



PUBLICATIONS

BOOK

1. **A.R. Khoei**, 'Extended Finite Element Method, Theory and Applications', **John Wiley**, (584 pages) **2015**, ISBN: 978-1-118-45768-9.
2. **A.R. Khoei**, 'Computational Plasticity in Powder Forming Processes', **Elsevier**, (449 pages) **2005**, ISBN 0-080-44636-1.

Chapter in Book

1. **A.R. Khoei**, H. Bahai, I.N. Giannakeas, T.K. Papathanasiou, M. Hirmand, M. Vahab, 'The eXtended – Finite Element Method (X–FEM) through State of the Art Applications', Vol. 3, 247–295, In: Comprehensive Structural Integrity, M.H. Aliabadi, et al. (Eds.), 2nd Edition, **Elsevier**, **2023**.
2. **A.R. Khoei**, 'Modeling of Powder Forming Processes; Application of a Three-invariant Cap Plasticity and an Enriched Arbitrary Lagrangian–Eulerian FE Method', Chapter 7, 257–300, In: Advanced Computational Materials Modeling, M. Vaz Jr., et al. (Eds.), **John Wiley**, **2010**.

Monograph

A.R. Khoei, 'Computational Modeling of Powder Compaction Processes', Monograph Series on: Computational Modeling of Forming Processes, **CIMNE CMFP-1**, International Center for Numerical Methods in Engineering, Barcelona, Spain, (200 pages), ISBN 84-95999-45-5, **2003**.

Edited Conference Proceedings

1. **A.R. Khoei** and **A. Alvanchi**, 'International Conference on Sustainable Design and Construction Management', Sharif University of Technology, International Campus, Kish Island, <https://SDCM2022.kish.ac.ir>, **February 2022**.
2. **A.S. Khan** and **A.R. Khoei**, 'Dislocations, Plasticity, Damage and Metal Forming: Material Response and Multiscale Modeling', NEAT Press, Maryland, USA, (646 pages), ISBN 0-9659463-5-5, **January 2005**.
3. **N. Tabatabaee** and **A.R. Khoei**, 'Proceedings of the First National Congress on Civil Engineering', **Sharif University of Technology**, Tehran, Iran, **May 2004**.

Refereed Journals

1. **A.R. Khoei, M.R. Seddighian and A. Rezaei Sameti**, 'Machine learning-based multiscale framework for mechanical behavior of nano-crystalline structures', *International Journal of Mechanical Sciences*, **265**, 108897, **2024**.
2. **A.R. Khoei, A.M. Orvati Movaffagh and A. Rezaei Sameti**, 'Thermo-mechanical characteristics of oxide-coated aluminum nano-powder', *International Journal of Thermal Sciences*, **197**, 108767, **2024**.
3. **A.R. Khoei and M. Taghvaei**, 'A computational dual-porosity approach for the coupled hydro-mechanical analysis of fractured porous media', *International Journal for Numerical and Analytical Methods in Geomechanics*, doi.org/10.1002/nag.3709, **2024**.
4. **S. Saeedmonir, M.H. Adeli and A.R. Khoei**, 'A multiscale approach in modeling of chemically reactive porous media', *Computers & Geotechnics*, **165**, 105818, **2024**.
5. **M. Jahanshahi, A.R. Khoei, N. Asadollahzadeh and F. Aldakheel**, 'Multiscale phase-field modeling of fracture in nanostructures', *Journal of Multiscale Modelling*, 2350013, **2024**.
6. **A.R. Khoei, S. Saeedmonir and A. Misaghi Bonabi**, 'Computational homogenization of fully coupled hydro-mechanical analysis of micro-fractured porous media', *Computers & Geotechnics*, **154**, 105121, **2023**.
7. **A.R. Khoei and M. Kianezhad**, 'A machine learning-based atomistic-continuum multiscale technique for modeling the mechanical behavior of Ni₃Al', *International Journal of Mechanical Sciences*, **239**, 107858, **2023**.
8. **A.R. Khoei, S.M.S. Mortazavi, L. Simoni and B.A. Schrefler**, 'Irregular and stepwise behavior of hydraulic fracturing; Insights from linear cohesive crack modelling with maximum stress criterion', *Computers & Geotechnics*, **161**, 105570, **2023**.
9. **S.M.S. Mortazavi, O. Rezaie Beydokhti and A.R. Khoei**, 'Modeling enhanced geothermal systems using a hybrid XFEM–ECM technique', *Applied Thermal Engineering*, **230**, 120755, **2023**.
10. **A.R. Khoei, S.M. Mousavi and N. Hosseini**, 'Modeling density-driven flow and solute transport in heterogeneous reservoirs with micro/macro fractures', *Advances in Water Resources*, **182**, 104571, **2023**.
11. **A.R. Khoei, H. Mofatteh and A. Rezaei Sameti**, 'A multiscale framework for atomistic–continuum transition in nano-powder compaction process using a cone-cap plasticity model', *International Journal of Mechanical Sciences*, **255**, 108482, **2023**.
12. **A.R. Khoei, A. Rezaei Sameti and H. Mofatteh**, 'Multiscale analysis of nano-powder compaction process using the FEM–MD technique', *Powder Technology*, **423**, 118507, **2023**.
13. **G. Tolooei Eshlaghi and A.R. Khoei**, 'Modeling anisotropic mechanical properties and creep behavior of Ni/Ni₃Al single crystal superalloys at high temperatures', *Journal of Nanoparticle Research*, **25**, 58, **2023**.
14. **A.R. Khoei, S. Saeedmonir, N. Hosseini and S.M. Mousavi**, 'An X–FEM technique for numerical simulation of variable-density flow in fractured porous media', *MethodsX*, **10**, 102137, **2023**.
15. **S. Saeedmonir and A.R. Khoei**, 'Multiscale modeling of coupled thermo-hydro-mechanical analysis of heterogeneous porous media', *Computer Methods in Applied Mechanics and Engineering*, **391**, 114518, **2022**.

16. **S.M.S. Mortazavi, P. Pirmoradi and A.R. Khoei**, 'Numerical simulation of cold and hot water injection into naturally fractured porous media using the extended-FEM and an equivalent continuum model', *International Journal for Numerical and Analytical Methods in Geomechanics*, **46**, 617-655, **2022**.
17. **A.R. Khoei, R. Ehsani and N. Hosseini**, 'An extended-FEM model for CO₂ leakage through a naturally fractured cap-rock during carbon dioxide sequestration', *Transport in Porous Media*, **145**, 175-195, **2022**.
18. **A.R. Khoei, M. Youzi and G. Toloei Eshlaghi**, 'Mechanical properties and γ/γ' interfacial misfit network evolution: A study towards the creep behavior of Ni-based single crystal superalloys', *Mechanics of Materials*, **171**, 104368, **2022**.
19. **R. Yasbolaghi and A.R. Khoei**, 'A continuum-atomistic multi-scale analysis of temperature field problems and its application in phononic nano-structures', *Finite Elements in Analysis and Design*, **198**, 103643, **2022**.
20. **Y. Nikraves, A. Rezaei Sameti and A.R. Khoei**, 'An atomistic-continuum multiscale analysis for heterogeneous nano-materials and its application in nano-porous gold foams', *Applied Mathematical Modelling*, **107**, 353-378, **2022**.
21. **A.R. Khoei, B. Khajepour and A. Rezaei Sameti**, 'Surface oxidization effect on the mechanical behavior of aluminum nanopowders under triaxial compression test', *Applied Surface Science* **606**, 154907, **2022**.
22. **A. Tanhadoust, M. Jahanshahi and A.R. Khoei**, 'Temperature-dependent multiscale modeling of graphene sheet under finite deformation', *Diamond & Related Materials* **129**, 109334, **2022**.
23. **M. Motezaker, S. Xiao, A.R. Khoei and J.A. Zakeri**, 'Studies of frictional sliding contact by molecular dynamics assisted continuum mechanics', *Mechanics of Advanced Materials and Structures*, 2137885, **2022**.
24. **A.R. Khoei and S. Saeedmonir**, 'Computational homogenization of fully coupled multiphase flow in deformable porous media', *Computer Methods in Applied Mechanics and Engineering*, **376**, 113660, **2021**.
25. **A.A. Madadi and A.R. Khoei**, 'A coarse-grained - atomistic multi-scale method to study the mechanical behavior of heterogeneous FCC nano-materials', *Computational Materials Science*, **199**, 110725, **2021**.
26. **A.R. Khoei, D. Amini and S.M.S. Mortazavi**, 'Modeling non-isothermal two-phase fluid flow with phase change in deformable fractured porous media using extended-FEM', *International Journal for Numerical Methods in Engineering*, **122**, 4378-4426, **2021**.
27. **A.R. Khoei, G. Toloei Eshlaghi and S. Shahoveisi**, 'Atomistic simulation of creep deformation mechanisms in nickel-based single crystal superalloys', *Materials Science and Engineering: A*, **809**, 140977, **2021**.
28. **N. Hosseini and A.R. Khoei**, 'Modeling fluid flow in fractured porous media with the interfacial conditions between porous medium and fracture', *Transport in Porous Media*, **139**, 109-129, **2021**.
29. **H. Ahmadi, M. Jahanshahi, A.R. Khoei and S. Bordas**, 'Mechanical behavior of multilayer graphene reinforced epoxy nano-composites via a hierarchical multi-scale technique', *Carbon Trends*, **4**, 100048, **2021**.
30. **A.R. Khoei, T. Ahmadpour and Y. NavidTehrani**, 'An X-FEM technique for modeling the FRP strengthening of concrete arches with a plastic-damage model; Numerical and experimental investigations', *European Journal of Computational Mechanics*, **30**, 1-50, **2021**.
31. **A.R. Khoei and S.M.S. Mortazavi**, 'Thermo-hydro-mechanical modeling of fracturing porous media with two-phase fluid flow using X-FEM technique', *International Journal for Numerical and Analytical Methods in Geomechanics*, **44**, 2430-2472, **2020**.

