

Curriculum vitae et studiorum - Salvatore Iaccarino

(orcid - 0000-0002-9844-6005)

PERSONAL DETAILS

Born in Sorrento (NA)

Current position: Lecturer B in Structural Geology and Tectonics (SSD: GEO-03) - (Department of Earth Sciences, DST, Università degli Studi di Torino; UNITO)

Personal webpage: <https://iaccarinosalvatore.wixsite.com/salvatoreiaccarino>

BIBLIOMETRIC INDEXES (@23th December 2022)

Scopus: h-index=16; citations=919; documents=39

Google Scholar: h-index=17; i10-index=21; citations=1109

ERC macrosector: PE10_5 Geology, tectonics, volcanology

RESEARCH STATEMENT AND FIELDS OF INTEREST

Salvatore Iaccarino specializes in Structural Geology and Tectonics, with a particular interest on the evolution of both modern and ancient orogenic belts. His research activity is focused on the structural characterization and on the tectono-metamorphic evolution of crystalline basements, using a multidisciplinary approach. He integrates structural-geological data, from the map- & meso-scale down to microscale (including petrofabric and textural analysis), with information from metamorphic petrology (with the aid of both forward and inverse modelling) and from geochronology (including U-Th/Pb monazite, zircon, rutile etc.. petrochronology; Ar/Ar mica geochronology and U-Th-Sm/He thermochronology) with the aim of investigating processes, and their rates, active during the geodynamic evolution of orogenic belts. Particular attention is paid to (1) growth and evolution of orogens, (2) deformations, metamorphism, and exhumation of deep-seated crustal rocks, (3) kinematics, strain, flow regime and rheology of high-strain shear zones. Field areas includes examples of both "*small cold orogens*" and of "*large hot orogens*". Currently, he is working mainly on the Himalaya-Tibet orogenic system (Nepal, India, SE Tibet) and on the N. Apennine, W Alps and Southern Variscan Belt (Sardinia, Maures Massif, External Crystalline Massifs). He is also involved in projects related to the geology of Antarctica (Ross Orogen, North Victoria Land) and of the Southern Brasilia Belt.

EDUCATION

Liceo Scientifico (Sorrento, NA)

2008 BSc in Geology (110 cum laude) - Università di Pisa (UNIPi)

2011 MSc in Geology (110 cum laude) - UNIPi

2015 PhD in Earth Sciences, UNIPi - "Tectono-metamorphic evolution of the Greater Himalayan Sequence (GHS) in Western and Central Nepal (Central Himalaya): insights on the exhumation of deep-seated crustal rocks" [Supervisors: Montomoli C. (UNIPi); Massonne H.J. (Stuttgart University); Carosi R. (UNITO)]

2015 Erasmus+/Traineeship - Stuttgart University

VISITING INTERNATIONAL RESEARCH PERIODS

- visiting PhD student at the Institut für Mineralogie und Kristallchemie, Stuttgart University (DE); tutor: Prof. Massonne H.-J.: 2012 (January, May); 2013 (January, February, July); 2014 (January, February, March); 2015 (May, June, July)

- visiting post-Doc and lecturer (Institut für Mineralogie und Kristallchemie, Stuttgart University (DE); tutor: Prof. Massonne H.-J.): 2016 (June); 2017 (June); 2018 (February)

PROFESSIONAL EXPERIENCE

2015-2017 Post-doc in Structural Geology and Tectonics (UNIPi)

2017-2020 Lecturer A in Structural Geology and Tectonics (SSD: GEO-03) - (UNITO)

2018-2028 Italian National Scientific Qualification for Associate Professor (04/A2)

2020-present Lecturer B in Structural Geology and Tectonics (SSD: GEO-03) - (UNITO)

TEACHING EXPERIENCE

2011 student assistant (UNIFI)

2012-2017 PhD and Post-doc student assistant (UNIFI)

2015-2017 Involved in different activities (seminars, summer school and field trips) related to the PLS (Piano Nazionale Lauree Scientifiche) project (Resp. Montomali C., UNIFI)

2017-present Applied Structural geology - MSc in Applied Earth Sciences (UNITO)

