

Dr. Alexander Koptev

E-mail: alexander.koptev@gfz-potsdam.de,
koptev11@gmail.com

Web page: <http://www.koptev.1gb.ru>

Born: June 17st, 1985, Ryazan, Russia

Research Interests

Numerical modelling, geodynamics, tectonics, lithosphere rheology, continental rifting, subduction

- Numerical thermo-mecanical modelling of geodynamic processes;
- Rheological behavior of the continental lithosphere;
- Mechanisms of continental rifting and break-up;
- Interactions between mantle plumes and continental lithosphere;
- Subduction initiation and evolution;
- Links between tectonics, topography, and climate.

Professional Experience

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| Since 2022 | GFZ German Research Centre for Geosciences, Potsdam, Germany; postdoctoral fellowship; |
| 2019 - 2021 | University of Tübingen, Department of Geosciences, Tübingen, Germany; Alexander von Humboldt Experienced Researcher fellowship; |
| 2017 - 2019 | University of Tübingen, Department of Geosciences, Tübingen, Germany; postdoctoral fellowship; |
| 2013 - 2017 | University Pierre and Marie Curie Paris-6, ISTEP-UMR7193, Paris, France; postdoctoral fellowship; |
| 2012 | LLC «GeoGrid», Moscow, Russia; head geologist; |
| 2006 - 2011 | Lomonosov Moscow State University, Geological Faculty, Regional Geology and Earth History Department, Moscow, Russia; research engineer. |

Academic Training

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| 2022 | Habilitation in Geology, Geophysics and Geodynamics from University of Tübingen, Hab. thesis: «Impact of rheologically stratified lithosphere on geodynamics in divergent and convergent tectonic settings: Insights from thermo-mechanical modelling»; |
| 2008 - 2011 | Ph.D. in Geology from Lomonosov Moscow State University, Ph. D. thesis: «Numerical modelling of the stress field in the Earth's lithosphere»; |
| 2006 - 2008 | M.Sc. in Geology , with high honours, Lomonosov Moscow State University, Geological Faculty, Master's thesis: «Global stress field: results of the numerical modelling»; |
| 2002 - 2006 | B.Sc. in Geology , with high honours, Lomonosov Moscow State University, Geological Faculty, Bachelor's thesis: «Statistical parameters of the seismic regime within the Japan subduction zone». |

Awards

- A. Flinn - Pembroke J. Hart Award (Outstanding Young Scientist), International Lithosphere Program, **2018**.

Teaching Experience

At University of Tübingen:

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| <i>"Numerical Modelling in Geodynamics"</i> | M.Sc. students, Department of Geosciences, Winter semester 2020-2021 ; |
| <i>"Applied Tectonics and Surface Processes"</i> | M.Sc. students, Department of Geosciences, Winter semester 2020-2021 ; |
| <i>"Introduction to Earth Surface Processes"</i> | 3rd year B.Sc. students, Department of Geosciences, Winter semesters 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024 ; |

At Lomonosov Moscow State University:

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| <i>"General geology"</i> | 1st year B.Sc. students, Faculty of Soil Science, Fall semesters 2007, 2008, 2009 ; 1st year B.Sc. students, Geographical Faculty, Fall semester 2007 ; |
| <i>"Geotectonics"</i> | 4th year B.Sc. students, Geological Faculty, Spring semesters 2008, 2009 ; |
| <i>"Basics of mathematical modelling"</i> | 4th year B.Sc. students, Geological Faculty, Fall semesters 2006, 2007, 2008, 2009, 2010, 2011 ; |
| <i>"Basics of programming"</i> | 4th year B.Sc. students, Geological Faculty, Spring semesters 2007, 2008, 2009, 2010, 2011 ; |
| <i>"Geodynamics"</i> | 3rd year B.Sc. students, Geological Faculty, Spring semester 2010 ; |
| <i>"Summer field excursion"</i> | 1st year B.Sc. students, Geological Faculty, Spring semesters 2007, 2008, 2009 . |

PhD (co-)supervising

Matthias Nettesheim. Thesis subject: "Mechanics of deformation at plate corners". Obtained grade: Ph.D., University of Tübingen, Tübingen, Germany; **2021**.