32. **A.R. Khoei, A. Salehi Sichani and N. Hosseini**, 'Modeling of reactive acid transport in fractured porous media using the eXtended-FEM technique based on Darcy-Brinkmen-Forchheimer framework', *Computers & Geotechnics*, **128**, 103778, **2020**.
33. **N. Hosseini and A.R. Khoei**, 'Numerical simulation of proppant transport and tip screen-out in hydraulic fracturing with the extended finite element method', *International Journal of Rock Mechanics and Mining Sciences*, **128**, 104247, **2020**.
34. **N. Hosseini, Z. Bajalan and A.R. Khoei**, 'Numerical modeling of density-driven solute transport in fractured porous media with the extended finite element method', *Advances in Water Resources*, **136**, 103453, **2020**.
35. **A.R. Khoei, H. Moslemi and M.R. Seddighian**, 'An efficient stress recovery technique in adaptive finite element method using artificial neural network', *Engineering Fracture Mechanics*, **237**, 107231, **2020**.
36. **M. Jahanshahi, M. Vokhshoori and A.R. Khoei**, 'A coarse-graining approach for modelling nonlinear mechanical behaviour of FCC nano-crystals', *Computational Materials Science*, **172**, 109357, **2020**.
37. **A.R. Khoei, A. Rezaei Sameti and H. Mofatteh**, 'Compaction simulation of crystalline nano-powders under cold compaction process with molecular dynamics analysis', *Powder Technology*, **373**, 741-753, **2020**.
38. **M. Jahanshahi, H. Ahmadi and A.R. Khoei**, 'A hierarchical hyperelastic-based approach for multi-scale analysis of defective nano-materials', *Mechanics of Materials*, **140**, 103206, **2020**.
39. **R. Yasbolaghi and A.R. Khoei**, 'Micro-structural aspects of fatigue crack propagation in atomistic-scale via the molecular dynamics analysis', *Engineering Fracture Mechanics*, **226**, 106848, **2020**.
40. **A.R. Khoei and M.A. Sáadat**, 'A nonlocal computational homogenization of softening quasi-brittle materials', *International Journal for Numerical Methods in Engineering*, **119**, 712-736, **2019**.
41. **M.R. Hajiabadi and A.R. Khoei**, 'A bridge between dual porosity and multi-scale models of heterogeneous deformable porous media', *International Journal for Numerical and Analytical Methods in Geomechanics*, **43**, 212-238, **2019**.
42. **M. Vahab, A.R. Khoei and N. Khalili**, 'An X-FEM technique in modeling hydro-fracture interaction with naturally-cemented fault', *Engineering Fracture Mechanics*, **212**, 269-290, **2019**.
43. **T. Ahmadpour, Y. NavidTehrani and A.R. Khoei**, 'A computational plastic-damage method for modeling the FRP strengthening of concrete arches', *Scientia Iranica A. Journal of Civil Engineering*, **26**, 2123-2132, **2019**.
44. **A.R. Khoei, M. Vahab and M. Hirmand**, 'An enriched-FEM technique for numerical simulation of interacting discontinuities in naturally fractured porous media', *Computer Methods in Applied Mechanics and Engineering*, **331**, 197-231, **2018**.
45. **A.R. Khoei and B. Bahmani**, 'Application of an enriched FEM technique in thermo-mechanical contact problems', *Computational Mechanics*, **62**, 1127-1154, **2018**.
46. **A.R. Khoei and M.R. Hajiabadi**, 'Fully coupled hydro-mechanical multi-scale model with micro-dynamic effects', *International Journal for Numerical Methods in Engineering*, **115**, 293-327, **2018**.
47. **A.R. Khoei, A. Rezaei Sameti and Y. Nikravesh Kazerooni**, 'A continuum-atomistic multi-scale technique for nonlinear behavior of nano-materials', *International Journal of Mechanical Sciences*, **148**, 191-208, **2018**.
48. **M. Jahanshahi, A.R. Khoei, N. Heidarzadeh and N. Jafarian**, 'A hierarchical thermo-mechanical multi-scale technique for modeling of edge dislocations in nano-crystalline structure', *Computational Materials Science*, **141**, 360-374, **2018**.

49. **M. Jahanshahi, A.R. Khoei, N. Jafarian and N. Heidarzadeh**, 'An atomistic–continuum multi-scale method for modeling the thermo-mechanical behavior of heterogeneous nano-structures', *International Journal for Multiscale Computational Engineering*, **16**, 441-464, **2018**.
50. **M. Vahab, Sh. Akhondzadeh, A.R. Khoei and N. Khalili**, 'An X-FEM investigation of hydro-fracture evolution in naturally-layered domains', *Engineering Fracture Mechanics*, **191**, 187-204, **2018**.
51. **A.R. Khoei and M. Jahanshahi**, 'Multi-scale modeling of plastic deformations in nano-scale materials; Transition to plastic limit', *International Journal for Numerical Methods in Engineering*, **109**, 1180-1216, **2017**.
52. **Sh. Akhondzadeh, A.R. Khoei and P. Broumand**, 'An efficient enrichment strategy for modeling stress singularities in isotropic composite materials with X-FEM technique', *Engineering Fracture Mechanics*, **169**, 201-225, **2017**.
53. **A.R. Khoei, M. Jahanshahi and G. Toloui**, 'Validity of Cauchy-Born hypothesis in multi-scale modeling of plastic deformations', *International Journal of Solids and Structures*, **115-116**, 224-247, **2017**.
54. **P. Broumand and A.R. Khoei**, 'General framework for dynamic large deformation contact problems based on phantom-node X-FEM', *Computational Mechanics*, **2017**. DOI 10.1007/s00466-017-1463-7.
55. **A.R. Khoei and A. Rezaei Sameti**, 'A computational model for atomistic-based higher-order continua using the FEM technique', *Finite Elements in Analysis and Design*, **137**, 26-39, **2017**.
56. **A.R. Khoei, M. Vahab and M. Hirmand**, 'Modeling the interaction between fluid-driven fracture and natural fault using an enriched–FEM technique', *International Journal of Fracture*, **197**, 1-24, **2016**.
57. **A.R. Khoei, N. Hosseini and T. Mohamadnejad**, 'Numerical modeling of two-phase fluid flow in deformable fractured porous media using the extended finite element method and an equivalent continuum model', *Advances in Water Resources*, **94**, 510-528, **2016**.
58. **M. Ebrahimnejad, N. Fallah and A.R. Khoei**, 'Three types of meshless finite volume method for the analysis of two-dimensional elasticity problems', *Computational and Applied Mathematics*, DOI 10.1007/s40314-015-0273-9, 1-20, **2016**
59. **F. Hosseinzadeh, F. Shirazian, R. Shahsavari and A.R. Khoei**, 'Local density variation of gold nanoparticles in aquatic environments', *Physica E*, **84**, 489-497, **2016**.
60. **A.R. Khoei and M.S. Khorrami**, 'Mechanical properties of graphene oxide; A molecular dynamics study', *Fullerenes, Nanotubes and Carbon Nanostructures*, **24**, 594-603, **2016**.
61. **A.R. Khoei, M. Hirmand, M. Vahab and M. Bazargan**, 'An enriched FEM technique for modeling hydraulically-driven cohesive fracture propagation in impermeable media with frictional natural faults; Numerical and experimental investigations', *International Journal for Numerical Methods in Engineering*, **104**, 439-468, **2015**.
62. **A.R. Khoei, F. Jahanbakhshi and A. Aramoon**, 'A concurrent multi-scale technique in modeling heterogeneous FCC nano–crystalline structures', *Mechanics of Materials*, **83**, 40-65, **2015**.
63. **A.R. Khoei, R. Yasbolaghi and S.O.R. Biabanaki**, 'A polygonal–FEM technique in modeling large sliding contact on non-conformal meshes; A study on polygonal shape functions', *Engineering Computation*, **32**, 1391-1431, **2015**.
64. **A.R. Khoei, R. Yasbolaghi and S.O.R. Biabanaki**, 'A polygonal finite element method for modeling crack propagation without remeshing', *International Journal of Fracture*, **194**, 123-148, **2015**.

65. **M. Hirmand, M. Vahab and A.R. Khoei**, 'An augmented Lagrangian contact formulation for frictional discontinuities with the extended finite element method', *Finite Elements in Analysis and Design*, **107**, 28-43, **2015**.
66. **P. Broumand and A.R. Khoei**, 'X-FEM modeling of dynamic ductile fracture problems with a nonlocal damage–viscoplasticity model', *Finite Elements in Analysis and Design*, **99**, 49-67, **2015**.
67. **M. Ebrahimnejad, N. Fallah and A.R. Khoei**, 'Adaptive refinement in meshless finite volume method for elasticity problems', *Computers and Mathematics with Applications*, **69**, 1420-1443, **2015**.
68. **A.R. Khoei, H. Saffar and M. Eghbalian**, 'An efficient thermo–mechanical contact algorithm for modeling contact–impact problems', *Asian Journal of Civil Engineering*, **16**, 681-708, **2015**.
69. **A.R. Khoei, M. Vahab, H. Ehsani and M. Rafieerad**, 'X-FEM modeling of large plasticity deformation; A convergence study on various blending strategies for weak discontinuities', *European Journal of Computational Mechanics*, **24**, 79-106, **2015**.
70. **A.R. Khoei, P. Ghahremani and H. DorMohammadi**, 'Multi-scale modeling of surface effects in nano-materials with temperature-related Cauchy-Born hypothesis via the modified boundary Cauchy-Born model', *International Journal for Numerical Methods in Engineering*, **97**, 79-110, **2014**.
71. **A.R. Khoei, A. Aramoon, F. Jahanbakhshi and H. DorMohammadi**, 'A coupling atomistic–continuum approach for modeling mechanical behavior of nano-crystalline structures', *Computational Mechanics*, **54**, 269-286, **2014**.
72. **S.O.R. Biabanaki, A.R. Khoei and P. Wriggers**, 'Polygonal finite element methods for contact-impact problems on non-conformal meshes', *Computer Methods in Applied Mechanics and Engineering*, **269**, 198-221, **2014**.
73. **A.R. Khoei, H. DorMohammadi and A. Aramoon**, 'A temperature-related boundary Cauchy-Born method for multi-scale modeling of silicon nanostructures', *Physics Letters A*, **378**, 551-560, **2014**.
74. **A.R. Khoei, M. Vahab, E. Haghighat and S. Moallemi**, 'A mesh-independent finite element formulation for modeling crack growth in saturated porous media based on an enriched–FEM technique', *International Journal of Fracture*, **188**, 79-108, **2014**.
75. **A.R. Khoei and M. Vahab**, 'A numerical contact algorithm in saturated porous media with the extended finite element method', *Computational Mechanics*, **54**, 1089-1110, **2014**.
76. **O.R. Barani and A.R. Khoei**, '3D Modeling of cohesive crack growth in partially saturated porous media; A parametric study', *Engineering Fracture Mechanics*, **124-125**, 272-286, **2014**.
77. **M. Ebrahimnejad, N. Fallah and A.R. Khoei**, 'Two new approximation functions with the meshless finite volume formulation for 2D elasticity problems', *Engineering Analysis with Boundary Elements*, **46**, 10-22, **2014**.
78. **A.R. Khoei, S.O.R. Biabanaki and R. Yasbolaghi**, 'A polygonal–FEM technique in modeling arbitrary interfaces on non-conformal meshes; A study on polygonal shape functions', *European Journal of Computational Mechanics*, **23**, 15-37, **2014**.
79. **A.R. Khoei, A. Aramoon, F. Jahanbakhshi and H. DorMohammadi**, 'A concurrent multi-scale modeling for dynamic behavior of nano-crystalline structures', *Computational Materials Science*, **79**, 841-856, **2013**.
80. **A.R. Khoei, H. DorMohammadi and A. Aramoon**, 'Multi-scale modeling of edge effect on band gap offset in polygonal cross-section Si nanowires', *Computational Materials Science*, **79**, 262-275, **2013**.