2018-present Tectonics and Regional Geology - BSc in Geological Sciences (UNITO)

2018-present Earth System and applications - PhD school in Earth Sciences (UNITO)

2019-present Microtectonics with laboratory - MSc in Applied Earth Sciences (UNITO)

PHD STUDENTS ADVISED

N° 4 PhD students (1 UNIFI, 3 UNITO):

1. Dr. Laura Nania (XXXIII cycle - Dottorato Regionale in Scienze della Terra Pegaso, Università di Firenze, Italy & Dipartimento di Scienze della Terra, Università di Pisa, Italy). Project: *"Kinematics, non-coaxial flow and time constraints of the STDS and the MCT in central Himalaya"* (2017-2020);
2. Dr. Beatriz Yuri Benetti Silva (XXXIV cycle - Dipartimento di Scienze della Terra, Università di Torino, Italy & São Paulo University, Brazil). Project: *"Kinematics and P-T-t evolution of localized deformation in collisional frameworks - comparison between a Neoproterozoic and a Phanerozoic hot orogen"* (2018-2021);
3. Dr. Alessandro Petrocchia (XXXV cycle - Dipartimento di Scienze della Terra, Università degli Studi di Torino, Italy). Project: *"Tectono-metamorphic evolution of the Nappe Zone of the Sardinian Variscan belt, Italy: Constraining the architecture of the hinterland-foreland transition zone in a collisional environment"* (2019-present);
4. Dr. Davide Dana (XXXVIII cycle - Dipartimento di Scienze della Terra, Università degli Studi di Torino, Italy). Project: *"Unravelling the assembly, tectono-metamorphic evolution and coupling of slices of continental and oceanic lithosphere: a multidisciplinary and multi-scale approach"* (2022-ongoing)

UNDERGRADUATE ADVISED

N° 9 BSc Thesis - N° 15 MSc Thesis

BSc projects:

1. *"Deformazione eterogenea in zone di taglio: un esempio da rocce naturalmente deformate della Main Central Thrust Zone (area del Makalu, Nepal Orientale)"* – Laura Nania (Pisa, 27-02-2014);
2. *"Rilevamento geologico-strutturale e relazioni tra il complesso filoniano e rocce incassanti nell'area di Reale (Isola d'Elba Orientale)"* – Leonardo Garibaldi (Pisa, 18-12-2015);
3. *"Caratterizzazione mineralogica e chimica di tormaline in campioni di orthogneiss himalayani"* – Monica Panu (Pisa, 18-12-2015);
4. *"Caratterizzazione mineralogico-petrografica e applicazione del geotermometro Calcite-Dolomite su marmi impuri della Tethyan Sedimentary Sequence (Himalaya)"* – Michelle Zampogna (Pisa, 22-04-2016);
5. *"Architettura, cinematica e metamorfismo del thrust della Barbagia (Sardegna Centrale)"* – Linda Franceschi (Pisa, 18-11-2016);
6. *"Il thrust della Barbagia (Sardegna Centrale): assetto strutturale ed implicazioni metamorfiche"* – Marco Mencaroni (Pisa, 16-12-2016);
7. *"Associazione di miloniti, cataclasi e pseudotachiliti: l'esempio del vallone di Gilba (Massiccio del Dora Maira)"* – Davide Dana (Torino, 20-11-2020) [winner of David Giuntini award - ed. 2020];
8. *"La 'faglia' del Sempione: rilevamento geologico-strutturale ed analisi cinematica di una faglia normale a basso angolo"* – Alessandro del Re (Torino, 10-11-2022);
9. *"Rilevamento geologico-strutturale ed analisi strutturale di una porzione del complesso grafítico del Pinerolese (Val Chisone, Alpi Occidentali)"* – Stefano Tartaglia (Torino, in progress);

MSc projects:

