

Eduardo Garzanti – CV

Date of Birth: 31 October 1957

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Academic Qualifications:

2001 – Full Professor in Geology and Sedimentology, University of Milano-Bicocca

2000 - Associate Professor in Geology and Sedimentology, University of Milano-Bicocca

1992- Researcher in Sedimentology and Stratigraphy, University of Milano, Italy

1986 - PhD in Geology, University of Milano, Italy.

Eduardo is author of 286 articles, most of which published in international peer-review journals with wide circulation and high impact factor. Bibliometric parameters on 24th March 2021 (Google Scholar) are: 17315 citations, H-index 76, I₁₀ 230.

Eduardo Garzanti has achieved a long experience on the geology of the Himalayas, obtained since 1981 during several scientific expeditions carried out within projects MURST and CNR to Pakistan, India, Nepal, South Tibet and the Bengal Sea. His research has focused on various aspects of Himalayan geology, including the Paleozoic history, the opening of Neotethys, the sedimentary successions of the Tethys Himalayan passive margin and of the Transhimalayan active margin, and the paleotectonic evolution during and after Paleocene/Eocene collision of India and Asia.

In recent years he has carried out, in close collaboration with researchers of various institutions worldwide, the petrographic, mineralogical, geochemical and geochronological study of bedload and suspended-load sediments carried today by major Asian (Indus, Ganga, Brahmaputra, Irrawaddy, Yang Tze, Pearl River, Yellow River), African (Nile, Congo, Orange, Zambezi, Limpopo, Okavango), Southamerican (Paranà, Orinoco) and Alpine river systems, and of Cenozoic terrigenous successions accumulated in foreland basins associated with different orogenic systems associated with continental subduction, including the Alps-Apennines, the Caucasus, the Zagros, and the Himalayas. Most recent work in collaboration with several Chinese Universities (Nanjing, Lanzhou, Tongji at Shanghai, CUGB Beijing) is focusing on the Himalayan suture zone and on the Tibetan Plateau.

Full Professor at the University of Milano-Bicocca since 2001, Eduardo Garzanti has served several times as vice-Director of the Department of Earth and Environmental Science from 2002 to 2017. A member of Academia Europaea, he has served as GEV for Sedimentary Geology and Structural Geology in the Italian eEvaluation system for the Quality of Research (VQR) for the years 2004-2010 and as GEV for Sedimentary Geology for the years 2011-2014. He has been Associated Editor for prestigious International journals including Geology, Terra Nova and Basin Research. He was elected 2018 Honorary Fellow of the Geological Society of America, award received at the GSA Annual Meeting in Indianapolis in 2019.

ACADEMIC CAREER

1982 Master in Geology (University of Milano)

1987 PhD in Geology (University of Milano)

1992 Researcher in Stratigraphy and Sedimentology (University of Milano)

2000 Associate Professor in Stratigraphy and Sedimentology (University of Milano-Bicocca)

2001 Full Professor in Stratigraphy and Sedimentology (University of Milano-Bicocca)

2002-2007 Coordinator of the PhD program in Earth Sciences (University of Milano-Bicocca)

2002-2012 Vice-Director of the Department of Geology and Geotechnology (University of Milano-Bicocca)

2011-2013 GEV ANVUR - Valutazione della Qualità della Ricerca 2004-2010 (SSD Stratigraphy and Sedimentology, Structural Geology).

2012- Member of Academia Europaea

2013-2017 Vice-Director of the Department of Earth and Environmental Sciences (University of Milano-Bicocca)

2015-2016 GEV ANVUR - Valutazione della Qualità della Ricerca 2011-2014 (SSD Stratigraphy and Sedimentology)

2018-2022 MIUR – Dipartimenti di Eccellenza - Principal investigator of the Department of Earth and Environmental Sciences, University of Milano-Bicocca. for the five-years research project on climate change

EDITORIAL DUTIES

Editorial/Advisory board Geology, Terra Nova, Basin Research, Italian Journal of Earth Sciences, Ophioliti, Rivista Italiana di Paleontologia e Stratigrafia.

Guest editor for special volumes: Quaternary Science Reviews, Sedimentary Geology.