81. **M. Eftekhari, S. Mohammadi and A.R. Khoei**, 'Effects of defects on the local shell buckling and post-buckling behaviour of single and multi-walled carbon nanotubes', *Computational Materials Science*, **79**, 736-744, **2013**.
82. **A.R. Khoei, M. Eghbalian, H. Azadi and H. Saffar**, 'Numerical simulation of ductile crack growth under cyclic and dynamic loading with a damage–viscoplasticity model', *Engineering Fracture Mechanics*, **99**, 169-190, **2013**.
83. **P. Broumand and A.R. Khoei**, 'The extended finite element method for large deformation ductile fracture problems with a non-local damage–plasticity model', *Engineering Fracture Mechanics*, **112**, 97-125, **2013**.
84. **T. Mohamadnejad and A.R. Khoei**, 'An extended finite element method for hydraulic fracture propagation of deformable porous media with the cohesive crack model', *Finite Elements in Analysis and Design*, **73**, 77-95, **2013**.
85. **T. Mohamadnejad and A.R. Khoei**, 'Hydro-mechanical modeling of cohesive crack propagation in multiphase porous media using the extended-FEM technique', *International Journal for Numerical and Analytical Methods in Geomechanics*, **37**, 1247-1279, **2013**.
86. **T. Mohamadnejad and A.R. Khoei**, 'An extended finite element method for fluid flow in partially saturated porous media with weak discontinuities; The convergence analysis of local enrichment strategies', *Computational Mechanics*, **51**, 327-345, **2013**.
87. **A.R. Khoei, M. Eghbalian, H. Moslemi and H. Azadi**, 'Crack growth modelling via 3D automatic adaptive mesh refinement based on modified–SPR technique', *Applied Mathematical Modeling*, **37**, 357-383, **2013**.
88. **A.R. Khoei, S.O.R. Biabanaki and S.M. Parvaneh**, '3D dynamic modeling of powder forming processes via a simple and efficient node-to-surface contact algorithm', *Applied Mathematical Modeling*, **37**, 443-462, **2013**.
89. **Sh. Keshavarz, A.R. Khoei and Z. Molaeinia**, 'Genetic algorithm–based numerical optimization of powder compaction process with temperature–dependent cap plasticity model', *International Journal of Advanced Manufacturing Technology*, **64**, 1057-1072, **2013**.
90. **A.R. Khoei, Z. Molaeinia and Sh. Keshavarz**, 'Modeling of hot isostatic pressing of metal powder with temperature–dependent cap plasticity model', *International Journal of Material Forming*, **6**, 363-376, **2013**.
91. **A.R. Khoei, S. Moallemi and E. Haghghat**, 'Thermo-hydro-mechanical modeling of impermeable discontinuity in saturated porous media with X–FEM technique', *Engineering Fracture Mechanics*, **96**, 701-723, **2012**.
92. **A.R. Khoei and P. Ghahremani**, 'Temperature-dependent multi-scale modeling of surface effects in nano-materials', *Mechanics of Materials*, **46**, 94-112, **2012**.
93. **A.R. Khoei and M. Eghbalian**, 'Numerical simulation of cyclic behavior of ductile metals with a coupled damage–viscoplasticity model', *Computational Materials Science*, **55**, 376-389, **2012**.
94. **A.R. Khoei and H. DorMohammadi**, 'Validity and size-dependency of Cauchy-Born hypothesis with Tersoff potential in silicon nano-structures', *Computational Materials Science*, **63**, 168-177, **2012**.
95. **A.R. Khoei, H. Moslemi and M. Sharifi**, 'Three-dimensional cohesive fracture modeling of non-planar crack growth using adaptive FE technique', *International Journal of Solids and Structures*, **49**, 2334-2348, **2012**.
96. **A.R. Khoei and A. Aramoon**, 'A multi-scale modeling of surface effect via the modified boundary Cauchy–Born model', *Materials Science and Engineering: C*, **32**, 1993-2000, **2012**.

97. **S.O.R. Biabanaki** and **A.R. Khoei**, 'A polygonal finite element method for modeling arbitrary interfaces in large deformation problems', *Computational Mechanics*, **50**, 19-33, **2012**.
98. **A.R. Khoei**, **S.O.R. Biabanaki** and **S.M. Parvaneh**, 'Dynamic modeling of powder compaction processes via a simple contact algorithm', *International Journal of Mechanical Sciences*, **64**, 196-210, **2012**.
99. **A.R. Khoei**, **S.O.R. Biabanaki**, **S.M. Taheri-Mousavi**, **A.R. Vafa** and **S.M. Parvaneh**, '3D contact modelling of large plastic deformation in powder forming processes', *International Journal of Material Forming*, **5**, 163-173, **2012**.
100. **A.R. Khoei**, **S.O.R. Biabanaki** and **S.M. Parvaneh**, 'Modeling of powder forming processes in transient-dynamic analysis of large plastic deformations', *Advanced Materials Research*, **445**, 362-367, **2012**.
101. **A.R. Khoei**, **O.R. Barani** and **M. Mofid**, 'Modeling of dynamic cohesive fracture propagation in porous saturated media', *International Journal for Numerical and Analytical Methods in Geomechanics*, **35**, 1160-1184, **2011**.
102. **A.R. Khoei** and **T. Mohamadnejad**, 'Numerical modeling of multiphase fluid flow in deforming porous media; A comparison between two- and three-phase models for seismic analysis of earth and rockfill dams', *Computers & Geotechnics*, **38**, 142-166, **2011**.
103. **A.R. Khoei**, **P. Ghahremani**, **M.J.A. Qomi** and **P. Banihashemi**, 'Stability and size-dependency of temperature-related Cauchy-Born hypothesis', *Computational Materials Science*, **50**, 1731-1743, **2011**.
104. **A.R. Khoei**, **E. Ban**, **P. Banihashemi** and **M.J.A. Qomi**, 'Effects of temperature and torsion speed on torsional properties of single-walled carbon nanotubes', *Materials Science and Engineering: C*, **31**, 452-457, **2011**.
105. **H. Azadi**, and **A.R. Khoei**, 'Numerical simulation of multiple crack growth in brittle materials with adaptive remeshing', *International Journal for Numerical Methods in Engineering*, **85**, 1017-1048, **2011**.
106. **A.R. Khoei** and **E. Haghghat**, 'Extended finite element modeling of deformable porous media with arbitrary interfaces', *Applied Mathematical Modelling*, **35**, 5426-5441, **2011**.
107. **M.J.A. Qomi**, **A. Aghaei** and **A.R. Khoei**, 'Multiscale modeling of surface effect via the boundary Cauchy-Born method', *International Journal for Numerical Methods in Engineering*, **85**, 827-846, **2011**.
108. **O.R. Barani**, **A.R. Khoei** and **M. Mofid**, 'Modeling of cohesive crack growth in partially saturated porous media; A study on the permeability of cohesive fracture', *International Journal of Fracture*, **167**, 15-31, **2011**.
109. **A.R. Khoei**, **M. Anahid**, **M. Zarinfar**, **M. Ashouri** and **A. Pak**, 'A large plasticity deformation of unsaturated soil for 3D dynamic analysis of lower San-Fernando dam', *Asian Journal of Civil Engineering*, **12**, 1-25, **2011**.
110. **A.R. Khoei** and **M.H. Pourmatin**, 'A dynamic lattice model for heterogeneous materials', *Computational Methods in Civil Engineering*, **2**, 1-20, **2011**.
111. **A.R. Khoei** and **S.M. Taheri-Mousavi**, 'Modeling of large deformation – large sliding contact via the penalty X-FEM technique', *Computational Materials Science*, **48**, 471-480, **2010**.
112. **A.R. Khoei**, **Sh. Keshavarz** and **A.R. Khaloo**, 'The genetic algorithm approach for shape optimization of powder compaction processes considering contact friction and cap plasticity models', *Engineering Computations*, **27**, 322-353, **2010**.

113. **K. Karimi** and **A.R. Khoei**, 'On the analysis of simple shear problem using the micropolar hypoelasticity Cosserat theory', *European Journal of Mechanics - A/Solids*, **29**, 664-674, **2010**.
114. **A.R. Khoei**, **Sh. Keshavarz** and **S.O.R. Biabanaki**, 'Optimal design of powder compaction processes via genetic algorithm technique', *Finite Elements in Analysis and Design*, **46**, 843-861, **2010**.
115. **A.R. Khoei**, **S. Yadegari** and **S.O.R. Biabanaki** '3D finite element modeling of shear band localization via the micro-polar Cosserat continuum theory', *Computational Materials Science*, **49**, 720-733, **2010**.
116. **M. Anahid** and **A.R. Khoei**, 'Modeling of moving boundaries in large plasticity deformations via an enriched arbitrary Lagrangian-Eulerian FE method', *Scientia Iranica, Transaction A. Journal of Civil Engineering*, **17**, 141-160, **2010**.
117. **A.R. Khoei**, **S.M. Taheri-Mousavi**, **S.O.R. Biabanaki** and **M. Anahid**, 'An enriched-FEM technique for large frictional contact deformation', *Steel Research International*, **81**, 1478-1481, **2010**.
118. **H. Moslemi** and **A.R. Khoei**, '3D modeling of damage growth and crack initiation using adaptive finite element technique', *Scientia Iranica, Transaction A. Journal of Civil Engineering*, **17**, 372-386, **2010**.
119. **A.R. Khoei**, **S.O.R. Biabanaki**, **A.R. Vafa**, **I. Yadegaran** and **Sh. Keshavarz**, 'A new computational algorithm for contact friction modeling of large plastic deformation in powder compaction processes', *International Journal of Solids and Structures*, **46**, 287-310, **2009**.
120. **A.R. Khoei**, **M.J.A. Qomi**, **M.T. Kazemi** and **A. Aghaei**, 'An investigation on the validity of Cauchy-Born hypothesis using Sutton-Chen many-body potential', *Computational Materials Science*, **44**, 999-1006, **2009**.
121. **A.R. Khoei** and **S.A. Gharehbaghi**, 'Three-dimensional data transfer operators in large plasticity deformations using modified-SPR technique', *Applied Mathematical Modelling*, **33**, 3269-3285, **2009**.
122. **A. Aghaei**, **M.J.A. Qomi**, **M.T. Kazemi** and **A.R. Khoei**, 'Stability and size-dependency of Cauchy-Born hypothesis in three-dimensional applications', *International Journal of Solids and Structures*, **46**, 1925-1936, **2009**.
123. **A.R. Khoei**, **S.O.R. Biabanaki**, **A.R. Vafa** and **S.M. Taheri-Mousavi**, 'A new computational algorithm for 3D contact modelling of large plastic deformation in powder forming processes', *Computational Materials Science*, **46**, 203-220, **2009**.
124. **A.R. Khoei**, **S.O.R. Biabanaki** and **M. Anahid**, 'A Lagrangian – extended finite element method in modeling large plasticity deformations and contact problems', *International Journal of Mechanical Sciences*, **51**, 384-401, **2009**.
125. **H. Moslemi** and **A.R. Khoei**, '3D adaptive finite element modeling of non-planar curved crack growth using the weighted super-convergent patch recovery method', *Engineering Fracture Mechanics*, **76**, 1703-1728, **2009**.
126. **A.R. Khoei**, **H. Moslemi**, **K. Majd-Ardakany**, **O.R. Barani** and **H. Azadi**, 'Modeling of cohesive crack growth using an adaptive mesh refinement via the modified-SPR technique', *International Journal of Fracture*, **159**, 21-41, **2009**.
127. **A.R. Khoei**, **M. Anahid**, **K. Shahim** and **H. DorMohammadi**, 'Arbitrary Lagrangian-Eulerian method in plasticity of pressure-sensitive material with reference to powder forming process', *Computational Mechanics*, **42**, 13-38, **2008**.

