邢会林教授简历

中国海洋大学海底科学与工程计算国际中心主任
海底科学与探测技术教育部重点实验室/海洋地球学院
澳大利亚昆士兰大学地球与环境科学学院

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个人基本情况

- 性别：男
- 出生年月：1965 年 09 月
- 籍贯：山东博兴
- 民族：汉
- 健康状况：优良
- 社会兼职：中南大学荣誉教授，北京交大兼职教授
- 主要研究领域：超级计算地学及其地质与资源工程应用
- 最高学历：博士
- 专业及研究方向：材料科学与工程(计算工程科学)
- 毕业院校：哈尔滨工业大学
- 毕业时间：1995 年 3 月
- 中国自然科学基金海外杰青获得者
- 亚太地震仿真合作组织澳方负责人；

教育背景

- 博士　哈尔滨工业大学　材料科学与工程（计算工程科学）　1992.03-1995.03
- 硕士　哈尔滨工业大学　材料工程　1989.09-1992.03
- 学士　哈尔滨工业大学　材料工程　1985.09-1989.07
- 博士后日本理化学研究所(RIKEN, 相当于中科院)　计算工程科学　1995.11-1997.11

主要工作经历

- 2018.10 -　中国海洋大学　教授（筑峰）
- 2010.06 –　澳大利亚昆士兰大学地学计算中心　主任研究员
- 2004.09-2010.05　澳大利亚昆士兰大学地学计算中心　高级研究员
- 2002.02-2004.08　澳大利亚昆士兰大学地学计算中心　研究员
- 1997.11-2002.01　日本理化研究所（RIKEN, 相当于中科院）　研究员
- 1995.11-1997.11　日本理化研究所（RIKEN）　博士后

主要研究方向

- 结合地球数字化发展趋势，将数值模拟、超级计算与固体地球科学、地质及资源工程应用相结合；
- 多尺度多相/多组分多物理场(THMC 含生化) 非线性耦合计算理论（多尺度：孔隙到全球; M3-Multiscale Multiphase Multuiphysical Geocomputing）
- 超级计算机上构筑针对于固体地球科学及工程的高性能虚拟实验室 - 有限元及 LBM 计算与分析软件平台 PANDAS；
- 局部典型地区或全球规模地壳动力学行为模拟，如某些典型天然或人工工程导致的地震过程孕育、发生、传播的数值模拟及其相关灾害评估、预测；终极目标：**数值地震预报**
- 数字岩心及非常规油气储层增渗改造（如水力压裂、酸化驱、生物驱、冲击波驱等）的数值模拟分析及优化；
- 非常规资源及深部地下工程开发的分析与评估，如干热岩发电、非常规油气开采、原煤微生物产气、深部地下工程及金属钨、铀等成矿成藏机理及“甜点”预测等；
- 海啸过程数值模拟及预警；
- 材料成形及部件组装的数值模拟及分析。

主要科研成果

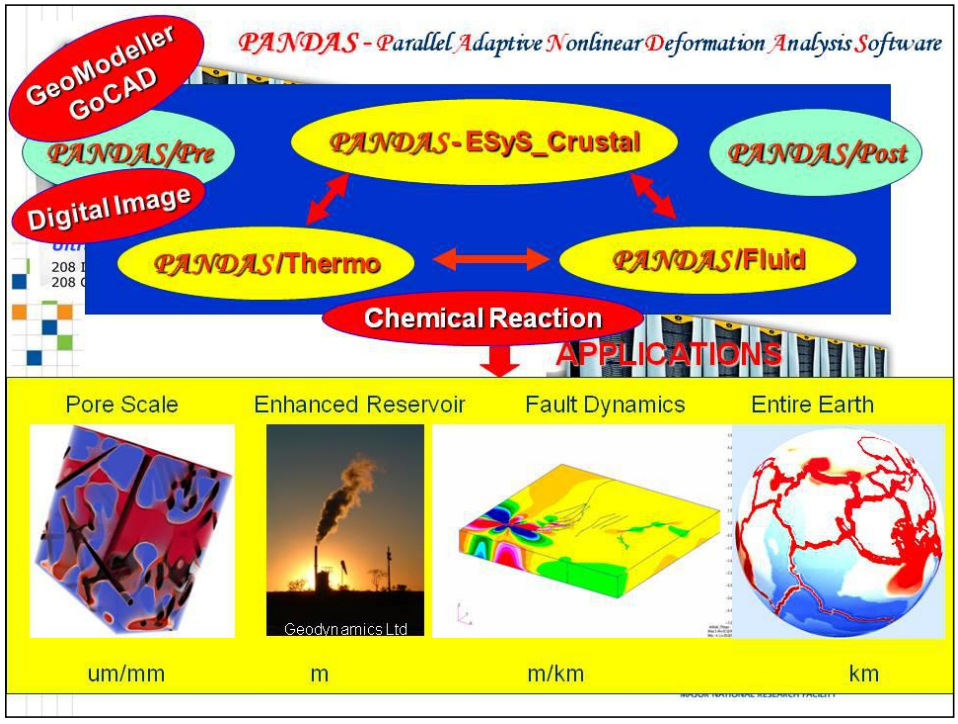
- 基于有限元及 LBM（Lattice Boltzmann Method）方法，在超级计算机上创建以固体地球科学及相关地质及资源工程为主要研究

对象的多尺度多物理场耦合计算理论及高性能软件平台 PANDAS（见下图）。其中的部分模块是日本国家科技优先发展重大项目“地球模拟器”及澳大利亚计算地球系统科学（ACcESS）国家研究设施的基础应用软件，成为相关软件平台创建升级的基础。所开发的理论模型及软件将数值模拟、计算机技术与地球动力学相结合，成为昆大地学计算中心，澳大利亚计算地球国家研究设施 ACcESS (Australian Computational Earth System Simulator，Major National Research Facility)，亚太地震仿真国际合作组织 ACES(APEC Cooperation on Earthquake Simulation) 及 iSERVO(International Solid Earth Research Virtual Observatory)在高性能计算机上创建以地球动力学及地质工程为主要研究对象的虚拟平台的基础软件，并通过对相关典型科学与工程问题进行研究得以验证；

- 提出了基于 R-minimum 方案的自适应的动/静相结合有限元方法以稳定高效地模拟多时间尺度的非线性动力学现象，给出了模拟多孔介质多尺度热-力-流体-地化反应（含生化）多场耦合非线性问题的稳定的高性能计算模型，彻底解决了传统方法模拟非线性问题的收敛性难题，并应用于地质资源工程及原煤微生物产气过程的模拟与分析；
- 提出了基于 R-minimum 方案的任意形状接触面上的节点到点接触单元，以模拟多种非均质材料变形体间、变形体与刚性体间的一系列与速率、位移、接触、压力及温度等相关的非线性摩擦接

