

Articole în reviste științifice românești și internaționale – selecție

- Panin N.**, 1961. *Asupra unor urme organice și mecanice din Miocenul de la confluența Putnei și Zăbalei*. St. Cercet. Geol., VI, 1, p. 63-73, București.
- Panin N.**, Avram E., 1962. *Noi urme de vertebrate în Miocenul Subcarpaților românești*. St.Cercet.Geol., 7, 3-4, p. 455-484, București.
- Murgeanu G., Patrulius D., Contescu L., Jipa D., Mihăilescu N., **Panin N.**, 1963. *Stratigrafia și sedimentologia terenurilor cretacice din partea internă a Curburii Carpaților*. Com. St. As. Geol. Carpato-Balcanică, Congr.V, 1961, 3, 2, p. 89-105, București.
- Jipa D., Mihăilescu N., **Panin N.**, 1963. *Directions des paléocourants dans le sillon paléogène du Maramures*. VI-e Congr. de l'Ass. Géol. Carpato-Balkanique, p. 155-161, Krakow.
- Antonescu E., Balș Ștefana, Georgescu Floriana, Georgescu V., Mantea G., Mihăilescu N., **Panin N.**, Tomescu Camelia, 1963. *Date sedimentologice asupra depozitelor senonian-daniene din regiunea Vințu de Jos-Geoagiu*, St. Cercet. Geol., 8,2, p. 215-234, București.
- Panin N.**, 1964. *Coexistence des traces de pas de vertébrés et des mécanoglyphes dans la molasse miocène des Carpates Orientales*. Rev. Géol. Géophys. Géogr., Serie Géologie, 9, 2, p.141-163, București.
- Contescu L., Jipa D., Mihăilescu N., **Panin N.**, 1966. *The internal paleogene flysch of the Eastern Carpathians: paleocurrents, source areas and facies significance*. Sedimentology, 7, p.307-321, Amsterdam.
- L. Contescu, D. Jipa, N. Mihăilescu, **N. Panin**, 1966. *Semnificația sedimentologică a faciesurilor flisului paleogen din Carpații Orientali*. St. Cercet. Geol. Geofiz. Geogr., Seria Geologie, 11, 2, p. 513-526, București.
- Panin N.**, Lăzărescu V., Grujinski C., 1966. *Un nou sector ichno-fosilifer în depozitele miocene din Subcarpații românești*. Bul. Inst. Petrol-Gaze-Geol., 14, p.9-21, București.
- Panin N.**, 1967. *Structure des dépôts de plage sur la côte de la Mer Noire*. Marine Geology, 5, p. 227-219, Amsterdam.
- Panin N.**, Panin Ștefana, 1967. *Regressive sand waves on the Black Sea shore*. Marine Geology, 5, p. 221-226, Amsterdam.
- Panin N.**, Panin Ștefana, 1967. *Directions des courants dans les dépôts molassiques miocènes des Carpates Orientales Roumains*. Trav. Congr. VIII As. Géol. Carpato-Balkanique, Belgrade.
- Panin N.**, Mihăilescu N., 1967. *Direcții de curenți în flisul paleogen din Bucovina*. St. Cercet. Geol. Geofiz. Geogr., Seria Geologie, 12, 2, p. 477-484, București.
- Patrulius D., **Panin N.**, Panin Ștefana, 1967. *Sedimentogeneza formațiunilor cretacice din Munții Persani și împrejurimile Codlei (Curbura Carpaților)*. Dări de Seamă ale Șed. Inst. Geol., LIV/3, p. 113-141, București.
- Panin N.**, 1972. *Histoire Quaternaire du Delta du Danube. Essai d'interprétation des facies des dépôts deltaïques*. Cercet. Marine IRCM, 4, p. 5-15, București-Constanța.
- Panin N.**, 1974. *Evoluția Deltei Dunării în timpul Holocenului (The evolution of the Danube Delta during the Holocene)*. Stud. Tehn. Econ., Seria H. Geol.Cuater. 5, p. 107-121, București.
- Panin N.**, 1976. *Some aspects of fluvial and marine processes in Danube Delta*. An. Inst. Geol. Geofiz., vol. L, p. 149-165, București.
- Panin N.**, Salomie G., Varodin V., 1977. *Cercetări batimetricice pe platforma continentală a Mării Negre*. St. Cercet. Geol. Geofiz. Geogr., Seria Geofizică, 15, p. 57-73, București.

