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- 1) J.M. Crolet, **M. Racila**, "*Elaboration of assumptions for the fluid problem at microscopic scale in Sinupros, mathematical model of cortical bone*", Mathematical and Computer Modelling, vol. 49, issue 11-12, **2009**, ISSN: 0895-7177, pp. 2182-2190 (**ISI; IF 2008: 1.032**) (*IDS Number: 441CD*)
(<http://dx.doi.org/10.1016/j.mcm.2008.07.027>)
- 2) **M. Racila** and J.M. Crolet, "*SiNuPrOs : Mathematical Model of Human Cortical Bone*", Recent Advances in Mathematics and Computers in biology and chemistry, ISBN: 978-960-474-062-8, ISSN: 1790-5125, published by WSEAS Press (www.wseas.org), pp. 53-58, march **2009** (**ISI**) (*IDS Number: BJF25*)
(http://apps.isiknowledge.com.gate4.inist.fr/full_record.do?product=WOS&search_mode=GeneralSearch&qid=17&SID=4Cm3Lg3Hbbai6@diK1p&page=1&doc=2&cacheurlFromRightClick=no)
- 3) **Racila M.**, Crolet J. M., „*Transport of oxygen in cortical bone. Influence of mechanical loading*”, **Proceeding** of the ECCOMAS, International Conference on Tissue Engineering 2009, P.J. Bartolo et al Eds, pp. 241-247, ISBN 978-972-8469-90-0, **2009** (**BDI**)
- 4) Crolet J.M., **Racila M.**, *Mathematical modelization of fluid flow in osteonal structures*, Computer Methods in Biomechanics and Biomedical Engineering, ISSN: 1025-5842, Volume 12, Supplement 1, pp 87-89, **2009** (**ISI; IF 2008: 1.033**) (DOI: 10.1080/10255840903077220) (<http://www.ingentaconnect.com/content/tandf/gcmb/2009/00000012/A00101s1/art00031;jsessionid=akpa4t7qniq82.victoria>)
- 5) Stroe, C.M., **Racila M.**, Crolet J. M., *Numerical simulation of fluid flow in the cortical part of a human femur*, Computer Methods in Biomechanics and Biomedical Engineering, ISSN: 1025-5842, Volume 12, Supplement 1, pp 235-237, **2009** (**ISI; IF 2008: 1.033**) (DOI: 10.1080/10255840903094043) (<http://www.ingentaconnect.com/content/tandf/gcmb/2009/00000012/A00101s1/art00098;jsessionid=akpa4t7qniq82.victoria>)
- 6) Miladi W., **Racila M.**, *Mathematical model of fluid flow in an osteon. Influence of cardiac system*, Computer Methods in Biomechanics and Biomedical Engineering, ISSN: 1025-5842, Volume 12, Supplement 1, pp 187-189, **2009** (**ISI; IF 2008:1.033**) (DOI: 10.1080/10255840903091502) (<http://www.ingentaconnect.com/content/tandf/gcmb/2009/00000012/A00101s1/art00075;jsessionid=akpa4t7qniq82.victoria>)
- 7) **M. Racila**, M.C. Stroe and J.M. Crolet, "*Human cortical bone: the SiNuPrOs model. Part II – a multi-scale study of permeability*", Computer Methods in Biomechanics and Biomedical Engineering - aparut online in iulie **2009** (**ISI**) (DOI: **10.1080/10255840903045037**)(*PMID:19639487*)
(<http://www.informaworld.com/smpp/content~db=all~content=a913461191>)
- 8) **M. Racila**, J.M. Crolet, "*Homogenization of Human Cortical Bone. Numerical Approach*", Proceedings of the 5th International Conference “Dynamical Systems and Applications”, Volume 1, Special Issue 11, June **2009**, Ovidius University Press, ISSN: 1584-5990, pp. 141-154 (under evaluation **ISI**)
(http://www.univ-ovidius.ro/faculties/civil_eng/conferinta%20iunie%202009/Home.html)
- 9) **M. Racila**, J.M. Crolet, "*Collagen's role in the cortical bone's behavior: a numerical approach*", acceptat spre publicare in Computer Methods in Biomechanics and Biomedical Engineering (**ISI**)