Anouk Beniest. Thesis subject: "From continental rifting to conjugate margins. Insights from analogue and numerical modelling". Obtained grade: Ph.D., University Pierre and Marie Curie, Paris, France; **2017**.

Languages

Russian – native, English – fluent, French – fluent, German – advanced.

Professional Services

Reviewing of ~50 papers in 22 journals: *Geochemistry*, *Geophysics*, *Geosystems* (6 reviews); *Gondwana Research* (5); *Tectonophysics* (5); *Nature Communications* (3); *Geophysical Research Letters* (3); *Tectonics* (3); *Nature Geoscience* (2); *Geology* (2); *Earth and Planetary Science Letters* (2); *Journal of Geophysical Research: Solid Earth* (2); *Scientific Reports* (2); *Global and Planetary Change* (2); *Journal of Geodynamics* (2); *Solid Earth* (2); *Communications Earth & Environment* (1); *Geophysical Journal International* (1); *Geological Society London Special Publications* (1); *Journal of Asian Earth Sciences* (1); *International Geology Review* (1); *Acta Geodaetica et Geophysica* (1); *Mathematical Geosciences* (1); *Bulletin of the Hungarian Geological Society* (1).

Session convener at *AGU Fall Meeting* (2023).

Field Experience

WestMedFlux cruise Ifremer (Western Mediterranean Basin), 2016; Paleomagnetic studies, the Kola Peninsula (Russia), 2009; Geological mapping, the South Urals (Russia), 2006; Paleoseismogeological studies, the Kola Peninsula (Russia), 2005.

Invited Seminars

- Short course «Tectonics of sedimentary basins, lithosphere dynamics and mantle-lithosphere interactions». University of Bari Aldo Moro, Bari, Italy, 30.10.2023;
- International Workshop «Frontiers of research on coupled surface-deep processes and perspectives on energy and climate societal challenges». Institute of Earth Physics and Space Science, Sopron, Hungary, 18.04.2023;
- Course «Introduction to Geodynamic and Landscape Evolution Numerical Modelling». Milan, Italy, 17.05 - 19.05.2022;
- Seminar in GFZ German Research Centre for Geosciences on rheological structure of the lithosphere. Potsdam, Germany, 01.12.2021;
- Rift and Rift Margins Online Seminar (GFZ Potsdam): 29. Cratons & Rifts, 23.08.2021;
- Seminar in the Department of Geosciences, University of Tübingen on thermo-mechanical modelling of subduction zones. Tübingen, Germany, 14.11.2017;
- Seminar in GFZ German Research Centre for Geosciences on plume-lithosphere interactions. Potsdam, Germany, 14.09.2017;
- Seminar in IFP Energies nouvelles on modelling of continental rifting. Rueil-Malmaison, France, 21.02.2017;
- Seminar in the Department of the Earth Sciences, Utrecht University on numerical modelling of the East African Rift system. Utrecht, Netherlands, 15.06.2016;
- IStEP seminar on numerical modelling of plume-lithosphere interactions. Paris, France, 06.11.2015;
- XIV International Workshop on Modelling of Mantle and Lithosphere Dynamics. Oleron, France, 31.08 - 05.09.2015.

Publications (in ISI peer review journals)