- Panin N.**, Panin Ștefana, Herz N., Noakes J.E., 1983. *Radiocarbon Dating of Danube Delta deposits*. Quaternary Research, 19, p. 249-255, Washington.
- Panin N.**, 1983. *Black Sea coastline changes in the last 10,000 years. A new attempt at indentifying the Danube mouths as described by the ancients*. Dacia, N.S., T.XXVII, 1-2, p. 175-184, București.
- Panin N.**, 1989. *Danube Delta. Genesis, evolution, sedimentology*. Rev.Roum.Géol. Géophys.Géogr., Serie Géographie, t.33, p. 25-36, București.
- Panin N.**, Howes B.L. 1991. *River Deltas: Science and Management*. Workshop ComSBlack, October 1991, Varna.
- Panin N.**, 1992. *Danube Delta – Gensis and Evolution*. Rapp. Comm. int. Mer Médit., 33, p.146, Monaco.
- Panin N.**, Secrieru D., Manoleli D., Reznik V., Fesiunov O., Nazarenko M.F., 1992. *The ecological conditions in the NW part of the Black Sea. A brief description of the Romanian-Ukrainian geo-ecological research in 1990*. Mediul înconjurător, III, 1, p. 27-35, București.
- Panin N.**, Adriana Popa, C. Gaiță, D. Fărnoagă, J.V. Henry, 1992. *Dinamica sedimentelor pe brațele Dunării în deltă. Modificările determinate de amenajările hidrotehnice*. Lucr. Simpoz. IV „Proveniența și efluенța aluviunilor“, Stațiunea „Stejarul“ Piatra Neamț, p. 57-76.
- Panin N.**, Secrieru D., Manoleli D., Reznik V., Fesiunov O., Nazarenko M., 1992. *The ecological conditions in the N-W part of the Black Sea*. Rapp. Comm. int. Mer Médit., 33, p. 146, Monaco.
- Wong H.K., **Panin N.**, Dinu C., Georgescu P., Rahn C., 1993. *The submarine Danube fan complex – morphology and structure*. Terra Abstracts, Abs. Suppl. No.1 to Terra Nova, 5, p. 620.
- Panin N.**, Popa Adriana, Gaiță C., Dinu C., Georgescu P., Henry J.V., 1993. *Sediment Fluxes within the Danube Delta distributaries and in the Delta Front area*. SCOPE/UNEP, Workshop on particle Flux in the Ocean, September 20-23, 1993, Hamburg, Germany.
- Panin N.**, 1994. *Sănătatea ecologică a Mării Negre*. Razvedka I Ohrana Nedr, T.33, 12, p.4-5. Moscova (lb. rusă).
- Wong H.K., **Panin N.**, Dinu C., Georgescu P., Rahn C., 1994. *Morphology and post Chaudian (late Pleistocene) evolution of the submarine Danube fan complex*. Terra Nova, 6, p. 502-511, European Un. Geosci.
- Adriana Popa, **N. Panin**, D. Fărnoagă, Erika Mihailă, 1995. *Observații asupra modificărilor determinate de amenajările hidrotehnice de pe brațul Sf. Gheorghe, în transportul de apă și de sedimente*. Anal. St. Inst. Cercet. Proiect. Delta Dunării, IV/2, p. 11-21, Tulcea.
- Panin N.**, Elena Ion, G. Ion, 1995. *Black Sea Metadata Base – GEF Black Sea Environmental Programme*.
- Panin N.**, 1996. *Danube Delta: Genesis, evolution, geological setting and sedimentology*, Geo-Eco-Marina, 1, p. 11-34, București.
- Panin N.**, M.T. Gomoiu, G. Oaie, S. Rădan, 1996. *Researches on the NW Black Sea carried out by RCMGG during 1995 within the EROS-2000 Project*. Geo-Eco-Marina, 1, p. 127-154, București.
- Panin N.**, 1997. *On the geomorphologic and geologic evolution of the river Danube-Black Sea interaction zone*. Geo-Eco-Marina, 2, p. 31-40, București.
- Panin N.**, Elena Ion, G. Ion, 1997. *Black Sea GIS (CD-ROM) – GEF Black Sea Environmental Programme*.