1. *"Tectonometamorphic evolution of the Massa Unit in the Punta Bianca area (Northern Apennines, Italy)"* – Samuele Papeschi (Pisa, 24-04-2015);
2. *"Evoluzione tettonica del Greater Himalayan Sequence (Garhwal, India, NW Himalaya): analisi microstrutturale, geocronologia e microtermometria"* – Chiara Montemagni (Pisa, 26-02-2016);
3. *"Assetto strutturale di una zona di transpressione: rilevamento geologico-strutturale, studio della deformazione finita, petrofabric del quarzo ed analisi della vorticità cinematica lungo un transetto della linea Posada-Asinara (Sardegna)"* – Riccardo Graziani (Pisa, 21-04-2017); [winner of Giampaolo Piali award - ed. 2018];
4. *"Studio della deformazione non coassiale del South Tibetan Detachment System e del Main Central Thrust (Himalaya centrale): analisi microstrutturale, petrofabric e vincoli geocronologici"* – Laura Nania (Pisa, 22-09-2017);
5. *"Relazioni tra deformazione, metamorfismo ed intrusioni granitiche: l'esempio del plutone del Monte Capanne (Elba occidentale)"* – Leonardo Garibaldi (Pisa, 06-04-2018);
6. *"La High Himalayan Discontinuity nelle valli del Marshyandi e Buri Gandaki (M. Manaslu, Nepal Centrale): analisi strutturale e datazione geocronologica"* – Giulia Tartaglia (Torino, 13-04-2018);
7. *"Determinazione delle condizioni metamorfiche dell'Unità di Massa affiorante sul versante occidentale delle Alpi Apuane mediante forward modeling"* – Silvia Lomonte (Pisa, 16-12-2018);
8. *"Analisi geologico-strutturale e microstrutturale della porzione sud-occidentale del massiccio delle Serre (Calabria)"* – Silvia Purrone (Torino, 20-12-2019);
9. *"Studio geologico – strutturale di due transetti (Modi Khola e Mardi Himal) nella Regione dell'Annapurna, Nepal centro – occidentale (Himalaya)"* – Giorgia Carano (Torino, 16-04-2021) [winner of David Giuntini award - ed. 2021];
10. *"Architettura strutturale ed evoluzione tettono-metamorfica delle Unità Brianzonesi nei Massicci delle Aiguilles de Chambeyron – Denti di Maniglia (Francia, Italia)"* – Davide Dana (Torino, 21-06-2022); [winner of Best Geological Map Award - "Emilio Cortese" - ed. 2022];
11. *"Metamorfismo barroviano nella zona delle Baronie (NE Sardegna): aspetti microstrutturali e stime P-T"* – Valentina Pagano (Torino, 9-06-2022);
12. *"Analisi microstrutturale e datazione della zona di taglio High Himalayan Discontinuity in Sikkim (India NE): conseguenze sull'evoluzione tettonica della Greater Himalayan Sequence"* – Letizia Stellino (Torino, 21-06-2022);
13. *"Rilevamento geologico-strutturale ed analisi meso- e micro-strutturale di zone di taglio Varisiche ed Alpine nella porzione meridionale del Massiccio dell'Argentera"* – Gaetano Bertolo (Torino, in progress);
14. to be compiled soon

NB: we are always looking for motivated BSc and MSc students!!!!

INTERNATIONAL REVIEW ACTIVITIES

Research projects: Natural Sciences and Engineering Research Council of Canada (NSERC)

Peer-reviewed Journals: Acta Geochimica; Contribution to Mineralogy and Petrology; Geochemistry, Geophysics, Geosystem (G3); Geofluids, Geological Field Trips and Maps; Geological Magazine; Geological Society of London; Geology; Geosciences; Geosciences Frontiers; International Journal of Earth Sciences; Journal of Geodynamics; Journal of Metamorphic Geology; Journal of Petrology; Lithos; Minerals; Physics and Chemistry of the Earth; Tectonics; Tectonophysics; Tektonika; Terra Nova; Ofioliti

EDITORIAL BOARD & SPECIAL VOLUMES

2018 Guest Editor, Italian Journal of Geosciences: "Integrating multiple techniques to constrain the evolution of basement geology"

2020 Guest Editor, Geosciences: "Subduction and Exhumation of the Lithosphere: The Contribution of Structural Geology, Petrology and Geochronology"

