

CV of Carlo Doglioni

Born in Feltre (Italy), 1957

Liceo Classico (Feltre), 1975

Doctor in Geology at the University of Ferrara, 1981

Assistant at the University of Ferrara, 1981-1983

Post-Doc at the University of Basel (CH), 1983-1984

Researcher at the University of Ferrara, 1983-1992

Associate professor University of Bari 1992-1994

Full Professor University of Basilicata, 1994-1997

Full Professor of Geodynamics, Sapienza University – Roma, 1997-

Experiences:

1985 - Visiting researcher at the University of Oxford,

1988; 1992; 1994 - Visiting researcher at the Rice University in Houston,

2015 - Visiting researcher at Columbia University, Lamont-Doherty Lab, New York,

1995 - Scientific party ODP Leg 161 in the western Mediterranean

1999 – present Research Associate of CNR-IGAG,

Field researches besides Italy: in Morocco, Mexico, Iran, Tunisia, Bulgaria, Hungary, Greece, Turkey, Japan, California, El Salvador, Ecuador, Iceland

Supervisor of 14 PhD thesis

Services:

Member of the Tectonics Panel, Ocean Drilling Program, 1992-1994

Director of the Geodynamics Department at the University of Basilicata, 1994-1997

President of the CNR strategic project CROP – Crosta Profonda (CNR-AGIP-ENEL), 1999-

Member of the Italian Geological Committee, 2003-

Vice-President of the Italian Geological Society, 2003-2008

Editor-in-Chief of Terra Nova 2003-

Editor-in-Chief of Earth Science Reviews 2012-

Associate Editor of Tectonics 2004-2012

Associate Editor of the Brazilian Journal of Geology 2013-

Editorial board Journal Structural Geology, 1987-2007; Bull. Soc. Géol. de France, 2000-2005

Compte Rendu Ac. Sci. Bulgare, 2006-; Italian Journal of Geosciences, 2000-

Coordinator project–PI of Sismologia 1 of the Italian Civil Protection, 2008-2010

Chairman of the School in Geological Sciences (Sapienza University), 2009-2012

President of the Italian Geological Society, 2009-2014

Scientific Panel of the CNR-Dipartimento Terra e Ambiente, 2010-2014

Research Panel (Sapienza University), 2010-2011

Commission of the Accademia dei Lincei for Environment and the Natural Hazards 2010-

Commission of the Accademia dei Lincei for Scientific Research 2014-

Reviewer of ERC, ESF, MIUR-PRIN, CIVR, ANVUR, International Private and Public universities, foundations and institutions, etc.

Chairman Commissione Abilitazione Scientifica Nazionale Area 04/A2 - 2012-2014

International Atomic Energy Agency-IAEA expert

Member of the National Committee for International Union of Geological Sciences 2010-

Member of the CIRM, Ministry of Industry of Italy 2013-

Member of the Scuola Studi Avanzati Sapienza 2014-present

Member of the ANVUR-GEV 04 panel 2015-2016

President of INGV – Istituto Nazionale di Geofisica e Vulcanologia 2016-

Research activity:

- Asymmetry of orogens and foreland basins as a function of the subduction polarity
- Asymmetry of rift zones
- Evidences for the polarization of plate tectonics
- Westward drift of the lithosphere
- Seismicity versus Earth's rotation, lithostatic load and tectonic setting
- Mechanism of earthquakes
- Structure and geodynamic evolution of the Alps, Apennines and the Mediterranean
- Relationship between tectonics and sedimentation

Main achievements:

- Tectonic mainstream of plate motion
- Tectonic asymmetry of plate boundaries
- Earth's rotation role in driving plate tectonics
- New model on earthquake generation (graviquakes and elastoquakes)
- Atlas of the Italian deep crust (CNR-Agip-Enel)
- Mediterranean geodynamics

Fundings and research grants:

- PI of Euroepan Project, Miur-Prin (both national and local coordinator), ASI, CNR, Sapienza University, PI of several industrial contracts

Awards and academies:

