

# Scientific Publications of Michele Griffa

Last update: June 23<sup>rd</sup> 2017

In **red**, PhD student authors/co-authors at the time of the publication.

## Papers in SCI(E) Journals

### PUBLISHED

1. S. Josset, L. Hansen, **P. Orsolini**, **M. Griffa**, O. Kuzior, B. Weisse, T. Zimmermann, T. Geiger, *Microfibrillated cellulose foams obtained by a straightforward freeze-thawing-drying procedure*, Cellulose (June 2017). DOI: 10.1007/s10570-017-1377-8. [Abstract](#).
2. **B.W. Hailesilassie**, I. Jerjen, **M. Griffa**, M. Partl, *A closer scientific look at foam bitumen*, Road Mat. Pav. Design 18(2), 362-375 (2017). DOI: 10.1080/14680629.2016.1213513. [Abstract](#).
3. **T.D. Lämmlein**, **F. Messina**, **M. Griffa**, G.P. Terrasi, P. Lura, *Bond performance of sand coated UHM CFRP tendons in High Performance Concrete*, Polymers **9**(2), 78 (18 pages) (2017). DOI: 10.3390/polym9020078. [Abstract](#).
4. **C. Di Bella**, **M. Griffa**, T.J. Ulrich, P. Lura, *Early-age elastic properties of cement-based materials as a function of decreasing moisture content*, Cem. Concr. Res. **89**, 87-96 (2016). DOI: 10.1016/j.cemconres.2016.08.001. [Abstract](#).
5. **M.C. Cavalli**, **M. Griffa**, **S. Bressi**, M.N. Partl, G. Tebaldi, L. Poulikakos, *Multi-scale imaging and characterization of asphalt concrete with recycled asphalt*, J. of Microscopy **264**(1), 22-33 (2016). DOI: 10.1111/jmi.12412. [Abstract](#).
6. **F. Yang**, **M. Griffa**, A. Bonnin, R. Mokso, **C. Di Bella**, B. Münch, R. Kaufmann, P. Lura, *Visualization of water drying in porous materials by X-ray phase contrast imaging*, J. Microscopy **261**(1), 88-104 (2016). DOI: 10.1111/jmi.12319. [Abstract](#).
7. **B. Ferdowsi**, **M. Griffa**, R.A. Guyer, P.A. Johnson, C. Marone, J. Carmeliet, *Acoustically-induced slip in sheared granular layers: application to dynamic earthquake triggering*, Geophys. Res. Lett. **42**, 9750-9757 (2015). DOI: 10.1002/2015GL066096. [Abstract](#).
8. E. Franzoni, **G. Graziani**, E. Sassoni, G. Bacilieri, **M. Griffa**, P. Lura, *Solvent-based ethyl silicate for stone consolidation: influence of the application technique on penetration depth, efficacy and pore occlusion*, Mat. Struct. **48**, 3503-3515 (2015). DOI: 10.1617/s11527-014-0417-1. [Abstract](#).
9. **C. Di Bella**, M. Wyrzykowski, **M. Griffa**, P. Termkhajornkit, G. Chanvillard, H. Stang, A. Eberhardt, P. Lura, *Application of microstructurally-designed mortars for studying early-age properties: Microstructure and mechanical properties*, Cem. Concr. Res. **78**, 234-244 (2015). DOI: 10.1016/j.cemconres.2015.08.001. [Abstract](#).
10. **F. Yang**, **F. Prade**, **M. Griffa**, I. Jerjen, **C. Di Bella**, J. Herzen, **A. Sarapata**, F. Pfeiffer, P. Lura, *Dark-field X-ray imaging of unsaturated water transport in porous materials*,

Appl. Phys. Lett. **105**, 154105 (2014). DOI: 10.1063/1.4898783. [Abstract](#).