- Spânoche S., **Panin N.**, 1997. *Contributions to knowing the Danube Delta: Delta Deposits Structure through High Resolution Seismic*. Geo-Eco-Marina, 2, p. 41-46, București.

- Giosan L., Bokuniewicz H., **Panin N.**, Postolache I., 1997. *Logshore sediment transport pattern along Romanian Danube Delta Coast*. Geo-Eco-Marina, 2, p. 11-25, București.
- Wong H.K., Winguth C., **Panin N.**, Dinu C., Wollschläger M., Georgescu P., Ungureanu G., Krugliakov V.V., Podshuveit V., 1997. *The Danube and Dniepr fans: Morphostructure and evolution*. Geo-Eco-Marina, 2, p. 77-102, București.
- Winguth C., Wong H.K., **Panin N.**, Dinu C., Georgescu P., Ungureanu G., 1997. *Upper Quaternary sea level changes in the Northwestern Black Sea: preliminary results*. Geo-Eco-Marina, 2, p. 103-114, București.
- K.M. Shimkus, V.N. Moskalenko, A.M. Hahalev, S.K. Shelting, H.K. Wong, **N.S. Panin**, 1997. *New data on the Structure and Seismostratigraphy of the Danube Fan*. Okeanologia, t.37, No.2, p. 295-302, Moscow (Russian L.)
- Ion Elena, **Panin N.**, Ion G., 1997. *GIS and Data Bases, tools in doing the data more effective – application in the Geoscience Field*. Geo-Eco-Marina, 2, p.227-230, București.
- Panin N.**, Jipa D., 1998. *Danube River Sediment Input and its Interaction with the Northwestern Black Sea:Results of EROS-2000 and EROS-21 Projects*. Geo-Eco-Marina, 3, p.23-35, Bucharest.
- Panin N.**, D.C. Jipa, M.T. Gomoiu, D. Secraru, 1999. *Importance of sedimentary processes in environmental changes: Lower River Danube – Danube Delta – Western Black Sea system*. In: S. Beşiktepe et al., eds., Environmental Degradation of the Black Sea: Challenges and Remedies, p. 23-41, Kluwer Acad.Publ., Netherlands.
- Flood R.D., Ryan W.B.F., Wong H.K., **Panin N.**, Lericolais G., Berné, Dinu C., Shimkus K.M., 1999. *Deep Sea Drilling Programme in the Black Sea: Climate change and sedimentation in the Black Sea region in response to Pleistocene climate cycles, a letter of intent*. CIESM Workshop Series 6, 45-52.
- Bondar C., **Panin N.**, 2000. *The Danube Delta Hydrologic Database and Modelling*. GeoEcoMarina, 5-6, p. 5-53, București.
- Winguth C., H.K. Wong, **N. Panin**, C. Dinu, P. Georgescu, G. Ungureanu, V.V. Krugliakov & V. Podshuveit, 2000. *Upper Quaternary sea level history and sedimentation in the northwestern Black Sea*. Marine Geology, 167(1-2), p. 127-146.
- Panin N.**, 2001. *Le delta du Danube et l'élévation du niveau de la mer: risques et réponses*. Actes Coll. d'Arles 12-13 Oct. 2000: "Le changement climatiques et les espaces côtiers – L'élévation du niveau de la mer: risques et réponses", p.66-71, France.
- Popescu Irina, Lericolais G., **Panin N.**, Wong H.K., Droz L., 2001. *Late Quaternary Avulsions on the Danube Deep-Sea Fan, Black Sea*. Marine Geology, 179, p. 25-37, Elsevier Publ.
- Panin N.**, Jipa D., 2002 – *Danube River Sediment Input and its Interaction with the Northwestern Black Sea*. Estuarine, Coastal and Shelf Science, 54, 2, p. 551-562, Elsevier Sc.Ltd.UK.
- Panin N.**, Popescu Irina, 2002. *The Black Sea: Climatic and Sea Level Changes in the Upper Quaternary*. GeoEcoMarina, 5.
- Panin N.**, Jipa D., 2002. *River Danube – Black Sea Geosystem. Birth and Development*. In: CIESM Workshop Series 17 "Turbidite systems and deep-sea fans of the Mediterranean and the Black Seas", 63-68, CIESM – Monaco.
