

BIBLIOGRAPHY

André BERGER

**Université Catholique de Louvain
Earth and Life Institute
Georges Lemaître Center for Earth and Climate Research
(Formerly Institut d'Astronomie et de Géophysique Georges Lemaître)
2 Chemin du Cyclotron
1348 Louvain-la-Neuve**

1. Books and Thesis

2. Articles in journals (with peer reviews)

March 2017

1. Books and Thesis

BERGER A., *Théorie astronomique des Paleoclimats.* Dissertation doctorale, Université catholique de Louvain, Faculté des Sciences, 2 volumes, 1973.

BERGER A., *Investigation of anomalies of minimum and maximum temperatures winter and summer at Omaha, Nebraska.* Master degree thesis, Massachusetts Institute of Technology, Department of Meteorology, 1971. (supervisor: H.C. Willett). Cfr Willett, H.C., 1974. Recent statistical evidence in support of the predictive significance of solar-climatic cycles. *Monthly Weather Review*, 102(10), 679-686.

BERGER A., SANTOMAURO L. (Eds), *Proceedings of the Workshop of Advanced Mathematical Air Pollution Models*, Firenze, March 1979, Collegio degli Ingegneri della Toscana.

BERGER A. (Ed.), *Climatic Variations and Variability : Facts and Theories*, NATO ASI, D. Reidel Publishing Company, Dordrecht, Holland, 795pp., 1981.

BACH W., CRANE A., BERGER A. and LONGHETTO, A. (Eds), *Carbon Dioxide.* A text on Current views and Developments in Energy/Climate Research. Proceedings of 2^d Erice International School of Climatology (held July 1982), Reidel Publ. Company, 525pp., 1983.

BERGER A., NICOLIS C. (Eds), *New Perspectives in Climate Modelling.* Proceedings of the EGS Symposium S14 (1982). Developments in Atmospheric Sciences, vol. 16, Elsevier Publishing Company, Holland, 403pp., 1984.

BERGER A., IMBRIE J., HAYS J., KUKLA G. and SALTZMAN B. (Eds), *Milankovitch and Climate. Understanding the Response to orbital Forcing.* NATO ASI Series C vol. 126, Reidel Publ. Company, Holland, 895pp., 1984.

BERGER A., 1984. Man's Impact on Climate. In : "The Climate of Europe : Past, Present and Future. Natural and Man-Induced Climatic Changes : A European Perspective". H. FLOHN and R. FANTECHI (Eds), Atmospheric Sc. Library, Reidel Publ. Company, Holland, 1984. Chap. 4, pp. 134-197. Also contribution to the whole planning of the book and discussion of each chapter.

BERGER A. (Ed.), *The Big Bang and Georges Lemaître*, Reidel Publ. Company, Holland, 420pp., 1984.

BERGER A. et ALLARD A. (Eds). *Quelques Etapes de l'Histoire de l'Astronomie et de la Géophysique en Belgique.* Travaux de la Faculté de Philosophie et Lettres de l'Université Catholique de Louvain - XXXIV, Institut d'Astronomie et de Géophysique G. Lemaître et Centre d'Histoire des Sciences et des Techniques, Sources et Travaux - III, 109p., 1987.

BERGER A., DICKINSON R., KIDSON J. (Eds), 1989. *Understanding Climate Change.* Geophysical Monograph n° 52 - IUGG vol. 7, American Geophysical Union, Washington D.C., 187pp.

BERGER A., SCHNEIDER S., DUPLESSY J.Cl. (Eds), 1989. *Climate and Geo-Sciences, a Challenge for Science and Modern Society in the 21st Century.* NATO ASI Series C : Mathematical and Physical Sciences, vol. 285, Kluwer Academic Publishers, Dordrecht, Holland, 724pp.

BERGER A., DUPLESSY J.Cl. (Eds), 2004. *Paléoclimatologie-Paleoclimatology*. GEOSCIENCE, Comptes Rendus Académie des Sciences de Paris, Tome 336, fascicule 7-8, 597-750.

BERGER A., ERCEGOVAC M., MESINGER F. (Eds), 2005. *Paleoclimate and the Earth Climate System. Milankovitch Anniversary Symposium*. Serbian Academy of Sciences and Arts Scientific Meetings, vol. CX, Dept of Mathematics, Physics and Geosciences, Book 4, Belgrade, 190 pp.

ABEL O., BARD E., BERGER A., BESNIER J.M., GUESNERIE R., SERRES M. (Eds), 2009. *Ethique et Changement Climatique*. Coordination Bordeyne Ph., Léna P. et Oborne M., Edition Le Pommier, Paris, 204p. ISBN 978-2-7465-0440-0.

BERGER A., BRACONNOT P., GUO Z., ROUSSEAU D.D., and TADA R. (Eds), 2009. *The East Asian Monsoon: Past, Present and Future*. Climate of the Past 2008-2009, Special Issue, vol. 4, 19-28, 79-90, 137-145, 153-174, 175-180, 225-233, 281-294, 303-309; vol. 5, 13-19, 129-141. Copernicus Publications. ISSN 1814-9324

BERGER A., MESINGER F. and ŠIJACJI D. (Eds), 2012. *Climate Change. Inferences from paleoclimate and regional aspects*. Springer Verlag, Wien. 244pp. Milutin Milankovitch 130th Anniversary Symposium. DOI 10.1007/978-3-7091-0973-1.

BERGER A., 1992. *Le Climat de la Terre, un passé pour quel avenir*. De Boeck Université, Bruxelles, 479pp.

BERGER A., *Astronomical Theory of Climatic Variations*. (in preparation).