- 1986 - Dal Piaz Award of the Italian Geological Society
- 1994 - Distinguished Lecturer of the AAPG, US tour
- 2004 - Spendiarov Award of the Russian Academy of Sciences, 32° IGC
- 2005 - Distinguished Lecturer of the AAPG, Europe tour
- 2005 - Member of the Academia Europaea
- 2006 - Member of the Istituto Lombardo di Scienze Lettere ed Arti
- 2007 - Member of the Istituto Veneto di Scienze Lettere ed Arti
- 2009 - Alfred Wegener Award, European Association of Geoscientists and Engineers
- 2009 - Member of the Accademia dei Lincei
- 2009 - Premio Sapienza Ricerca
- 2009 - Premio Bellunesi nel Mondo
- 2011 - Member of the Accademia Nazionale delle Scienze, detta dei XL
- 2013 - Premio SS Vittore e Corona, Feltre
- 2014 - Member of the European Academy of Sciences and Arts
- 2015 - Honorary Professor of Chinese Geosciences University, Beijing
- 2016 - Member of the Accademia delle Scienze di Torino

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Bibliometric parameters

Listed in the Top Italian Scientists (1 out of 5 italians in Solid Earth Sciences)

<http://scholar.google.com/citations?user=LBFxf2IAAAAJ&hl=en>

H factor: Google Scholar 51

Citations Google Scholar 8500

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Peer reviewed Publications

2016

- Muluneh A.A., Kidane, T., Cuffaro, M. & Doglioni, C. 2016. Torque exerted on the side of crustal blocks controls the kinematics of Ethiopian Rift. *Journal of African Earth Sciences*, 116, 1-8, <http://dx.doi.org/10.1016/j.jafrearsci.2015.12.004>
- Doglioni C., Pignatti J. & Coleman M. 2016. Why did life develop on the surface of the Earth in the Cambrian? *Geoscience Frontiers*, <http://dx.doi.org/10.1016/j.gsf.2016.02.001>.
- Livani M., Scrocca D., Arecco P., Doglioni C., 2016. Structural and stratigraphic control on salient and recess development along a thrust belt front: the Northern Apennines (Po Plain, Italy). *Journal of Geophysical Research*, in press.
- Smeraglia, L., Berra, F., Billi, A., Boschi, C., Carminati, E., Doglioni, C., 2016. Origin and role of fluids involved in the seismic cycle of extensional faults in carbonate rocks. *Earth and Planetary Science Letters*, in press.
- Alessia Conti A., Bortoluzzi G., Bigi S., Muccini F., Cocchi F., Cuffaro M., Ligi M., Doglioni C., 2016. The escarpment of the Latium-Campania margin, in the eastern Tyrrhenian back-arc basin Structural and stratigraphic control on salient and recess development along a thrust belt front: the Northern Apennines (Po Plain, Italy). Submitted.
- Cuffaro M., Martorelli E., Bosman A., Conti A., Bigi S., Muccini F., Cocchi L., Ligi M., Bortoluzzi G., Scrocca D., Canese S.P., Chiocci F.L., Conte A.M., Doglioni C., Perinelli C., 2016. Evidence of a new volcanic complex on the Ventotene slope (Tyrrhenian Sea, Italy) from high resolution geophysical data. Submitted to *Bulletin of Volcanology*.