- Popescu Irina, Lericolais G., **Panin N.**, Droz Laurence, Wong H.K., Dinu C., 2002. *Architecture and recent sedimentary evolution of the Danube deep-sea fan (Black Sea)*. In: CIESM Workshop Series 17 "Turbidite systems and deep-sea fans of the Mediterranean and the Black Seas", 81-84, CIESM – Monaco.
- Wong H.K., Lüdmann, **Panin N.**, Konerding P., Dinu C., 2002. *Northwestern Black Sea: Upper Quaternary water level and sedimentation*. In: CIESM Workshop Series 17

- “Turbidite systems and deep-sea fans of the Mediterranean and the Black Seas”, 85-89, CIESM – Monaco.
- Ion G., Lericolais G., Nouzé H., **Panin N.**, Ion Elena, 2002. *Seismo-acoustics evidence of gases in sedimentary edifices of the paleo-Danube realm*. In: CIESM Workshop Series 17 “Turbidite systems and deep-sea fans of the Mediterranean and the Black Seas”, 91-95, CIESM – Monaco.
- Lericolais G., Popescu Irina, **Panin N.**, Le Drezen Eliane, Normand A., Nouzé H., Garfield T.R., 2002. *Viteaz Canyon, the only sediment pathway of the Black Sea shelf?* In: CIESM Workshop Series 17 “Turbidite systems and deep-sea fans of the Mediterranean and the Black Seas”, 77-80, CIESM – Monaco.
- Panin N.**, 2003. *The Danube Delta. Geomorphology and Holocene Evolution: a Synthesis*. Géomorphologie: relief, processus, environnement, 4, 247-262, Paris
- Panin N.**, Popescu Irina, 2004. *The Black Sea: Climatic and Sea Level Changes in the Upper Quaternary*. Trav. de l’Inst. de Spéléologie “Emile Racovitza”, Académie Roumaine, XLI (2002) – XLII (2003), p. 39-51, Bucarest.
- Panin N.**, Marabini F., 2004. *Coastal Erosion in the Black Sea. Zoning and short description*. ISMAR, Marine Geology Branch, Bologna Technical Report No.93, p. 1-14, Italy, Bologna.
- Marabini F., **Panin N.**, 2004. *The Adriatic Sea Geomorphology*. ISMAR, Marine Geology Branch, Bologna Technical Report No. 93, p. 15-25, Italy, Bologna.
- Marabini F., **Panin N.**, 2004. *The evolutional trend of the Adriatic coastal zone*. ISMAR, Marine Geology Branch, Bologna Technical Report No.93, p. 26-36, Italy, Bologna.
- Popescu I., Lericolais G., **Panin N.**, Normand A., Dinu C., Le Drezen E., 2004. *The Danube Submarine Canyon (Black Sea): morphology and sedimentary processes*. Marine Geology; 206(1-4):249-65.
- Popescu I., Lericolais G., De Batist M., **Panin N.**, 2004. *Submarine Canyon Evolution and Controls in the NW Black Sea: Evidence from the Danube Canyon*. In: Alemdaroglu K, Barla MC, Mater B, editors. International Symposium on Earth System, Istanbul, Turkey.
- Strechie C., Jelinowska A., Colin C., Guichard F., Tucholka P., Fontugne M., Lericolais G., **Panin N.**, 2004. *Tracing Black Sea level variation since the Last Glacial Maximum*. 32nd IGC – Florence, 2004, Florence, Italy, p. 352.
- Lericolais G., Popescu I., **Panin N.**, Guichard F., team As. 2004. *Questions on the sea level fluctuations in the Black Sea since the Last Glacial Maximum ASSEMBLAGE PROJECT*. In: Alemdaroglu K, Barla MC, Mater B, editors. International Symposium on Earth System, Istanbul, Turkey.
- Panin N.**, Ion, G., Ion, E., 2005. “The Danube Delta – Chronology of Lobes and Rates of Sediment Deposition”. Geo-Eco-Marina 9-10: 36-40.
- Panin N.**, 2005. *The Black Sea Coastal Zone – an overview*. Geo-Eco-Marina, No.11, p. 21-40, DOI: 10.5281/zenodo.57388, București.
- Popescu, I., De Batist, M., Lericolais, G., Nouze, H., Poort, J., **Panin, N.**, Versteeg, W., Gillet, H., 2006. *Multiple bottom-simulating reflections in the Black Sea: Potential proxies of past climate conditions*. Marine Geology, v. 227, no. 3-4, p. 163-176.