11. **B. Ferdowsi, M. Griffa**, R.A. Guyer, P.A. Johnson, C. Marone, J. Carmeliet, *Three-dimensional discrete element modeling of triggered slip in sheared granular media*, Phys. Rev. E **89**, 042204 (2014). DOI: 10.1103/PhysRevE.89.042204. [Abstract](#).
12. C. Payan, T.J. Ulrich, P-Y. Le Bas, **M. Griffa**, P. Schuetz, M.C. Remillieux, T.A. Saleh, *Probing material nonlinearity at various depths by the use of time reversal mirror and focal time delay analysis*, Appl. Phys. Lett. **104**, 144102 (2014). DOI: 10.1063/1.4871094.
13. P.A. Johnson, **B. Ferdowsi, B. Kaproth, M. Scuderi, M. Griffa**, J. Carmeliet, R.A. Guyer, P-Y. Le Bas, D.T. Trugman, C. Marone, *Acoustic emission and microslip precursors to stick-slip failure in sheared granular media*, accepted for publication in Geophys. Res. Lett **40**, 5627-5631 (2013). DOI: 10.1002/2013GL057848. [Abstract](#). In the news: [Faults may emit earthquake warning signs](#).
14. **B. Ferdowsi, M. Griffa**, R.A. Guyer, P.A. Johnson, C. Marone, J. Carmeliet, *Microslips as precursors of large slip events in the stick-slip dynamics of sheared granular layers: a discrete element model analysis*, Geophys. Res. Lett. **40**, 4194-4198 (2013). DOI: 10.1002/grl.50813. [Abstract](#).
15. **B. Ferdowsi, M. Griffa**, R.A. Guyer, P.A. Johnson, J. Carmeliet, *Effect of boundary vibration on the frictional behavior of a dense sheared granular layer*, Acta Mech. **225**, 2227-2237 (2014). DOI: 10.1007/s00707-014-1136-y. Pre-print available at <http://arxiv.org/abs/1401.6308>. [Abstract](#).
16. **A. Patera**, D. Derome, **M. Griffa**, J. Carmeliet, *Hysteresis in swelling and sorption of wood tissue*, J. Struct. Biol. **182**, 226-234 (2013). DOI: 10.1016/j.jsb.2013.03.003.
17. **H. Derluyn, M. Griffa**, D. Mannes, I. Jerjen, **J. Dewanckele**, P. Vontobel, A. Sheppard, D. Derome, V. Cnudde, E. Lehmann, J. Carmeliet, *Characterizing saline uptake and salt profiles in porous limestone with neutron radiography and X-ray micro-tomography*, J. Build. Phys **36** (4), 353-374 (2013). DOI:10.1177/1744259112473947.
18. M. Scalerandi, **M. Griffa**, P. Antonaci, M. Wyrzykowski, P. Lura, *Nonlinear elastic response of thermally damaged consolidated granular media*, J. Appl. Phys. **113**, 154902 (2013). DOI: 10.1063:1.4801801.
19. **M. Griffa, B. Ferdowsi**, R.A. Guyer, E.G. Daub, P.A. Johnson, C. Marone, J. Carmeliet, *Influence of vibration amplitude on dynamic triggering of slip in sheared granular layers*, Phys. Rev. E **87** (1), 012205 (2013). DOI: 10.1103/PhysRevE.87.012205. [Abstract](#).
20. **M. Griffa, B. Ferdowsi**, E.G. Daub, R.A. Guyer, P.A. Johnson, C. Marone, J. Carmeliet, *Meso-mechanical analysis of deformation characteristics for dynamically triggered slip in a granular medium*, Phil. Mag. **92** (28-30), 3520-3539 (2012). DOI: 10.1080/14786435.2012.700417.
21. M. Sedighi-Gilani, **M. Griffa**, D. Mannes, E. Lehmann, J. Carmeliet, D. Derome, *Visualization and quantification of liquid water transport in softwood by means of neutron radiography*, Int. J. Heat Mass Transp. **55**, 6211-6221 (2012).
22. **M. Griffa**, E.G. Daub, R.A. Guyer, P.A. Johnson, C. Marone, J. Carmeliet, *Vibration-*

*induced slip in sheared granular layers and the micromechanics of dynamic earthquake triggering*, *Europhys. Lett.* **96**, 14001/1-6 (2011). DOI: 10.1209/0295-5075/96/14001.