触问题；已成功应用于典型断层系统（如川滇、苏门答腊、南加州及南澳地区）的地震动力学、非连续非均质材料等非等温大变形过程等的模拟与分析；

- 开展了基于图像大数据的内部特征信息提取及自动自适应网格化处理研究，成功应用于岩石三维 CT/MRI/SEM 等图像的处理（如 10 亿像素点，内含数十条相交叉大裂隙面）、内部复杂裂隙面的自动识别与提取、简化及其空间面三角化，并以此为约束生成可用于有限元计算的三维四面体网格；同时实现了任意断层系统或岩石切片图像的四边形及相应准三维六面体有限元网格的自动生成与计算；



图：所研发的 PANDAS 或 ESyS_Crustal 软件及部分应用

- 基于地质材料的非均质多样性，提出了修正的 LBM（Lattice

Boltzmann Method）以定量计算含多种矿物的多孔或裂隙材料的流体流动及化学反应等动态行为，并对数字岩心尺寸对上述流动行为进行敏感性分析,从而得到其 4D 渗透系数;同时结合 CT/SEM 成像数据及实验，应用于 CO2 注入砂岩岩心和煤样的酸化增渗处理的数值模拟、分析验证及评估;

- 成功应用于数字岩心的多尺度分析，非常规油气储层增渗改造（如水力压裂、酸化驱、生物驱、冲击波驱等）的模拟分析及优化;
- 应用于固体地球科学及地质资源工程多尺度描述和多场耦合分析。不仅提供了为定量化研究大规模地球动力学等典型科学及工程问题从而进行相应的灾害评估及管理所必需的科学与技术保障（断层系统动力学、地震及海啸；固体地球相关的能源开发及利用：如干热岩发电的地下库区评估，非常规油气开发，CO2 地质埋藏，微生物制气，煤层开采等深部工程；钨、铀等金属矿成矿机理及评估），而且也已成为进行相关国内外科研合作的平台；
- 科研工作获近 20 项国家和国际项目等资助,总计经费$2300 万（其中$320 万为第一负责人）；作为主要成员参与并负责日本地球模拟器（主要成员）、澳大利亚计算地球科学国家研究设施（项目五的负责人）、AuScope（ESyS_Crustal 负责人）和 iSERVO 国际研究院起动项目（澳方负责人）等重大项目相关计算模型及软件开发， 取得许多前沿性的研究成果；7 次国际会议特邀报告和主题报告，多次国际会议/分会组织者、主席；发表论文 160 余篇，包

括编著 2 本（Springer）, SCI 国际期刊论文 70 篇;

- 由于系横跨固体地球科学、岩土及资源工程、力学、计算机科学、软件工程等多学科的交叉领域，培养了一支既懂地球科学与地质资源工程又懂计算理论、分析及软件研发的创新型复合型人才队伍， 其中博士 15 名（澳大利亚政府全额奖学金获得者 3 人），博士后 4 人。同时，也是中澳合作研究的积极推动者和践行者，其中至今已接收并资助来自中国 30 所大学和研究单位的访问学者学生 50 人（6 个月以上）。
- 申请人和他的团队在国际计算地学及应用领域取得了令人瞩目的研究成果，曾多次被昆士兰大学，澳洲国家及国际新闻媒体报道（如 ABC News - 相当于 CCTV 新闻等，SBS news -相当于 CCTV 国际频道, The Australian – 相当于人民日报，Sky News）。

主要科研项目

澳大利亚工作期间国家及国际外部项目（16）如下， 此外获大学内部项目 3 项。

1. 负责澳大利亚地壳动力学计算模拟及相关软件的研究开发工作，该项目是澳大利亚计算地球系统科学（ACcESS）国家研究设施的项目（项目资金：$2.0M；ACcESS $14.8M, 项目时间： 2002-2007; ACcESS – Australian Computational Earth System Simulator, Major National Research Facility） （注：M – 百万，下同）；
2. 作为项目第一申请人负责了澳洲研究委员会（ARC-Australian Research Council）和 the Geodynamics Ltd 的 ARC Linkage 合作项目：用超级计算机对干热岩地热系统进行模拟及评估（项目资金：现金$440,000，项目时间：2005-2011）
3. 作为项目唯一申请人负责了 ARC Discovery 项目：建立海啸发生原理模型（项

目资金：$275,000，项目时间：2006-2011）

4. 负责了澳大利亚国家基础设施 AuScope NCRIS 项目中的地壳动力学模拟研究（项目资金：NCRIS 现金$352,000，项目时间：2007-2011; AuScope NCRIS）
5. 作为项目第一申请人负责了 ARC 国际项目 (ARC Linkage International)：多尺度模拟研究考虑变形的多孔介质模型（项目资金：$107,000，项目时间：2009-2011）
6. 子项目负责人：印度地质条件下的边墙开采设计和规范，澳大利亚-印度政府国际合作项目 （2014-2016）
7. 项目负责人：华北克拉通北缘铀多金属矿化流体动力学数值模拟，中核集团北京核地院国际合作项目，（$65,000. 2015-2016）
8. 项目负责人之一 ARC Discovery 项目：多相多尺度模拟考虑变形的多孔介质模型（项目资金：$440,000，项目时间：2011-2015）
9. 项目负责人之一 ARC Discovery 项目： Mudstones as methane sources: gas production from coal seam interburden（项目资金：$310,000，项目时间：2015-至今）
10. 项目负责人之一工业联合促进项目：提高煤层气产出的压裂增渗技术研究，（$75000，2012-2014），由昆大，QGC(昆士兰煤层气公司)和中石油联合资助。
11. 参与 ANLEC （Australian National Low Emissions Coal Research & Development- 澳大利亚国家低排放煤炭研究与发展）项目并负责孔隙尺度部分，用 CO2 埋藏储层的四维表征方法，风险评估和成本降低的相关方法研究（项目资金：$600,000，项目时间：2011-2015）
12. 负责中国自然科学基金 2007 年度海外杰青项目（40 万元; 2008-2010）
13. 中国自然科学基金委的重点项目（海外人员）：建立对饱和流体的多孔介质进行机理分析的多级模型和计算方法（项目资金： 3.0 百万元，项目时间：2013-2017）
14. 作为海外人员参与了项目石英脉型黑钨矿“五层楼”式垂直行态分带动力学机理研究，该项目为中国自然科学基金委资助项目（项目资金：86 万元，项目时间：2014-2016）
15. 澳方负责人，国际固体地球虚拟研究合作平台项目，负责建立澳大利亚区内

陆板块断层模型和相关模拟软件的研发。

16. 负责人，国际著名岩土工程集团公司 Coffey 咨询项目，活火山口附近露天金矿开发的多相流体流动及其对工程设计的影响(2009-2010)
17. 数值模拟部分负责人：参与 Smart Future 项目并负责模拟部分，废弃煤中生物产气的研究（项目资金：$1.2M，项目时间：2012-2016）
18. 四个负责人之一， Queensland node of AuScope ($4.8M, 2007-2011), (AuScope - An Organisation for a National Earth Science Infrastructure Program).