Dedicated Book :

CRUCIFIX M., LOUTRE M.F., CLAUSSEN M., GANSSEN G., ROUSSEAU D.D., WOLFF E., and J. GUIOT, 2008-2009. *Climate Change: from the geological past to the uncertain future – a symposium honouring André Berger*. Special Issue of Climate of the Past, vol. 5. Copernicus Publications. ISSN 1814-9324.

Corrigendum of preface, 2009. Climate of the Past, 5, 723.

2. Articles in international journals

In March 2017, I had 145 papers published in international journals with referees and 152 in proceedings, books and Encyclopedia. Google total citations was 22029 with H-factor 61 and i10-index 149. My 1978 paper (single author) was cited 1949 times and the 1991 paper where I am the first author 2654 times. I have 6 papers cited more than 1000 times, among which 3 as first author with 2 as single. Among my 40 papers cited more than 100 times, 21 are as first author with 9547 citations and 11 are alone with 5244 citations. Over the last 3 years, my citation increased by 40%.

Ten most cited papers in astronomical theory of paleoclimates

- BERGER, A., 1976. Obliquity and general precession for the last 5 000 000 years, Astronomy and Astrophysics, 51, 127-135.
- BERGER, A., 1977. Support for the astronomical theory of climatic change. Nature, 268, 44-45.
- BERGER, A., 1978. Long-term variations of caloric insolation resulting from the Earth's orbital elements. Quaternary Research, 9, 139-167.
- BERGER, A., 1978. Long-term variations of daily insolation and Quaternary Climatic Changes. Journal of Atmospheric Science, 35(12), 2362-2367.
- BERGER, A., 1988. Milankovitch Theory and Climate. Review of Geophysics, 26(4), pp. 624-657.
- SHACKLETON N.J., BERGER A., PELTIER W.R., 1990. An alternative astronomical calibration of the lower Pleistocene time scale based on ODP site 677. Phil. Transactions of the Royal Society of Edinburgh: Earth Sciences, vol. 81 part 4, pp. 251-261.
- BERGER A., LOUTRE M.F., 1991. Insolation values for the climate of the last 10 million years. Quaternary Science Reviews, 10 n°4, pp. 297-317.
- BERGER A., LOUTRE M.F., LASKAR J., 1992. Stability of the astronomical frequencies over the Earth's history for paleoclimate studies. Science, 255, pp. 560-566.
- IMBRIE J., BERGER A., BOYLE E.A., CLEMENS S.C., DUFFY A., HOWARD W.R., KUKLA G., KUTZBACH J., MARTINSON D.G., McINTYRE A., MIX A.C., MOLFINO B., MORLEY J.J., PETERSON L.C., PISIAS N.G., PRELL W.L., RAYMO M.E., SHACKLETON N.J., and J.R. TOGGWEILER, 1993. On the structure and origin of major glaciation cycles. 2. The 100,000-year cycle. Paleoceanography, 8(6), pp. 699-735.
- BERGER A. And M.F. LOUTRE, 2002. An Exceptionally long Interglacial Ahead ? Science, 297, pp. 1287-1288.

All papers in international journals with referees

1. BERGER, A., 1975. Terrestrial insolation and elliptic integrals. Détermination de l'irradiation solaire par les intégrales elliptiques. Annales Société Scientifique de Bruxelles, series 1, Sciences Mathématiques, Astronomiques et physiques, Tome 89(1), 69-91.
2. BERGER, A., 1976. Long term variations of daily and monthly insolation during the Last Ice Age. EOS, 57(4), p.254.
3. BERGER, A., 1976. Obliquity and general precession for the last 5 000 000 years, Astronomy and Astrophysics, 51, 127-135.
4. BERGER, A., 1977. Support for the astronomical theory of climatic change. Nature, 268, 44-45.
5. BERGER, A., 1977. Power and limitation of an energy-balance model as applied to the astronomical theory of paleoclimates. Palaeogeography, -climatology, -ecology, 21, 227-235.
6. BERGER, A., 1977. Long-term variations of the ecliptical elements. Celestial Mechanics, 15, 53-74.
7. BERGER, A., 1978. Long-term variations of caloric insolation resulting from the Earth's orbital elements. Quaternary Research, 9, 139-167.
8. BERGER, A., 1978. Long-term variations of daily insolation and Quaternary Climatic Changes. Journal of Atmospheric Science, 35(12), 2362-2367.
9. BERGER, A., 1979. Insolation signatures of Quaternary Climatic Changes. Il Nuovo Cimento, 2C(1), 63-87.
10. BERGER, A., GUIOT, J., MUNAUT, A., MATHIEU, L., 1979. Tree rings and climate in Morocco. Tree Ring Bulletin, 39, 61-75.
11. BERGER, A., 1979. Spectrum of climatic variations and their causal mechanisms. Geophysical Surveys, 3(4), 351-402.
12. BERGER, A., 1979. La théorie astronomique des paléoclimats. La Météorologie, VIe série n° 16, 9-15.
13. BERGER, A., 1980. Milankovic astronomical theory of paleoclimates : a modern review. Vistas in Astronomy, 24(2), 103-122.
14. KUKLA, G., BERGER, A., LOTTI, R., BROWN, J., 1981. Orbital signature of interglacials. Nature, 290, 295-300.
15. BERGER, A., GUIOT, J., KUKLA, G., PESTIAUX, P., 1981. Long-term variations of monthly insolation as related to climatic changes. Geologischen Rundschau, Band 70, 748-758.
16. BERGER, A., MELICE, J.L., DEMUTH, Cl., 1982. Statistical distribution of daily and high atmospheric SO₂ concentrations. Atmospheric Environment, 16(12), 2863-2877.
17. PESTIAUX, P., BERGER, A., 1983. The use of minimum cross entropy spectral analysis (MCESA) in paleoclimatology. Annales Geophysicae, 1(4-5), pp. 375-379.