2022-present Guest Editor, Swiss Journal of Geosciences: "The Evolution of collisional orogens in space and time the Alpine-Himalayan system in 4 dimensions"

Topic Editor: Geosciences, Minerals

ORGANIZATION OF SESSION IN NATIONAL AND INTERNATIONAL CONGRESSES

2014 Co-organizer of 29th HKT workshop, Lucca (IT)

2017 Convener of the scientific session S18 - joint congress of Geological Society of Italy (SGI) and Italian Society of Mineralogy and Petrology (SIMP)

2018 Convener of the scientific session S10 - joint congress of SGI & SIMP

2018 Member of the scientific committee - Young Researchers in Structural geology and Tectonics, YORSGET, (Montgenèvre, France)

2019 Member of the Scientific committee - 2nd Conference of the Arabian Journal of Geosciences (CAJG) (Sousse, Tunisia)

2019 Convener of the session S13 - joint congress of SGI / SIMP

Member of the Organizing committee of the "Giornata Himalayana" (supported by IGHG): 2016 (PISA), 2021 (TURIN)

2020 Member of the Scientific committee - 3rd Conference of the Arabian Journal of Geosciences (CAJG)

2022 Member of the Scientific committee - YORSGET (Catania, IT)

2022 Member of the Organizing committee - joint congress of SGI & SIMP (Turin)

2022 Convener of the scientific session: S10. "Evolution of collisional orogens in space and time: the Alpine-Himalayan system in 4 dimensions" (joint SGI-SIMP meeting, Turin)

TALKS & KEYNOTE

- Salvatore Iaccarino frequently participates to International (e.g., EGU, HKT) and National scientific (SGI, SIMP) congresses. He is first author and co-author of more than 60 oral contributions (including keynotes) and of more than 80 poster contributions.

- invited talks: 2013 & 2015 (Stuttgart University); 2015 (PETROCHRONO2015 workshop, Potsdam); 2018 ("Giornata Himalayana", Milano Bicocca)

ACADEMIC ACTIVITY

Salvatore is member of SGI, SIMP societies and more recently of the Swiss Tectonic Group. He regularly participates to the main DST departmental activities, including departmental councils and CCS and he took part to several committee, including post-doc scholarships and for visiting professors. Besides research and teaching, Salvatore is involved in several project of public engagement and dissemination (including participation as co-author to "GEOLOGICAMENTE", the informative periodical of the SGI).

Main activities:

2018-2020 Member of laboratory committee (UNITO)

2018-present Co-organizer of "Geoseminars"(UNITO monthly departmental seminars)

2018-present Co-responsible of the departmental Newsletter

2019-2020 Junior officer of TecTask (IUGS task on Structural Geology and Tectonics)

2019-present Secretary of the Italian Group of Himalayan Geology (IGHG) of SGI

2020 Member of the committee for the international prize "Medaglia Capellini"

2020-present Secretary of the Structural Geology section (GIGS) of SGI

2020-present Treasurer of TecTask

2020-present Member of Public engagement committee (UNITO)

2020-present Scientific contact person for the agreement between UNITO and China University of Geosciences (School of Earth Sciences, Wuhan, China)

2020-present Participation to "E'Geologica", a DST initiative (Resp. Bonetto S.) related to the dissemination (seminars and lab. activity) of Geology, involving high-school students

2021 Member of the scientific committee of "*Waiting for Yorsget*" - digital meeting"

2021-present Member of SGI - "Comitato Comunicazione (Media e siti web)"

2022 Member of the committee for the 4th "Henk Zwart Award"

2022-present Member of the board of International Association for Structural Geology and Tectonics (IASGT)

2022 Co-organizer of the workshop - WS8. GIGS: "Cartografia geologica e sezioni geologiche realizzate tramite Google Earth e 3DMove"(SGI-SIMP meeting 2022, Turin)

Examination board committee of 4 PhD Students:

1. Dr. Jie Chen (Turin, 09-07-2019)
2. Dr. Matteo Simonetti (Turin, 08-05-2020)
3. Dr. Anna Barbaro (Pavia, 25-03-2022)
4. Dr. Stefania Corvò (Pavia, 25-03-2022)