日本理研工作期间（3）：

19. 曾参与日本国家科技优先发展重大项目“地球模拟器”（$400M，并负责了相关地震动力学软件的研发工作；
20. 参与并负责了日本科技厅项目“核电站基础研究”中的子项目；
21. 曾参与日本 30 多家著名公司共同资助的日本板材成形研究会重大项目：汽车覆盖件的成形仿真系统的研发；

中国哈工大学习工作期间国家项目（4）：

国家自然科学基金（1），原航天部科技项目（1），863 项目（1），国家教委博士基金（1）

主要社会兼职及荣誉

1. 中国国家自然科学基金海外杰出青年基金获得者(项目批准号：40728004)，荣获海外杰出青年称号;
2. 亚太地震仿真国际合作组织澳方负责人
3. 澳大利亚计算地球系统国家研究设施计算地壳动力学负责人
4. 澳洲研究委员会（ARC-Australian Research Council）项目评阅人 （DP, LP, DECRE, Fellowship, LEIF 等）
5. 美国物理学协会和中国理论和应用力学协会联合出版的“理论和应用力学快报”的编辑委员会创刊成员 （创刊至今）；国际期刊 Petroleum 编辑委员会成员
6. 中南大学、重庆大学、成都理工大学荣誉教授; 北京交通大学兼职教授。

7. 北京大学，北京核地院，中国地震局及日本东京大学等短期访问专家

主要论著清单

论著共 180 余篇，主要的文章清单如下。其中，*是指导的学生为第一作者，#是指导的年轻博士后或访问学者为第一作者。未有特殊标记的本人第一作者论文，同时也是通讯作者。

书 Scholarly Books

1. Xing, Huilin and Xu, Xiwei. M8.0 Wenchuan Earthquake, 2011, 191 p., Hardcover. Springer-Verlag Berlin Heidelbergm. ISBN 978-3-642-01875-6.
2. Xing, Huilin, Advances in Geocomputing. Springer-Verlag Berlin Heidelbergm, 2009, 325 p. 124 illus. with DVD., Hardcover, ISBN: 978-3-540-85877-5_
3. Xing, H. L and Wang, J. H (Ed). Geodynamic Modeling, A Special Issue of Acta Geotechnica, Number 2, 2009. Springer Berlin/Heidelbergm(for the selected papers presented in IACGG2007 - International Workshop on Advances in Computational Geomechanics and Geophysics).

书中的章节 Scholarly Book Chapters:

4. Xing, H. L., Yu, W and Zhang, J (2009), 3D mesh generation in geocomputing, Chapter II in Advances in Geocomputing, Springer-Verlag GmbH, pp27-64. DOI: 10.1007/978-3-540-85879-9_2.
5. *Liu, Y., Y. Shi, E. O. D. Sevre, H L Xing and D. A Yuen (2009). Probabilistic Forecast of Tsunami Hazards along Chinese Coast, Chapter VIII in Advance in Geo-Computing, Springer-Verlag GmbH, pp279-317, DOI:10.1007/978-3-540-85879-9_8.
6. Xing, H.L.,& Makinouchi, A. (2000), Thermo-elasto-plastic FE modelling of heat exchanger assembling process. In Supercomputing in Nuclear Applications (Yagawa, G., eds), Tokyo, RE032, 1-20

期刊论文 Referred Journal Articles

7. *J Yi, H Xing, J Wang, Z Xia, Y Jing (2019). Pore-scale study of the effects of surface roughness on relative permeability of rock fractures using lattice Boltzmann method. Chemical Engineering Science 209, 115178
8. *Y Chen, C Jiang, G Yin, D Zhang, H Xing, A Wei (2019). Permeability evolution under true triaxial stress conditions of Longmaxi shale in the Sichuan Basin, Southwest China. Powder Technology

9. *F Ren, L Ge, V Stelmashuk, TE Rufford, H Xing, V Rudolph (2019). Characterisation and evaluation of shockwave generation in water conditions for coal fracturing. Journal of Natural Gas Science and Engineering 66, 255-264
10. *F Ren, L Ge, A Arami-Niya, TE Rufford, H Xing, V Rudolph (2019). Gas storage potential and electrohydraulic discharge (EHD) stimulation of coal seam interburden from the Surat Basin. International Journal of Coal Geology 208, 24-36
11. Z Wu, Y Zhang, THW Goebel, Q Huang, CA Williams, H Xing, JB Rundle (2019).
12. Continental Earthquakes: Physics, Simulation, and Data Science—Introduction. Pure and Applied Geophysics, 1-8
13. #Xiangchong Liu, Yue Ma, Huilin Xing and Dehui Zhang (2018). Chemical responses to hydraulic fracturing and wolframite precipitation in the vein-type tungsten deposits of southern China. Ore Geology Reviews, 102 44-58. doi:10.1016/j.oregeorev.2018.08.027
14. *Jie Yi and Huilin Xing (2018). Finite element lattice Boltzmann method for fluid flow through complex fractured media with permeable matrix. Advances in Water Resources, 119 28-40. doi:10.1016/j.advwatres.2018.06.007
15. *Mei-Ben Gao, Tian-Bin Li, Lu-Bo Meng, Chun-Chi Ma and Hui-Lin Xing (2018). Identifying crack initiation stress threshold in brittle rocks using axial strain stiffness characteristics. Journal of Mountain Science, 15 6: 1371-1382. doi:10.1007/s11629-018-4847-z
16. #Qi Yao, Xi Wei Xu, Hui Lin Xing, Jia Cheng, Guo Yan Jiang, WeiYu Ma, Jie Liu and Wen Yang (2018). 3D seismogenic model of the 2015 Gorkha earthquake and subsequent seismic risk. Chinese Journal of Geophysics-Chinese Edition, 61 6: 2332-2343. doi:10.6038/cjg2018L0371
17. *Fei Ren, Lei Ge, Thomas E Rufford, Huilin Xing and Victor Rudolph (2018). Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. Journal of Natural Gas Science and Engineering, 57 1-10. doi:10.1016/j.jngse.2018.06.034
18. #Liu, Xiangchong, Ma, Yue, Xing, Huilin and Zhang, Dehui (2018) Chemical responses to hydraulic fracturing and wolframite precipitation in the vein-type tungsten deposits of southern China. Ore Geology Reviews, 102 44-58. doi:10.1016/j.oregeorev.2018.08.027
19. *Yi, Jie and Xing, Huilin (2018) Finite element lattice Boltzmann method for fluid flow through complex fractured media with permeable matrix. Advances in Water Resources, 119 28-40. doi:10.1016/j.advwatres.2018.06.007
20. *Gao, Mei-Ben, Li, Tian-Bin, Meng, Lu-Bo, Ma, Chun-Chi and Xing, Hui-lin (2018) Identifying crack initiation stress threshold in brittle rocks using axial strain stiffness characteristics. Journal of Mountain Science, 15 6: 1371-1382.