18. BERGER, A., GOOSSENS, Chr., 1983. Persistence of wet and dry spells at Uccle (Belgium). Journal of Climatology, 3, 21-34.
19. GUIOT, J., BERGER, A., MUNAUT, A., 1982. Some new mathematical procedures in dendroclimatology with examples from Switzerland and Morocco. Tree Ring Bulletin 42, pp. 33-48.
20. BERGER, A., 1983. Approche astronomique des variations paléoclimatiques : les variations mensuelles et en latitudes de -130 000 à -100 000 et de -30 000 à aujourd'hui. Bulletin Institut de Géologie, Bassin d'Aquitaine 34, pp. 7-26.
21. GOOSSENS, Chr., BERGER, A., 1984. Die Andauer von Trocken- und Regenperioden in Belgien. Archiv für Meteorologie, Geophysik und Bioklimatologie, serie B 04, 34(3), pp. 243-256.
GOOSSENS, Chr., BERGER, A., 1984. Persistance of dry and wet spells in Belgium. Meteorology and Atmospheric Physics 01/1984; 34(3):243-256.
DOI:10.1007/BF02265490
22. BERGER, A., 1984. Discussion on statistical distribution of daily and high atmospheric SO₂ concentrations. Reply. Atmospheric Environment, 18 n°4, pp. 880-882.
23. BERGER, A., 1985. The astronomical theory of paleoclimates. World Climate Program Newsletter, 7, pp. 1-3.
24. BERGER, A., 1986. Nuclear winter or nuclear fall ? EOS, 67(32), pp. 617-621.
25. BERGER, A., 1986. Hiver nucléaire. Les conséquences climatiques de vastes incendies planétaires ou d'une guerre atomique mondiale. La Recherche, 17(179), pp. 880-890.
26. BERGER, A., TRICOT, Ch., 1986. I cambiamenti climatici su grande scala e la teoria astronomica dei paleoclimi. Coelum, LV, 5, pp. 213-228.
27. GOOSSENS, Chr., BERGER, A., 1986. Annual and seasonal climatic variations of Northern Hemisphere and Europe over the last century. Annales Geophysicae, 4, B4, pp. 385-400.
28. GOVAERTS, Y., VAN DER MERSCH, I., BERGER, A., PESTIAUX, P., DUPLESSY, J.Cl., 1986. Analyse du comportement climatique en fréquence et en phase pour le dernier cycle glaciaire-interglaciaire. Bulletin de l'AFEQ, 1/2, pp. 7-16.
29. TRICOT, Ch., BERGER, A., 1987. Modelling the equilibrium and transient responses of temperature to past and future trace gases concentrations. Climate Dynamics, 2, pp. 39-61.
30. BERGER, A., 1988. Milankovitch Theory and Climate. Review of Geophysics, 26(4), pp. 624-657.
31. PESTIAUX, P., DUPLESSY, J.Cl., VAN DER MERSCH, I., BERGER, A., 1988. Paleoclimatic variability at frequencies ranging from 1 cycle per 10,000 years to 1 cycle per 1,000 years : evidence for nonlinear behavior of the climate system. Climatic Change, 12(1), pp. 9-37.
32. BERGER, A., 1989. Théorie astronomique des paléoclimats (en chinois). Chinese Translation, Bulletin of Glaciology and Geocryology, 6(2), pp. 79-80.
33. BERGER, A., 1989. Pleistocene climatic variability at astronomical frequencies. Quaternary International, 2, pp. 1-14.

34. BERGER, A., LOUTRE, M.F., DEHANT, V., 1989. Influence of the changing lunar orbit on the astronomical frequencies of the Pre-Quaternary insolation patterns. Paleoceanography, 4 n°5, pp. 555-564.
35. BERGER, A., LOUTRE, M.F., DEHANT, V., 1989. Astronomical frequencies for Pre-Quaternary paleoclimates studies. Terra Nova, 1(5), pp. 474-479.
36. BERGER, A., LOUTRE, M.F., DEHANT, V., 1989. Pre-Quaternary Milankovitch frequencies. Nature, 342, p. 133.
37. FICHEFET, Th., TRICOT, C., BERGER, A., GALLEE, H., MARSIAT, I., 1989. Climate studies with a coupled atmosphere-upper ocean-ice sheets model. Philosophical Transactions of the Royal Society of London, A329, pp. 249-261.
38. BERGER A., 1990. Paleo-insolation at the Plio-Pleistocene boundary. Paléobiologie Continentale (Montpellier), XVII, pp. 1-24.
39. BERGER A., LOUTRE M.F., 1990. Origine des fréquences des éléments astronomiques intervenant dans le calcul de l'insolation. Bulletin Sciences, 1-3/90, pp. 45-106, Academie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique.
40. BERGER A., LOUTRE M.F., 1990. New astronomical values for the Late Cenozoic insolations. EOS, AGU Transactions, 71(43), pp. 1377.
41. BERGER A., MELICE J.L., VAN DER MERSCH I., 1990. Evolutive spectral analysis of sunspot data over the last 300 years. Phil. Trans. R. Soc. London, A330, pp. 529-541.
42. BERGER, A., GALLEE, H., FICHEFET, Th., MARSIAT, I., TRICOT, Ch., 1990. Testing the astronomical theory with a coupled climate-ice sheet model. in : L.D. Labeyrie and C. Jeandel (Eds), Geochemical variability in the Oceans, Ice and Sediments. Palaeogr., Palaeoclimatol., Palaeoecol., 89(1/2), Global and Planetary Change Section, 3(1/2), pp. 125-141.
43. BERGER, A., FICHEFET, Th., GALLEE, H., MARSIAT, I., TRICOT, Ch., van Ypersele J.P., 1990. Physical interactions within a coupled climate model over the last glacial-interglacial cycle. Phil. Transactions of the Royal Society of Edinburgh : Earth Sciences, vol. 81 part 4, pp. 357-369.
44. DEHANT, V., LOUTRE, M.F., BERGER, A., 1990. Potential impact of the northern hemisphere Quaternary ice sheets on the frequencies of the astro-climatic orbital parameters. J. Geophys. Res., 95 D6, pp. 7573-7578.
- 44B. LOUTRE M.F., DEHANT V., BERGER A., 1990. Astronomical frequencies of astronomical data and the dynamical ellipticity of the Earth. In Earth's rotation from Eons to Days, P. Brosch and J. Sündermann (eds). Springer Verlag, Berlin Heidelberg, New York, 188-200.
45. MARSIAT, I., BERGER, A., 1990. On the relationship between ice volume and sea level over the last glacial cycle. Climate Dynamics, 4(2), 81-84.
46. SHACKLETON N.J., BERGER A., PELTIER W.R., 1990. An alternative astronomical calibration of the lower Pleistocene time scale based on ODP site 677. Phil. Transactions of the Royal Society of Edinburgh: Earth Sciences, vol. 81 part 4, pp. 251-261.
- 46A. WIGLEY TML, KELLY PM, EDDY JA, BERGER A, RENFREW AC, 1990. Holocene Climatic Change, C14 Wiggles and Variations in Solar Irradiance [and Discussion]. Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences, VOL 330 1615, 547-560.