- **Koptev A.**, Cloetingh S. (2024). Role of Large Igneous Provinces in continental break-up varying from “Shirker” to “Producer”. // *Communications Earth & Environment*, 5, 27.
- Cloetingh S., Sternai P., **Koptev A.**, Ehlers T.A., Gerya T., Kovács I., Oerlemans J., Beekman F., Lavalée F., Dingwell D., Békési E., Porkoláb K., Tesauro M., Lavecchia A., Botsyun S., Muller V., Roure F., Serpelloni E., Matenco L., Castelltort S., Giovannelli D., Brovarone A.V., Malaspina N., Coletti G., Valla P., Limberger J. (2023). Coupled surface to deep Earth processes: Perspectives from TOPO-EUROPE with an emphasis on climate- and energy-related societal challenges. // *Global and Planetary Change*, 226, 104140.
- Andric-Tomasevic N., **Koptev A.**, Maiti G., Gerya T., Ehlers T.A. (2023). Slab tearing in non-collisional settings: Insights from thermo-mechanical modelling of oblique subduction. // *Earth and Planetary Science Letters*, 610, 118097.
- **Koptev A.**, Cloetingh S., Gerya T., Sternai P., Botsyun S. (2022). Ocean-continent subduction cannot be initiated without preceding intra-oceanic subduction! // *Frontiers in Earth Sciences*, 10, 1097922.
- **Koptev A.**, Nettesheim M., Falkowski S., Ehlers T.A. (2022). 3D geodynamic-geomorphologic modelling of deformation and exhumation at curved plate boundaries: Implications for the southern Alaskan plate corner. // *Scientific Reports*, 12, 14260.
- **Koptev A.**, Nettesheim M., Ehlers T.A. (2022). Plate corner subduction and rapid localized exhumation: Insights from 3D coupled geodynamic and geomorphological modelling. // *Terra Nova*, 34(3), 210-223.
- Cloetingh S., **Koptev A.**, Lavecchia, A., Kovács I.J., Beekman, F. (2022). Fingerprinting secondary mantle plumes. // *Earth and Planetary Science Letters*, 597, 117819.
- Botsyun S., Ehlers T.A., **Koptev A.**, Boehme K., Methner K., Risi C., Stepanek C., Mutz S.G., Werner M., Boateng D., Mulch A. (2022). Middle Miocene climate and stable oxygen isotopes in Europe based on numerical modeling. // *Paleoceanography and Paleoclimatology*, 37(10), e2022PA004442.
- Botsyun S., Mutz S.G., Ehlers T.A., **Koptev A.**, Wang X., Schmidt B., Appel E., Scherer D.E. (2022). Influence of large-scale atmospheric dynamics on precipitation seasonality of the Tibetan Plateau and Central Asia in cold and warm climates during the Late Cenozoic. // *Journal of Geophysical Research: Atmospheres*, 127(12), e2021JD035810.
- **Koptev A.**, Cloetingh S., Ehlers T.A. (2021). Longevity of small-scale (“baby”) plumes and their role in lithospheric break-up. // *Geophysical Journal International*, 227(1), 439-471.