doi:10.1007/s11629-018-4847-z

21. Yao, Qi, Xu, XiWei, Xing, HuiLin, Cheng, Jia, Jiang, GuoYan, Ma, WeiYu, Liu, Jie and Yang, Wen (2018) 3D seismogenic model of the 2015 Gorkha earthquake and subsequent seismic risk. Chinese Journal of Geophysics-Chinese Edition, 61 6: 2332-2343. doi:10.6038/cjg2018L0371
22. *Ren, Fei, Ge, Lei, Rufford, Thomas E., Xing, Huilin and Rudolph, Victor (2018) Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. Journal of Natural Gas Science and Engineering, 57 1-10. doi:10.1016/j.jngse.2018.06.034
23. #Liu, Xiangchong, Xing, Huilin and Zhang, Dehui (2018) Hydraulic fracturing leads to wolframite deposition at magmatic-hydrothermal transition. Acta Geologica Sinica - English Edition, 92 2: 862-863. doi:10.1111/1755-6724.13562
24. Yao, Qi, Xing, Hui-Lin, Xu, Xi-Wei, Zhang, Wei and Liu, Jie (2018) Simulation of Seismic Risk in the Daliangshan Sub-Block and Adjacent Areas Using the Nonlinear Friction FEM Method 利用非线性摩擦有限元方法计算大凉山次级块体及其周边地区地震危险性. Dizhen Dizhi, 40 1: 171-185. doi:10.3969/j.issn.0253-4967.2018.01.013
25. *Jiang, Yupeng and Xing, Huilin (2018) Theoretical research of pressure propagation in pulsating hydraulic fracturing for coal permeability enhancement. International Journal of Oil Gas and Coal Technology, 17 1: 91-112. doi:10.1504/IJOGCT.2018.10010324
26. #Chen, Fangwen, Lu, Shuangfang, Ding, Xue, He, Xipeng and Xing, Huilin (2018) The splicing of backscattered scanning electron microscopy method used on evaluation of microscopic pore characteristics in shale sample and compared with results from other methods. Journal of Petroleum Science and Engineering, 160 207-218. doi:10.1016/j.petrol.2017.10.063
27. #Xiangchong Liu, Huilin Xing, Dehui Zhang (2017). The mechanisms and time scale of alteration halos in vein-type tungsten deposits in southern China. Ore Geology Reviews. 89, 1019-1029. DOI:10.1016/j.oregeorev.2017.07.024
28. #Fangwen Chen, Xue Ding, Shuangfang Lu, Xipeng He & Huilin Xing (2017). Gas generation characteristics of the lower cambrian niutitang shale in qiannan depression, China. Petroleum Science and Technology, 35:12, 1209-1216, DOI: 10.1080/10916466.2017.1316740
29. #Fangwen Chen, Shuangfang Lu, Xue Ding, Xipeng He & Huilin Xing (2017). Evaluation of the Adsorbed Gas Amount in a Shale Reservoir Using the Three Compositions Adsorbing Methane (TCAM) Method: A Case from the Longmaxi Shale in Southeast Chongqing, China. Energy and Fuels (accepted). DOI: 10.1021/acs.energyfuels.7b01088
30. #Fangwen Chen, Shuangfang Lu, Xue Ding, Xipeng He & Huilin Xing. The splicing of backscattered scanning electron microscopy method used on evaluation of microscopic pore characteristics in shale sample and compared

with results from other methods. Journal of Petroleum Science and Engineering 160 (2018) 207–218

31. * Gao J, Xing H, Turner L, Steel K, Sedek M, Golding SD, Rudolph V(2017). Pore-scale numerical investigation on chemical stimulation in coal and permeability enhancement for coal seam gas production. Transport in Porous Media. 1-17, doi:10.1007/s11242-016-0777-9
32. #Xiangchong Liu, Huilin Xing, Dehui Zhang (2017). Influences of Hydraulic Fracturing on Fluid Flow and Mineralization at the Vein-Type Tungsten Deposits in Southern China. Geofluids, Volume 2017 (2017), Article ID 4673421, 11 pages. DOI:10.1155/2017/4673421
33. *Chunchi Ma, Yupeng Jiang, Huilin Xing and Tianbin Li (2017). Numerical modelling of fracturing effect stimulated by pulsating hydraulic fracturing in coal seam gas reservoir. Journal of Natural Gas Science and Engineering， DOI: 10.1016/j.jngse.2017.08.016
34. *J Gao, H Xing, Z Tian, JK Pearce, M Sedek, SD Golding, V Rudolph.(2017). Reactive transport in porous media for CO 2 sequestration: Pore scale modeling using the lattice Boltzmann method. Computers & Geosciences 98, 9-20
35. *Jie Yi and Huilin Xing (2017). Pore-scale simulation of effects of coal wettability on bubble-water flow in coal cleats using Lattice Boltzmann Method. Chemical Engineering Science, 161 ， 57-66. DOI: 10.1016/j.ces.2016.12.016 (corresponding author)
36. *Yupeng Jiang, Huilin Xing (2017). Theoretical research of pressure propagation in pulsating hydraulic fracturing for coal permeability enhancement", International Journal of Oil, Gas and Coal Technology (accepted) (corresponding author)
37. *Liu Yan and Huilin Xing (2016). An effective 3D meshing approach for fractured rocks, Int. J. Numer. Meth. Engng, 107:363–376. DOI: 10.1002/nme.5166 (corresponding author)
38. *Li Quanshu, Huilin Xing (2016). Influences of the Intersection Angle between Interlayer and In situ Stresses during Hydraulic Fracturing Process, Journal of Natural Gas Science & Engineering 36: 963-985
39. *Yupeng Jiang, Huilin Xing (2016). Numerical modelling of acoustic stimulation induced mechanical vibration enhancing coal permeability. Journal of Natural Gas Science and Engineering, 36, Part A, 786–799. DOI:10.1016/j.jngse.2016.11.008 (corresponding author)
40. *Li Qin and Huilin Xing (2016). A new method for determining the equivalent permeability of a cleat dominated coal sample. Journal of Natural Gas Science and Engineering. 34: 280–290 (corresponding author)
41. *X Liu, H Xing, D Zhang (2016). Influences of fluid properties on the hydrothermal fluid flow and alteration halos at the Dajishan tungsten deposit,

China. Journal of Geochemical ExplorationJournal of Geochemical Exploration. 163: 53–69