23. B.E. Anderson, **M. Griffa**, T.J. Ulrich, P.A. Johnson, *Time reversal reconstruction of finite size sources in elastic media*, *J. Acoust. Soc. Amer.* **130** (4), EL219-EL225 (2011). DOI: 10.1121/1.3635378.
24. B.E. Anderson, **M. Griffa**, P-Y. Le Bas, T.J. Ulrich, P.A. Johnson, *Experimental implementation of reverse time migration for nondestructive evaluation applications*, *J. Acoust. Soc. Amer.* **129** (1), EL8-EL14 (2011). DOI: 10.1121/1.3526379.
25. D. Derome, **M. Griffa**, M. Koebel, J. Carmeliet, *Hysteretic swelling of wood at cellular scale probed by phase-contrast X-ray tomography*, *J. Struct. Biol.* **173**, 180-190 (2011). DOI: 10.1016/j.jsb.2010.08.011. [Abstract](#).
26. M. Scalerandi, **M. Griffa**, P.A. Johnson, *Robustness of computational time reversal imaging in media with elastic constant uncertainties*, *J. Appl. Phys.* **106** (11), 114911-1/10 (2009). DOI: 10.1063/1.3269718. [Abstract](#).
27. T.J. Ulrich, K. Van Den Abeele, P-Y. Le Bas, **M. Griffa**, B.E. Anderson, R.A. Guyer, *Three Component Time Reversal: Focusing Vector Components Using A Scalar Source*, *J. Appl. Phys.* **106** (11), 113504-1/7 (2009). DOI: 10.1063/1.3259371. [Abstract](#).
28. B.E. Anderson, R.A. Guyer, T.J. Ulrich, P-Y. Le Bas, C. Larmat, **M. Griffa**, P.A. Johnson, *Energy current imaging method for time reversal in elastic media*, *Appl. Phys. Lett.* **95** (2), 021907-1/3 (2009). DOI: 10.1063/1.3180811. [Abstract](#).
29. B.E. Anderson, T.J. Ulrich, **M. Griffa**, P-Y. Le Bas, M. Scalerandi, A.S. Gliozzi, P.A. Johnson, *Experimentally identifying masked sources applying time reversal with the selective source reduction method*, *J. Appl. Phys.* **105** (8), 083506-1/11 (2009). DOI: 10.1063/1.3079517. [Abstract](#).
30. T.J. Ulrich, **M. Griffa**, B.E. Anderson, *Symmetry-based imaging condition in time-reversed acoustics*, *J. Appl. Phys.* **104**, 064912-1/8 (2008). DOI:10.1063/1.2980323. [Abstract](#).
31. M. Scalerandi, A.S. Gliozzi, B.E. Anderson, **M. Griffa**, P.A. Johnson, T.J. Ulrich, *Selective Source Reduction to identify masked sources using Time Reversal Acoustics*, *J. Phys. D Appl. Phys.* **41**, 155504-1/12 (2008).
32. **M. Griffa**, B.E. Anderson, R.A. Guyer, T.J. Ulrich, P.A. Johnson, *Investigation of the robustness of time reversal acoustics in solid media through the reconstruction of temporally symmetric sources*, *J. Phys. D Appl. Phys.* **41**, 085415-1/14 (2008).
33. B.E. Anderson, **M. Griffa**, C. Larmat, T.J. Ulrich, P.A. Johnson, *Time Reversal*, *Acoustics Today* **4** (1), 4-16 (2008).
34. P.P. Delsanto, C.A. Condat, N. Pugno, A.S. Gliozzi, **M. Griffa**, *A multilevel approach to cancer growth modeling*, *J. Theor. Biol.* **250** (1), 16-24 (2008).
35. A.S. Gliozzi, **M. Griffa**, M. Scalerandi, *Efficiency of Time Reversed Acoustics in Nonlinear Defect Imaging in Solids*, *J. Acoust. Soc. Amer.* **120** (5), 2506-2517

(2006).

36. M. Scalerandi, **M. Nobili**, **M. Griffa**, A. Gliozzi, F. Bosia, *A Preisach-Mayergoyz approach to fatigue induced irreversibility*, Phys. Rev. B **73**, 092103 (2006).
37. **M. Bentahar**, **H. El. Aqra**, R. El Guerjouma, **M. Griffa**, M. Scalerandi, *Hysteretic elasticity in damaged concrete: quantitative analysis of slow and fast dynamics*, Phys. Rev. B **73**, 014116 (2006).
38. P.P. Delsanto, **M. Griffa**, C.A. Condat, **S. Delsanto**, **L. Morra**, *Bridging the gap between mesoscopic and macroscopic models: the case of multicellular tumor spheroids*, Phys. Rev. Lett. **94**, 148105 (2005).
39. **M. Griffa**, M. Scalerandi, C. Camagna, *Influence of the Medium Rigidity on the Growth of Multicellular Tumor Spheroids*, European Physical Journal: Applied Physics **30**, 65-71 (2005).
40. **M. Griffa**, M. Scalerandi, *Environmental physical modulation of intrinsic tendency to growth of Multicellular Tumor Spheroids: in silico experiments*, Phys. Scripta **T118**, 183 - 186 (2005).
41. **M. Griffa**, M. Scalerandi, *Physical modeling and simulations of tumor growth and angiogenesis: predictions and new hypotheses*, Phys. Scripta **T118**, 179 -182 (2005).
42. P.P. Delsanto, **L. Morra**, **S. Delsanto**, **M. Griffa**, C. Guiot, *Towards a Model of Local and Collective Mechanisms in Multicellular Tumor Spheroids Growth*, Phys. Scripta **T118**, 157 - 160 (2005).