- 46B. SONETT CP, FINNEY SA, BERGER A, 1990. The spectrum of radiocarbon [and discussion]. *Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences*, VOL 330 1615, 413-426.
47. BERGER, A., 1991. L'effet de serre et la santé humaine. *Bulletin et Mémoires de l'Académie Royale de Médecine de Belgique*, vol. 146 n° 11-12, pp. 426-456.
48. BERGER, A., MELICE, J.L., HINNOV, L., 1991. A strategy for frequency spectra of Quaternary climate records. *Climate Dynamics*, 5, pp. 227-240.
49. BERGER A., LOUTRE M.F., 1991. Insolation values for the climate of the last 10 million years. *Quaternary Science Reviews*, 10 n°4, pp. 297-317.
50. GALLEE, H., van YPERSELE, J.P., FICHEFET, Th., TRICOT, Ch., BERGER, A., 1991. Simulation of the last glacial cycle by a coupled sectorially averaged climate - ice-sheet model. I. The Climate Model. *J. Geophys. Res.*, 96, pp. 13,139-13,161.
51. BERGER, A., 1992. Astronomical theory of paleoclimates and the last glacial-interglacial cycle. *Quaternary Science Reviews*, 11, pp. 571-581.
52. BERGER A., 1992. L'effet de serre et la santé humaine. *Bulletin et Mémoires de l'Académie Royale de Médecine de Belgique*, 147 n° 3-4-5, pp. 170-173.
53. BERGER A., LOUTRE M.F., LASKAR J., 1992. Stability of the astronomical frequencies over the Earth's history for paleoclimate studies. *Science*, 255, pp. 560-566.
54. BERGER, A., FICHEFET, Th., GALLEE, H., TRICOT, Ch., van YPERSELE, J.P., 1992. Entering the glaciations with a 2-D coupled climate model. *Quaternary Science Reviews*, vol. 11 n°4, pp. 481-493.
55. BERGER A., LOUTRE M.F., 1992. Astronomical solutions for paleoclimate studies over the last 3 million years. *Earth and Planetary Science Letters*, 111, pp. 369-382.
56. BERGER A., and TRICOT, Ch., 1992. The Greenhouse Effect. *Surveys in Geophysics*, 13, pp. 523-549.
57. GALLEE, H., van YPERSELE, J.P., FICHEFET, Th., MARSIAT, I., TRICOT, Ch., BERGER, A., 1992. Simulation of the last glacial cycle by a coupled, sectorially averaged climate - ice-sheet model. II. Response to insolation and CO₂ variation. *J. Geophys. Res.*, 97 n°D14, pp. 15,713-15,740.
58. LOUTRE M.F., BERGER A., BRETAGNON P., BLANC P.L., 1992. Astronomical frequencies for climate research at the decadal to century time scale. *Climate Dynamics*, 7, pp. 181-194.
59. BERGER, A., GALLEE, H., TRICOT, Ch., 1993. Glaciation and deglaciation mechanisms in a coupled 2-D climate - ice sheet model. *J. of Glaciology*, 39 n° 131, pp. 45-49.
60. BERGER A., LOUTRE M.F., and TRICOT Ch., 1993. Insolation and Earth's orbital periods. *J. Geophys. Research*, 98 n° D6, pp. 10,341-10,362.
61. BERGER A., TRICOT C., GALLEE H., and M.F. LOUTRE, 1993. Water vapour, CO₂ and insolation over the last glacial-interglacial cycles. *Philosophical Transactions of the Royal Society*, London, B, 341, pp. 253-261.
62. HERTERICH K. and A. BERGER, 1993. Modelling the last ice-age cycle with 2-D climate models. *Palaeogeography, -climatology, -ecology*, 103, pp. 107-116.