- **Koptev A.**, Cloetingh S., Kovács I., Gerya T., Ehlers T.A. (2021). Controls by rheological structure of the lithosphere on the temporal evolution of continental magmatism: Inferences from the Pannonian Basin system. // *Earth and Planetary Science Letters*, 565, 116925.
- Kovács I.J., Liptai N., **Koptev A.**, Cloetingh S.A.P.L., Lange T.P., Matenco L., Szakács A., Radulian M., Berkesi M., Patkó L., Molnár G., Novák A., Wesztergom V., Szabó C., Francsik T. (2021). The 'pargasosphere' hypothesis: looking at global plate tectonics from a new perspective. // *Global and Planetary Change*, 204, 103547.
- Le Gall B., Gama R., **Koptev A.**, Chazot G., Boniface N., Loget N., Daoud M.A., Tarits P., Plasman M., Hautot S. (2021). The anomalously-propagating South Kenya rift in the context of the North Tanzanian Divergence zone, East Africa. // *Tectonophysics*, 814, 228968.
- Cloetingh S., **Koptev A.**, Kovács I., Gerya T., Beniest A., Willingshofer E., Ehlers T.A., Andrić-Tomašević N., Botsyun S., Eizenhöfer P.R., François T., Beekman F. (2021). Plume-induced sinking of intra-continental lithospheric mantle: An overlooked mechanism of subduction initiation? // *Geochemistry, Geophysics, Geosystems*, 22(2), e2020GC009482.
- Poort J., Lucazeau F., Le Gal V., Dal Cin M., Leroux E., Bouzid A., Rabineau M., Palomino D., Battani A., Akhmanov G.G., Ferrante G.M., Gafurova D.R., Si Bachir R., **Koptev A.**, Tremblin M., Bellucci M., Pellen R., Camerlenghi A., Migeon S., Alonso B., Ercilla G., Yelles-Chaouche A.K., Khlystov O.M. (2020). Heat flow in the Western Mediterranean: Thermal anomalies on the margins, the seafloor and the transfer zones. // *Marine Geology*, 419, 106064.
- Kovács I., Patkó L., Liptai N., Lange T., Taracsák Z., Cloetingh S.A.P.L., Török K., Király E., Karátson D., Biró T., Kiss J., Pálos Zs., Aradi L., Falus Gy., Hidas K., Berkesi M., **Koptev A.**, Novák A., Wesztergom V., Francsik T., Szabó Cs. (2020). The role of water and compression in the genesis of alkaline basalts: Inferences from the Carpathian-Pannonian region. // *Lithos*, 354-355, 105323.
- **Koptev A.**, Ehlers T.A., Nettesheim M., Whipp D.M. (2019). Response of a rheologically stratified lithosphere to subduction of an indenter-shaped plate: Insights into localized exhumation at orogen syntaxes. // *Tectonics*, 38(6), 1908-1930.
- **Koptev A.**, Beniest A., Gerya T., Ehlers T.A., Jolivet L., Leroy S. (2019). Plume-induced breakup of a subducting plate: Microcontinent formation without cessation of the subduction process. // *Geophysical Research Letters*, 46(7), 3663-3675.
- **Koptev A.**, Gerya T., Calais E., Leroy S., Burov E. (2018). Afar triple junction triggered by plume-assisted bi-directional continental break-up. // *Scientific Reports*, 8, 14742.
- Nettesheim M., Ehlers T.A., Whipp D.M., **Koptev A.** (2018). The influence of upper-plate advance and erosion on overriding plate deformation in orogen syntaxes. // *Solid Earth*, 9(6), 1207-1224.
- **Koptev A.**, Calais E., Burov E., Leroy S., Gerya T. (2018). Along-axis variations of rift width in a coupled lithosphere-mantle system, Application to East Africa. // *Geophysical Research Letters*, 45(11), 5362-5370.
- Sychev I.V., Koulakov I., Sycheva N.A., **Koptev A.**, Medved I., El Khrepy S., Al-Arifi N. (2018). Collisional processes in the crust of the northern Tien Shan inferred from velocity and attenuation tomography studies. // *Journal of Geophysical Research: Solid Earth*, 123(2), 1752-1769.
- **Koptev A.**, Cloetingh S., Gerya T., Calais E., Leroy S. (2018). Non-uniform splitting of a single mantle plume by double cratonic roots: Insight into the origin of the central and southern East African Rift System. // *Terra Nova*, 30(2), 125-134.
- François T., **Koptev A.**, Cloetingh S., Burov E., Gerya T. (2018). Plume-lithosphere interactions in rifted margin tectonic settings: Inferences from thermo-mechanical modelling. // *Tectonophysics*, 746, 138-154.
- **Koptev A.**, Burov E., Gerya T., Le Pourhiet L., Leroy S., Calais E., Jolivet L. (2018). Plume-induced continental rifting and break-up in ultra-slow extension context: Insights from 3D numerical modeling. // *Tectonophysics*, 746, 121-137.
- **Koptev A.**, Cloetingh S., Burov E., François T., Gerya T. (2017). Long-distance impact of Iceland plume on Norway's rifted margin. // *Scientific Reports*, 7, 10408.
- Beniest A., **Koptev A.**, Leroy S., Sassi W., Guichet X. (2017). Two-branch break-up systems by a single mantle plume: Insights from numerical modeling. // *Geophysical Research Letters*, 44(19), 9589-9597.
- Beniest A., **Koptev A.**, Burov E. (2017). Numerical models for continental break-up: Implications for the South Atlantic. // *Earth and Planetary Science Letters*, 461, 176-189.
- **Koptev A.**, Burov E., Calais E., Leroy S., Gerya T., Guillou-Frottier L., Cloetingh S. (2016). Contrasted continental rifting via plume-craton interaction: Applications to Central East African rift. // *Geoscience Frontiers*, 7(2), 221-236.
- **Koptev A.**, Calais E., Burov E., Leroy S., Gerya T. (2015). Dual continental rift systems generated by plume-lithosphere interaction. // *Nature Geoscience*, 8, 388-392.
- **Koptev A.I.**, Ershov A.V., Malovichko E.A. (2013). The stress state of the Earth's lithosphere: results of statistical processing of the «World Stress Map» data. // *Moscow University Geology Bulletin*, 68, 17-25.
- **Koptev A.I.**, Ershov A.V. (2011). Numerical modelling of the lithosphere's thermal state, the stress field and buckling in Black Sea-Caucasus-Caspian region. // *Bulletin of the Moscow Society of Naturalists, Geological series*, 86(5), 3-11. (in Russian)
- **Koptev A.I.**, Ershov A.V. (2011). Thermal thickness of the Earth's lithosphere: a numerical model. // *Moscow University Geology Bulletin*, 66, 323-330.
- **Koptev A.I.**, Ershov A.V. (2010). The role of the gravitational potential of the lithosphere in the formation of a global stress field. // *Izvestiya, Physics of the Solid Earth*, 46, 1080-1094.