128. **A.R. Khoei, S.O.R. Biabanaki and M. Anahid**, 'Extended finite element method for three-dimensional large plasticity deformations on arbitrary interfaces', *Computer Methods in Applied Mechanics and Engineering*, **197**, 1100-1114, **2008**.
129. **M. Anahid and A.R. Khoei**, 'New development in extended finite element modeling of large elasto-plastic deformations', *International Journal for Numerical Methods in Engineering*, **75**, 1133-1171, 2008.
130. **Sh. Keshavarz, A.R. Khoei and A.R. Khaloo**, 'Contact friction simulation in powder compaction process based on the penalty approach', *Materials & Design*, **29**, 1199-1211, **2008**.
131. **A.R. Khoei, Sh. Keshavarz and A.R. Khaloo**, 'Modeling of large deformation frictional contact in powder compaction processes', *Applied Mathematical Modelling*, **32**, 775-801, **2008**.
132. **S.A. Gharehbaghi and A.R. Khoei**, 'Three-dimensional superconvergent patch recovery method and its application to data transferring in small strain plasticity', *Computational Mechanics*, **41**, 293-312, **2008**.
133. **A.R. Khoei, H. Azadi and H. Moslemi**, 'Modeling of crack propagation via an automatic adaptive mesh refinement based on modified superconvergent patch recovery technique', *Engineering Fracture Mechanics*, **75**, 2921-2945, **2008**.
134. **A.R. Khoei, M. Anahid and K. Shahim**, 'An extended arbitrary Lagrangian-Eulerian finite element method for large deformation of solid mechanics', *Finite Elements in Analysis and Design*, **44**, 401-416, **2008**.
135. **H. DorMohammadi and A.R. Khoei**, 'A three-invariant cap model with isotropic-kinematic hardening rule and associated plasticity for granular materials', *International Journal of Solids and Structures*, **45**, 631-656, **2008**.
136. **A.R. Khoei and S.A. Gharehbaghi**, 'Three-dimensional data transfer operators in plasticity using SPR technique with C_0 , C_1 and C_2 continuity', *Scientia Iranica, International Journal of Science & Technology*, **15**, 554-567, **2008**.
137. **A.R. Khoei and K. Karimi**, 'An enriched-FEM model for simulation of localization phenomenon in Cosserat continuum theory', *Computational Materials Science*, **44**, 733-749, **2008**.
138. **A.R. Khoei and H. DorMohammadi**, 'A three-invariant cap plasticity with isotropic-kinematic hardening rule for powder materials: Model assessment and parameter calibration', *Computational Materials Science*, **41**, 1-12, **2007**.
139. **A.R. Khoei and M. Nikbakht**, 'An enriched finite element algorithm for numerical computation of contact friction problems', *International Journal of Mechanical Sciences*, **49**, 183-199, **2007**.
140. **A.R. Khoei, M. Samimi and A.R. Azami**, 'Reproducing kernel particle method in plasticity of pressure-sensitive material with reference to powder forming process', *Computational Mechanics*, **39**, 247-270, 2007.
141. **A.R. Khoei, S.A. Gharehbaghi, A.R. Tabarraie and A. Riahi**, 'Error estimation, adaptivity and data transfer in enriched plasticity continua to analysis of shear band localization', *Applied Mathematical Modelling*, **31**, 983-1000, **2007**.
142. **A.R. Khoei, H. DorMohammadi and A.R. Azami**, 'A three-invariant cap plasticity model with kinematic hardening rule for powder materials', *Journal of Materials Processing Technology*, **187-188**, 680-684, **2007**.
143. **A.R. Khoei, M. Anahid and K. Shahim**, 'An extended arbitrary Lagrangian-Eulerian finite element modeling (X-ALE-FEM) in powder forming processes', *Journal of Materials Processing Technology*, **187-188**, 397-401, **2007**.

144. **A.R. Khoei, A.R. Azami and S. Azizi**, 'Computational modeling of 3D powder compaction processes', *Journal of Materials Processing Technology*, **185**, 166-172, **2007**.
145. **A.R. Khoei and S.A. Gharehbaghi**, 'The Superconvergence Patch Recovery and Data Transfer Operators in 3D Plasticity Problems', *Finite Elements in Analysis and Design*, **43**, 630-648, **2007**.
146. **A.R. Khoei, A.R. Azami, M. Anahid and R.W. Lewis**, 'A three-invariant hardening plasticity for numerical simulation of powder forming processes via the arbitrary Lagrangian-Eulerian FE model', *International Journal for Numerical Methods in Engineering*, **66**, 843-877, **2006**.
147. **A.R. Khoei, A. Shamloo and A.R. Azami**, 'Extended finite element method in plasticity forming of powder compaction with contact friction', *International Journal of Solids and Structures*, **43**, 5421-5448, **2006**.
148. **A.R. Azami and A.R. Khoei**, '3D computational modeling of powder compaction processes using a three-invariant hardening cap plasticity model', *Finite Elements in Analysis and Design*, **42**, 792-807, **2006**.
149. **A.R. Khoei, S.A. Gharehbaghi, A.R. Azami and A.R. Tabarraie**, 'SUT-DAM: An integrated software environment for multi-disciplinary geotechnical engineering', *Advances Engineering Software*, **37**, 728-753, **2006**.
150. **A.R. Khoei, S. Yadegari and M. Anahid**, 'Three-dimensional modeling of strain localization in Cosserat continuum theory', *International Journal of Civil Engineering*, **4**, 176-191, **2006**.
151. **A.R. Khoei, A. Shamloo, M. Anahid and K. Shahim**, 'The extended finite element method (X-FEM) for powder forming problems', *Journal of Materials Processing Technology*, **177**, 53-57, **2006**.
152. **A.R. Khoei and M. Nikbakht**, 'Contact friction modelling with the extended finite element method (X-FEM)', *Journal of Materials Processing Technology*, **177**, 58-62, **2006**.
153. **A.R. Khoei and A.R. Azami**, 'A single cone-cap plasticity with an isotropic hardening rule for powder materials', *International Journal of Mechanical Sciences*, **47**, 94-109, **2005**.
154. **A.R. Khoei and N. Jamali**, 'On the implementation of a multi-surface kinematic hardening plasticity and its applications', *International Journal of Plasticity*, **21**, 1741-1770, **2005**.
155. **A.R. Khoei and S. Azizi**, 'Numerical simulation of 3D powder compaction processes using cone-cap plasticity theory', *Materials & Design*, **26**, 137-147, **2005**.
156. **A.R. Khoei and A. Bakhshiani**, 'A hypoelasto-viscoplastic endochronic model of numerical simulation of shear band localization', *Finite Elements in Analysis and Design*, **41**, 1384-1400, **2005**.
157. **A.R. Khoei, A.R. Tabarraie and S.A. Gharehbaghi**, 'H-adaptive mesh refinement for shear band localization in elasto-plasticity Cosserat continuum', *Communications in Nonlinear Science and Numerical Simulation*, **10**, 253-286, **2005**.
158. **A. Shamloo, A.R. Azami and A.R. Khoei**, 'Modeling of pressure-sensitive materials using a cap plasticity theory in extended finite element method', *Journal of Materials Processing Technology*, **164-165**, 1248-1257, **2005**.
159. **A.R. Khoei and A. Bakhshiani**, 'A hypoelasto-plastic finite strain simulation of powder compaction processes with density dependent endochronic model', *International Journal of Solids and Structures*, **41**, 6081-6110, **2004**.
160. **A.R. Khoei and A. Bakhshiani**, 'A constitutive model for finite deformation of endochronic plasticity in powder forming processes', *Journal of Materials Processing Technology*, **153-154**, 12-19, **2004**.

161. **A.R. Khoei, A.R. Azami and S.M. Haeri**, 'Implementation of plasticity based models in dynamic analysis of saturated-unsaturated earth and rockfill dams', *Computers and Geotechnics*, **31**, 385-410, **2004**.
162. **A. Bakhshiani, A.R. Khoei and M. Mofid**, 'A density-dependent endochronic plasticity for powder compaction processes', *Computational Mechanics*, **34** (1), 53-66, **2004**.
163. **A.R. Azami, A.R. Khoei and S.M. Haeri**, 'Application of cap plasticity model in dynamic analysis of saturated-unsaturated porous media', *International Journal of Nonlinear Modelling in Science & Engineering*, **2004**.
164. **A.R. Khoei, A. Bakhshiani and M. Mofid**, 'An implicit algorithm for hypoelasto-plastic and hypoelasto-viscoplastic endochronic theory in finite strain isotropic-kinematic-hardening model', *International Journal of Solids and Structures*, **40** (13-14), 3393-3423, **2003**.
165. **A.R. Khoei, A. Bakhshiani and M. Mofid**, 'Finite strain endochronic plasticity with reference to metal tube under torsion', *Engineering Computations*, **20** (3), 248-273, **2003**.
166. **A.R. Khoei, A. Bakhshiani and M. Mofid**, 'An endochronic plasticity model for numerical simulation of industrial powder compaction processes', *Communication in Numerical Methods in Engineering*, **19** (7), 521-534, **2003**.
167. **A.R. Khoei, A. Bakhshiani and M. Mofid**, 'An endochronic plasticity model for finite strain deformation of powder forming processes', *Finite Elements in Analysis and Design*, **40**, 187-211, **2003**.
168. **A. Bakhshiani, M. Mofid, A.R. Khoei and S.L. McCabe**, 'Finite strain simulation of thin-walled tube under torsion using endochronic theory of plasticity', *Thin-Walled Structures*, **41** (5), 435-459, **2003**.
169. **A.R. Khoei**, 'Application of a failure analysis in powder forming processes', *Journal of Materials Processing Technology*, **143-144**, 46-51, **2003**.
170. **A.R. Khoei and S. Iranfar**, '3D numerical simulation of elasto-plastic behaviour in powder compaction process using a quasi-nonlinear technique', *Journal of Materials Processing Technology*, **143-144**, 886-890, **2003**.
171. **A.R. Khoei, I. Masters and D.T. Gethin**, 'Numerical modelling of the rotary furnace in aluminium recycling processes', *Journal of Materials Processing Technology*, **139**, 567-572, **2003**.
172. **A.R. Khoei, A. Bakhshiani and M. Mofid**, 'Numerical simulation of powder compaction processes using an endochronic theory in finite plasticity model', *International Journal of Nonlinear Science and Numerical Simulation*, **4** (1), 17-30, **2003**.
173. **A.R. Khoei and S.A. Gharehbaghi**, 'Modelling of localized plastic deformation via the adaptive mesh refinement', *International Journal of Nonlinear Science and Numerical Simulation*, **4** (1), 31-46, **2003**.
174. **A.R. Khoei**, 'An integrated software environment for finite element simulation of powder compaction processes', *Journal of Materials Processing Technology*, **130-131**, 171-177, **2002**.
175. **A.R. Khoei, M. Mofid and A. Bakhshiani**, 'Modelling of powder compaction process using an endochronic plasticity model', *Journal of Materials Processing Technology*, **130-131**, 178-183, **2002**.
176. **A.R. Khoei**, 'PCS_SUT: A finite element software for simulation of powder forming processes', *Journal of Materials Processing Technology*, **125-126**, 602-607, **2002**.
177. **A. Bakhshiani, A.R. Khoei and M. Mofid**, 'An endochronic plasticity model for powder compaction processes', *Journal of Materials Processing Technology*, **125-126**, 138-143, **2002**.