63. HILGEN, F.J., LOURENS L.J., BERGER A., LOUTRE M.F., 1993. Evaluation of the astronomically calibrated time scale for the late Pliocene-Earliest Pleistocene. Paleoceanography, 8(5), pp. 549-565.
64. HOOGHIEMSTRA H., MELICE J.L., BERGER A., SHACKLETON N.J., 1993. Frequency spectra and paleoclimatic variability of the high resolution 30-1450 kyr FUNZA 1 pollen record (eastern Cordillera, Colombia). Quaternary Science Reviews, 12 n°2, pp. 141-156.
65. IMBRIE J., BERGER A., BOYLE E.A., CLEMENS S.C., DUFFY A., HOWARD W.R., KUKLA G., KUTZBACH J., MARTINSON D.G., McINTYRE A., MIX A.C., MOLFINO B., MORLEY J.J., PETERSON L.C., PISIAS N.G., PRELL W.L., RAYMO M.E., SHACKLETON N.J., and J.R. TOGGWEILER, 1993. On the structure and origin of major glaciation cycles. 2. The 100,000-year cycle. Paleoceanography, 8(6), pp. 699-735.
- 65a. ERIC BARRON, P. J. FAWCETT, D. POOLLARD, S. THOMPSON, A. BERGER , P. VALDES, 1993. Model Simulations of Cretaceous Climates: The Role of Geography and Carbon Dioxide [and Discussion]. Philosophical Transactions: Biological Sciences, Vol. 341, No. 1297, Palaeoclimates and their Modelling with Special Reference to the Mesozoic Era (Aug. 28, 1993), pp. 307-316
66. BERGER A., LOUTRE M.F., 1994. Astronomical forcing through geological time. Spec. Publs Int. Ass. Sediment., 19, pp. 15-24.
67. BERGER A., 1994. The Earth's past and future climate. EGS Newsletter, 53, pp. 1-8.
68. BERGER, A., 1995. Paleoclimatologia. Enciclopedia delle Scienze Fisiche, vol. IV, pp. 431-440.
69. BERGER A., 1995. Modeling the astronomical theory of paleoclimates. J. of Coastal Research. Special Issue n° 17: Holocene Cycles. Climate, Sea levels and Sedimentation, Ch.W. Fink (ed.), pp. 355-362.
70. LI X. and A. BERGER, 1996. Simulating Quaternary paleoclimate with the LLN 2-D model (in Chinese). Quaternary Sciences n°4, pp. 289-299.
71. BERGER, A., GALLEE, H., LI, X.S., DUTRIEUX, A., and M.F. LOUTRE, 1996. Ice-sheet growth and high latitudes sea-surface temperature. Climate Dynamics, 12, pp. 441-448.
72. BERGER A., 1996. Comments to "Insolation in terms of Earth's orbital parameters" by D.P. Rubincam – Theor. Appl. Climatol., 48, 195-202, 1994. Theor. Appl. Climatol., 53, pp. 253-255.
73. CLAUZON G., SUC J.P., GAUTIER F., BERGER A., and M.F. LOUTRE, 1996. An alternate interpretation of the Messinian salinity crisis: controversy resolved ? Geology, 24(4), pp. 363-366.
74. BERGER A. and M.F. LOUTRE, 1996. Modeling the climate response to the astronomical and CO₂ forcings. Comptes Rendus de l'Académie des Sciences de Paris, t. 323, série II a, pp. 1-16.
75. BERGER A., 1996. Les modèles climatiques se perfectionnent. Annales des Ponts et Chaussées, n°79, pp. 20-23.

76. BERGER, A., 1996. Orbital Parameters and Equations. Encyclopedia of Climate and Weather, S. Schneider (ed.), pp. 552-557, Robert Ubell Associates, Inc., Oxford University Press, New York.
77. BERGER, A., 1996. Orbital Variations. Encyclopedia of Climate and Weather, S. Schneider (ed.), pp. 557-564, Robert Ubell Associates, Inc., Oxford University Press, New York.
78. BERGER A. and M.F. LOUTRE, 1997. Paleoclimate sensitivity to CO₂ and insolation. Ambio, vol. XXVI n°1, pp. 32-37.
79. BERGER A. and M.F. LOUTRE, 1997. Long-term variations in insolation and their effects on climate, the LLN experiments. Surveys in Geophysics, 18, pp. 147-161.
80. BERGER A. and M.F. LOUTRE, 1997. Comments to the paper by McIntyre-Molfino Intertropical latitudes, precession and half precession cycles. Science, 278(5342), pp. 1476-1478.
81. LI X.S., BERGER A., LOUTRE M.F., MASLIN M.A., HAUG G.H., and R. TIEDEMANN, 1998. Simulating late Pliocene Northern Hemisphere climate with the LLN 2-D model. Geophysical Research Letters, 25(6), pp. 915-918.
82. LI X.S., BERGER A., and M.F. LOUTRE, 1998. CO₂ and Northern Hemisphere ice volume variations over the middle and late Quaternary. Climate Dynamics, 14, pp. 537-544.
83. BERGER A., LOUTRE M.F., and H. GALLEE, 1998. Sensitivity of the LLN climate model to the astronomical and CO₂ forcings over the last 200 kyr. Climate Dynamics, 14, pp. 615-629.
84. BERGER A., LOUTRE M.F. and J.L. MELICE, 1998. Instability of the astronomical periods from 1.5 Myr BP to 0.5 Myr AP. Paleoclimates Data and Modelling, 2(4), pp. 239-280.
85. MASLIN M.A., LI X.S., LOUTRE M.F., and A. BERGER, 1998. The contribution of orbital forcing to the progressive intensification of Northern Hemisphere glaciation. Quat. Sci. Rev., 17, pp. 411-426.
86. BERGER A., LI X.S. and M.F. LOUTRE, 1999. Modelling northern hemisphere ice volume over the last 3 Ma. Quaternary Science Reviews, 18, pp. 1-11.
87. BERTRAND C., van YPERSELE J.P. and A. BERGER, 1999. Volcanic and solar impacts on climate since 1700. Climate Dynamics, 15(5), pp. 355-367.
88. BERGER A. and A.J. McMICHAEL, 1999. Climate change and health: evidence and prospect. European Review, 7(3), pp. 395-412.
89. BERGER A., 1997. Astronomical dating and modeling of the last 200,000 years. Bulletin de la Société belge de Géologie, T. 196, pp. 43-51 (ed. en 1999).
90. LOUTRE M.F. and A. BERGER, 2000. No glacial-interglacial cycle in the ice volume simulated under a constant astronomical forcing and a variable CO₂. Geophysical Research Letters, 27(6), pp. 783-786.
91. LOUTRE M.F. and A. BERGER, 2000. Future climatic changes: are we entering an exceptionally long interglacial ? Climatic Change, 46(1-2), pp. 61-90.