- Panin, N.**, Popescu, I., 2007. *The northwestern Black Bea: climatic and sea level changes in the Late Quaternary*. In: Yanko-Hombach, V., Gilbert, A.S., **Panin, N.**, and Dolukhanov, P.M. (Eds.) *The Black Sea Flood Question: Changes in Coastline, Climate, and Human Settlement*: 387-404, Springer, The Netherlands.
- Panin N.**, Walter Giger., 2008. *Romanian-Swiss cooperative research programme „Environmental Science and Technology in Romania“ (ESTROM)*, Geo-Eco-Marina, No. 14.

- Schniukov, E.F., **Panin, N.S.**, Dinu, C., Kutniy, V.A., Maslakov, N.A., 2009. *Mud-volcanoes of Romania. Preliminary data on the mineralogy of Pâclele Mari and Pâclele Mici Mud-volcanoes*. Geo-Eco-Marina 15: 131-137.
- Giger, W., **Panin, N.** (eds). 2009. ESTROM – A Romanian-Swiss research programme. Environmental Science And Pollution Research International 16 (Suppl. 1), 1-2.
- Panin, N.**, 2009. *Contribution to the study of the sediment sink processes within the Danube – Black Sea system*. Geo-Eco-Marina, 15: 29-35.
- Panin, N.**, 2009, *The Danube Delta – the Mid Term of the Geo-system Danube River – Danube Delta – Black Sea. Geological Setting, Sedimentology and Holocene to Present-day Evolution*. In: **Panin N.**, Gomoiu M.-T., Jipa D. (Eds) *Topo-Europe Summer School: On Carpathian – Danube Delta – Black Sea Sedimentary Systems*: 11-37, GeoEcoMarina Series.
- Panin, N.**, 2011. *The Danube Delta – the Mid Term of the Geo-system Danube River – Danube Delta – Black Sea. Geological Setting, Sedimentology and Holocene to Present-Day Evolution*. Académie Roumaine, Rev. Roum. Géologie , 55: 41-82, București.
- Panin N.**, 2011. *O initiativă a României: Centrul International de Cercetări Avansate asupra geo-sistemului „Dunăre – Delta Dunării – Marea Neagră“*. Academica, 10-11, p. 7-10. Ed. Acad. Rom.
- Panin N.**, 2011. *Viața și opera academicianului Gheorghe Murgeanu*. Academica, 10-11, p. 69-71. Ed. Acad. Rom.
- Panin, N.**, Oaie G., Stănică A., 2012. *The National Institute of Research and Development for Marine Geology and Geoecology – GeoEcoMar: Twenty years of scientific activity*. Geo-Eco-Marina, 18: 187-190, București.
- Yanko-Hombach Valentina, **Panin N.**, Filipova-Marinova Mariana, Catto N., (Eds) 2012. *IGCP 521: Caspian – Black Sea – Mediterranean Corridors during the last 30 ka: sea level change and human adaptive strategies*. Quaternary International, Vol. 261, p.182, Elsevier Ltd.
- Panin, N.**, Overmars, W., 2012. *The Danube Delta evolution during the Holocene: Reconstruction attempt using geomorphological and geological data, and some of the existing cartographic documents*. Geo-Eco-Marina, 18: 75-104, București.
- Lericolais, G., Bourget, J., Popescu, I., Jermannaud, P., Mulder, T., Jorry, S., **Panin, N.**, 2012. *Late Quaternary deep-sea sedimentation in the western Black Sea: New insights from recent coring and seismic data in the deep basin*, Global and Planetary Change, 53 p.
- Panin, N.**, Oaie, G., 2014. *Crearea unei infrastructuri de cercetare în regiunea Dunăre-Marea Neagră: Sistem de securitate pentru marea Neagră de Vest pentru alertare în timp real la geohazarde marine de risc*. In: Cristian Hera, ed. – Schimbări climatice globale. Grija pentru resurse naturale, p.239-248, Editura Academiei Române, București.
- Panin, N.**, Overmars, W., 2015. *Recent development of the Danube Delta. Evaluation of Existing Cartographic Documents*. In: Iordachi, C., Van Assache, K. (Eds.) *The Biopolitics of the Danube Delta*. Nature, History, Policies: 117-153, Lexington Books, UK.