## ACCEPTED

## SUBMITTED

1. E. Franzoni, A. Leemann, **M. Griffa**, P. Lura, *The „Terranova“ render of the Engineering Faculty in Bologna (Giuseppe Vaccaro, 1931-1935): An example of outstanding durability*, submitted to Materials and Structures (February 2017).

## IN PREPARATION

1. **S. Iswar**, **M. Griffa**, R. Kaufmann, M. Beltran, **L. Huber**, S. Brunner, M. Lattuada, M.K. Koebel, W.J. Malfait, *Effect of aging on thermal conductivity of fiber-reinforced aerogel composites: An X-ray micro-tomography investigation*, to be submitted to Micropor. Mesopor. Mat.
2. **M. Griffa**, **G. Igarashi**, M. Scalerandi, A. Leemann, J. Neuenschwander, S. Sanabria, P. Lura, *Alkali-Silica Reaction damage progression: detection by nonlinear ultrasounds and characterization by X-ray micro-tomography*, to be submitted to Cem. Concr. Res.
3. **M. Griffa**, **G. Igarashi**, A. Leemann, J. Neuenschwander, P. Lura, *An investigation of the correlations between cracking and the nonlinear elastic behavior of concrete by X-ray micro-tomography*, to be submitted to J. Appl. Phys.

4. **M. Griffa**, A. Leemann, B. Münch, R. Mokso, F. Marone, P. Lura, *Synchrotron radiation-based X-ray Tomographic Microscopy of Alkali-Aggregate Reaction damage produced in concrete by different acceleration protocols*, to be submitted to *J. Microscopy*.

## Papers in non-SCI(E) Journals

1. M. Scalerandi, **M. Griffa**, *Modelling the coupling between apoptosis and host rigidity in the growth of Multicellular Tumour Spheroids*, *WSEAS Transactions on Biology and Biomedicines* **1**, 237 (2004).

2. **M. Griffa**, **S. Delsanto**, **L. Morra**, P.P. Delsanto, *Mesoscopic Modeling of Multicellular Tumor Spheroids: Validation through a Quantitative Comparison with Experimental Data*, *WSEAS Transactions on Biology and Biomedicines* **1**, 249 (2004).

## Papers in Proceedings of International Conferences

1. **U.M. Arepalli**, R.B. Mallick, P. Mathisen, L. Poulikakos, **M. Griffa**, S. Hartmann, D. Nener-Plante, *A study of hot mix asphalt (HMA) susceptible to moisture induced material loss*, *Proceed. of 96<sup>th</sup> Annual Meeting of the Transportation Research Board*, Paper n° 17-04156. [Abstract](#).

2. **F. Yang**, **M. Griffa**, **A. Hipp**, H. Derluyn, P. Moonen, R. Kaufmann, M. Boone, F. Beckmann, P. Lura, *Advancing the visualization of pure water transport in porous materials by fast, Talbot interferometry-based multi-contrast X-ray Micro-Tomography*, *Proceed. SPIE 9967*, Paper 99670L, „Development of X-ray Tomography X“, Aug. 28<sup>th</sup> - Sept. 1<sup>st</sup> 2016, San Diego (CA), USA (August 2016). DOI: 10.1117/12.2236221. [Abstract](#).

3. L. Poulikakos, **M. Griffa**, **M.C. Cavalli**, M. Partl, *Digital sieving as a tool for designing high RAP mixtures*, [International Symposium on Asphalt Pavements and Environment \(ISAP2016\) and 53<sup>rd</sup> Annual Petersen Asphalt Research Conference](#), July 18<sup>th</sup> - 21<sup>st</sup> 2016, Western Research Institute, Jackson Hole (USA).