Reviewer: Earth Planetary Science Letters, Geology, Nature Geosciences, Nature Scientific Reports, Earth-Science Reviews, Tectonics, Sedimentary Geology, Journal of Geophysical Research and many others.

COURSES, CONFERENCES, COLLABORATIONS

September 2012 Nanjing University (China) Two-week course in *Sedimentary petrography & integrated provenance analysis*.

September 2015 Beijing University (China) Two-week course in *Reading geology from the detrital record*.

October 2017 Invited Planetary Talk at 6th Chinese Sedimentological Congress held at Nanjing University.

September 2019 Chengdu University (China) One-week course in *Provenance analysis*.

Selected solicited conferences: Academica Sinica and CUGB (Beijing), CUG at Wuhan, Nanjing University, Tongji University (Shanghai), King Fahd University of Petroleum and Minerals

(Dhahran), Universidad National de La Plata, University of Utrecht, Universität Potsdam, GFZ Potsdam, FU Berlin, Université de Grenoble, UCLA (USA), ETH Zürich.

Selected solicited conferences at Meetings: EGU (Vienna) Wien, University of Manchester, Geological Society (London), Himalayan-Tibet-Workshop, Sediment Generation Working Group (Goettingen), Heavy-mineral School (Milano), Alpine Workshop (St. Florent, Corse), ICAR X (Bordeaux).

Selected International collaborations: University College London, University of Lancaster, CASP Cambridge, CNRS-CRPG Nancy, Universities of Nanjing, Shanghai, Beijing, Wuhan, and Lanzhou, KFUPM Dhahran, GFZ Potsdam, Université de Grenoble, Universidad National de La Plata, Université de Lausanne and other universities and research centers in Germany, Israel, Egypt, Iraq, Iran, Turkey, India, USA.

PUBLICATIONS (1983- 2021)

1. Gaetani M., Nicora A., Premoli-Silva I., Fois E., Garzanti E. & Tintori A. (1983) - Upper Cretaceous and Paleocene in Zanskar Range (NW Himalaya). *Riv. It. Paleont. Strat.*, v.89, n.1, pp.81-118, 6 fig., 4 pl., Milano.
2. Baud A., Gaetani M., Garzanti E., Fois E., Nicora A. & Tintori A. (1984) - Geological observations in southeastern Zanskar and adjacent Lahul area (northwestern Himalaya). *Ecl. Geol. Helv.*, v.77, n.1, pp.171-197, 12 fig., Basel.