2015

- Bigi S., Beaubien S., Ciotoli G., D'Ambrogi C., Doglioni C., Ferrante V., Lombardi S., Milli S., Orlando L., Ruggiero L., Tartarello C., Sacco P. 2015. Mantle-derived CO₂ migration along active faults within an extensional basin margin (Fiumicino, Rome, Italy). *Tectonophysics*, 637, 137-149, <http://dx.doi.org/10.1016/j.tecto.2014.10.001>
- Cardello G.L and Doglioni C., 2015. From Mesozoic rifting to the Apennines orogeny: The Gran Sasso range (Italy). *Gondwana Research*, 27, 1307–1334, <http://dx.doi.org/10.1016/j.gr.2014.09.009>
- Doglioni C., Carminati E., Crespi M., Cuffaro M., Penati M., Riguzzi F., 2015. Tectonically asymmetric Earth: From net rotation to polarized westward drift of the lithosphere. *Geoscience Frontiers*, 6, 3, 401 - 418, <http://dx.doi.org/10.1016/j.gsf.2014.02.001>
- Doglioni C., Barba S., Carminati E. Riguzzi F., 2015. Fault on-off versus strain rate and earthquakes energy. *Geoscience Frontiers* 6, 265-276, doi: <http://dx.doi.org/10.1016/j.gsf.2013.12.007>
- Doglioni C., and Anderson D.L., (2015) Top driven asymmetric mantle convection. In *The Interdisciplinary Earth: A volume in honor of Don L. Anderson*. Geological Society of America Special Paper 514, American Geophysical Union Special Publication 71, doi:10.1130/2015.2514(05).
- Doglioni C. and Panza G.F. (2015) Polarized plate tectonics. *Advances in Geophysics*, 56, 3, 1-167, <http://dx.doi.org/10.1016/bs.agph.2014.12.001>
- Doglioni C., Carminati E., Petricca P., Riguzzi F. (2015) Normal fault earthquakes or graviquakes. *Scientific Reports*, 5, 12110 doi:10.1038/srep12110.
- Foulger, G. R., G. F. Panza, I. M. Artemieva, I. D. Bastow, F. Cammarano, C.

- Doglioni, J. R. Evans, W. B. Hamilton, B. R. Julian, M. Lustrino, H. Thybo, and T. B. Yanovskaya (2015) What lies deep in the mantle below? *Eos*, 96, 25 August doi:10.1029/2015EO034319.
- Motaghi, K., Tatar, M., Priestley, K., Romanelli, F., Doglioni, C. and Panza, G.F., 2015. The deep structure of the Iranian Plateau. *Gondwana Research*, <http://dx.doi.org/10.1016/j.gr.2014.04.009>
- Petricca P., Barba S., Carminati E., Doglioni C., Riguzzi F. (2015) Graviquakes in Italy. *Tectonophysics*, 656, 202–214, doi:10.1016/j.tecto.2015.07.001
- Sottili G.L., Palladino D., Cuffaro M., Doglioni C. (2015) Earth's rotation variability triggers explosive eruptions in subduction zones. *Earth Planets Space*, 67:208 DOI 10.1186/s40623-015-0375-z
- 2014**
- Deng, Y., Panza, G.F., Zhang, Z., Romanelli, F., Ma, T., Doglioni, C., Wang, P., Zhang, X. and Teng, J., 2014. Transition from continental collision to tectonic escape? A geophysical perspective on lateral expansion of the northern Tibetan Plateau. *Earth, Planets and Space*, 66, 10, doi:10.1186/1880-5981-66-10
- Doglioni C. 2014. Asymmetric Earth: mechanisms of plate tectonics and earthquakes. *Rendiconti - Accademia Nazionale delle Scienze detta dei XL - Memorie di Scienze Fisiche e Naturali*, pp. 9–27, ISBN 987-88-548-7171-7, DOI 10.4399/97888548717171
- Doglioni C., Barba S., Carminati E. Riguzzi F., 2014. Fault on-off versus coseismic fluids reaction. *Geoscience Frontiers*, v. 5, issue 6, pp. 767 – 780, doi.org/10.1016/j.gsf.2013.08.004
- Muluneh A.A., Cuffaro M., Doglioni C., 2014. Left-lateral transtension along the Ethiopian Rift and constrains on the mantle–reference plate motions. *Tectonophysics*, DOI: 10.1016/j.tecto.2014.05.036
- 2013**
- Riguzzi F., Crespi M., Devoti R., Doglioni C., Pietrantonio G., Pisani A.R., 2013. Strain rate relaxation of normal and thrust faults in Italy. *Geophysical Journal International*. doi: 10.1093/gji/ggt304
- 2012**
- Bigi S., Lenci F., Scrocca D., Doglioni C., Carminati E. (2012): Apennines. In: Roberts D. & Bally A.W. (eds), *Principles of Phanerozoic Regional Geology*, 14.6.10.
- Carminati E., Doglioni C. 2012. Alps Vs. Apennines: The paradigm of a tectonically asymmetric Earth. *Earth Science Rev.*, 112, 67-96, doi:10.1016/j.earscirev.2012.02.004.
- Carminati E., Doglioni C., Gelabert B., Panza G., Raykova R.B., Roca E., Sabat F. & Scrocca D. (2012): Evolution of the Western Mediterranean. In: Roberts D. & Bally A.W. (eds), *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, chapter 12, 437-470.
- Carminati, E., Lustrino M., Doglioni, C., 2012. Geodynamic evolution of the central and western Mediterranean: Tectonics vs. igneous petrology constraints, *Tectonophysics*, 579, 173–192, doi:10.1016/j.tecto.2012.01.026
- Riguzzi, F. Crespi, M., Devoti, R., Doglioni, C. Pietrantonio G. and Pisani, A.R., 2012. Geodetic strain rate and earthquake size: New clues for seismic hazard studies. *Physics of the Earth and Planetary Interiors* 206-207, 67–75.
- Scrocca D., Carminati E., Doglioni C. & Procaccianti D. (2012): Tyrrhenian Sea. In: Roberts D. & Bally A.W. (eds), *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, chapter 13, 473-485.