INTERNATIONAL GEOLOGICAL FIELD EXPEDITIONS

Himalayan range (8 field expeditions out of 1 have been organized and leaded by S. Iaccarino)

RESEARCH PROJECTS AND GRANTS

Salvatore Iaccarino participated to:

- PRIN 2010-11 (Univ. Pisa research unit): "Subduction and exhumation of continental lithosphere: implications on orogenic architecture, environment and climate" (2010PMKZX7; Resp. Prof. Carosi R., UNITO)
- PNRA 2013 (Univ. Torino research unit): "L'evoluzione del "melange tettonico" della Sutura Lanterman-Mariner: implicazioni per la geodinamica del margine paleo-Pacifico di Gondwana e modellazione numerica" (PdR 2013/B2.04; Resp. Prof.ssa Crispini L., UNIGE)
- PRA 2016: "The role of shear zones in the construction of orogens: case histories from orogenic belts" (PRA_2016_40; Resp. Prof.ssa Montomoli C., UNIPI)
- PRIN 2015 (Univ. Torino research unit): "The subduction and exhumation of the continental lithosphere: their effects on the structure and evolution of the orogenes" (2015EC9PJ5; Resp. Prof. Doglioni C., UNIROMA)
- PNRA 2016: "Filling the gap in the geological mapping of Victoria land and integration of geological maps in a digital dataset" (PNRA16_00042, Resp. Prof. Capponi G., UNIGE)

Salvatore Iaccarino is responsible for the current projects:

- "Il ruolo delle zone di taglio nell'evoluzione tettono-metamorfica della litosfera" (UNITO, IACS_RILO_18_01, € 3.977)
- "Localizzazione della deformazione a diversi livelli strutturali nella litosfera ed implicazioni sull'evoluzione tettono-metamorfica degli orogeni collisionali" (UNITO, IACS_RILO_19_01, € 6.445)
- "Zooming inside shear zones: from mega- to micro-scale and backward" (UNITO, IACS_RILO_20_01, € 7.373)
- "Evoluzione delle zone di taglio nello spazio e nel tempo: implicazioni per la costruzione ed evoluzione degli orogeni collisionali" (UNITO, IACS_RILO_22_01, € 6.812,10)

Salvatore Iaccarino was awarded:

- with the travel grants: 2014 (SGI/SIMP meeting in Milan); 2015 (Petrochronology2015 workshop, Potsdam); 2017 (EGU short course – Petrochronology: Methods and Applications, Vienna)
- 2019 Departmental grant (UNITO) supporting abroad research periods (> 1 month) for young researchers
- 2022 Grant - "Premialità riservata ai giovani ricercatori a tempo determinato di cui all' art. 24, comma 3 lettera a) e lettera b)", Università degli Studi di Torino.

PUBLICATIONS (*as MSc-student)

2010

1. DA MOMMIO A., **IACCARINO S.***, VEZZONI S., DINI A., ROCCHI S., BROCCINI D., GUIDERI S. & SBRILLI L. (2010) Valorizzazione del geosito «Sezione Coquand», miniera del Temperino (Parco Archeominerario di San Silvestro, Campiglia Marittima) (*Atti della Società Toscana di Scienze Naturali Memorie, Serie A, 115, 55-72*);