3. Caprara L., Garzanti E., Gnaccolini M. & Mutti L. (1984) - Shelf-basin transition: sedimentology and petrology of the Serravallian of the Tertiary Piedmont basin (Northern Italy). *Riv. It. Paleont. Strat.*, v.90, n.4, pp.545-564, 7 fig., 4 tab., Milano.
4. Nicora A., Gaetani M. & Garzanti E. (1984) - Late Permian to Anisian in Zanskar (Ladakh Himalaya). *Rend. Soc. Geol. It.*, v.7, pp.27-30, 1 fig., Roma.
5. Gaetani M., Garzanti E. & Jadoul F. (1985) - Main structural elements of Zanskar, NW Himalaya (India). *Rend. Soc. Geol. It.*, v.8, pp.3-8, 2 fig., Roma.
6. Jadoul F., Fois E., Tintori A. & Garzanti E. (1985) - Preliminary results on Jurassic stratigraphy in Zanskar (NW Himalaya). *Rend. Soc. Geol. It.*, v.8, pp.9-13, 1 fig., Roma.
7. Garzanti E. (1985) - Petrography and diagenesis of Upper Triassic volcanic arenites (Val Sabbia, Gorno and S.Giovanni Bianco Formations; Bergamasc Alps). *Boll. Soc. Geol. It.*, v.104, pp.3-20, 8 fig., 1 tab., Roma.
8. Garzanti E. (1985) - The sandstone memory of the evolution of a Triassic volcanic arc in the Southern Alps, Italy. *Sedimentology*, v.32, pp.423-433, 8 fig., 1 tab., Oxford.
9. Garzanti E. & Jadoul F. (1985) - Stratigrafia e paleogeografia del Carnico lombardo (Sondaggio S.Gallo, Valle Brembana). *Riv. It. Paleont. Strat.*, v.91, n.3, pp.295-320, 7 fig., 5 tab., Milano.
10. Garzanti E. (1986) - Source rocks versus sedimentary control on the mineralogy of deltaic volcanic arenites (Upper Triassic, Northern Italy). *Journal of Sedimentary Petrology*, v.56, n.2, pp.267-275, 5 fig., 4 tab., Tulsa.
11. Garzanti E., Casnedi R. & Jadoul F. (1986) - Sedimentary evidence of a Cambro-Ordovician orogenic event in the northwestern Himalaya. *Sedimentary Geology*, v.48, pp.237-265, 11 fig., 2 tab., Amsterdam.
12. Gaetani M., Casnedi R., Fois E., Garzanti E., Jadoul F., Nicora A. & Tintori A. (1986) - Stratigraphy of the Tethys Himalaya in Zanskar, Ladakh. *Riv. It. Paleont. Strat.*, v.91, n.4, pp.443-478, 16 fig., 1 tab., Milano.
13. Garzanti E., Baud A. & Mascle G. (1987) - Sedimentary record of the northward flight of India and its collision with Eurasia (Ladakh Himalaya, India). *Geodinamica Acta*, v.1, n.4/5, pp.297-312, 13 fig., Paris.