- Varga, P., Krumm, F., Riguzzi, F., Doglioni, C., Süle, B., Wang, K., Panza, G.F. 2012. Global pattern of earthquakes and seismic energy distributions: Insights for the mechanisms of plate tectonics, *Tectonophysics*, 530-531, 80-86, 10.1016/j.tecto.2011.10.014.
- Varga, P., Krumm, F.W., Doglioni, C., Grafarend, E.W., Panza, G., Riguzzi, F., Schreider, A.A., Sneeuw, N., 2012. Did a change in tectonic regime occur between the Phanerozoic and earlier Epochs? *Rend. Fis. Acc. Lincei* (2012) 23:139–148, DOI 10.1007/s12210-012-0172-6
- Zanchetta, S., Garzanti, E., Doglioni, C., Zanchi, A. 2012. The Alps in the Cretaceous: a doubly vergent pre-collisional orogen. *Terra Nova*, doi: 10.1111/j.1365-3121.2012.01071.x
- Doglioni C., Ligi M., Scrocca D., Bigi S., Bortoluzzi G., Carminati E, Cuffaro M., D’Orlando F., Forleo V., Muccini F., Riguzzi F., 2012. The tectonic puzzle of the Messina area (Southern Italy): Insights from new seismic reflection data. *Scientific Reports*, Nature, 2, 970; DOI:10.1038/srep00970

2011

- Cuffaro M., Riguzzi F., Scrocca D. & Doglioni C. (2011) Coexisting tectonic settings: the example of the southern Tyrrhenian Sea. *Int. J. Earth Sci. (Geol Rundsch)*, DOI 10.1007/s00531-010-0625-z
- Doglioni, C., Barba, S., Carminati, E. & Riguzzi, F. 2011. Role of the brittle-ductile transition on fault activation. *Phys. Earth Planet. Int.*, 184, 160–171.
- Doglioni C., Ismail-Zadeh A., Panza G., Riguzzi F., 2011. Lithosphere-aesthenosphere viscosity contrast and decoupling. *Physics of the Earth and Planetary Interiors*, 189, 1-8.
- Plastino W., Panza G.F., Doglioni C., Frezzotti M.L., Peccerillo A., De Felice P., Bella F., Povinec P.P., Nisi S., Ioannucci L., Aprili P., Balata M., Cozzella M.L., Laubenstein M., 2011. Uranium groundwater anomalies and active normal faulting. *J Radioanal Nucl Chem*, 288, 101–107.

