CURICULLUM VITAE

Name in Full
SAFONOVA Inna Yurievna
FAMILY First Middle
Nationality: **Russia**
Current Appointment **Head of Lab, Senior research scientist**
Academic Degree **Candidate of Geological and Mineralogical Sciences**
Type (PhD, etc.) **PhD;** Date Obtained **10 March 2006**
Fields of the Degree: **Volcanology, Petrology, Geotectonics, Geodynamics,**
Institution: **Novosibirsk State University; Institute of Geology and Mineralogy, SB RAS (IGM SB RAS)**
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url. **https://scholar.google.com/citations?user=sA8XUlkAAAAJ&hl=ru**

Research interests

1. Plate Tectonics: Pacific-type orogeny; accretionary complexes; ocean plate stratigraphy; ocean opening and closure; tectonic erosion; tectonic modeling; magmatic and tectonic factors of continental growth.
2. Mantle dynamics: mantle plumes and related magmatism; triggers of mantle plumes.
3. Geochemistry: major, trace and isotope composition of rocks and its relation to geodynamics;
4. Petrology: petrogenesis and mantle sources of basalts; petrological modelling.
5. Isotope geochronology and geochemistry: U-Pb zircon dating and Nd-Sr-Pb isotopes

Diplomas

1. PhD; United Institute of Geology, Geophysics and Mineralogy SB RAS, Novosibirsk; 2006, PhD (Candidate of Geology-Mineralogical Sciences) in two fields: Geotectonics&Geodynamics; Petrology&Volcanology.
2. MS; Russian Business Academy, Moscow; 2004; M.S. in Management (Honors)
3. The City and Guilds of London Institute, 1998; Higher Intermediate Standard in ESOL (English for Speakers of Other Languages)
4. MS; Novosibirsk State University, Novosibirsk; 1987, M.S. in Geochemistry (Honors)

Professional experience and grants (***h*-index = 27, total citations = 2900**, Google Scholar)

- Institute of Geology and Mineralogy SB RAS; junior research scientist, 1991-1994; research scientist, 1994-2007; senior research scientist, 2007-present.
- Novosibirsk State University; Head of Lab, senior research scientist, 2013-present.
- Associate Editor of Gondwana Research journal; June2010-present
- Associate Editor of Geoscience Frontiers journal; October 2011-present
- Associate Editor of Journal of Asian Earth Sciences; January 2016-present
- Japanese Society for Promotion of Science Invited Fellowship Program at Earth-Life Science Institute, Tokyo Institute of Technology (2014 – 2015).
- Japanese Society for Promotion of Science Invited Fellowship Program at the University of Tokyo (2017).
- Korea Institute of Geology and Mineral Resources (KIGAM), Brain Pool Program Researcher, August-September 2010; March 2011-January 2012;
- Visiting scientist in the Tokyo Institute of Technology (2004, 2006-2008; 2013, 2015);
- Visiting scientist in the University of Tokyo (October 2010- February 2011);
- Scientific Associate at the Centre for Russian and Central EurAsian Mineral Studies (CERCAMS), Natural History Museum, London, 2011 – present;

Patents

Patent for a Method of mapping of accretionary complexes № 2667329 from December 20, `2017)

Membership

Member of the Russian Geographical Society (since 2010)
Secretary of the International Association for Gondwana Research (since 2012)

Reviewer

- grant reviewer: Research Grants Council of Hong Kong; Novosibirsk State University
- journal reviewer: American Journal of Science, Geological Society of America Bulletin, Geoscience Frontiers, Gondwana Research, International Geology Review, Lithos, Journal of Asian Earth Sciences, Journal of Geodynamics, Precambrian Research, Russian Geology and Geophysics, Tectonophysics.