14. Nicora A., Garzanti E. & Fois E. (1987) - Evolution of the Tethys Himalaya continental shelf during Maastrichtian to Paleocene (Zanskar, India). *Riv. It. Paleont. Strat.*, v.92, n.4, pp.439-496, 14 fig., 7 tab., 7 pl., Milano.
15. Garzanti E. (1988) - Ambienti sedimentari fluvio-deltizi e composizione petrografica: le arenarie del Trias superiore lombardo. In: I depositi continentali, a cura di G.G. Ori & M. Cremona, *Giornale di Geologia*, v.50, n.1-2, pp.163-175, 6 fig., Bologna.
16. Garzanti E. & Van Haver T. (1988) - The Indus clastics: forearc basin sedimentation in the Ladakh Himalaya (India). *Sedim. Geol.*, v.59, pp.237-249, 10 fig., 2 tab., Amsterdam.
17. Garzanti E. & Brignoli G. (1989) - Low temperature metamorphism in the Zanskar sedimentary nappes (NW Himalaya, India). *Eclogae Geol. Helv.*, v.82, n.2, pp.669-684, 8 fig., Basel.
18. Garzanti E., Haas R. & Jadoul F. (1989) - Ironstones in the Mesozoic passive margin sequence of the Tethys Himalaya (Zanskar, Northern India): sedimentology and metamorphism. In Young T.P. & Taylor W.E.G. (eds.) - *Phanerozoic ironstones*, *Geol. Soc. Spec. Publ.* 46, pp.229-244, 8 fig., 4 tab., London.
19. Fontana D., Zuffa G.G. & Garzanti E. (1989) - The interaction of eustacy and tectonism from provenance studies of the Eocene Hecho Group Turbidite Complex (South Central Pyrenees, Spain). *Basin Research*, v.2, n.4, pp.223-237, 7 fig., 3 tab., Oxford.
20. Gaetani M., Garzanti E., Jadoul F., Nicora A., Tintori A., Pasini M. & Kanwar S.A.K. (1990) - The north Karakorum side of the Central Asia geopuzzle. *Geol. Soc. Am. Bull.*, v.102, pp.54-62, 7 fig., Boulder.
21. Jadoul F., Garzanti E. & Fois E. (1990) - Upper Triassic - Lower Jurassic stratigraphy and palaeogeographic evolution of the Zanskar Tethys Himalaya (Zangla Unit). *Riv. It. Paleont. Strat.*, v.95, n.4, 11 fig., 6 tab., 3 pl., pp.351-396, Milano.
22. Gaetani M., Garzanti E. & Tintori A. (1990) - Permo-Carboniferous stratigraphy in SE Zanskar and NW Lahul (NW Himalaya, India). *Eclogae Geol. Helv.*, v.83, n.1, pp.143-161, 6 fig., 1 tab., Basel.
23. Garzanti E. & Pagni Frette M. (1990) - Il Carnico di Lierna (Como): stratigrafia e paleogeografia. *Riv. It. Paleont. Strat.*, v.96, n.4, pp.407-426, 8 fig., 1 tab., Milano.
24. Garzanti E. & Pagni Frette M. (1991) - The stratigraphic succession of the Thakkola region (central Nepal) - comparisons with the northwestern Tethys Himalaya. *Riv. It. Paleont. Strat.*, v.96, n.1, pp.3-26, 8 fig., Milano.
25. Garzanti E. (1991) - Non-carbonate intrabasinal grains in arenites: their recognition, significance and relationship to eustatic cycles and tectonic setting. *Jour. Sedim. Petrol.*, v.61, n.6, pp.959-975, 8 fig., Tulsa.
26. Gaetani M. & Garzanti E. (1991) - Multicyclic history of the northern India continental margin (NW Himalaya). *Am. Ass. Petr. Geol. Bull.*, v.75, pp.1427-1446, 14 fig., Tulsa.
27. Garzanti E. (1991) - Stratigraphy of the Early Cretaceous Giumal Group (Zanskar Range, Northern India). *Riv. It. Paleont. Strat.*, v.97, n.3-4, pp.485-510, Milano.
28. Premoli Silva I., Garzanti E. & Gaetani M. (1991) - Stratigraphy of the Chikkim and Fatu La Formations in the Zangla and Zumlung Units (Zanskar Range, India) with comparisons to the Thakkola region (central Nepal): Mid-Cretaceous evolution of the Indian passive margin. *Riv. It. Paleont. Strat.*, v.97, n.3-4, pp.511-564, Milano.
29. Garzanti E., Nicora A. & Tintori A. (1992) - Late Paleozoic to Early Mesozoic stratigraphy and sedimentary evolution of central Dolpo (Nepal Himalaya). *Riv. It. Paleont. Strat.*, v.98, n.3, pp.271-298.
30. Garzanti E. (1993) - Sedimentary evolution and drowning of a passive margin shelf (Giumal Group; Zanskar Tethys Himalaya, India): palaeoenvironmental changes during final break-up of Gondwanaland. In: Treloar P.J. & Searle M.P. (eds.), *Himalayan tectonics*, Geological Society London Special Publication n. 74, pp.277-298.