42. *Li, Quanshu, Xing, Huilin (2016). Numerical analysis of the material parameter effects on the initiation of hydraulic fracture in a near wellbore region. Journal of Natural Gas Science and Engineering, 27:1597-1608. DOI: 10.1016/j.jngse.2015.10.023.
43. *Ma CC, Li TB, Xing HL, Zhang H, Wang MJ, Liu TY, Chen GQ, Chen ZQ (2016). Brittle Rock Modeling Approach and its Validation Using Excavation-Induced Micro-Seismicity. Rock Mechanics and Rock Engineering, 1-14. doi:10.1007/s00603-016-0941-0
44. #Tian, Zhiwei, Xing, Huilin, Tan, Yunliang, Gu, Sai and Golding, Suzanne D. (2016) Reactive transport LBM model for CO2 injection in fractured reservoirs. Computers and Geosciences, 86 15-22. doi:10.1016/j.cageo.2015.10.002
45. #Chen, Shaojie, Wang, Hailong, Zhang, Junwen, Xing, Huilin and Wang, Huaiyuan (2015) Low-strength similar materials for backfill mining: insight from experiments on components and influence mechanism. Geotechnical Testing Journal, 38 6: 1-7. doi:10.1520/GTJ20140103
46. *Guo, Ting-ting, Xu, Xi-wei, Xing, Hui-lin and Yu, Gui-hua (2015). Nonlinear finite-element simulation of conjugate faults system and associated earthquake swarm. Seismicity Geology, 37 2: 598-612. doi:10.3969/j.issn.0253-4967.2015.02.021
47. *X Liu, H Xing, D Zhang (2015). The mechanisms of the infill textures and its implications for the five-floor zonation at the Dajishan vein-type tungsten deposit, China. Ore Geology Reviews 65, 365-374 (corresponding author)
48. *Li, Quanshu, Xing, Huilin, Liu, Jianjun and Liu, Xiangchon (2015) A review on hydraulic fracturing of unconventional reservoir. Petroleum, 1 1: 8-15. doi:10.1016/j.petlm.2015.03.008
49. Xing Huilin, Liu, Yan, Gao, Jinfang and Chen, Shaojie (2015) Recent development in numerical simulation of enhanced geothermal reservoirs. Journal of Earth Science, 26 1: 28-36. doi:10.1007/s12583-015-0506-2
50. #Chen Shaojie, Wang, Hailong, Zhang, Junwen, Xing, Huilin and Wang, Huaiyuan (2015) Experimental study on low-strength similar-material proportioning and properties for coal mining. Advances in Materials Science and Engineering, 696501.1-696501.6. doi:10.1155/2015/696501
51. *Gao Jinfang, Xing Huilin, Rudolph, Victor, Li, Qin and Golding, Sue D. (2015) Parallel lattice Boltzmann computing and applications in core sample feature evaluation. Transport in Porous Media, 107 1: 65-77. doi:10.1007/s11242-014-0425-1
52. HL Xing, RW Ding, DA Yuen (2015). Tsunami hazards along the Eastern Australian Coast from potential earthquakes: results from numerical

simulations. Pure and Applied Geophysics 172 (8), 2087-2115

53. #Zhiwei Tian, Huilin Xing, Yunliang Tan and Jinfang Gao (2014). A Coupled Lattice Boltzmann Model for Simulating Geochemical Reaction Transport in CO2 Injection. Physica A: Statistical Mechanics and its Applications 403, 155-164, (corresponding author)
54. Xing, Huilin (2014). Numerical simulation of transient geothermal flow in extremely heterogeneous fractured porous media, Journal of Geochemical Exploration 144, 168-178.
55. *Liu X, H Xing, D Zhang (2014). Fluid focusing and its link to vertical morphological zonation at the Dajishan vein-type tungsten deposit, South China. Ore Geology Reviews. 62, 245-258, 2014 (corresponding author)
56. H Xing, Y Liu (2014). Mesh Generation for 3D Geological Reservoirs with Arbitrary Stratigraphic Surface Constraints. Procedia Computer Science 29, 897-909.
57. *Liu Yan and Xing, Huilin (2014). A feature extracting and meshing approach for sheet-like structures in rocks. Computer Methods in Applied Mechanics and Engineering, 276, 396-409 (corresponding author)
58. *Gao J, Xing H, Tian Z and H Muhlhaus (2014). Lattice Boltzmann modeling and evaluation of fluid flow in heterogeneous porous media involving multiple matrix constituents, Computers and Geosciences, 62, 198 – 207 (corresponding author).
59. #Yao Qi, Xu Xiwei, Xing Huilin, Xu Chong and Wang Xiaohui (2013) Decomposition and evolution of intracontinental strike-slip faults in Eastern Tibetan Plateau. Acta Geologica Sinica-English Edition, 87 2: 304-317.
60. *Liu Y and H. L. Xing (2013). Surface mesh generation of large-scale digital rock images in 3D. Procedia Computer Science 18, 1208–1216. DOI: 10.1016/j.procs.2013.05.287 (9 pages)
61. *Gao J, Xing H (2013). Scale Effect of 3D Heterogeneous Porous Media on Geo-Fluid Characteristics: Insight from Massively Parallel Lattice Boltzmann Computing . SPE SPE-167043-MS.
62. *Liu Y and Xing HL (2013). A boundary focused quadrilateral mesh generation algorithm for multi-material structures, Journal of Computational Physics, 232 (1) 516 – 528. doi:10.1016/j.jcp.2012.08.042 (corresponding author)
63. HW Zhang, ZQ Xie, BS Chen, HL Xing (2012), A finite element model for 2D elastic–plastic contact analysis of multiple Cosserat materials, European Journal of Mechanics-A/Solids 31 (1), 139-151. doi:10.1016/j.euromechsol.2011.07.005
64. #Yao Qi, Xu Xiwei, Xing Huilin, Zhang Wei, Gao Xiang (2012), Deformation mechanism of the eastern Tibetan plateau: Insights from numerical models, Chinese Journal of Geophysics, 55 3: 863-874.