2013-2015

2. MONTOMOLI C., IACCARINO S., CAROSI R., LANGONE A. & VISONÀ D. (2013) Tectono-metamorphic discontinuities within the Greater Himalayan Sequence in Western Nepal (Central Himalaya): Insights on the exhumation of crystalline rocks (*Tectonophysics*, 608, 1349–1370);
3. CAROSI R., GEMIGNANI L., GODIN L., IACCARINO S., LARSON K.P., MONTOMOLI C. & RAI S.M. (2014) A geological journey in the deepest gorge of the Earth: the Kali Gandaki section west-central Nepal (*Journal of the Virtual Explorer, Electronic Edition*, ISSN 1441-8142, volume 47, paper 7, DOI: 10.3809/jvirtex.2014.00337);
4. JAIN A. K., SHRESHTHA M., SETH P., KANYAL L., CAROSI R., MONTOMOLI C., IACCARINO S. & MUKERJEE P.K. (2014) The Higher Himalayan Crystallines, Alaknanda – Dhaul Ganga Valleys, Garhwal Himalaya, India (*Journal of the Virtual Explorer, Electronic Edition*, ISSN 1441-8142, volume 47, paper 8, doi:10.3809/jvirtex.2014.00349);
5. MONTOMOLI C., CAROSI R. & IACCARINO S. (2015) Tectono-metamorphic discontinuities in the Greater Himalayan Sequence and their role in the exhumation of crystalline units (*Geological Society, London, Special Publications*, 412, 25–41, doi:10.1144/SP412.3);
6. CAROSI R., MONTOMOLI C., LANGONE A., CESARE B., TURINA A., IACCARINO S., FASCIOLI L., VISONÀ D., RONCHI A. & RAI S.M. (2015) Eocene partial melting recorded in peritectic garnets from kyanite-gneiss, Greater Himalayan Sequence, central Nepal (*Geological Society, London, Special Publications*, 412, 111–129, doi:10.1144/SP412.1);
7. IACCARINO S., MONTOMOLI C., CAROSI R., MASSONNE, H.-J., LANGONE A. & VISONÀ D. (2015) Pressure–Temperature–Time–Deformation path of kyanite-bearing migmatitic paragneiss in the Kali Gandaki valley (Central Nepal): Investigation of Late Eocene–Early Oligocene melting processes (*Lithos*, 231, 103–121, <http://dx.doi.org/10.1016/j.lithos.2015.06.005>);

2016-2018

8. CAROSI R., MONTOMOLI C., IACCARINO S., MASSONNE H.-J., RUBATTO D., LANGONE A., GEMIGNANI, L. & VISONÀ D. (2016) Middle to late Eocene exhumation of the Greater Himalayan Sequence on the Central Himalayas: progressive accretion from the Indian Plate (*Geological Society of America Bulletin*, 128, 1571–1592; doi: 10.1130/B31471.1);
9. MONTEMAGNI C., FULIGNATI P., IACCARINO S., MARIANELLI P., MONTOMOLI C. & SBRANA A. (2016) Deformation and fluid flow in the Munsiri Thrust (NW India): a preliminary fluid inclusion study (Central Himalaya) (*in press, Atti della Società Toscana di Scienze Naturali Memorie, Serie A*, 123, 67–77, doi:0.2424/ASTSN.M.2016.22);
10. LEZZERINI M., TAMPONI M., D’AMATO AVANZI G., IACCARINO S. & PERCHIAZZI N. (2016) XRF analysis of major and minor elements in silicate rocks using fused glass discs at high dilution ratio (*Atti della Società Toscana di Scienze Naturali Memorie, Serie A*, 123, 55–59, doi:10.2424/ASTSN.M.2016.20);
11. PERCHIAZZI N., ARMIENTI P., IACCARINO S. & LEZZERINI M. (2016) A contribution to the mineralogy of the Larderello geothermal field. X-ray crystallographic studies on borate minerals bechilite and lagonite and crystal structure determination of ginorite (*Atti della Società Toscana di Scienze Naturali Memorie, Serie A*, 123, 79–87, doi: 10.2424/ASTSN.M.2016.23);
12. IACCARINO S., MONTOMOLI C., CAROSI R., MASSONNE H.-J. & VISONÀ D. (2017) Geology and tectono-metamorphic evolution of the Himalayan Metamorphic Core: insights from the Mugu Karnali transect, Western Nepal (Central Himalaya) (*Journal of Metamorphic Geology*, 35, 301–325, doi:10.1111/jmg.12233);
13. MONTOMOLI C., CAROSI R., RUBATTO D., VISONÀ D. & IACCARINO S. (2017) Tectonic activity along the inner margin of the South Tibetan detachment constrained by syntectonic leucogranite emplacement in Western Bhutan (*Italian Journal of Geosciences*, 136, 5–14, doi:10.3301/IJG.2015.26);
14. MONTOMOLI C., IACCARINO S., ANTOLIN B., APPEL E., CAROSI R., DUNKL I., DING L. & VISONÀ D. (2017) Tectono-metamorphic evolution of the Tethyan Sedimentary Sequence (Himalayas, SE Tibet) (*Italian Journal of Geosciences*, 136, 73–88, doi: 10.3301/IJG.2015.42);
15. IACCARINO S., MONTOMOLI C., CAROSI R., MONTEMAGNI C., MASSONNE H.-J., JAIN, A.K. & VISONÀ D. (2017) Pressure–Temperature–Deformation–Time constraints on the South Tibetan Detachment System along the Alaknanda–Dhaul Ganga valleys, Garhwal Himalaya (NW India) (*Tectonics*, 36, 2281–2304, doi: 10.1002/2017TC004566);