31. Garzanti E. (1993) - Himalayan ironstones, "superplumes", and the breakup of Gondwana. *Geology*, v.21, p.105-108.
32. Gaetani M., Jadoul F., Erba E. & Garzanti E. (1993) - Jurassic and Cretaceous orogenic events in the North Karakorum: age constraints from sedimentary rocks. In: Treloar P.J. & Searle M.P. (eds.), *Himalayan tectonics*, Geological Society London Special Publication n. 74, pp.39-52.
33. Critelli S. & Garzanti, E. (1994) - Provenance of the Lower Tertiary Murree rebeds (Hazara-Kashmir syntaxis, Pakistan) and initial rising of the Himalayas. *Sedimentary Geology*, v. 89, pp.265-284.
34. Corselli C., Basso D. & Garzanti E. (1994) - Paleobiological and sedimentological evidence of Pleistocene/Holocene hiatuses and ironstone formation at the Pontian islands shelfbreak (Italy). *Marine Geology*, v.117, pp.317-328.
35. Garzanti E., Gorza, M., Martellini, L. & Nicora A. (1994) - Transition from diagenesis to metamorphism in the Paleozoic to Mesozoic succession of the Dolpo-Manang Synclinorium and Thakkola Graben (Nepal Tethys Himalaya). *Eclogae Geologicae Helvetiae*, v.87, pp.613-632.
36. Garzanti E., Nicora A. & Tintori A. (1994) - Triassic stratigraphy and sedimentary evolution of the Annapurna Tethys Himalaya (Manang area, Central Nepal). *Riv. It. Paleont. Strat.*, v.100, n.2, pp. 195-226, Milano.
37. Garzanti E., Nicora A., Tintori T., Sciunnach D. & Angiolini L. (1994) - Late Paleozoic stratigraphy and petrography of the Thini Chu Group (Manang, Central Nepal): sedimentary record of Gondwana glaciation and rifting of Neotethys. *Riv. It. Paleont. Strat.*, v.100, n.2, pp. 155-194, Milano.
38. Garzanti E., Gnaccolini M. & Jadoul F. (1995) - Anatomy of a semiarid coastal system : the Upper Carnian of Lombardy. *Rivista Italiana di Paleontologia e Stratigrafia*, v. 101, n.1, pp. 17-36, Milano.
39. Gaetani M., Angiolini L., Garzanti E., Jadoul F., Leven Y.E., Nicora A. & Sciunnach D. (1995) - Permian stratigraphy in the Northern Karakorum, Pakistan. *Riv. It. Paleont. Strat.*, v.101, n.2, 107-152, Milano.
40. Garzanti E., Jadoul F., Nicora A. & Berra F. (1995) - Triassic of Spiti (Tethys Himalaya; N India). *Riv. It. Paleont. Strat.*, v.101, n.3, pp. 267-300, Milano.
41. Sciunnach D., Garzanti E. & Confalonieri M. (1996) - Stratigraphy and petrography of Upper Permian to Anisian terrigenous wedges (Verrucano Lombardo, Servino and Bellano Formations; western Southern Alps). *Riv. It. Paleont. Strat.*, v.102, n.1, 27-48, Milano.
42. Sciunnach D. & Garzanti E. (1996) - Sedimentary record of Late Paleozoic rift and break-up in Northern Gondwana (Thini Chu Group and Tamba-Kurkur Fm.; Dolpo Tethys Himalaya, Nepal). *Geodinamica Acta*, v.9, n.1, pp.41-56, Paris.
43. Garzanti E., Angiolini L. & Sciunnach D. (1996) - The mid-Carboniferous to lowermost Permian succession of Spiti (Po Group and Ganmachidam Fm.; Tethys Himalaya, Northern India): Gondwana glaciation and rifting of Neo-Tethys. *Geodinamica Acta*, v.9, n.2, pp.78-100, Paris
44. Caironi V., Garzanti E. & Sciunnach D. (1996) - Typology of detrital zircon as a key to unravelling provenance in rift siliciclastic sequences (Permo-Carboniferous of Spiti, N India). *Geodinamica Acta*, v.9, n.2, pp.101-113, Paris.
45. Garzanti E., Critelli S. & Ingersoll R.V. (1996) - Paleogeographic and paleotectonic evolution of the Himalayan Range as reflected by detrital modes of Tertiary sandstones and modern sands (Indus transect, India and Pakistan). *Geological Society of America Bulletin*, v.108, pp.631-642, Boulder.
46. Posenato R., Sciunnach D. & Garzanti E. (1996) - First report of Claraia (Bivalvia) in the Servino Formation (Lower Triassic) of the western Orobic Alps, Italy. *Rivista Italiana di Paleontologia e Stratigrafia*, v.102, n.2, pp.201-210, Milano.