Monographs:

- **Koptev A.I.**, Ershov A.V. Numerical modelling of the stress field in Earth's lithosphere. Methods and results. - LAP, Lambert Academic Publishing, 2014. - 220 pp. (in Russian)

Recent Communications at International Conferences

- Marzotto E., Lobanov S., **Koptev A.**, Koch-Müller M., Speziale S. Olivine's High Radiative Conductivity Increases Slab Temperature by 100-200 K. // AGU Fall Meeting 2023. San Francisco, CA & Online Everywhere, 11-15 December 2023, MR13C-0066.
- Maiti G., Balázs A., Eskens L., Gerya T., **Koptev A.**, Andric-Tomasevic N. Effects of an oblique collision on the evolution of foreland basins: Insights from 3D numerical modeling. // GeoBerlin 2023. Berlin, Germany, 03-08 September 2023.
- Tesauro M., Maierova P., **Koptev A.**, Pastorutti A., Pivetta T., Koulakov I., Braitenberg C. The Zagros Collisional Zone: An example of the interplay between shallow and deep structures. // The 28th General Assembly of the International Union of Geodesy and Geophysics (IUGG). Berlin, Germany, 11-20 July 2023.
- **Koptev A.**, Andric-Tomasevic N., Maiti G., Gerya T., Ehlers T.A. Horizontal and vertical slab tearing as different stages of a self-sustaining process developing in a non-collisional setting with oblique subduction. // EGU General Assembly 2023. Vienna, Austria, 23-28 April 2023, EGU23-1559.
- Cloetingh S., **Koptev A.**, Lavecchia, A., Kovács I.J., Beekman, F. Hydrous secondary plumes: towards understanding the enigmatic «finger» structures in the intraplate lithospheric mantle. // EGU General Assembly 2023. Vienna, Austria, 23-28 April 2023, EGU23-2386.
- Tesauro M., Maierova P., **Koptev A.**, Pastrutti A., Pivetta T., Koulakov I., Braitenberg C. How did tectonics shape the Zagros Collisional Zone? Insights from data observations and numerical models. // EGU General Assembly 2023. Vienna, Austria, 23-28 April 2023, EGU23-9427.
- Maiti G., Balázs A., Eskens L., Gerya T., **Koptev A.**, Andric-Tomasevic N. Effects of deep lithospheric processes and lateral crustal heterogeneity on the 3D evolution of foreland basins. // EGU General Assembly 2023. Vienna, Austria, 23-28 April 2023, EGU23-812.
- Andric-Tomasevic N., **Koptev A.** How does slab tearing evolve? // EGU Blogs, 29 March 2023. EGU ECS, Geodynamics 101, News & Views.
- Maiti G., Balázs A., Eskens L., Gerya T., **Koptev A.**, Andric-Tomasevic N. Foreland basin evolution: Insights from 3D numerical modelling. // 6th Annual AlpArray Scientific Meeting 2022. Prague, Czech Republic, 12-14 October 2022.
- Cloetingh S., **Koptev A.**, Kovacs I., Gerya T., Beniést A., Willingshofer E., Ehlers T., Andric-Tomasevic N., Botsyun S., Eizenhofer P., Francois T., Beekman F. Plume-induced sinking of the intracontinental lithosphere as a fundamentally new mechanism of subduction initiation. // EGU General Assembly 2022. Vienna, Austria, 23-27 May 2022, EGU2022-4976.
- **Koptev A.** Long-distance impact of Iceland mantle plume on Scandinavian topography. // 9th Bonn Humboldt Award Winners' Forum «Frontiers in Biogeography, Ecology, Anthropology, and Evolution. Humboldt and the 'Cosmos' revisited in the 21st Century». Bonn, Germany, 16-20 October 2019.