65. #Zheng-zhao Liang, H. L. Xing, D. J. Williams and Chun-an Tang (2012). Numerical investigation of fracture of rock specimen containing a pre-existing surface flaw, Computers & Geotechnics, 45, 19–33
66. *Gao, J and Xing H (2012). LBM simulation of fluid flow in fractured porous media with permeable matrix, Theor. Appl. Mech. Lett. Theor. Appl. Mech. Lett. 2, 032001 (2012) (corresponding author)
67. *Zhang J and H. Xing (2011), Numerical modeling of non-Darcy flow in near-well region of a geothermal reservoir, Geothermics, 42, 78–86. doi:10.1016/j.geothermics.2011.11.002
68. # Yao Qi，Xing Huilin，Xu Xiwei，Zhang Wei. (2012). Influence of lithologic differences on either walls of the fault on the Wenchuan earthquake. Chinese Journal of Geophysics, 55 11: 3634-3647.
69. H Xing, Y Liu (2011). Automated quadrilateral mesh generation for digital image structures, Theor. Appl. Mech. Lett. 1, 061001 (2011); doi:10.1063/2.1106101
70. *Liu, Y, H. L. Xing and Z Guan (2011). An indirect approach for automatic generation of quadrilateral meshes with arbitrary line constraints. Int J Num Methods Engng, 87, 906-922. DOI: 10.1002/nme.3145 (corresponding author)
71. *Zhang, S Q, Xing, H L, Yuen, D A, Zhang H and Shi Y (2011). Regional stress fields under Tibet from 3D global flow simulation, J Earth Sciences, 22, 155-159, DOI: 10.1007/s12583-011-0167-8.
72. Zhang, H.W., Q. Zhou, H.L. Xing, H. Muhlhaus (2010). A DEM study on the effective thermal conductivity of granular assemblies, Powder Technol., 205, 172-183 doi:10.1016/j.powtec.2010.09.008.
73. #Yuan, Ren-Mao, Xi-Wei Xu, Gui-Hua Chen, Xi-Bin Tan, Yann Klinger, and Hui-Lin Xing (2010). Ejection Landslide at Northern Terminus of Beichuan Rupture Triggered by the 2008 Mw 7.9 Wenchuan Earthquake, Bulletin of the Seismological Society of America, Vol. 100, 2689–2699, doi: 10.1785/0120090256.
74. Xing, H. L. and J. Zhang (2009). Finite Element Modeling of Non-linear Deformation Behaviours of Rate-Dependent Materials using an R-minimum Strategy, Acta Geotechnica, 4, 139-148. doi: 10.1007/s11440-009-0090-7.
75. *Liu, Y, Shi, Y ,. Yuen, D A, Sevre, E O. D., Yuan, X. and Xing H L(2009). Comparison of linear and nonlinear shallow wave water equations applied to tsunami waves over the China Sea. Acta Geotechnica. 4, 129-137. doi:10.1007/s11440-008-0073-0
76. #Liu, E and Xing, H. L. (2009). A Double Hardening Thermo-Mechanical Constitutive Model for Over Consolidated Clays, Acta Geotechnica, 4, 1-6, doi:10.1007/s11440-008-0053-4
77. Xing, H. L. and Wang, J (2009). Geodynamic Modeling, Acta Geotechnica

(2009) 4:149. DOI 10.1007/s11440-009-0096-1

78. Xing, H., A. Makinouchi and C. Zhao (2008). Three-dimensional finite element simulation of large-scale nonlinear contact friction problems in deformable rocks, Journal of Geophysics and Engineering, 5, 27-36.
79. #Yin, C., Xing, H., Mora, P. and Xu, H (2008). Earthquake trend around Sumatra region indicated by a new implementation of LURR method, Pure and Applied Geophysics, 165, 723–736, DOI 10.1007/s00024-008-0322-z
80. #Olsen-Kettle, L. M., D. Weatherley, E. Saez, L. Gross, H.-B. Mühlhaus, and H. L. Xing (2008), Analysis of slip-weakening frictional laws with static restrengthening and their implications on the scaling, asymmetry, and mode of dynamic rupture on homogeneous and bimaterial interfaces, J. Geophys. Res., 113, B08307, doi:10.1029/2007JB005454.
81. #Zhu, S B, Xing, H L, Xie, F R and Shi, Y L (2008). Simulation of earthquake processes by finite element method: The case of megathrust earthquakes on the Sumatra subduction zone. Chinese Journal of Geophysics, 51, 460-468.
82. Xing, H. L., Makinouchi, A. and Mora, P. (2007). Finite element modeling of interacting fault system, Physics of the Earth and Planetary Interiors, 163, 106-121.doi:10.1016/j.pepi.2007.05.006
83. Xing, H. L. and Zhang, J. (2007). An R-minimum strategy for finite element modeling of non-linear deformation behaviours of rate-dependent materials, Lecture Notes in Computational Science (LNCS) 2007, 1093-1100, Springer-Verlag, Berlin, Heidelberg (sci).
84. #Xu, H, Xing, H. L., Wyborn, D and Mora, P (2007), Analytical and numerical investigation of thermo-fluid flow of fracture dominated geothermal reservoir, Lecture Notes in Computational Science (LNCS) 2007, 1156-1163
85. #Liu, E. L. and Xing, H. L. (2007). Modeling of the thermo-mechanical behavior of saturated soils, Lecture Notes in Computational Science (LNCS) 2007, 1151-1155
86. *Liu, Y., Shi, Y. Liu, H., Wang, S., Yuen, D and Xing, H. L. (2007). Can tsunami waves in the South China Sea be modelled with linear theory, Lecture Notes in Computational Science (LNCS) 2007, pp1205-1209
87. Yao, Y., Wang, N., Yamamoto, H and Xing, H. L. (2007), An elastoplastic model considering sand crushing, Lecture Notes in Computational Science (LNCS) 2007, pp1146-1150.
88. Xing, H. L., Zhang, J. and Yin, C. (2007). A finite element analysis of tidal deformation of the entire Earth with a discontinuous outer layer, Geophysical Journal International, 170 (3), 961–970. doi:10.1111/j.1365-246X.2007.03442.x
89. Xing, H. L., Mora, P., Makinouchi, A. (2006). An unified friction description

and its application to simulation of frictional instability using finite element method. Philosophy Magazine. 86, 3453-3475