47. Garzanti E., Angiolini L. & Sciunnach D. (1996) - The Permian Kuling Group (Spiti, Lahaul and Zanskar; NW Himalaya): sedimentary evolution during rift/drift transition and initial opening of Neo-Tethys. *Rivista Italiana di Paleontologia e Stratigrafia*, v.102, n.2, pp.175-200, Milano.
48. Garzanti E. & Sciunnach D. (1997) - Early Carboniferous onset of Gondwanian glaciation and Neo-Tethyan rifting in Southern Tibet. *Earth Planetary Science Letters*, v.148, pp.359-365, Amsterdam.
49. Nicora A. & Garzanti E. (1997) - The Permian/Triassic boundary in the Central Himalaya. *Albertiana*, 19, p.47-51.
50. Sciunnach, D. & Garzanti, E. (1997). Detrital chromian spinels record tectono-magmatic evolution from Carboniferous rifting to Permian spreading in Neotethys (India, Nepal and Tibet). In : From rifting to drifting in present-day and fossil ocean basins (Messiga B. & Tribuzio R. Eds.), *Ophioliti*, v.22/1, pp.101-110, Firenze.
51. Garzanti E., Nicora A. & Rettori R. (1998) - Permo-Triassic boundary and Lower to Middle Triassic In South Tibet. *Journal of Asian Earth Sciences*, v.16, pp. 143-157, Oxford.
52. Garzanti E., Angiolini L., Brunton H., Sciunnach D. and Balini M. (1998) - The Bashkirian "Fenestella shales" and the Moscovian "Chaetetid shales" of the Tethys Himalaya (South Tibet, Nepal and India). *Journal of Asian Earth Sciences*, v.16, pp.119-141, Oxford.
53. Jadoul F., Berra F. & Garzanti E. (1998) - The Tethys Himalayan passive margin from Late Triassic to Early Cretaceous (South Tibet). *Journal of Asian Earth Sciences*, v.16, pp.173-194, Oxford.
54. Gaetani M., Balini M., Vuchs V.J., Gavrilova V.A., Garzanti E., Nicora A., Erba E., Cariou E., Cecca F., Premoli Silva I., Petrizzo M.R., Cirilli S. & Bucefalo Palliani R. (1998) - The Mesozoic of the Mangyshlak (West Kazakhstan). In: Crasquin-Soleau S. & Barrier E. (Eds.), *Peri-Tethys Memoir 4: Epicratonic basins of Peri-Tethyan platforms*. *Mém. Mus. natn. Hist. nat.*, v.179, pp. 35 - 74, Paris.
55. Gaetani M., Gnaccolini M., Jadoul F. & Garzanti E. (1998) - Multiorder sequence stratigraphy in the Triassic System of the Western Southern Alps. In : Mesozoic and Cenozoic sequence stratigraphy of European Basins, S.E.P.M. Spec. Publ. 60, p.701-717, Tulsa.
56. Garzanti E., Scutella' M. & Vidimari C. (1998) - Provenance from ophiolites and oceanic allochtons: modern beach and river sands from Liguria and the Northern Apennines (Italy). *Ophioliti*, v.23/2, pp.65-82, Firenze.
57. Garzanti E., Gamba A., Malara F. & Vidimari C. (1999) - Evoluzione della mineralogia del detrito in sistemi fluviali segmentati da sbarramenti naturali o artificiali e attraverso la pianura: il bacino idrografico dell' Adda (Lombardia). *Geologia Insubrica*, v.3/1, pp.43-60, Milano.
58. Garzanti E., Le Fort P. & Sciunnach D. (1999) - First report of Lower Permian basalts in South Tibet: tholeiitic magmatism during break-up and incipient spreading in Neo-tethys. *Journal of Asian Earth Sciences*, v.17, pp. 533-546, Oxford.
59. Garzanti E., Scutella' M. & Vidimari C. (1999) - Le sabbie fluviali del bacino del Tanaro (Piemonte): una chiave per interpretare la storia erosiva delle Alpi Liguri. In: Orombelli G. (Ed.), *Studi geografici e geologici in onore di Severino Belloni*, pp. 367-390.
60. Sciunnach D., Garzanti E., Posenato R. & Rodeghiero F. (1999) - Stratigraphy of the Servino Formation (Lombardy, Southern Alps): towards a refined correlation with the Werfen Formation of the Dolomites. *Mem. Sci. Geol. Padova*, v.51/1, pp.103-118.
61. Garzanti E. (1999) - Stratigraphy and sedimentary history of the Nepal Tethys Himalayan passive margin. In: Upadhyay B.N. & Le Fort P. (Eds.), *Advances on the Geology of the Himalaya - Focus on Nepal*. *Journal of Asian Earth Sciences*, v.17/5-6, pp. 805-827, Oxford.