Research projects

Principal Investigator (Leader):

1. Ministry of Education and Science of the Russian Federation, megagrant "A multidisciplinary study of Pacific-type orogenic belts and development of a holistic model linking evolution of oceans, their active margins and mantle magmatism", 2017-2019; http://lepom.nsu.ru/.
2. UNESCO-IUGS, IGCP project # 662 project "Orogenic architecture and crustal growth from accretion to collision: examples from the Central Asian Orogenic Belt and Tethyan orogen", 2017-2021, co-leader; http://www.igcp662.org.cn
3. RFBR (Russian Foundation for Basic Research), "Subduction complexes of the Paleo-Asian Ocean: geological, geochronological, geochemical and petrological implications"; no. 16-05-00313; 2016-2018.
4. UNESCO-IUGS, IGCP project #592 "Continental construction of the Altaids (Central Asian Orogenic Belt) compared to actualistic examples from the Western Pacific"; 2012-2016; Proposer and Leader; http://igcp592.igm.nsc.ru/ ;
5. RFBR - JSPS (Japan Society for Promotion of Science), "Evolution of the Pacific superplume during the Late Proterozoic to the Mesozoic and its impact to the surface environment: petrogenetic and geochemical implications from oceanic basalts and carbonates», no. 07-05-91211; 2007-2009;
6. RFBR, "Oceanic crust of the Paleo-Asian Ocean in the Altai-Sayan foldbelt: age, structural position, composition, geochemical and paleomagnetic characteristics"; grant no. 03-05-64668; 2003-2005.

Co-Principal Investigator:

1. RFBR, Mantle magmatism of the Altai collisional system and mantle-crust interactions; no. 17-05-00825; 2017-2019.
2. RFBR, "Interaction of thermochemical plumes with horizontal mantle flows and lithosphere (experimental and theoretical modeling, natural objects)"; no. 08-05-00301; 2008-2010.
3. INTAS, "Continental Rift Tectonics and Evolution of Sedimentary Basins"; 1994 – 1997.
4. INCO-COPERNICUS, "Landslides Triggered by Earthquakes in Kyrgyzstan"; PL96-3212.2; 1997-2000.
5. RFBR, Formation and evolution of the layered upper mantle beneath South Siberia in Mesozoic and Cenozoic: dynamics of interaction with mantle plumes and relation to geological processes; no.99-05-65688; 1999-2001.
6. RFBR, Tectonics and geodynamics of folded areas in Central Asia; no. 01-05-65090; 2001-2003.

Interdisciplinary cooperative research agreements (as PI):

1. IGM SB RAS – Scottish Universities Environmental Research Centre and University of Leicester, 2012-2014, «Timing of the Siberian Large Igneous Province and the end-Permian mass extinction event».
2. IGM SB RAS – University of Leicester, 2007-2009, «Timing, Extent and Causes of Magmatism Associated with the Permo-Triassic Siberian Large Igneous Province».
3. IGM SB RAS – Tokyo Institute of Technology, 2006-2008, «Age populations of Zircons from River Mouth Sands of Siberia: Correlation with Global Cycles of Continental Growth in Asia and Worldwide».

4. IGM SB RAS – Cambridge University, 2004-2006, CASP program; "Late-Paleozoic-Cenozoic Tectonic Evolution of Mountain Belts at the southern frame of the Western Siberian Plate, SW Siberia, Russia".

Field trips:

1. Russian Altay Mts., SW Siberia, Russia: Kurai and Katun accretionary complexes, Late Neoproterozoic-Early Cambrian ophiolites and oceanic island basalts (OIB); 1995-2017.
2. NW Russian Altay Mts., SW Siberia, Russia: Zasur'ya accretionary complex, L. Cambrian-E. Ordovician ophiolites and OIB; 2007.
3. East Kazakhstan: Char suture-shear zone, L. Devonian-E. Carboniferous ophiolites and OIB; 1996, 2008, 2009, 2012, 2013, 2016, 2017.
4. Southern Siberia, Russia: Kuznetsk Basin; Permian-Triassic continental flood basalts; 2004-2007.
5. World largest rivers: sampling zircons for defining major periods of granitoid magmatism; 2006-2007, Russia; 2010-2011, Korea.
6. Southern Tienshan, Kyrgyzstan: Kokshaal accretionary complex, Devonian ophiolites and OIB; 2009; Alai accretionary complexes, Devonian-Silurian OPS, 2018.
7. Japan: Mino, Tamba, Akiyoshi, Chichibu and Shimanto accretionary complexes, Mikabu belt; Late Permian-Cretaceous ophiolites and OIB: 2007-2017.
8. Chinese Tienshan, Permian intraplate magmatic units with oceanic sediments; 2011.
9. Beishan Orogen: accretionary complexes, eclogites and granulites, NW China, 2013.
10. Inner Mongolia: Ondor-Sum subduction-accretionary complex, NE China, 2015.
11. Central Kazakhstan: Itmurundy accretionary complex, Ordovician OPS, 2017, 2018.
12. Supra-subduciton and accretionary complexes of Uzbekistan, 2017
13. Mongolia: Ulanbaatar terrane, Devonian-Silurian OPS, 2018.