16. CAROSI R., MONTOMOLI C. & IACCARINO S. (2018) 20 years of geological mapping of the metamorphic core across Central and Eastern Himalayas (*Earth-Science Reviews*, 177, 124–138; doi.org/10.1016/j.earscirev.2017.11.006);
17. MONTEMAGNI C., IACCARINO S., MONTOMOLI C., CAROSI R., JAIN A.K. & VILLA I.M. (2018) The brittle-ductile transition of the South Tibetan Detachment System in Garhwal: constraints from $^{40}\text{Ar}/^{39}\text{Ar}$ dating (*Italian Journal of Geosciences*, 137, 175-187 <https://doi.org/10.3301/IJG.2018.07>);
18. MONTOMOLI C., IACCARINO S., SIMONETTI M., LEZZERINI M. & CAROSI R. (2018) Structural settings, kinematics and metamorphism in a km-scale shear zone in the Inner Nappes of Sardinia (Italy) (*Italian Journal of Geosciences*, 137, 294-310, <https://doi.org/10.3301/IJG.2018.16>);
19. CHEN J., CAROSI R., CAO H., MONTOMOLI C., IACCARINO S., REAL C., LANGONE A., & LI G. (2018) The Yalaxiangbo gneiss dome in Tibet: structural and metamorphic setting (*Italian Journal of Geosciences*, 137, 330-347, <https://doi.org/10.3301/IJG.2018.18>);

2019-2022

20. MONTEMAGNI C., MONTOMOLI C., IACCARINO S., CAROSI R., JAIN A.K., MASSONNE H.-J. & VILLA I.M. (2019) Dating protracted fault activities: microstructures, microchemistry and geochronology of the Vaikrita Thrust, Main Central Thrust zone, Garhwal Himalaya, NW India (*Journal of Geological Society, London, Special Publications*, 481, 127-146, [doi: 10.1144/SP481.3](https://doi.org/10.1144/SP481.3));
21. CAROSI R., MONTOMOLI C., IACCARINO S. & VISONÀ D. (2019) Structural evolution, metamorphism and melting in the GHS in Western and Central Nepal (*Journal of Geological Society, London, Special Publication*, 483, 305-323, <https://doi.org/10.1144/SP483.3>);
22. GHEZZI L., IACCARINO S., CAROSI R., MONTOMOLI C., SIMONETTI M., PAUDYAL K.R., CIDU E. PETRINI R. (2019) Water quality and solute sources in the Marsyangdi River systems of Higher Himalayan range (Central Nepal) (*Science of the Total Environment*, 677, 580-589, <https://doi.org/10.1016/j.scitotenv.2019.04.363>);
23. MONTEMAGNI C., CAROSI R., FUSI N., IACCARINO S., MONTOMOLI C., VILLA I.M. & ZANCHETTA S. (2020) Three-dimensional vorticity and time-constrained evolution of the Main Central Thrust zone, Garhwal Himalaya (NW India) (*Terra Nova*, 32, 215-224, <https://doi.org/10.1111/ter.12450>);
24. GRAZIANI R., MONTOMOLI C., IACCARINO S., MENEGON L., NANIA L. & CAROSI R. (2020) Structural setting of a transpressive shear zone: insights from geological mapping, quartz petrofabric and kinematic vorticity analysis in NE Sardinia (Italy) (*Geological Magazine*, 157, 1898-1916, <https://doi.org/10.1017/S0016756820000138>);
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