62. Sciunnach D., Bassanelli D., Garzanti E. & Riganti F. (2000) - New evidence towards a geometrical model for the Taceno district (Taceno-Vendrogno road cut, Western Orobic Alps, Lombardy). *Geologia Insubrica*, v.4, 35-47, Milano.
63. Najman Y. & Garzanti E. (2000) - Reconstructing early Himalayan tectonic evolution and paleogeography from Tertiary foreland basin sedimentary rocks, northern India, *Geological Society of America Bulletin*, v.112, pp.435-449, Boulder.
64. Garzanti E., Andò S. & Scutellà M. (2000) - Actualistic ophiolite provenance: the Cyprus Case. *Journal of Geology*, v.108, n.2, 199-218, Chicago.
65. Garzanti E., Vezzoli G., Andò S., Castiglioni G., 2001, Petrology of rifted-margin sand (Red Sea and Gulf of Aden, Yemen). *Journal of Geology*, v.109, p.277-297, Chicago.
66. Muttoni G., Garzanti E., Alfonsi L., Cirilli S., Germani D. & Lowrie W., 2001, Motion of Africa and Adria since the Permian: paleomagnetic and paleoclimatic constraints from northern Libya. *Earth Planetary Science Letters*, v. 194, n. 2, pp. 159-174, Amsterdam.
67. Garzanti E., Canclini S., Moretti Foggia F. & Petrella N., 2002, Unraveling magmatic and orogenic provenances in modern sands: the back-arc side of the Apennine thrust-belt (Italy). *Journal of Sedimentary Research*, v. 72, p. 2-17.
68. Garzanti E., 2002, Petrografia e provenienza dei sedimenti. In : Regione Lombardia & Eni Divisione Agip, Geologia degli acquiferi padani della Regione Lombardia, a cura di C.Carcano & A.Piccin, S.EL.CA, Firenze, p. 77-91.
69. White, N., Pringle, M., Garzanti, E., Bickle, M., Najman, Y., Chapman, H., and Friend, P., 2002, Constraints on the exhumation and erosion of the High Himalayan slab, NW India, from foreland basin deposits: *Earth Planetary Science Letters*, v. 195, p. 29-44.
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71. Garzanti E., Vezzoli G. & Andò S., 2002, Modern sand from obducted ophiolite belts (Oman, U.A.E.). *Journal of Geology*, v. 110, n.4, p. 371-391.
72. Clift P.D., Lee J.I., Hildebrand P., Shimizu N., Layne G.D., Blusztajn J., Blum J.D., Garzanti E., & Khan A.A., 2002, Nd and Pb isotope variability in the Indus River system: implications for sediment provenance and crustal heterogeneity in the Western Himalaya. *Earth Planetary Science Letters*, v. 200, p. 91-106.
73. Angiolini L., Balini M., Crasquin S., Garzanti E., Muttoni G., Nicora A. & Tintori A., 2003, Permian climatic and palaeogeographic changes in Northern Gondwana: the Khuff Fm. of Interior Oman. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 191, p.269-300.
74. Garzanti, E., Andò, S., Vezzoli, G., and Dell'Era, D., 2003, From rifted margins to foreland basins : investigating provenance and sediment dispersal across desert Arabia (Oman, UAE). *Journal of Sedimentary Research*, v.73, p. 572-588.
75. Zanchi A., Garzanti E., Larghi C., Angiolini L., & Gaetani M., 2003, The Variscan Orogeny in Chios (Greece): Carboniferous accretion along a Paleotethyan active margin, *Terra Nova*, v.15, pp. 213-223.
76. Garzanti, E. & Vezzoli, G., 2003, A classification of metamorphic grains in sands based on their composition and grade *Journal of Sedimentary Research*, v.73, p. 830-837.
77. Guillot, S., Garzanti, E., Baratoux, D., Marquer, D., Maheo, G., & De Sigoyer, J., 2003, Reconstructing the total shortening history of the NW Himalaya, *Geochem., Geophys., Geosyst.*, v.4 (7), 1064, 22p., doi:10.1029/2002GC000484
78. Angiolini L., Balini M., Garzanti E., Nicora A. & Tintori A., 2003, Gondwanan deglaciation and opening of Neotethys: the Al Khlata and Saiwan Formations of Interior Oman. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v.196, p. 99-123.

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