178. **A.R. Khoei**, 'Numerical simulation of powder compaction processes using an inelastic finite element analysis', *Materials & Design*, **23** (6), 523-529, **2002**.
179. **A.R. Khoei**, **I. Masters** and **D.T. Gethin**, 'Design optimisation of aluminium recycling processes using Taguchi technique', *Journal of Materials Processing Technology*, **127** (1), 96-106, **2002**.
180. **A.R. Khoei** and **R.W. Lewis**, 'H-adaptive finite element analysis for localization phenomena with reference to metal powder forming', *Finite Elements in Analysis and Design*, **38**, 503-519, **2002**.
181. **R.W. Lewis** and **A.R. Khoei**, 'Numerical analysis of strain localization in metal powder forming processes', *International Journal for Numerical Methods in Engineering*, **52**, 489-501, **2001**.
182. **R.W. Lewis** and **A.R. Khoei**, 'A plasticity model for metal Powder forming processes', *International Journal of Plasticity*, **12**, 1659-1692, **2001**.
183. **R.S. Ransing**, **D.T. Gethin**, **A.R. Khoei**, **P. Mosbah** and **R.W. Lewis**, 'Powder compaction modelling via the discrete and finite element method', *Materials & Design*, **21**, 263-269, **2000**.
184. **A.R. Khoei** and **R.W. Lewis**, 'Adaptive finite element remeshing in a large deformation analysis of metal powder forming', *International Journal for Numerical Methods in Engineering*, **45**, 801-820, **1999**.
185. **A.R. Khoei** and **R.W. Lewis**, 'Finite element simulation for dynamic large elasto-plastic deformation in metal powder forming', *Finite Elements in Analysis and Design*, **30**, 335-352, **1998**.
186. **R.W. Lewis** and **A.R. Khoei**, 'Numerical modelling of large deformation in metal powder forming', *Computer Methods in Applied Mechanics and Engineering*, **159** (3-4), 291-328, **1998**.
187. **A.R. Khoei**, **R.W. Lewis** and **O.C. Zienkiewicz**, 'Application of the finite element method for localized failure analysis in dynamic loading', *Finite Elements in Analysis and Design*, **27**, 121-131, **1997**.
188. **A.R. Khoei** and **A.M. Kaynia**, 'Application of the boundary element method to three-dimensional dynamic solution of fluid-saturated porous media', *Journal of Technology and Engineering*, **15**, 1-16, **1995**.
189. **A.R. Khoei** and **A.M. Kaynia**, 'Application of the boundary element method to two-dimensional dynamic problems of saturated porous media', *Journal of Technology and Engineering*, **14**, 81-116, **1994**.
190. **A.R. Khoei** and **A.M. Kaynia**, 'Dynamic analysis of fluid-saturated porous media by boundary integral method', *Journal of Science and Technology*, **7**, 55-71, **1994**.

Conference Proceedings

191. **A.R. Khoei**, **S.M.S. Mortazavi**, **O. Rezaie Beydokhti** and **P. Pirmoradi**, 'Modeling the enhanced geothermal systems using the extended-FEM and an equivalent continuum model', *16th World Congress on Computational Mechanics and 4th Pan American Congress on Computational Mechanics (WCCM 2024)*, British Columbia, Canada, July **2024**.
192. **A.R. Khoei** and **S. Saeedmonir**, 'Multiscale modeling of coupled thermo-hydro-mechanical analysis of heterogeneous porous media with micro-dynamic effects', *9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2023)*, Athens, Greece, June **2023**, – Invited Speech.

193. **A.R. Khoei, S.M.S. Mortazavi, and P. Pirmoradi**, 'Modeling cold and hot water injection into naturally fractured porous media using the extended-FEM', *International Conference on Computational Methods for Coupled Problems in Science and Engineering (COUPLED PROBLEMS 2023)*, Crete, Greece, June **2023**.
194. **A.R. Khoei**, 'Recent achievements in computational modeling of hydraulic fracture propagation and proppant transport in fractured porous media', *12th National Congress on Civil Engineering (NCCE 2020)*, Tabriz, Iran, June **2020**, – **Invited Speech**.
195. **M. Vahab, Sh. Akhondzadeh, A.R. Khoei and N. Khalili**, 'An X-FEM investigation of deflection-penetration of hydro-fractures at material discontinuities', *Rock Dynamics Summit, A Specialized Conference of ISRM*, Okinawa, Japan, May **2019**.
196. **A.R. Khoei** 'Recent advances in numerical simulation of interacting discontinuities in naturally fractured porous media', *11th National Congress on Civil Engineering (NCCE 2019)*, Shiraz, Iran, May **2019**, – **Invited Speech**.
197. **N. Hosseini and A.R. Khoei**, 'Numerical modeling of density-driven solute transport in fractured porous media with the X-FEM', *11th National Congress on Civil Engineering (NCCE 2019)*, Shiraz, Iran, May **2019**.
198. **S.M.S. Mortazavi and A.R. Khoei**, 'Thermo-hydro-mechanical modeling of fractured deformable porous media with two-phase fluid flow using X-FEM technique', *11th National Congress on Civil Engineering (NCCE 2019)*, Shiraz, Iran, May **2019**.
199. **A.R. Raisi and A.R. Khoei**, 'A gradient-enhanced computational homogenization technique for multi-scale modeling of heterogeneous materials with softening behavior', *11th National Congress on Civil Engineering (NCCE 2019)*, Shiraz, Iran, May **2019**.
200. **S.M. Vokhshoorikoochi, A.R. Khoei and M. Jahanshahi**, 'A multi-scale method for nonlinear mechanical behaviour of nano-structures based on coarse-grained model', *16th European Mechanics of Materials Conference (EMMC16)*, Nantes, France, March **2018**.
201. **M. SalahiNezhad, A.R. Khoei and M.A. Sáadat** 'Multiscale modeling of cohesive crack growth based on XFEM and damage model', *11th International Congress on Civil Engineering (ICCE 2018)*, Tehran, Iran, May **2018**.
202. **M. Vahab, Sh. Akhondzadeh, A.R. Khoei and N. Khalili**, 'An enriched finite element technique for numerical simulation of hydro-fracture evolution in naturally-layered formations', *6th European Conference on Computational Mechanics (ECCM 6)*, Glasgow, UK, June **2018**.
203. **A.R. Khoei** 'Recent developments in XFEM modeling of hydraulic fracture propagation in heterogeneous reservoirs', *Shiraz University*, Shiraz, Iran, November **2017**, – **Invited Speech**.
204. **A.R. Khoei, M. Vahab and M. Hirmand**, 'Numerical simulation of interacting discontinuities in naturally fractured saturated porous media with X-FEM', *14th International Conference on Computational Plasticity (COMPLAS 2017)*, Barcelona, Spain, September **2017**.
205. **M. Vahab, A.R. Khoei and N. Khalili**, 'An X-FEM technique for simulation of hydraulic fracturing in impervious fractured domains; Numerical and experimental investigations', *6th International Conference on Coupled THMC Processes in Geosystems (GeoProc 2017)*, Paris, France, July **2017**.
206. **B. Bahmani and A.R. Khoei**, 'Modeling of thermo-mechanical contact problems in fractured domain with extended finite element method', *7th International Conference on Computational Methods for Coupled Problems in Science and Engineering (Coupled Problems 2017)*, Island of Rhodes, Greece, June **2017**.

207. **B. Bahmani** and **A.R. Khoei**, 'Modeling convective heat propagation in a fractured domain with X-FEM and least square method', ASME 2017 International Mechanical Engineering Congress & Exposition (IMECE2017), Tampa, USA, November **2017**.
208. **R. Akbari** and **A.R. Khoei**, 'A Computational homogenization method for modeling the Kapitza thermal resistance in heterogeneous materials', *10th National Congress on Civil Engineering (NCCE 2017)*, Tehran, Iran, April **2017**.
209. **M.A. Sáadat** and **A.R. Khoei**, 'Applicability of conventional multi-scale method for random heterogeneous structures in quasi-brittle materials', *10th National Congress on Civil Engineering (NCCE 2017)*, Tehran, Iran, April **2017**.
210. **Y. Navid Tehrani** and **A.R. Khoei**, 'Modeling of fracture behavior of RC arch structures strengthened by FRP laminates with a damage-plasticity model', *10th National Congress on Civil Engineering (NCCE 2017)*, Tehran, Iran, April **2017**.
211. **A.R. Khoei**, **A. Rezaei Sameti**, **H. Mofatteh** and **M. Babaei**, 'Compaction simulation of nano-crystalline metals with molecular dynamics analysis', *12th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2016)*, Troyes, France, July **2016**.
212. **F. Hosseinzadeh** and **A.R. Khoei**, 'Size variation of Gold nano-particles in aquatic environments', *Proceedings of the 6th International Conference on Nanostructures (ICNS6)*, Kish Island, Iran, March **2016**.
213. **A.R. Khoei** and **B. Bahmani**, 'Modeling the thermal conduction phenomenon at bimaterial interface with the X-FEM technique and Lagrange multipliers method', *24th Annual Conference on Mechanical Engineering (ISME 2016)*, Yazd, Iran, May **2016**.
214. **H. Ahmadi**, **N. Jafarian**, **AR Khoei** and **M Jahanshahi**, 'A multi-scale approach for analyzing the behavior of nano-materials with FCC structure in large deformation', *12th International Nanoscience and Nanotechnology Conference*, Turkey, June **2016**.
215. **H. Ahmadi**, **N. Jafarian**, **M Jahanshahi** and **AR Khoei**, 'Investigation of void shape effects on the mechanical behavior of FCC nano-crystal based on molecular dynamics simulation', *12th International Nanoscience and Nanotechnology Conference*, Turkey, June **2016**.
216. **N. Jafarian**, **H. Ahmadi**, **N. Heidarzadeh**, **AR Khoei** and **M Jahanshahi**, 'A hierarchical multi-scale technique for modeling heterogeneous nano-materials', *12th International Nanoscience and Nanotechnology Conference*, Turkey, June **2016**.
217. **N. Jafarian**, **H. Ahmadi**, **N. Heidarzadeh**, **AR Khoei** and **M Jahanshahi**, 'Investigation of the effect of intensive inclusion on nano-structures', *12th International Nanoscience and Nanotechnology Conference*, Turkey, June **2016**.
218. **A.R. Khoei** and **M. Babaei**, 'Molecular dynamics simulation of Nickel nano-powder compaction', *Proceedings of the 5th International Conference on Nanostructures (ICNS5)*, Kish Island, Iran, March **2014**.
219. **M. Vahab** and **A.R. Khoei**, 'Modeling hydraulic fracturing in pre-fractured porous media using the extended finite element method', *XFEM, GFEM and Fictitious Domain Methods: Recent Developments and Applications (XFEM 2013)*, Lyon, France, September **2013**.
220. **A.R. Khoei** and **Sh. Keshavarz**, 'Optimal design of hot powder compaction process via the genetic algorithm technique', *Advances in Materials and Processing Technologies (AMPT 2012)*, Wollongong, Australia, September **2012**.