4. R. Kaufmann, **F. Yang**, M. Beltran, S. Hartmann, **M. Griffa**, P. Lura, A. Neels, *Dark-Field Imaging on Micro- and Macro-Focus Sources in Comparison with Normal Micro-CT for Building Materials*, *Proceed. 19<sup>th</sup> World Conference on Non-Destructive Testing (WCNDT 2016)*, June 13<sup>th</sup> - 17<sup>th</sup> 2016, Munich (Germany).

5. R. Kaufmann, **F. Yang**, **F. Prade**, **M. Griffa**, I. Jerjen, **C. Di Bella**, J. Herzen, **A. Sarapata**, F. Pfeiffer, P. Lura, A. Neels, *Enhancing X-ray imaging of liquids in porous materials*, *Proceedings of the Digital Industrial Radiology and Computed Tomography (DIR2015) conference*, June 22<sup>nd</sup> - 25<sup>th</sup> 2015, Ghent (Belgium).

6. R. Kaufmann, A. Flisch, **M. Griffa**, S. Hartmann, J. Hofmann, I. Jerjen, **Y. Liu**, T. Lüthi, A. Neels, M. Plamondon, F.A. Reifler, P. Schuetz, **C. Stritt**, **F. Yang**, A. Dommann, *New directions in X-ray tomography*, *Proceedings of the 11<sup>th</sup> European Conference on Non-Destructive Testing (ECNDT 2014)*, September 6<sup>th</sup> - 10<sup>th</sup> 2014, Prague (Czech Republic).

7. B. Weber, M. Wyrzykowski, **M. Griffa**, S. Carl, E. Lehmann, P. Lura, *Neutron radiography of heated high-performance mortar*, *MATEC Web of Conferences* **6**,



03004 (2013). DOI: 10.1051/mateconf/20130603004. [Abstract](#). [3<sup>rd</sup> International Workshop on Concrete Spalling due to Fire Exposure \(Fire Spalling 2013\)](#), September 25th - 27th 2013, Paris (France). Peer-Reviewed.

8. **M. Griffa** , B. Münch, **G. Igarashi**, A. Leemann, R. Mokso, I. Jerjen, P. Schuetz, P. Lura, *Damage in Cement-based Materials by the Alkali-Aggregate Reaction: Detection and Characterization by X-ray Tomographic Microscopy*, extended abstract, pages 317-320, Book of Abstracts (Vol. 2, Posters), [1st International Conference on Tomography of Materials and Structures \(ICTMS2013\)](#), July 1st - 5th 2013, Ghent (Belgium). Peer-Reviewed.
9. P. Antonaci, A.S. Gliozzi, **M. Griffa**, M. Scalerandi, [Damage assessment in solids through nonlinear ultrasonics in the time domain](#), Proceed. of the 13<sup>th</sup> International Symposium on Nondestructive Characterization of Materials, May 20<sup>th</sup> - 24<sup>th</sup> 2013, Le Mans, France. 8 pages (Peer-Reviewed)
10. **H. Derluyn**, **M. Griffa**, D. Mannes, I. Jerjen, **J. Dewanckele**, P. Vontobel, A. Sheppard, M. N. Boone, D. Derome, V. Cnudde, E. Lehmann, J. Carmeliet, *Probing salt crystallization damage mechanisms in porous limestone with neutron radiography and X-ray tomography*, Proceedings of the 5th International Building Physics Conference, the 5<sup>th</sup> IBPC organizing committee (eds.), May 28th - 31st 2012, Kyoto, Japan, 95-102 (Peer-Reviewed).
11. **H. Derluyn**, **M. Griffa**, D. Mannes, I. Jerjen, **J. Dewanckele**, P. Vontobel, D. Derome, V. Cnudde, E. Lehmann, J. Carmeliet, *Quantitative analysis of saline transport and crystallization damage in porous limestone visualized by neutron and X-ray imaging*, Proceedings of the Salt and Weathering on Buildings and Stone Sculptures (SWBBS) 2011 conference, October 19<sup>th</sup> - 22<sup>nd</sup> 2011, Limassol, Cyprus (Peer-Reviewed).
12. B.E. Anderson, **M. Griffa**, T.J. Ulrich, P-Y. Le Bas, R.A. Guyer, P.A. Johnson, *Crack localization and characterization in solid media using time reversal techniques*, Proceedings of the 44<sup>th</sup> US Rock Mechanics Symposium, June 27<sup>th</sup> - 30<sup>th</sup> 2010, Salt Lake City, Utah, USA (Peer-Reviewed).
13. B.E. Anderson, T.J. Ulrich, **M. Griffa**, P.A. Johnson, M. Scalerandi, A. Gliozzi, *Selective Source Reduction to Identify Masked Smaller Sources Using Time Reversal Acoustics*, Proceedings of QNDE (Quantitative Non-Destructive Evaluation) 2007 Conference, July 22<sup>nd</sup> - 27<sup>th</sup> 2007, Golden, Colorado, USA.
14. T.J. Ulrich, B.E. Anderson, **M. Griffa**, *Improving Focal Determination of Time Reversed Acoustic Signals*, Proceedings of QNDE (Quantitative Non-Destructive Evaluation) 2007 Conference, July 22<sup>nd</sup> - 27<sup>th</sup> 2007, Golden, Colorado, USA.
15. B.E. Anderson, P.A. Johnson, T.J. Ulrich, **M. Griffa**, *Complex source imaging using time-reversal (TR): experimental studies of spatial and temporal resolution limits*, Proceedings of the 153rd Meeting of the Acoustical Society of America, June 4<sup>th</sup> - 8<sup>th</sup> 2007, Salt Lake City, Utah, USA.
16. **M. Griffa**, P.A. Johnson, R.A. Guyer, T.J. Ulrich, B.E. Anderson, Time Reversal Acoustics (TRA) reconstruction of symmetric-in-time sources in solid elastic specimens: investigation of the effects of finite-size transducers on TRA in solids, Proc. XII International Workshop on Nonlinear Elasticity in Materials (IWNEM), Ajaccio (Corsica), June 3<sup>rd</sup> - 9<sup>th</sup> 2007.