2010

- Agostini S., Doglioni C., Innocenti F., Manetti P. & Tonarini S. (2010): On the geodynamics of the Aegean rift. *Tectonophysics*, 488, 7-21.
- Brandmayr E., Raykova R., Zuri M., Romanelli F., Doglioni C., Panza G.F., 2010. The lithosphere in Italy: structure and seismicity. In: (Eds.) Marco Beltrando, Angelo Peccerillo, Massimo Mattei, Sandro Conticelli, and Carlo Doglioni, *The Geology of Italy: tectonics and life along plate margins*, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, v. 36, paper 1. doi:10.3809/jvirtex.2010.00224
- Carminati E., Cavazza D., Scrocca D., Fantoni R., Scotti P., and Doglioni C., 2010. Thermal and tectonic evolution of the Southern Alps (northern Italy) rifting: Coupled organic matter maturity analysis and thermokinematic modeling. *Americ. Ass. Petrol. Geol. Bull.*, 94/3, 369–397, doi:10.1306/08240909069.
- Carminati E. and Doglioni C. 2010. North Atlantic geoid high, volcanism and glaciations. *Geophys. Res. Lett.*, 37, L03302, doi:10.1029/2009GL041663.
- Carminati, E., Lustrino, M., Cuffaro, M. and Doglioni, C. 2010. Tectonics, magmatism and geodynamics of Italy: What we know and what we imagine. In: (Eds.) Marco Beltrando, Angelo Peccerillo, Massimo Mattei, Sandro Conticelli, and Carlo Doglioni, *The Geology of Italy: tectonics and life along plate margins*, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, volume 36, paper 9, doi:10.3809/jvirtex.2010.00226
- Carminati E., Scrocca D., Doglioni C. 2010. Compaction-induced stress variations with depth in an active anticline: Northern Apennines, Italy. *J. Geophys. Res.* 115, B02401,

- doi:10.1029/2009JB006395.
- Cuffaro M., Riguzzi F., Scrocca D., Antonioli F., Carminati E., Livani M., Doglioni C. 2010. On the geodynamics of the northern Adriatic plate. *Rend. Fis. Acc. Lincei*, 21 (Suppl 1): S253–S279 DOI 10.1007/s12210-010-0098-9.
- D'Ambrogi C., Scrocca D., Pantaloni M., Valeri V., Doglioni C. 2010. Exploring Italian geological data in 3D. In: (Eds.) Marco Beltrando, Angelo Peccerillo, Massimo Mattei, Sandro Conticelli, and Carlo Doglioni, *The Geology of Italy: tectonics and life along plate margins*, Journal of the Virtual Explorer, Electronic Edition, ISSN 1441-8142, volume 36, paper 24, doi:10.3809/jvirtex.2010.00256
- Innocenti F., Agostini S., Doglioni C., Manetti P., Tonarini S. 2010. Geodynamic evolution of the Aegean: constraints from the Plio-Pleistocene volcanism of the Volos-Evia area. *J. Geol. Soc.*, vol. 167, 475–489, ISSN: 0016-7649
- Panza G. Doglioni C. & Levshin A. (2010): Asymmetric ocean basins. *Geology*, 38, 1, p. 59–62, doi: 10.1130/G30570.1.
- Plastino W., Povinec P.P., De Luca G., Doglioni C., Nisi S., Ioannucci L., Balata M., Laubenstein M., Bella F., Coccia E., 2010. Uranium groundwater anomalies and L'Aquila earthquake, 6th April 2009 (Italy). *J. Environ. Radioact.*, 101, 45–50, doi:10.1016/j.jenvrad.2009.08.009.
- Riguzzi F., Panza G., Varga P. & Doglioni C. (2010): Can Earth's rotation and tidal despinning drive plate tectonics? *Tectonophysics*, 484, 60–73, doi:10.1016/j.tecto.2009.06.012.
- 2009**
- Carminati E., Cuffaro M., Doglioni C., 2009. Cenozoic uplift of Europe. *Tectonics*, 28, TC4016, doi:10.1029/2009TC002472.
- Doglioni C., Tonarini S. & Innocenti F. (2009): Mantle wedge asymmetries and geochemical signatures along W- and E-NE-directed subduction zones. *Lithos*, 113, 179–189, doi:10.1016/j.lithos.2009.01.012.
- 2008**
- Cuffaro M., Caputo M. & Doglioni C. (2008): Plate sub-rotations. *Tectonics*, 27, TC4007, doi:10.1029/2007TC002182, 2008
- D'Ambrogi C. & Doglioni C. (2008): Struttura delle Vette Feltrine. *Rendiconti Soc. Geol. It.*
- Devoti C., Riguzzi F., Cuffaro M. & Doglioni C. (2008): New GPS constraints on the kinematics of the Apennines subduction. *Earth Planet. Sci. Lett.*, 273, 163–174.
- Doglioni C. & Carminati E. (2008): Structural styles and Dolomites field trip. *Mem. Descr. Carta Geol. It.*, 82 1–299.
- Doglioni, C., (2008): Comment on “The potential influence of subduction zone polarity on overriding plate deformation, trench migration and slab dip angle” by W.P. Schellart. *Tectonophysics*, 463, 208–213.
- D'Orazio M., Innocenti F., Tonarini S. & Doglioni C. (2008): Reply to the discussion of: “Carbonatites in a subduction system: The Pleistocene alvikites from Mt. Vulture (Southern Italy)” by M. D'Orazio, F. Innocenti, S. Tonarini and C. Doglioni (*Lithos* 98, 313–334) by F. Stoppa, C. Principe and P. Giannandrea, *Lithos*, 103, 557–561.
- Yanev Y., Boev B., Doglioni C., Innocenti F., Manetti P., Pecskey Z., Tonarini S. & D'Orazio M. (2008): Late Miocene to Pleistocene potassic volcanism in the Republic of Macedonia. *Mineralogy and Petrology* DOI 10.1007/s00710-008-0009-2.
- 2007**
- Agostini S., Doglioni C., Innocenti F., Manetti P., Tonarini S., Savascin M.Y.,