221. **O.R. Barani** and **A.R. Khoei**, '3D modelling of cohesive fracture growth in semi-saturated porous media', *6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2012)*, Vienna, Austria, September **2012**.
222. **A.R. Khoei** and **P. Broumand**, 'Modelling the ductile fracture mechanics with non-local gradient damage plasticity model coupled with XFEM technique', *6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2012)*, Vienna, Austria, September **2012**.
223. **A.R. Khoei**, **Sh. Keshavarz** and **Z. Molaeinia**, 'Design optimization of hot forming process of metal powders via the genetic algorithm technique', *14th International Conference on Metal Forming*, Krakow, Poland, September **2012**.
224. **A.R. Khoei**, **S.O.R. Biabanaki** and **S.M. Parvaneh**, '3D dynamic modeling of large plastic deformations in powder die-pressing', *International Conference on Technology of Plasticity (ICTP 2011)*, Aachen, Germany, September **2011**.
225. **T. Mohamadnejad** and **A.R. Khoei**, 'Hydro-mechanical modeling of two-phase fluid flow in deforming, partially saturated porous media with propagating cohesive cracks using the extended-FEM method', *11th International Conference on Computational Plasticity (COMPLAS 2011)*, Barcelona, Spain, September **2011**.
226. **H. Moslemi** and **A.R. Khoei**, '3D modelling of damage growth and ductile crack propagation using adaptive FEM technique', *11th International Conference on Computational Plasticity (COMPLAS 2011)*, Barcelona, Spain, September **2011**.
227. **S.O.R. Biabanaki** and **A.R. Khoei**, 'A generalized finite element method for modelling arbitrary interfaces in large deformation problems', *11th International Conference on Computational Plasticity (COMPLAS 2011)*, Barcelona, Spain, September **2011**.
228. **A.R. Khoei**, **Sh. Keshavarz** and **Z. Molaeinia**, 'Modelling hot isostatic pressing of metal powder via a temperature-dependent cap plasticity model', *Advances in Materials and Processing Technologies (AMPT 2011)*, Istanbul, Turkey, July **2011**.
229. **A.R. Khoei**, **S.O.R. Biabanaki** and **S.M. Parvaneh**, 'Modelling of powder forming processes in transient-dynamic analysis of large plastic deformations', *Advances in Materials and Processing Technologies (AMPT 2011)*, Istanbul, Turkey, July **2011**.
230. **A.R. Khoei** and **L. Farrokhpour**, 'Modeling of discontinuities in unsaturated porous media using extended FEM technique', *International Conference on Computational Methods for Coupled Problems in Science and Engineering (Coupled Problems 2011)*, Kos Island, Greece, June **2011**.
231. **A.R. Khoei**, **T. Mohammadnejad** and **E. Haghghat**, 'Modeling of crack propagation and fluid flow in multi-phase porous media using a modified X-FEM technique', *International Conference on Extended Finite Element Methods (XFEM 2011)*, Cardiff, UK, June **2011**, – **Invited Speech**.
232. **P. Broumand** and **A.R. Khoei**, 'Modeling ductile fracture with damage plasticity using X-FEM technique', *International Conference on Extended Finite Element Methods (XFEM 2011)*, Cardiff, UK, June **2011**.
233. **A.R. Khoei**, **T. Mohammadnejad**, **E. Haghghat**, **M. Vahab**, **P. Borumand**, **M. Anahid**, **H. Azadi**, **H. Moslemi** and **O.R. Barani**, 'Modeling of fracture and crack propagation in structural and geotechnical problems with extended finite element method', *6th National Congress on Civil Engineering (NCCE 2011)*, Semnan, Iran, April **2011**, – **Invited Speech**.
234. **A.R. Khoei**, 'Modeling of failure and crack growth in earth-rockfill & concrete dams', *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran, February **2011**, – **Invited Speech**.

235. **S. Mohajeri, R. Eslahi, M. Zeinali and A.R. Khoei**, 'Solving contact problems with uplift using an efficient method to enforce nonlinear contact constraints in complex geometries', *International Conference on Computational Mechanics (AfriCOMP 2011)*, Cape Town, South Africa, January **2011**.
236. **A.R. Khoei, S.O.R. Biabanaki, M. Anahid and S.M. Taheri-Mousavi**, 'Extended finite element modeling of large plasticity deformations in metal forming processes', *Advances in Materials and Processing Technologies (AMPT 2010)*, Paris, France, October **2010**.
237. **A.R. Khoei, S.O.R. Biabanaki and S.M. Parvaneh**, 'Dynamic modeling of large plasticity deformations in powder compaction processes', *Advances in Materials and Processing Technologies (AMPT 2010)*, Paris, France, October **2010**.
238. **A.R. Khoei, S.M. Taheri-Mousavi, S.O.R. Biabanaki and M. Anahid**, 'An enriched-FEM technique for large frictional contact deformation', *13th International Conference on Metal Forming*, Toyohashi, Japan, September **2010**.
239. **M.J.A. Qomi, A. Aghaei and A.R. Khoei**, 'Modeling surface effect via boundary Cauchy-Born method', *16th US National Congress of Theoretical and Applied Mechanics (USNCTAM 2010)*, Pennsylvania, US, June **2010**.
240. **A. Aghaei, M.J.A. Qomi, W. Tayyeb and A.R. Khoei**, 'Boundary Cauchy-Born analysis of surface stress effects on nanowires', *16th US National Congress of Theoretical and Applied Mechanics (USNCTAM 2010)*, Pennsylvania, US, June **2010**.
241. **A.R. Khoei, S. Mohajeri and S.O.R. Biabanaki**, 'A new enriched-FEM technique in dynamic modelling of non-smooth contact problems', *4th European Conference on Computational Mechanics (ECCM 2010)*, Paris, France, May **2010**.
242. **A.R. Khoei and P. Broumand**, 'Modeling multiple crack problems with extended finite element method', *18th Annual Conference on Mechanical Engineering (ISME 2010)*, Tehran, Iran, May **2010**.
243. **A.R. Khoei and P. Broumand**, 'Modeling of ductile fracture with damage plasticity using the X-FEM technique', *5th National Congress on Civil Engineering (NCCE 2010)*, Mashad, Iran, May **2010**.
244. **A.R. Khoei, E. Ban, P. Banihashemi and M.J.A. Qomi**, 'Effects of temperature and twist speed on torsion of single-walled carbon nanotubes' *Proceedings of the 3rd Conference on Nanostructures (NS2010)*, Kish, Iran, March **2010**.
245. **A.R. Khoei, P. Ghahremani, P. Banihashemi and M.J.A. Qomi**, 'Stability and size-dependency of temperature-related Cauchy-Born hypothesis in three-dimensional applications' *Proceedings of the 3rd Conference on Nanostructures (NS2010)*, Kish, Iran, March **2010**.
246. **A.R. Khoei, Sh. Keshavarz and A.R. Khaloo**, 'Shape optimization of powder compaction processes via genetic algorithm technique' *Advances in Materials and Processing Technologies (AMPT 2009)*, Kuala Lumpur, Malaysia, October **2009**.
247. **A.R. Khoei, S.O.R. Biabanaki, S.M. Taheri-Mousavi and A.R. Vafa**, '3D contact modeling of large plastic deformation in powder forming processes', *Advances in Materials and Processing Technologies (AMPT 2009)*, Kuala Lumpur, Malaysia, October **2009**.
248. **A.R. Khoei and H. Moslemi**, '3D modeling of non-planar curved crack growth using modified-SPR technique and adaptive mesh strategy', *10th International Conference on Computational Plasticity (COMPLAS 2009)*, Barcelona, Spain, September **2009**.

249. **S.M. Taheri-Mousavi** and **A.R. Khoei**, 'Modeling of large deformation frictional contact using an augmented-Lagrangian X-FEM technique', *International Conference on Extended FEM (XFEM 2009)*, Aachen, Germany, September **2009**.
250. **A.R. Khoei** and **E. Haghghat**, 'Dynamic analysis of porous saturated media using the extended finite element method', *4th International Conference on Applications of Porous Media (ICAPM 2009)*, Istanbul, Turkey, August **2009**.
251. **A.R. Khoei** and **T. Mohamadnejad**, 'Dynamic modeling of multi-phase fluid flow in deforming porous media', *4th International Conference on Applications of Porous Media (ICAPM 2009)*, Istanbul, Turkey, August **2009**.
252. **O.R. Baranilonbani**, **A.R. Khoei** and **M. Mofid**, 'Modeling of dynamic cohesive fracture propagation in a multi-phase system', *4th International Conference on Applications of Porous Media (ICAPM 2009)*, Istanbul, Turkey, August **2009**.
253. **A.R. Khoei**, **H. Moslemi**, **M. Anahid**, **S.A. Gharehbaghi** and **M. Zarinfar**, 'SUT-DAM 3D: An integrated software environment for multi-disciplinary geotechnical engineering', *Workshop on Earthquake Preparedness and Management*, Irvine, US, June **2009**, – **Invited Speech**.
254. **A.R. Khoei** and **M. Hajibabae**, 'Failure modeling of brittle materials in dynamic loading via the Gurson plastic-damage model', *8th International Congress on Civil Engineering (ICCE 2009)*, Shiraz, Iran, May **2009**.
255. **A.R. Khoei**, **S.M. Taheri-Mousavi** and **S.O.R. Biabanaki**, 'Modeling of large frictional contact problems using augmented-Lagrange method', *8th International Congress on Civil Engineering (ICCE 2009)*, Shiraz, Iran, May **2009**.
256. **A.R. Khoei**, **M. Anahid** and **S.O.R. Biabanaki**, 'The X-ALE-FEM technique for moving boundaries in large plasticity deformations', *International Conference on Computational Mechanics (AfriCOMP 2009)*, Sun City, South Africa, January **2009**.
257. **A.R. Khoei**, **S.O.R. Biabanaki**, **M. Anahid** and **I. Yadegaran**, 'A mortared X-FEM technique for large deformation frictional contact', *International Conference on Computational Mechanics (AfriCOMP 2009)*, Sun City, South Africa, January **2009**.
258. **S.M. Taheri-Mousavi**, **S.O.R. Biabanaki** and **A.R. Khoei**, 'Modeling large plastic deformation of frictional contact in powder compaction process using the node-to-surface method and augmented-Lagrangian algorithm', *4th National Conference of Metals and Materials Forming (MATFORM 2008)*, Tehran, Iran, December **2008**.
259. **A.R. Khoei**, **H. Moslemi**, **S.O.R. Baranilonbani**, **T. Mohamadnejad**, **H. Azadi**, **A.R. Azami** and **M. Zarinfar**, 'Modeling of failure and crack growth in earth and rockfill dams', *2nd Workshop on Civil Engineering*, Tehran, Iran, November **2008**, – **Invited Speech**.
260. **A.R. Khoei**, **M. Anahid**, **H. DorMohammadi** and **K. Shahim**, 'An arbitrary Lagrangian-Eulerian technique for plasticity of pressure-sensitive material with reference to powder forming processes', *9th International Conference on Technology of Plasticity (ICTP 2008)*, Korea, September **2008**.
261. **A.R. Khoei**, **S.O.R. Biabanaki** and **M. Anahid**, 'Extended finite element modeling of large elasto-plastic deformations on arbitrary interfaces', *9th International Conference on Technology of Plasticity (ICTP 2008)*, Korea, September **2008**.