92. CRUCIFIX M., LOUTRE M.F., LAMBECK K. and A. BERGER, 2001. Effect of isostatic rebound on modelled ice volume variations during the last 200 kyr. *Earth and Planetary Science Letters*, 184, pp. 623-633.
93. MELICE J.L., CORON A. and A. BERGER, 2001. Amplitude and frequency modulations of the Earth's obliquity for the last million years. *Journal of Climate*, 14(6), pp. 1043-1054.
94. BERGER A., 2002. From the astronomical theory of paleoclimates to global warming. *Bulletin de la Classe des Sciences*, 6e série, Tome XIII, 7-12, pp. 335-346.
95. BERGER A. And M.F. LOUTRE, 2002. An Exceptionally long Interglacial Ahead ? *Science*, 297, pp. 1287-1288.
96. CLAUSSEN M., MYSAK L.A., WEAVER A.J., CRUCIFIX M., FICHEFET T., LOUTRE M.F., WEBER S.L., ALCAMO J., ALEXEEV V.A., BERGER A., CALOV R., GANOPOLSKI A., GOOSSE H., LOHMAN G., LUNKEIT F., MOKHOV I.I., PETOUKHOV V., STONE P., WANG Z., 2002. Earth system models of intermediate complexity : closing the gap in the spectrum of climate system models. *Climate Dynamics*, 18, pp. 579-586; DOI 10.1007/s00382-001-0200-1.
97. BERTRAND C., LOUTRE M.F., CRUCIFIX M. and A. BERGER, 2002. Climate of the Last Millennium : A sensitivity study. *Tellus*, 54A, pp. 221-244.
98. CRUCIFIX M., LOUTRE M.F., TULKENS Ph., FICHEFET T. and A. BERGER, 2002. Climate evolution during the Holocene : A study with an Earth system model of intermediate complexity. *Climate Dynamics*, 19, pp. 43-60; DOI 10.1007/s00382-001-0208-6.
99. BERTRAND C., van YPERSELE J.P., and A. BERGER, 2002. Are natural climate forcings able to counteract the projected anthropogenic global warming ? *Climatic Change*, 55(4), pp. 413-427.
100. BERTRAND C., LOUTRE M.F. and A. BERGER, 2002. High frequency variations of the Earth's orbital parameters and climate change. *Geophysical Research Letters*, 29(18), 1893; DOI 10.1029/2002GL015622.
101. CRUCIFIX M. and A. BERGER, 2002. Simulation of ocean-ice sheets interactions during the deglaciation. *Paleoceanography*, 17(4), 1054, DOI: 10.1029/2001PA000702.
102. BERGER A., 2002. Global warming 2001. In: ERCA vol. 5, From the Impacts of Human Activities on our Climate and Environment to the Mysteries of Titan, C. Boutron (ed.), pp. Pr10-19 – Pr10-26, J. Phys. IV France 12, EDP Sciences, Les Ullis. DOI: 10.1051/jp4:20020449.
103. LOUTRE M.F. and A. BERGER, 2003. Marine Isotope Stage 11 as an analogue for the present interglacial. *Global and Planetary Change*, 36, pp. 209-217. DOI: 10.1016/S0921-8181(02)00186-8.
104. BERGER A., LOUTRE M.F. and M. CRUCIFIX, 2003. The Earth's climate in the next hundred thousand years (100 kyr). *Surveys in Geophysics*, 24, pp. 117-138.
105. BERGER A. and M.F. LOUTRE, 2003. A quand la prochaine glaciation ? *La Recherche*, 368, pp. 42-46.
106. BERGER A. and J.Cl. DUPLESSY, 2004. Pourquoi la paléoclimatologie ? *Comptes Rendus Geoscience*, 336, pp. 599-601.