17. **M. Nobili**, F. Bosia, A. Gliozzi, **M. Griffa**, M. Scalerandi, *Acoustic Emission and Nonlinear Elasticity in Fatigue Induced Damage*, Proceedings of the 12<sup>th</sup> International Congress on Sound and Vibration - ICSV12 - Lisbon, July 11<sup>th</sup> - 14<sup>th</sup> 2005.
18. F. Bosia, P.P. Delsanto, A. Gliozzi, **M. Griffa**, **M. Nobili**, M. Scalerandi, *Acoustic Emission and Nonlinear Hysteretic Elasticity: a combined model*, Proceedings of the 12<sup>th</sup> International Congress on Sound and Vibration - ICSV12 - Lisbon, July 11<sup>th</sup> - 14<sup>th</sup> 2005.
19. **M. Bentahar**, R. El Guerjouma, **M. Griffa**, M. Scalerandi, *Méthodes émergents en acoustique non-linéaire pour le contrôle non destructif et le contrôle de santé des matériaux*, Proceedings of the 17<sup>th</sup> French Congress of Mechanics, August 29<sup>th</sup> - September 2<sup>nd</sup>, Troyes (France).
20. **S. Delsanto**, **L. Morra**, **M. Griffa**, C. Demartini, A Genetic Algorithms' Approach to the Exploration of Parameter Space in Mesoscopic Multicellular Tumor Spheroids Models, Conference Proceedings, IEEE EMBC 2004 (26<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society), 1-5 Sept. 2004, Vol. 1, 675-678;

## Chapters in Books

1. M. Scalerandi, **M. Nobili**, **M. Griffa**, A.S. Gliozzi and F. Bosia, *Numerical Analysis of the Anomalous Elastic Behavior of Hysteretic Media: Quasi-Static, Dynamic and Relaxation Experiments*, Chapter 17, pag. 267-284, in *The universality of nonclassical nonlinearity/ with applications to NDE and Ultrasonics*, edited by P.P. Delsanto, Springer (New York), 2006.
2. **S. Delsanto**, **M. Griffa**, **L. Morra**, *Inverse Problems and Genetic Algorithms. Applications in NDE/NDT & Ultrasonics*, Chapter 22, pag. 369-386, in *The universality of nonclassical nonlinearity/ with applications to NDE and Ultrasonics*, edited by P.P. Delsanto, Springer (New York), 2006.

## Technical reports

A. Leemann, **M. Griffa**, [\*Diagnosis of alkali-aggregate reaction in dams\*](#), state-of-the-art report, Swiss Federal Office of Energy project nr. [SI/500863-01](#).