90. Xing, H. L., Mora, P. (2006). Construction of an intraplate fault system model of South Australia, and simulation tool for the iSERVO institute seed project. Pure and Applied Geophysics, 163, 2297-2316.
91. Gross, L., Mora, P., Saez, E., Weatherley, D. and Xing, H (2005). Software infrastructure for solving non-linear partial differential equations and its application to modeling crustal fault systems. ANZIAM J. 46(E) pp. C1141-1154
92. Mora, P., Muhlhaus, H., Gross, L., Xing, H., Weatherley, D., Abe, S., Latham, S., Moresi, L., (2005). ACcESS: Australia's Contribution to the iSERVO Institute's Development, Computing in Science & Engineering, 7(No.4) 27-37
93. Xing, H. L., Mora, P., & Makinouchi, A. (2004). Finite element analysis of fault bend influence on stick-slip instability along an intra-plate fault, Pure and Applied Geophysics, 161, 2091-2102
94. Xing, H.L., Zhang, K. F & Wang, Z. R. (2004). A perform design method for sheet superplastic bulging with finite element modeling, J. Mater. Proc. Tech., 151, 284-288
95. Xing, H.L., Zhang, K. F & Wang, Z. R. (2004). Recent development in the mechanics of superplasticity and its applications, J. Mater. Proc. Tech., 151, 196-202
96. Xing, H.L., & Makinouchi, A. (2003). Finite element modeling of frictional instability between deformable rocks. Inter. J. Numer. Anal. Meth. Geomech. 27, pp 1005-1025.
97. Xing, H L, Mora, P and Makinouchi, A. (2003) Finite element computing of stress evolution in a frictional contact system, Lecture Notes in Computer Science, 2659, pp.798-806.
98. Xing, H.L., Makinouchi, A. (2002), Finite-element modeling of multibody contact and its application to active faults. Concurrency and Computation: Practice and Experience, 14, pp 431-450.
99. Xing, H.L., & Makinouchi, A. (2002), Three dimensional finite element modeling of thermomechanical frictional contact between finite deformation bodies using R-minimum strategy, Computer Methods in Applied Mechanics and Engineering, 191, pp 4193-4214.
100. Xing, H.L., & Makinouchi, A. (2002), FE modelling of thermo-elasto-plastic finite deformation and its application in sheet warm forming, Engineering Computations – Int. J. Computer-Aided Engineering and Software, 19, pp 392-410.
101. Xing, H.L., & Makinouchi, A. (2002), Finite element analysis of sandwich friction experimental model of rocks, Pure and Applied

Geophysics, 159, pp 1985-2009.

102. Xing, H.L., & Makinouchi, A. (2001), Numerical analysis and design for tubular hydroforming, Int. J. Mech. Sci., 43, pp 1009-1026.

103. Xing, H.L., & Makinouchi, A. (2000), A node-to-point contact element strategy and its applications, RIKEN Review: Focused on High Performance Computing, 30, pp 35-39.

104. Xing, H.L., Wang, S., & Makinouchi, A. (1999), An adaptive mesh h-refinement algorithm and its application to sheet forming, J. Mater. Process. Tech., 91, 813-190.

105. Xing, H.L., Wang, Z.R. (1998), Prediction and control of cavity growth during superplastic sheet forming with finite element modelling, J. Mater. Process. Tech., 75, pp 87-93.

106. Xing, H.L., Wang, Z.R. (1997), Finite element analysis and design of thin sheet superplastic forming, J. Mater. Process. Tech., 68, 1-7

107. Xing, H.L, Zhang, K.F., Qiao, Y. & Wang, Z.R.(1995). An advanced superplastic sheet-forming machine controlled by microcomputer, Journal of Materials Processing Technology, 55, 43-47

108. Xing, H.L., Wang, Z.R. (1994). The superplastic tensile instability, Chinese Science Bulletin(in English), 39, 23-26

109. Xing, H.L., Wang, Z.R.(1994). A study of the methods for measuring m and n values of superplastic materials, Journal of Materials Processing Technology, 41, 399-407

110. Xing, H.L., Zhang, K.F., Wang, Z.R.(1994). Study on the optimal mode of superplastic deformation, Journal of Materials Processing Technology, 44, 29-34

国际会议全文 Referred International Conference Full Papers (2003 -):

111. #C Khan, Q Li, V Rudolph, H Xing and S Golding (2014). Changes in Reservoir Injectivity from Injection of Supercritical CO2 into a Sandstone Aquifer, CHEMECA 2014: Sept 28 – Oct 01 2014, Perth, Western Australia (8 pages).

112. *Wei Xiaochen, Li Qi, Xing Huilin, Li Xiaying and Song Ranran(2014). Mechanism of Underground Fluid Injection Induced Seismicity and Its Implications for CCS Projects. Advances in Earth Science, 29(11) 315-310.

113. H. L. Xing (2013). High Performance Geocomputing and its Applications in Deep Mining, International Workshop on Mine Hazard and Control. Nov. 19-21, 2013, CSIRO, Brisbane (6 pages)

114. *Nianchao Zhang, Joan Esterle, Nong Zhang and Huilin Xing (2013). Analysis on Wedge-shaped Roof Mechanical Behaviors under a Thick

Sandstone Layer with Different Longwall Mining Speed, International Workshop on Mine Hazard and Control. Nov. 19-21, 2013, CSIRO, Brisbane (6 pages)

115. #Changjiang Liu, Geoff Wang, Huilin Xing and Hans Muhlhaus (2013). Characterizing Pore Structure of Coal under CO2 Sequestration Conditions, Proceedings of the World Congress on Engineering and Computer Science 2013 Vol II, WCECS 2013, pp641-644. 23-25 October, 2013, San Francisco, USA (4 pages)

116. *Gao J., Xing H., 2013. High performance simulation of complicated fluid flow in 3D fractured porous media using LBM. In: M. Daydè, O. Marques, and K. Nakajima (Eds.), High Performance Computing for Computational Science - VECPAR 2012 Proceedings, LNCS, Springer, Heidelberg, 7851, 93-104. http://dx.doi.org/10.1007/978-3-642-38718-0_12

117. Xing HL, Gao J and Liu Y(2012). PANDAS: High Performance Geocomputing Software and Its Application in Deep Mining (9 pages), Eastern Australian Basin Symposium IV

118. Xing HL, Gao J (2012). Unconventional Gas Mining: Insights from Pore to Mine Scale Simulations (15pages), Eastern Australian Basin Symposium IV

119. Xing HL , Jinfang Gao, Ji Zhang and Yan Liu (2012). Recent Development in Simulation of Enhanced Geothermal Reservoirs (5 pages), International Workshop of Deep Geothermal Systems, Wuhan China, June 29-30, 2012.

120. Xing, H L, J Zhang, J Gao and Y Liu (2011), PANDAS and Its New Applications in Geothermal Modelling, Proceedings of AGEC 2011 (Australian Geothermal Engineering Conference), pp293-298, Melbourne, 16-18 Nov 2011.

121. *Zhang J., Xing H.L., (2011). Nonlinear finite element modelling of transient geothermal process in porous media with liquid/vapour phase change, New Zealand Geothermal Workshop 2011 Proceedings (8 pages), 21 - 23 November 2011, Auckland, New Zealand

122. *Zhang J., Xing H.L., 2010. Numerical simulation of geothermal reservoir systems with multiphase fluids. In: Gurgenci, H. and Weber, R. D., Proceedings of the 2010 Australian Geothermal Energy Conference, Adelaide, Nov 17~19 (6 pages).

123. *Liu, Y. and Xing, H. (2010). Automatic Meshing and Construction of a 3D Reservoir System: From Visualization towards Simulation. In: Gurgenci, H. and Weber, R. D., Proceedings of the 2010 Australian Geothermal Energy Conference, Adelaide, Nov 17~19 (6 pages).

124. Xing, H.L., J. Gao, J., Zhang, J. & Liu, Y. (2010). Towards An Integrated Simulator For Enhanced Geothermal Reservoirs. Proceedings World Geothermal Congress 2010. Paper 3224 (11 pages). Bali, Indonesia, 25-29

April 2010.