107. BERGER A. and M.F. LOUTRE, 2004. Astronomical theory of paleoclimates. Théorie astronomique des paléoclimats. Comptes Rendus Geoscience, 336, pp. 701-709.
108. BERGER A. and M.F. LOUTRE, 2004. A quand la prochaine glaciation ? Les Dossiers de La Recherche, n°17, pp. 18-22.
109. BERGER A., and M.F. LOUTRE, 2004. Astronomical theory of climatic change. In: From Indoor Air Pollution to the Search for the Earth like Planets in the Cosmos. C. Boutron (ed.), Journal de Physique IV, vol. 121, , EDP, Sciences, Les Ulis, 1-35, DOI: 10.1051/jp4:2004121001.
110. BERGER A., 2005. Le réchauffement du climat au XXIe siècle : causes et conséquences. Bulletin de la Classe des Sciences, 6e série, Tome XVI, 7-12, Académie royale de Belgique, pp. 323-339.
111. LOUTRE M.F. and A. BERGER, 2005. Insolation, CO₂ précipitations en période interglaciaire. C.R. Geoscience, 337, pp. 69-78.
112. CRUCIFIX M., LOUTRE M.F., and A. BERGER, 2005. Commentary on "The anthropogenic greenhouse era began thousands of years ago". Climatic Change, 69(2-3), pp. 423-426 (DOI: 10.1007/s10584-005-7278-0).
113. BERGER A., MELICE J.L. and M.F. LOUTRE, 2005. On the origin of the 100-kyr cycles in the astronomical forcing. Paleoceanography, 20(4), PA4019, DOI: 10.1029/2005PA001173.
114. PETOUKHOV V., CLAUSSEN M., BERGER A., CRUCIFIX M., EBY M., ELISEEV A.V., FICHEFET T., GANOPOLSKI A., GOOSSE H., KAMENKOVICH I., MOKHOV I.I., MONTOYA M., MYSAK L.A., SOKOLOV A., STONE P., WANG Z. and A.J. WEAVER, 2005. EMIC Intercomparison Project (EMIP-CO₂): cocmparative analysis of EMIC simulations of climate, and of equilibrium and transient responses to atmospheric CO₂ doubling. Climate Dynamics, 25(4), pp. 363-385.
115. BERGER A., 2006. Astronomical origin of the large climatic variations during the Quaternary. Les causes astronomiques des grandes variations du climat au Quaternaire. C.R. Palevol, 5 (1-2), pp. 21-26.
116. CRUCIFIX M. and A. BERGER, 2006. How long will our interglacial be? EOS, Transactions, AGU, 87(35), pp. 352-353.
117. BERGER A., LOUTRE M.F. and J.L. MELICE, 2006. Equatorial insolation: from precession harmonics to eccentricity frequencies. Climate of the Past, 2, pp. 131-136.
118. CRUCIFIX M., LOUTRE M.F. and A. BERGER, 2006. The climate response to the astronomical forcing. Space Science Reviews, 125, pp. 213-226. DOI: 10.1007/s11214-006-9058-1.
119. YIN Q.Z., BERGER A., DRIESSCHAERT E., GOOSSE H., LOUTRE M.F., and CRUCIFIX M., 2008. The Eurasian ice sheet reinforces the East Asian summer monsoon during the interglacial 500 000 years ago. Climate of the Past, 4, 79-90. www.clim-past.net/4/79/2008/
120. GUO Z.T., BERGER A., YIN Q.Z. and L. QIN, 2009. Strong asymmetry of hemispheric climates during MIS-13 inferred from correlating China loess and Antarctica ice records. Climate of the Past, 5, pp. 21-31. www.clim-past.net/5/21/2009/
121. BERGER A., 2009. Monsoon and general circulation system. Chinese Science Bulletin, 54(7), pp. 1111-1112. doi: 10.1007/s11434-009-0170-y

122. BERGER A., 2009. Monsoon and general circulation system (translated in Chinese by Q. Yin). Chinese Science Bulletin (in Chinese), Science in China Press, 54(5), pp. 533-534.
123. YIN Q.Z., BERGER A., and M. CRUCIFIX, 2009. Individual and combined effects of ice sheets and precession on MIS-13 climate. *Climate of the Past*, 5, pp. 229-243. www.clim-past.net/5/229/2009/
124. TZEDAKIS P.C., RAYNAUD D., McMANUS J.F., BERGER A., BROVKIN V., and T. KIEFER, 2009. Interglacial diversity. *Nature Geoscience*, 2(11), pp. 751-755. doi:10.1038/ngeo660
125. YIN Q.Z. and A. BERGER, 2010. Insolation and CO₂ contribution to the interglacials before and after the Mid-Brunhes Event. *Nature Geoscience*, 3(4), pp. 243-246. doi:10.1038/ngeo771.
126. BERGER A., LOUTRE M.F. and Q.Z. YIN, 2010. Total irradiation during the interval of the year using elliptical integrals. *Quaternary Science Reviews*, 29, pp. 1968-1982. doi:10.1016/j.quascirev.2010.05.007
127. BERGER A. and M.F. LOUTRE, 2010. Modelling the 100-kyr glacial-interglacial cycles. *Global and Planetary Change*, 72, pp. 275-281. doi:10.1016/j.gloplacha.2010.01.003
128. HAN Wenzia, FANG X.M., BERGER A., YIN Q.Z., 2011. An astronomically tuned 8.1 Ma eolian record from the Chinese Loess Plateau and its implication on the evolution of Asian monsoon *J. Geophys Res.*, vol 116, doi:10.1029/2011JD016237.
129. YIN Q.Z. and A. BERGER, 2011. Individual contribution of insolation and CO₂ to the diversity of the interglacial climates of the past 800,000 years, *Climate Dynamics* on line, DOI 10.1007/s00382-011-1013-5.
YIN Q.Z. and A. BERGER, 2012. Individual contribution of insolation and CO₂ to the diversity of the interglacial climates of the past 800,000 years, *Climate Dynamics*, 38, 709-724. DOI 10.1007/s00382-011-1013-5
130. SUNDARAM, S., YIN, Q., BERGER A. and H. MURI, 2011/2012. Impact of ice sheet induced North Atlantic Oscillation on East Asian Summer Monsoon during an interglacial 500,000 years ago. *Climate Dynamics*, Special Issue on Global Monsoon. on line, DOI 10.1007/s00382-011-123-z.
Climate Dynamics, 2012, 39, 1093-1105. DOI 10.1007/s00382-011-1213-z.
131. MURI H., BERGER A., YIN Q.Z., VOLDOIRE A., SALAS Y MELIA D., SUNDARAM S., 2011. SST and ice sheets impacts on the MIS-13 climate. *Climate Dynamics*. vol 39 (7-8), on line, 10.1007/s00382-011-1216-9
MURI H., BERGER A., YIN Q.Z., VOLDOIRE A., SALAS Y MELIA D., SUNDARAM S., 2012. SST and ice sheets impacts on the MIS-13 climate. *Climate Dynamics*. vol 39 (7-8), p. 1739-1761. DOI 10.1007/s00382-011-1216-9
132. HAN W., FANG X., BERGER A., 2012. Tibet forcing of mid-Pleistocene synchronous enhancement of East Asian winter and summer monsoons revealed by Chinese loess record. *Quaternary Research*, 78, 174-184. doi:10.1016/j.yqres.2012.05.001.
133. HEROLD N., YIN Q.Z., KARAMI P., BERGER A., 2012 Modeling the climatic diversity of the warm interglacials. *J. Quaternary Science Review*, 56, 126-141. <http://dx.doi.org/10.1016/j.quascirev.2012.08.020>