- **Koptev A.**, Beniést A., Gerya T., Ehlers T.A., Jolivet L., Leroy S. Plume-induced micro-continent formation without cessation of subduction. // EGU General Assembly 2019. Vienna, Austria, 07-12 April 2019, Vol.21, EGU2019-2682.
- Beniést A., Sassi W., **Koptev A.**, Leroy S., Rohais S. The thermal evolution of the South Atlantic marginal basins. // AAPG Europe Regional Conference, Global Analogues of the Atlantic Margin. Lisbon, Portugal, 02-03 May 2018.
- **Koptev A.**, Ehlers T., Nettesheim M., Whipp D. Impact of 3D subduction geometry and crustal rheology on deformation at orogen syntaxes: Insights from thermo-mechanical modelling. // EGU General Assembly 2018. Vienna, Austria, 08-13 April 2018, Vol.20, EGU2018-8463-1.
- **Koptev A.**, Sippel J., Scheck-Wenderoth M., Le Pourhiet L., Leroy S. The tectonic inventory of the greater Kenya Rift region investigated by 3D numerical models of plume-lithosphere interactions. // EGU General Assembly 2018. Vienna, Austria, 08-13 April 2018, Vol.20, EGU2018-1592.
- François T., **Koptev A.**, Cloetingh S., Burov E., Gerya T. Plume-lithosphere interactions in rifted margin tectonic settings: Inferences from thermo-mechanical modelling. // EGU General Assembly 2018. Vienna, Austria, 08-13 April 2018, Vol.20, EGU2018-4261.
- Beniést A., **Koptev A.**, Sassi W., Guichet X., Leroy S. The thermal evolution of marginal basins: Results of thermo-mechanical numerical modelling. // EGU General Assembly 2018. Vienna, Austria, 08-13 April 2018, Vol.20, EGU2018-2816.
- Beniést A., Willingshofer E., Sokoutis D., **Koptev A.**, Sassi W., Guichet X., Leroy S. From continental rifting to conjugate passive margins: Insights from analogue and numerical modelling. // EGU General Assembly 2018. Vienna, Austria, 08-13 April 2018, Vol.20, EGU2018-310.
- **Koptev A.**, Scheck-Wenderoth M., Sippel J. 3D thermo-mechanical models of plume-lithosphere interactions: Implications for the Kenya rift. // AGU Fall Meeting 2017. New Orleans, Louisiana, 11-15 December 2017, T33E-0768.
- **Koptev A.**, Burov E., Gerya T., Le Pourhiet L., Leroy S., Calais E., Jolivet L. Polyphase evolution of continental rifting over active mantle upwelling: Spatial and temporal aspects of transition between wide and narrow rifts. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-2670.
- **Koptev A.**, Burov E., Gerya T., Le Pourhiet L., Leroy S., Calais E., Jolivet L. Across-strike and along-strike asymmetry as an intrinsic characteristic of plume-induced continental rifting: Insights from 3D numerical modeling. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-2676.
- **Koptev A.**, Burov E., Calais E., Leroy S., Gerya T., Cloetingh S., Guillou-Frottier L. Plume-induced continental break-up from Red Sea to Lake Malawi: 3D numerical models of the East African Rift System. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-2680.
- Beniést A., **Koptev A.**, Leroy S. Insights from 2D numerical models on two-branch continental break-up: a single mantle plume's effect on a laterally heterogeneous lithosphere. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-6053.