125. Bringemeier D., Wang, X, Xing, H. L. and Zhang, J (2010). Modelling of Multiphase Fluid Flow for an Open Pit Development within a Geothermal Active Caldera, Proceedings of the 11th IAEG Congress (IAEG-International Association for Engineering Geology and the Environment), 9 pages, Auckland, New Zealand. Accepted on Jan 26, 2010.

126. Xing, H., Zhang, J., Liu, Y. and Muhlhaus, H. (2009). Enhanced Geothermal Reservoir Simulation. in: Budd and Gurgenci (editors), Proceedings of the 2009 Australian Geothermal Energy Conference, Geoscience Australia, Record 2009/35, GeoCat #69699, 4 pages.

127. Xing, H. L., Xu, H., Wyborn, D., Liu, E., Yu, W. and Muhlhaus, H. (2008). Towards high performance simulation of geothermal reservoir systems. In Gurgenci & Budd (eds). Proceedings of the Sir Mark Oilphant International Frontiers of Science and Technology Australian Geothermal Energy Conference, Geoscience Australia, Record 2008/18. pp145-147.

128. Xing, H. L. and Zhang, J. (2007). An R-minimum strategy for finite element modeling of non-linear deformation behaviours of rate-dependent materials, in Yong Shi, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot (eds), Computational Science-ICCS2007, pp1093-1100, Springer-Verlag, Berlin, Heidelberg (sci).

129. #Xu, H, Xing, H. L., Wyborn, D and Mora, P (2007), Analytical and numerical investigation of thermo-fluid flow of fracture dominated geothermal reservoir, in Yong Shi, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot (eds), Computational Science-ICCS2007, pp1156-1163, Springer-Verlag, Berlin, Heidelberg (sci)

130. #Liu, E. L. and Xing, H. L. (2007). Modeling of the thermo-mechanical behavior of saturated soils, in Yong Shi, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot (eds), Computational Science-ICCS2007, pp1151-1155, Springer-Verlag, Berlin, Heidelberg (sci)

131. *Liu, Y., Shi, Y. Liu, H., Wang, S., Yuen, D and Xing, H. L. (2007). Can tsunami waves in the South China Sea be modelled with linear theory, in Yong Shi, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot (eds), Computational Science-ICCS2007, pp1205-1209, Springer-Verlag, Berlin, Heidelberg (sci).

132. Yao, Y., Wang, N., Yamamoto, H and Xing, H. L. (2007), An elastoplastic model considering sand crushing, in Yong Shi, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot (eds), Computational Science - ICCS2007, pp1146-1150, Springer-Verlag, Berlin, Heidelberg (sci).

133. Xing, H. L. and Mora, P (2006). ESyS_Crustal: a software infrastructure for crustal dynamics, Proceedings of IWCG2006 (International Workshop on

Cyberin-frastructure for Geosciences), pp20-24, July19-23, Beijing

134. Xing, H. L & Mora, P (2005). Adaptive static/dynamic finite element modelling of interacting fault systems. In Proceedings of Geo-WCS 2005, pp145-149. Nanjing, China, Aug 20-22, 2005 (keynote)

135. Xing, H. L, Mora, P & Wyborn, D (2005). Towards finite element modelling of hot fractured rock geothermal reservoir system, Abstract Proceedings of Eighth US National Congress on Computational Mechanics (USNCCM8), July24-28, 2005, Austin, Texas

136. Mora, P, Saez, E, &Xing, H L (2005), Simulation of interacting fault systems, IASPEI Conference, Santiago, Oct 3-7, 2005 (invited)

137. Mora, P, Muhlhaus, H, Gross, L, Xing, H L, Abe, S, Weatherley, D, Davies, M, latham, S, Wang, Y, Saez, E, Wang, C & Gerschwitz, J (2005). The Australian computational Earth systems simulator, Major National Research Facility (ACcESS), in Proceedings of 4th ACES, 255-258.

138. Xing, H. L. and Mora, P. (2004) On finite element modelling of instability phenomena in an interacting fault system, Symposium on Instabilities across the Scales, Cairns, No10.

139. Xing, H. L. and Mora, P. (2004) Finite element modelling of interacting fault systems, in: Proc. 4th ACES Workshop, 112-114.

140. Xing, H. L. and Mora, P. (2004) Finite element modelling of frictional sliding induced heat and deformation, in: Proc. 4th ACES Workshop, 32-34.

141. Xing, H. L. and Mora, P. (2004) Construction of an intraplate fault system model south Australia, and simulation tool for the iSERVO Institute seed project, in: Proc. 4th ACES Workshop, 115-117.

142. Xing, H.L., Mora, P., & Makinouchi, A. (2003). Finite element modeling of nonlinear frictional instability between deformable bodies. Computational Fluid and Solid Mechanics, Elsevier. Ed: K. J. Bathe, 766-769.

143. Xing, H.L., Makinouchi, A., & Mora, P. (2003), Numerical investigation of fault-bend influence on earthquake nucleation and development, 3rd ACES (APEC Cooperation on Earthquake Simulation) Workshop Proceedings, pp 137-142

科研报告 Reports（超过百页的）：

144. Huilin Xing (2011), Final project report on supercomputer simulation of hot fractured geothermal reservoir systems for Geodynamics Ltd, ESSCC UQ, 150pages

145. #Dawson, G. K. W., Sidiq, H., Pearce, J., Gao, J-F., Golding, S. D., Rudolph, V., Li, Q. and Xing, H. (2013) ANLEC Project 3-1110-0101: Review of laboratory-scale geochemical and geomechanical experiments simulating geosequestration of CO2 in sandstone, and associated modelling

studies. Manuka, ACT, Australia: Australian National Low Emissions Coal Research and Development

146. #G.K.W. Dawson, D. Biddle, S.M. Farquhar, J. Gao, S.D. Golding, X. Jiang, R. Keck, C. Khan, A.C.K. Law, Q. Li, J. K. Pearce, V. Rudolph, A. Watson and H. Xing. (2014). ANLEC Project 7-1110-0101: Achieving Risk and Cost Reductions in CO2 Geosequestration through 4D Characterisation of Host Formations. Manuka, ACT, Australia: Australian National Low Emissions Coal Research and Development (Final report, 140 pages).

研发的软件用户使用书册：Software User Manuals

147. Huilin Xing (2002). CHIKAKU User's Manual (Version Beta), RIKEN, Japan. 60pages
148. Huilin Xing (2004 and 2007). ESyS_Crustal User's Manual, ACcESS/ESSCC, UQ, 50 pages
149. Huilin Xing (2013-2016). PANDAS User Manual (Versions 1.0-3.0), ESSCC, UQ, >120pages