</i> , 2009 , 22, 1230-1244	4.9	72
77	Separation performance of double deck banana screens [Part 1: Flow and separation for different accelerations. <i>Minerals Engineering</i> , 2009 , 22, 1218-1229	4.9	94
76	Vibration-induced arching in a deep granular bed. <i>Granular Matter</i> , 2009 , 11, 345-364	2.6	14
75	Prediction of screw conveyor performance using the Discrete Element Method (DEM). <i>Powder Technology</i> , 2009 , 193, 274-288	5.2	127
74	An investigation and optimization of the DLDS Elevator using Discrete Element Modeling. <i>Powder Technology</i> , 2009 , 193, 216-234	5.2	34
73	Modelling of metal flow and oxidation during furnace emptying using smoothed particle hydrodynamics. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3396-3407	5.3	15
72	Particle methods for modelling in mineral processing. <i>International Journal of Computational Fluid Dynamics</i> , 2009 , 23, 137-146	1.2	13
71	Industrial particle flow modelling using discrete element method. <i>Engineering Computations</i> , 2009 , 26, 698-743	1.4	146
70	Simulating Brittle Fracture of Rocks using Smoothed Particle Hydrodynamics 2009 ,		6
69	Quasi-static fall of planar granular columns: comparison of 2D and 3D discrete element modelling with laboratory experiments. <i>Geomechanics and Geoengineering</i> , 2009 , 4, 55-77	1.4	29
68	Extreme wave interaction with a floating oil rig: prediction using SPH. <i>Progress in Computational Fluid Dynamics</i> , 2009 , 9, 332	0.7	10
67	Towards a virtual comminution machine. <i>Minerals Engineering</i> , 2008 , 21, 770-781	4.9	61
66	The Potential for SPH Modelling of Solid Deformation and Fracture. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2008 , 287-296	0.3	24
65	Density segregation of granular material in a rotating cylindrical tumbler 2008 ,		5
64	Evaluation of cross-stream sample cutters using three-dimensional discrete element modelling. <i>Chemical Engineering Science</i> , 2008 , 63, 2980-2993	4.4	7
63	DEM prediction of particle flows in grinding processes. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 58, 319-353	1.9	68
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