- (2007): The transition from subduction-related to intraplate Neogene magmatism in the Western Anatolia and Aegean area. In Beccaluva, L., Bianchini, G., and Wilson, M., eds., *Cenozoic Volcanism in the Mediterranean Area*: Geological Society of America Special Paper, 418, p. 1–15, doi: 10.1130/2007.2418(01).
- Crespi, M., Cuffaro, M., Doglioni, C., Giannone, F., & Riguzzi, F. (2007): Space geodesy validation of the global lithospheric flow. *Geophysical Journal International*, 168, 491–506, doi: 10.1111/j.1365-246X.2006.03226.x.
- Cuffaro M. & Doglioni C. (2007): Global Kinematics in the deep versus shallow hotspot reference frames. In: Foulger, G.R., and Jurdy, D.M., eds., *Plates, plumes, and planetary processes*, *Geol. Soc. Am. Spec. Pap.*, 430, 359–374, doi: 10.1130/2007.2430(18).
- Doglioni C. (2007). Tectonics of the Dolomites. *Bulletin fur angewandte geology*. 12/2, pp. 11–15.
- Doglioni C., Carminati E., Cuffaro M. and Scrocca D. (2007): Subduction kinematics and dynamic constraints. *Earth Science Reviews*, 83, 125–175, doi:10.1016/j.earscirev.2007.04.001.
- D’Orazio M., Innocenti F., Tonarini S. & Doglioni C. (2007): Carbonatites in a subduction system: the Pleistocene alvikites from Mt. Vulture (southern Italy). *Lithos*, 98, 313–334, 10.1016/j.lithos.2007.05.004.
- Farafonova Yu.G., Panza G.F., Yanovskaya T.B. and Doglioni C. 2007. Upper Mantle Structure in the Alpine Zone from Surface Wave Tomography. *Russian Academy of Sciences. Doklady Earth Sciences*, 2007, Vol. 416, No. 7, pp. 1114–1117, ISSN 1028-334X, © Pleiades Publishing, Ltd., 2007. Published in *Doklady Akademii Nauk*, 2007, Vol. 416, No. 3, pp. 388–391.
- Garzanti, E., Doglioni, C., Vezzoli, G., Andò, S., (2007): Orogenic Belts and Orogenic Sediment Provenances. *Journal of Geology*, 115, 315–334.
- Lenci F. and Doglioni C. (2007): On some geometric prism asymmetries. In: *Thrust belts and Foreland Basins: From Fold Kinematics to Hydrocarbon Systems*, O. Lacombe, J. Lavé, F. Roure and J. Verges (Eds.), *Frontiers in Earth Sciences*, Springer, 41–60.
- Panza G., Raykova R.B., Carminati E., & Doglioni C. (2007): Upper mantle flow in the western Mediterranean. *Earth Planet. Sci. Lett.*, 257, 200–214.
- Scrocca D., Carminati E., Doglioni C. & Marcantoni D. (2007): Slab retreat and active shortening along the central-northern Apennines. In: *Thrust belts and Foreland Basins: From Fold Kinematics to Hydrocarbon Systems*, O. Lacombe, J. Lavé, F. Roure and J. Verges (Eds.), *Frontiers in Earth Sciences*, Springer, 471–487.
- Tonarini S., Agostini S., Doglioni C., Innocenti F. & Manetti P. (2007): Evidence for serpentinite fluid in convergent margin systems: The example of El Salvador (Central America) arc lavas. *G3, Geochemistry, Geophysics, Geosystems*, 8, 9, 1–18, Q09014, doi:10.1029/2006GC001508.
- 2006**
- Agostini S., Corti G., Doglioni C., Carminati E., Innocenti F., Tonarini S., Manetti P., Di Vincenzo G. & Montanari D. (2006): Tectonic and magmatic evolution of the active volcanic front in El Salvador: insight into the Berlin and Ahuachapán geothermal areas. *Geothermics*, 35, 368–408.
- Carminati E., Doglioni C. & Scrocca D. (2006): I fragili equilibri della Pianura Padana. *Le Scienze*, 450, febbraio, 86–94.
- Corti G., Cuffaro M., Doglioni C., Innocenti F. & Manetti P. (2006): Coexisting geodynamic processes in the Sicily Channel. In: Y. Dilek & S. Pavlides (Eds),