262. **A.R. Khoei, M. Anahid and S.O.R. Biabanaki**, 'Modeling of metal forming processes via the enriched X-ALE-FEM technique', *8th World Congress on Computational Mechanics (WCCM 2008)*, Venice, Italy, June 2008, – **Invited Speech**.
263. **A.R. Khoei, S.O.R. Biabanaki, I. Yadegaran and M. Anahid**, 'Extended finite element modelling of large deformation frictional contact', *8th World Congress on Computational Mechanics (WCCM 2008)*, Venice, Italy, June 2008.
264. **S. Mohajeri, P. Broumand, A.R. Khoei, M. Zeinali and L. Farrokhpour**, 'A more reliable finite element procedure via controlling the condition number of the system', *8th World Congress on Computational Mechanics (WCCM 2008)*, Venice, Italy, June 2008.
265. **A.R. Khoei, M. Anahid, S.O.R. Biabanaki, I. Yadegaran, K. Shahim, M. Nikbakht and A. Shamloo**, 'Application of advanced numerical methods in engineering problems', *4th National Congress on Civil Engineering (NCCE 2008)*, Tehran, Iran, May 2008, – **Invited Speech**.
266. **A.R. Khoei, M. Anahid, S.O.R. Biabanaki, I. Yadegaran, K. Shahim, M. Nikbakht and A. Shamloo**, 'An enriched finite element modeling for metal forming processes', *International Multi-Conference of Engineers and Computer Scientists (IMECS 2008)*, Hong Kong, March 2008.
267. **A.R. Khoei and H. DorMohammadi**, 'A three-invariant cap plasticity model with kinematic and anisotropic hardening rule for powder and granular materials', *9th International Conference on Computational Plasticity (COMPLAS 2007)*, Barcelona, Spain, Sept 2007.
268. **A.R. Khoei, S.O.R. Biabanaki and M. Anahid**, '3D modeling of large elasto–plastic deformation via the extended finite element method', *9th International Conference on Computational Plasticity (COMPLAS 2007)*, Barcelona, Spain, Sept 2007.
269. **M. Anahid, I. Yadegaran and A.R. Khoei**, 'Numerical modeling of large deformation frictional contact with the extended finite element method', *9th International Conference on Computational Plasticity (COMPLAS 2007)*, Barcelona, Spain, Sept 2007.
270. **A.R. Khoei, M. Anahid and K. Shahim**, 'An extended arbitrary Lagrangian-Eulerian finite element modeling (X-ALE-FEM) in large plasticity deformations', *9th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2007)*, Porto, Portugal, June 2007.
271. **A.R. Khoei, M. Anahid, I. Yadegaran and M. Nikbakht**, 'Implementation of the extended finite element method (X-FEM) in frictional contact problems', *9th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2007)*, Porto, Portugal, June 2007.
272. **K. Shahim, M. Anahid and A.R. Khoei**, 'Application of a new stress update procedure in arbitrary Lagrangian-Eulerian finite element modeling of large plasticity deformation', *3rd National Congress on Civil Engineering (NCCE 2007)*, Tabriz, Iran, May 2007.
273. **S. Yadegari and A.R. Khoei**, 'A three-dimensional plasticity model based on higher–order continuum theory in shear band localization with softening behavior', *3rd National Congress on Civil Engineering (NCCE 2007)*, Tabriz, Iran, May 2007.
274. **H. DorMohammadi and A.R. Khoei**, 'A single plasticity model with kinematic hardening rule for granular materials', *3rd National Congress on Civil Engineering (NCCE 2007)*, Tabriz, Iran, May 2007.
275. **A.R. Khoei, M. Anahid and K. Shahim**, 'An extended arbitrary Lagrangian-Eulerian finite element modeling (X-ALE-FEM) in powder forming processes', *3rd International Conference on Advanced Forming and Die Manufacturing Technology (AFDM 2006)*, Busan, Korea, Sep 2006.

276. **A.R. Khoei, H. DorMohammadi and A.R. Azami**, 'A three-invariant cap plasticity model with kinematic hardening rule for powder materials', *3rd International Conference on Advanced Forming and Die Manufacturing Technology (AFDM 2006)*, Busan, Korea, Sep **2006**.
277. **A.R. Khoei, A. Shamloo, M. Anahid and K. Shahim**, 'The extended finite element method (X-FEM) for powder forming problems', *11th International Conference on Metal Forming*, Birmingham, UK, Sep **2006**.
278. **A.R. Khoei and M. Nikbakht**, 'Contact friction modelling with the extended finite element method (X-FEM)', *11th International Conference on Metal Forming*, Birmingham, UK, Sep **2006**.
279. **A.R. Khoei, M. Anahid, K. Shahim and A. Shamloo**, 'A new technique based on the extended finite element method in simulation of powder compaction processes', (*ICMM 2006*), Malaysia, March **2006**.
280. **A.R. Khoei and M. Nikbakht**, 'Modeling of contact friction using an enriched FE technique without meshing contact surface', (*ICMM 2006*), Malaysia, March **2006**.
281. **A.R. Khoei, M. Anahid, A.R. Azami and A. Shamloo**, 'An extended finite element method for compaction simulation of powder forming processes using a three-invariant cap plasticity', *9th International Conference on Material Forming (ESAFORM 2006)*, Glasgow, UK, April **2006**.
282. **A.R. Khoei and A.R. Azami**, 'A three-invariant hardening cap plasticity for computational modelling of powder compaction process', *3rd MIT Conference on Computational Fluid and Solid Mechanics*, MIT, Massachusetts, USA, June **2005**.
283. **M. Samimi and A.R. Khoei**, 'Application of RKPM in numerical simulation of powder forming processes using cap plasticity model', in: Owen, D.R.J. et al. (eds.), *Computational Plasticity: Fundamentals and Applications*, CIMNE, Barcelona, **2**, pp. 966-969, **2005**.
284. **A. Shamloo, A.R. Azami and A.R. Khoei**, 'Modeling of pressure-sensitive materials using a cap plasticity theory in extended finite element method', *International Conference on Advances in Materials and Processing Technologies (AMPT 2005)*, Gliwice, Poland, May **2005**.
285. **A.R. Khoei, A.R. Azami and A.S. Khan**, 'Hardening plasticity models for deformation of porous and granular materials', *11th International Symposium on Plasticity and Its Current Application*, Kauai, Hawaii, January **2005**.
286. **A.R. Khoei and A. Shamloo**, 'Implementation of extended finite element method in pressure-sensitive material using cap plasticity model', *3rd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2004)*, Seoul, Korea, September **2004**.
287. **A.R. Khoei and M. Nikbakht**, 'Computational modelling of frictional contact with extended finite element method', *3rd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2004)*, Seoul, Korea, September **2004**.
288. **A.R. Azami and A.R. Khoei**, 'A generalized cap plasticity model for cold compaction of powder forming processes', *4th International Conference on Engineering Computational Technology (ECT 2004)*, Lisbon, Portugal, September **2004**.
289. **A.R. Khoei and M. Samimi**, 'Application of RKPM in numerical simulation of pressure-sensitive material using cap plasticity model', *4th International Conference on Engineering Computational Technology (ECT 2004)*, Lisbon, Portugal, September **2004**.
290. **H.R. Irannejad and A.R. Khoei**, 'FE analysis of bond for smooth FRP rods embedded in concrete', *XXI International Congress of Theoretical and Applied Mechanics (ICTAM 2004)*, Warsaw, Poland, August **2004**.

291. **A.R. Khoei, M. Anahid, A.R. Azami and S. Azizi**, 'An arbitrary Lagrangian-Eulerian finite element method for cone-cap plasticity; Application to powder compaction simulation', *4th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2004)*, Jyväskylä, Finland, July **2004**.
292. **H.R. Irannejad and A.R. Khoei**, 'Numerical modelling of mechanical interaction of lugged FRP rods with concrete', *2nd International Conference on Structural Engineering, Mechanics and Computation (SEMC 2004)*, Cape Town, South Africa, July **2004**.
293. **A.R. Khoei and S. Azizi**, 'Computational modelling of 3D Powder Compaction Processes', *3rd International Conference on Advanced Manufacturing Technology (ICAMT 2004)*, Kuala Lumpur, Malaysia, May **2004**.
294. **M. Samimi and A.R. Khoei**, 'Application of RKPM in numerical simulation of pressure-sensitive material using cap plasticity model', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
295. **A. Shamloo and A.R. Khoei**, 'Application of extended finite element method (XFEM) in double-surface plasticity model', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
296. **S. Azizi and A.R. Khoei**, '3D simulation of elasto-plastic behaviour of pressure-sensitive material using cap plasticity model', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
297. **M. Anahid and A.R. Khoei**, 'Application of arbitrary Lagrangian-Eulerian method in numerical modelling of large elasto-plastic deformation', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
298. **N. Jamali, A.R. Khoei and S.M. Haeri**, 'An application of multi-surface plasticity in numerical modelling of soil shear behaviour', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
299. **S. Abrishami, A.R. Khoei and S.M. Haeri**, 'Numerical modelling of unsaturated soils', *1st National Congress on Civil Engineering (NCCE 2004)*, Tehran, Iran, May **2004**.
300. **S. Azizi and A.R. Khoei**, '3D simulation of powder compaction processes using cap plasticity theory', *2nd Conference on Material and Forming Processes (MATFORM 2004)*, Tehran, Iran, May **2004**.
301. **A.R. Khoei and H.R. Irannejad**, 'FE modelling of mechanical interaction of lugged FRP rods with concrete; Comparison between experiment and simulation', *Advanced Polymer Composites for Structural Applications in Construction (ACIC 2004)*, Surrey, UK, April **2004**.
302. **A.R. Khoei, S. Azizi and A.R. Azami**, '3D numerical modelling of powder compaction processes using a cap plasticity theory', *12th International Scientific Conference on Achievements in Mechanical and Materials Engineering (AMME 2003)*, Zakopane, Poland, 455-458, **2003**.
303. **A.R. Khoei, M. Anahid and M. Mofid**, 'An application of arbitrary Lagrangian-Eulerian method in numerical simulation of forming processes using cap plasticity model', *12th International Scientific Conference on Achievements in Mechanical and Materials Engineering (AMME 2003)*, Zakopane, Poland, 451-454, **2003**.
304. **A.R. Khoei and A. Riahi**, 'Remeshing technique and data transfer in adaptive analysis of localization problems', *5th EUROMECH Solid Mechanics Conference (ESMC 2003)*, Thessaloniki, Greece, August **2003**.
305. **A.R. Khoei and A. Bakhshiani**, 'A constitutive model for finite deformation of endochronic plasticity in powder forming processes', *International Conference on Advances in Materials and Processing Technologies (AMPT 2003)*, Dublin, Ireland, July **2003**.