134. Rohling, E.J. ; Sluijs, A. ; Dijkstra, H.A. ; Köhler, P. ; Van De Wal, R.S.W. ; Von Der Heydt, A.S. ; Beerling, D.J. ; Berger, André ; Bijl, P.K. ;Crucifix, Michel.PALEOSENS PROJECT MEMBERS, 2012. Making sense of paleoclimate sensitivity. *Nature*, 491, 683-691. Suppl. 1-38. doi:10.1038/nature11574.
135. YIN Q.Z., BERGER A., 2012 Analogues of the Holocene and its future, the Anthropocene. TECLIM/UCL, internal report.
136. BERGER A., de BEAULIEU J-L, MILLIER Cl. 2012. De la théorie astronomique au réchauffement global et au développement durable. *Natures Sciences Sociétés*, 20, 1-10. DOI: 10.1051/nss/2012038
137. NIKOLOVA I., YIN Q.Z., BERGER A., SINGH U. and KARAMI P, 2012. The last interglacial (Eemian) climate simulated by LOVECLIM and CCSM3. *Climate of the Past Discussion*, 8: 5293-5340, Special issue on the Progress in Paleoclimate Modelling.
- NIKOLOVA I., YIN Q.Z., BERGER A., SINGH U., KARAMI P., 2013. The last interglacial (Eemian) climate simulated by LOVECLIM and CCSM3. *Climate of the Past*, (Special Issue on Progress in Paleoclimate Modelling, Eds. M. Kageyama, C. Brierley, M. Crucifix, J. C. Hargreaves, A. Paul, and G. Ramstein), 9, 1789-1806, doi:10.5194/cp-9-1789-2013.
138. LUNT D.J., ABE-OUCHI A., BAKKER P., BERGER A., BRACONNOT P., CHARBIT S., FISCHER N., HEROLD N., JUNGCLAUS J., KHON V.C., KREBS-KANSOW U., LOHMANN G., OTTO-BLIESNER B., PARK W., PFEIFFER M., PRANGE M., RENSSSEN H., ROSENBLUM N., RACHMAYANI R., SCNEIDER B., STONE E.J., WEI W. YIN Q.Z., 2012. A multi-model assessment of last interglacial temperatures. *Climate of the Past Discussions*, 8, 3657-3691.
- Clim. Past, 9, 699–717, 2013. doi:10.5194/cp-9-699-2013
139. MURI H., BERGER A., YIN Q.Z., KARAMI P., BARRIAT P-Y., 2013. The climate of MIS-13 interglacial according to HadCM3. *eView, J. of Climate*, doi: 10.1175/JCLI-D-12-00520.1
- J. of Climate, 26, 9696-9712. doi: <http://dx.doi.org/10.1175/JCLI-D-12-00520.1>
140. YIN Q.Z., SINGH U., BERGER A., GUO Z., M. CRUCIFIX, 2014. Relative impact of insolation and the Indo-Pacific warm pool surface temperature on the East Asian Summer Monsoon during MIS-13 interglacial. *Climate of the Past*, 10, 1645-1657. doi:10.5194/cp-10-1645-2014.
141. KARAMI P., HEROLD N., BERGER A., YIN Q.Z., H. MURI, 2015. State of the tropical Pacific Ocean and its enhanced impact on precipitation over East Asia during Marine Isotopic Stage 13. *Climate Dynamics* 44(3-4), 807-825.DOI: 10.1007/s00382-014-2227-0
142. YIN Q.Z. abd BERGER A., 2015. Interglacials analogues of the Holocene and its near future. *Quaternary Science Review*, 120, 28-46. doi:10.1016/j.quascirev.2015.04.008
143. Past Interglacial Working Group of PAGES. A. Berger, M. Crucifix, D.A. Hodell, C. Mangili, J.F. McManus, B. Otto-Bliesner, K. Pol , D. Raynaud, L.C. Skinner, P.C. Tzedakis, E.W. Wolff, Q.Z. Yin, A. Abe-Ouchi, C. Barbante , V. Brovkin, I. Cacho, P. Ferretti, A. Ganopolski, J.O. Grimalt, B. Hönisch, K. Kawamura , A. Landais, V. Margari, B. Martrat, V. Masson-Delmotte, Z. Mokkadem, F. Parrenin , A.A. Prokopenko, H. Rashid, M. Schulz, N. Vazquez Riveiros, 2015. Integlacials of the last 800,000 years. *Review of Geophysics*, 54, 162–219, doi:10.1002/2015RG000482.

- Past Interglacials Working Group of PAGES (2016), Interglacials of the last 800,000 years, *Rev. Geophys.*, 54 (1), 162-219, doi:10.1002/2015RG000482.
144. BERGER A, BLEES T., BREON F.M., BROOK B., HANSEN Ph., GOVER R.B., GUET Cl., LIU W., LIVET F., NIFENECKER H., PETIT M., PIERRE G., PREVOT H., RICHET S., SAFA H., SALVATORES M., SCHNEEBERGER M., ZHOU S., 2017. How much can nuclear energy do about global warming? *Int. J. Global Energy Issues*, 40(1/2), 43-78.
145. BERGER A., YIN Q.Z., NIFENECKER H., POITOU J., 2017. Slowdown of global warming and acceleration of ice melting.