- Postcollisional tectonics and magmatism in the Mediterranean region and Asia, *Geol. Soc. Am. Sp. Paper*, 409, 83-96.
- Cuffaro M., Carminati E. & Doglioni C. (2006): Horizontal versus Vertical Plate Motions. *eEarth Discuss.*, 1, 1-18.
- Doglioni C., Carminati E. & Cuffaro M. (2006): Simple kinematics of subduction zones. *Int. Geol. Rev.*, 48, 6, 479-493.
- Doglioni, C., Cuffaro, M. and Carminati, E. (2006): What moves plates? *Boll. Geof. Teor. App.*, 47, 3, 227-247.
- Riguzzi F., M. Crespi, M. Cuffaro, C. Doglioni, F. Giannone, (2006): A model of absolute plate motion. In: F. Sansò and A.J. Gil (Eds), *Geodetic Deformation Monitoring: From Geophysical to Engineering Roles*, International Association of Geodesy Symposia, vol. 131, Springer, 200-208.
- Scoppola B., Boccaletti D., Bevis M., Carminati E. & Doglioni C. (2006): The westward drift of the lithosphere: a rotational drag? *Bull. Geol. Soc. Am.*, 118, 1/2; p. 199–209; doi: 10.1130/B25734.1.
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2005

- Agostini S., Doglioni C., Innocenti F., Manetti P., Savascin M.Y. & Tonarini S. (2005): Tertiary high-Mg volcanic rocks from Western Anatolia and their geodynamic significance for the evolution of the Aegean area. In: Fytikas M. & Vougioukalakis G.E. (Eds), *The South Aegean Active Volcanic Arc*, *Developments in Volcanology*, 7, Elsevier, p. 345-362.
- Carminati E. & Doglioni C. (2005): Europe - Mediterranean tectonics. In *Encyclopedia of Geology*, Elsevier, v. 2, 135-146.
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