306. **A.R. Azami, S.M. Haeri and A.R. Khoei**, 'Implementation of plasticity based models in dynamic analysis of saturated and unsaturated porous media', *MIT Conference on Soil and Rock America 2003*, Massachusetts, USA, June **2003**.
307. **A.R. Khoei and S.A. Gharehbaghi**, 'Adaptive mesh refinement in modelling of localization problems', *6th International Conference on Civil Engineering (ICCE 2003)*, Isfahan, Iran, May **2003**.
308. **A.R. Khoei and A.R. Tabarraie**, 'Finite element analysis of strain localization in elasto-plastic Cosserat continuum', *6th International Conference on Civil Engineering (ICCE 2003)*, Isfahan, Iran, May **2003**.
309. **S.M. Haeri, A.R. Khoei and A.R. Azami**, 'Plasticity models for nonlinear behaviour of saturated and semi-saturated porous media', *6th International Conference on Civil Engineering (ICCE 2003)*, Isfahan, Iran, May **2003**.
310. **A. Vafai, A.R. Khoei and H.R. Irannejad**, 'FE analysis of mechanical interaction of fibre reinforced polymer (FRP) with concrete', *6th International Conference on Civil Engineering (ICCE 2003)*, Isfahan, Iran, May **2003**.
311. **A.R. Khoei and A. Bakhshiani**, 'A hypoelasto-viscoplastic endochronic model of numerical simulation of shear band localization', *7th International Conference on Computational Plasticity (COMPLAS 2003)*, Barcelona, Spain, April **2003**.
312. **A.R. Khoei, A.R. Tabarraie and S.A. Gharehbaghi**, 'Modelling of localized plastic deformation via the adaptive mesh refinement', *7th International Conference on Technology of Plasticity (ICTP 2002)*, Yokohama, Japan, October **2002**.
313. **A.R. Khoei, M. Mofid and A. Bakhshiani**, 'A computational plasticity model based on endochronic theory for powder forming processes', *7th International Conference on Technology of Plasticity (ICTP 2002)*, Yokohama, Japan, October **2002**.
314. **A. Bakhshiani, A.R. Khoei and M. Mofid**, 'On numerical modelling of industrial powder compaction processes for large deformation of endochronic plasticity at finite strains', *10th International Manufacturing Conference in China (IMCC 2002)*, Hong Kong, October **2002**.
315. **A.R. Khoei and S. Keshavarz**, 'The design of a graphical user environment for numerical simulation of powder forming processes', *10th International Manufacturing Conference in China (IMCC 2002)*, Hong Kong, October **2002**.
316. **A.R. Khoei, S.M. Haeri and A.R. Azami**, 'A dynamic analysis of saturated porous media using a cap plasticity model', *3rd International Conference on Geotechnical Engineering and Soil Mechanics*, Tehran, Iran, 161-169, **2002**.
317. **A.R. Khoei and A.R. Tabarraie**, 'Numerical simulation of strain localization using a Cosserat continuum theory', *2nd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2002)*, Pusan, Korea, August **2002**.
318. **A.R. Khoei and S.A. Gharehbaghi**, 'Adaptive finite element modelling of shear banding with reference to concrete dams', *2nd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2002)*, Pusan, Korea, August **2002**.
319. **A. Bakhshiani, A.R. Khoei and M. Mofid**, 'Numerical modelling of powder forming processes using an endochronic plasticity theory', *First Conference on Material and Forming Processes (MATFORM 2002)*, Tehran, Iran, 115-122, **2002**.

320. **A.R. Khoei** and **S. Iranfar**, 'An inelastic finite element analysis for modelling of powder forming processes', *6th International and 10th Annual Conference of Iranian Society of Mechanical Engineers (ISME'2002)*, Tehran, Iran, 180-186, **2002**.
321. **H.M. Shodja**, **A.R. Khoei** and **A.R. Salimi**, 'Computation of elastic fields for interfacial cracks using element free Galerkin method', *6th International and 10th Annual Conference of Iranian Society of Mechanical Engineers (ISME'2002)*, Tehran, Iran, 497-504, **2002**.
322. **A.R. Khoei**, **M. Mofid** and **A. Bakhshiani**, 'Simulation of powder forming processes using an endochronic theory in finite deformation plasticity', *10th Jubilee International Scientific Conference on Achievements in Mechanical and Materials Engineering (AMME 2001)*, Cracow, Poland, 273-276, **2001**.
323. **A.R. Khoei**, 'Application of a failure analysis in powder forming processes', *International Conference on Advances in Materials and Processing Technology (AMPT 2001)*, Madrid, Spain, September **2001**.
324. **A.R. Khoei** and **S. Iranfar**, '3D numerical simulation of elasto-plastic behaviour in powder compaction process using a quasi-nonlinear technique', *International Conference on Advances in Materials and Processing Technology (AMPT 2001)*, Madrid, Spain, September **2001**.
325. **A.R. Khoei**, 'Failure and localization in powder forming processes', *7th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2001)*, Toyohashi, Japan, June **2001**.
326. **A.R. Khoei** and **A. Bakhshiani**, 'Modelling of powder compaction using an endochronic plasticity model in finite element method', *7th European Conference on Advanced Material and Processes (EUROMAT 2001)*, Rimini, Italy, June **2001**.
327. **A.R. Khoei**, **I. Masters** and **D.T. Gethin**, 'The application of Taguchi method through a historical data analysis in process optimisation of aluminium recycling', *7th European Conference on Advanced Material and Processes (EUROMAT 2001)*, Rimini, Italy, June **2001**.
328. **A.R. Khoei**, 'An adaptive FE simulation for localized failure analysis of elasto-plastic solids', *1st International and 3rd Biennial Conference of Iranian Aerospace Society (AERO'2000)*, Sharif University of Technology, Tehran, Iran, **4**, pp. 303-312, **2000**.
329. **A.R. Khoei**, **I. Masters** and **D.T. Gethin**, 'Historical data analysis in quality improvement of aluminium recycling process', *2000 TMS Fall Extraction and Process Metallurgy Meeting: New Technology for the Next Millennium*, Pennsylvania, USA, pp. 1063-1074, October **2000**.
330. **A.R. Khoei**, 'Mechanical behaviour of powders during compaction process', *4th Annual Conference of Iranian Society of Metallurgy Engineers (METALLURGY'2000)*, University of Tehran, Tehran, Iran, pp. 987-994, October **2000**.
331. **A.R. Khoei**, **I. Masters** and **D.T. Gethin**, 'Numerical modelling of the rotary furnace in aluminium recycling processes', *IMCC'2000 International Manufacturing Conference in China: Innovation and Technology for the New Millennium*, Hong Kong, China, pp. 261-263, August **2000**.
332. **A.R. Khoei** and **R.W. Lewis**, 'Numerical modelling of metal powder forming processes', *4th International and 8th Annual Conference of Iranian Society of Mechanical Engineers (ISME'2000)*, Sharif University of Technology, Tehran, Iran, pp. 201-207, May **2000**.
333. **A.R. Khoei**, **R.W. Lewis** and **D.T. Gethin**, 'Numerical modelling and localized failure analysis in metal powder forming processes', *Proc. 2nd Int. Conference on Intelligent Processing and Manufacturing of Materials (IPMM'99)*, Honolulu, Hawaii, July **1999**.

334. **A.R. Khoei, D.T. Gethin and I. Masters**, 'Design optimisation of aluminium recycling process using Taguchi approach', *Proc. 2nd Int. Conference on Intelligent Processing and Manufacturing of Materials (IPMM'99)*, Honolulu, Hawaii, July **1999**.
335. **R.W. Lewis and A.R. Khoei**, 'Numerical analysis of strain localization in metal powder forming processes', *Proc. European Conference on Computational Mechanics (ECCM'99)*, Munich, Germany, September **1999**, – **Invited Speech**.
336. **Masters, A.R. Khoei and D.T. Gethin**, 'The application of Taguchi methods to the aluminium recycling process', *Proc. 4th Int. Conference and Exhibition on the Recycling of Metals*, Vienna, Austria, June **1999**.
337. **A.R. Khoei and R.W. Lewis**, 'Modelling of powder compaction processes via the displacement formulation and adaptive analysis', in: Huetink, J. and Baaijens, F.P.T., *Simulation of Materials Processing: Theory, Methods and Applications (NUMIFORM 98)*, A.A. Balkema, Rotterdam, pp. 385-390, **1998**.
338. **A.R. Khoei and R.W. Lewis**, 'Numerical simulation of elasto-plastic analysis in metal powder forming using adaptive methods', in: Idelsohn, S.R. et al. (eds.), *Proc. 4th World Congress on Computational Mechanics (WCCM IV)*, Buenos Aires, Argentina, **1998**.
339. **A.R. Khoei and R.W. Lewis**, 'Finite element modelling using adaptive analysis in metal powder forming processes', *Proc. 6th ACME-UK Conference on Computational Mechanics*, Exeter, pp. 97-100, **1998**.
340. **A.R. Khoei and R.W. Lewis**, 'Finite element modelling of large elasto-plastic deformation for the dynamic analysis of powder compaction processes', in: Owen, D.R.J. et al. (eds.), *Computational Plasticity: Fundamentals and Applications*, CIMNE, Barcelona, **2**, pp. 1329-1334, **1997**.
341. **A.R. Khoei and R.W. Lewis**, 'A large displacement finite element formulation for dynamic powder compaction problems', *Proc. 5th ACME-UK Conference on Computational Mechanics*, London, pp. 112-115, **1997**.
342. **N.P. Lavery, A.R. Khoei, A.K. Ariffin, R.S. Ransing, I. Cameron, D.T. Gethin and R.W. Lewis**, 'Powder compaction modelling: A comparison of two strategies', *Proc. Int. Workshop on Modelling of Metal Powder Forming Processes*, Grenoble, France, pp. 219-227, **1997**.
343. **R.S. Ransing, I. Cameron, N.P. Lavery, A.R. Khoei, R.W. Lewis and D.T. Gethin**, 'Powder compaction modelling and material characterisation', *Proc. Int. Workshop on Modelling of Metal Powder Forming Processes, Grenoble, France*, pp. 189-201, **1997**.
344. **A.R. Khoei**, 'Prediction of localization phenomenon in dynamic loading using finite element method', *4th Conference of Civil Engineering in U.K.*, Manchester, February **1996**.
345. **A.R. Khoei and A.M. Kaynia**, 'Dynamics of Rigid Foundations on Fluid-Saturated soil', *Proc. 3rd Int. Conf. in Geotech. Earthq. Eng. and Soil Dyn.*, Missouri, USA, **1**, No. 5.05, pp. 365-368, **1995**.
346. **A.R. Khoei and A.M. Kaynia**, 'Dynamic Analysis of Fluid-Saturated Porous Media by BEM', *Proc. 2nd Asian-Pacific Conf. Computational Mech.*, Sydney, Australia, **1**, pp. 555-560, **1993**.
347. **A.M. Kaynia and A.R. Khoei**, 'Impedance Functions of Strip Foundation on Fluid-Saturated Porous Media', *Proc. 10th World Conf. Earthq. Eng.*, Madrid, Spain, **3**, pp. 1967-1972, **1992**.