- Beniast A., **Koptev A.**, Leroy S., Burov E. Different modes of continental break-up triggered by a sole mantle plume: a 2D and 3D numerical study. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-6076.
- François T., **Koptev A.**, Cloetingh S., Burov E., Gerya T. Plume-lithosphere interactions in passive margins tectonic settings: Inferences from thermo-mechanical modelling. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-6168.
- Poort J., Lucazeau F., Le Gal V., Rabineau M., Dal Cin M., Bouzid A., Palomino A., Leroux E., Akhmanov G., Battani A., Si Bachir R., Khlystov O., **Koptev A.**, the WestMedflux Team. Heat flow anomalies on the Western Mediterranean margins: first results from the WestMedFlux-2016 cruise. // EGU General Assembly 2017. Vienna, Austria, 23-28 April 2017, Vol.19, EGU2017-9668.
- Beniast A., Sassi W., Guichet X., Leroy S., **Koptev A.** The Effect of Large-Scale Tectonic Activity on Rifted Marginal Basin Petroleum Systems. // AAPG Annual Convention & Exhibition (ACE) 2017. Houston, TX, 02-05 April 2017.
- **Koptev A.**, Gerya T., Jolivet L., Leroy S. Subducting Plate Breakup by Plume-Lithosphere Interaction. // AGU Fall Meeting 2016. San Francisco, California, 12-16 December 2016, T31C-2896.
- Leroy S., **Koptev A.**, Calais E., Gerya T. Integrated Numerical Model for the East African Rift System: Plume-induced Rifting and Continental Break-up from Lake Malawi to Red Sea. // AGU Fall Meeting 2016. San Francisco, California, 12-16 December 2016, T44C-06.
- François T., **Koptev A.**, Cloetingh S., Gerya T. Impact of Iceland Plume on Norway's Rifted Margin. // AGU Fall Meeting 2016. San Francisco, California, 12-16 December 2016, T41E-3011.
- Beniast A., **Koptev A.**, Leroy S. Anomalous Lower Crustal and Surface Features as a Result of Plume-induced Continental Break-up: Inferences from Numerical Models. // AGU Fall Meeting 2016. San Francisco, California, 12-16 December 2016, T32C-06.
- **Koptev A.**, Calais E., Burov E., Leroy S., Gerya T. Modelisations numeriques 3D de l'interaction panache-lithosphere continentale: Implications pour le Rift Est Africain. // 25 Réunion des Sciences de la Terre. Caen, France, 24-28 October 2016, 177.
- **Koptev A.**, Burov E., Calais E., Leroy S., Gerya T. Thermo-mechanical modeling of continental rift evolution over mantle upwelling in presence of far-field stresses. // EGU General Assembly 2016. Vienna, Austria, 17-22 April 2016, Vol.18, EGU2016-6676.
- **Koptev A.**, Burov E., Calais E., Leroy S., Gerya T., Guillou-Frottier L., Cloetingh S. Numerical modeling of continental rifting: Implications for the East African Rift system. // EGU General Assembly 2016. Vienna, Austria, 17-22 April 2016, Vol.18, EGU2016-6294.
- **Koptev A.**, Calais E., Burov E., Leroy S., Gerya T. Along-axis transition between narrow and wide rifts: Insights from 3D numerical experiments. // EGU General Assembly 2016. Vienna, Austria, 17-22 April 2016, Vol.18, EGU2016-6511.
- **Koptev A.**, Burov E., Calais E., Leroy S., Gerya T. Transition from a localized to wide deformation along Eastern branch of Central East African Rift: Insights from 3D numerical models. // AGU Fall Meeting 2015. San Francisco, California, 14-18 December 2015, T41D-04.
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