- Popescu Irina, **Panin N.**, JipaD., Lericolais G., Ion G., 2015. *Submarine canyons of the Black Sea basin with a focus on the Danube Canyon*. CIESM Workshop Monographs 47, F. Briand ed., Submarine canyon dynamics in the Mediterranean and tributary seas – An integrated geological, oceanographic and biological perspective, p. 103-121, CIESM Publisher, Monaco.
- Panin N.**, Stănică A., Duțu Laura, Bălteanu D., Dumitrașcu Monica, Sandu Cristina, 2017. *The Danube River and the sustainable development of Romania in the next 20 years*

- (2016-2035). In:, Clusters as drivers of value chain. Development across the Danube region, Carmen Păuna, Tiberiu Diaconescu (editori), Editura Economică, București, p. 45-52.
- Jipa D.C., **Panin N.**, 2017. *Narrow shelf canyons vs. wide shelf canyons in the Black Sea*. Joint Plenary Conference and Field Trip of IGCP 610 and INQUA IFG POCAS, Palermo, Italy. Proceedings, 92-93.
- Bradley C., Bowes M. J., Brils J., Friedrich J., Gault S., Hein T., Heininger P., Michalopoulos P., **Panin N.**, Schultz M., Stănică A., Andrei I., Tyler A., Umgiesser G., 2017. *Advancing integrated research on European river-sea systems: the DANUBIUS-RI project*. International Journal of Water Resources Development, v. 33, 12 p., doi: 10.1080/07900627.2017.1399107, Taylor & Francis Publ.
- Duțu F., **Panin N.**, Ion G., Tiron Duțu Laura, 2017. *Multibeam Bathymetric Investigations of the Morphology and Associated Bedforms, Sulina Channel, Danube Delta*. Geosciences, 8, 7; DOI: 10.3390/geosciences8010007, p.1-17.
- Munteanu I., Diviacco P., Sauli Chiara, Dinu C., Burca M., **Panin N.**, Brancatelli G., 2018. *New Insights into the Black Sea Basin, in the Light of the Reprocessing of Vintage Regional Seismic Data*. In: C.W.Finkl, C. Makowski (eds.), Diversity in Coastal Marine Sciences, *Coastal Research Library* 23, DOI 10.1007/978-3-319-57577-3_6, p.91-114, Springer International Publ. AG 2018.
- Duțu F., **Panin N.**, Ion G., Duțu Laura Tiron, 2018. *Multibeam Bathymetric Investigations of the Morphology and Associated Bedforms, Sulina Channel, Danube Delta*. Geosciences, 8, 7; 1-17; DOI: 10.3390/geosciences 8010007; www.mdpi.com/journal/geosciences
- Jipa D.C., **Panin N.**, 2020. *Narrow shelf canyons vs. wide shelf canyons: Two distinct types of Black Sea submarine canyons*, Quaternary International, 540 (2020), p. 120-136, doi.org/10.1016/j.quaint.2018.08.006.
- Panin N.**, Anastasiu N., Demetrescu C., Seghedi I., 2020. *Ciclul de conferințe organizate de Academia Română referitoare la schimbările globale (Partea I)*. Academica, 353,3, p. 44-50, București.
- Dan C. Jipa, **Panin N.**, Olariu C., Pop C., 2020. *Black Sea submarine valleys – patterns, systems, networks*. Geo-Eco-Marina, 26, p.15-40, București.
- Dinu C., Munteanu I., Țambrea D., **Panin N.**, 2021. *Gaz-hidrații și seep-urile pe șelful și panta continentală a României (Gas-hydrates and Gas seeps on the Romanian shelf and continental slope)* (Cap.6), p. 189-205. In: Editor E.F. Schniukov, *Seep-urile de gaz în Marea Neagră*, (în lb. rusă) (Gas seeps in the Black Sea), Editur Academiei Naționale a Ucrainei, Kiew, ISBN 978-617-674-054-4
- Tiron Duțu L., **Panin N.**, Duțu F., Popa A., Pojar I., Iordache G., 2021. *The Danube Delta environment changes generated by human activities*. In: Editors Abdelazim Negm și Daniel Constantin Diaconu, Danube River Delta, Springer Nature (în curs de publicare)