Symposia and Workshops attended *(since 2010)*:

2018: Gondwana to Asia, Xian. China, keynote talk; Conference of Convergent Margins, Vladivostok, Russian, plenary talk; Conference on Altaides-Uralides, Novosibirsk, Russia (plenary talk), JpGU Meeting, Chiba, Japan (invited talk); Earth, Sea, and Sky III Workshop, Sendai, Japan, (invited talk)

2017: JpGU-AGU Meeting, Chiba, Japan (invited talk), GSF Meeting, Beijing, China (invited talk); 2nd Russia-China Conference on the CAOB, Irkutsk, Russia; IAGR Gondwana to Asia Symposium, Bangkok, Thailand (invited talk).

2016: - CERCAMS-16 Workshop & Final Conference of IGCP-592 "One billion years of crustal growth from Altaids to SW Pacific", NHM, London: 27-28 October 2016; *two invited key talks*
- European Geosciences Union General Assembly 2016; Vienna, Austria, April 17–22, 2016;
- 3rd Int'l conf. "Correlation of the Altaides and Uralides»; Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia, March 29 – April 1, 2016; *plenary talk*.

2015: - VI Conference on isotope geochronology "Isotope dating of geological processes", Institute of Precambrian Geology and Geochronology RAS, Sankt-Petersburg, Russia; June 2-5, 2015.
- XVIII International Congress on the Carboniferous and Permian, session 5 "Carboniferous and Permian plate tectonics and orogenies"; Kazan Federal University, Kazan, August 11-15, 2015
- The First China-Russia International Meeting and IGCP 592 Workshop Institute of Geology CAGS, Beijing, China, September 23-28, 2015.
- 2nd International Workshop on Tethyan Orogenesis and Metallogeny in Asia (IWTOMA) and Silk Road Higher Education Cooperation Forum Wuhan, China, October 2015
- The 2015 IAGR Annual Convention and 12th International Symposium on "Gondwana to Asia", University of Tsukuba, Tsukuba, Japan

2014: - International conference on "Continental Dynamics", Xi'an, China; April, 26-28; *invited key talk*
- International Workshop on "Convergent Margins"; Trabzon, Turkey; May 21-13; *two invited key talks*
- The 2014 IAGR Annual Convention and 11th "Gondwana to Asia" International Conference, CUGS, Beijing; September 19-21.

2013: – IGCP#592 Meeting and Field Trip "Beishan Orogen in NW China: accretionary tectonics, magmatism, eclogites and granulites", Hami-Dunhuang, August 22-27.

- The 2013 Annual Convention and 10th International Symposium on Gondwana to Asia, Daejeon, Korea, October 1-4; *invited key talk*.

2012: – The 2012 IAGR Annual Convention and 9th International Symposium on Gondwana to Asia, 18-21 November, Adelaide, Australia: *invited key talk*;

- IV International Conference and III Early Career Geoscientists Workshop "Ultramafic-mafic complexes of folded regions and their mineral resources", August 27-30, Ulan-Ude, Russia: *invited key talk*;
- IGCP #592 launching meeting: International workshop "Geodynamic evolution of the Central Asian Orogenic Belt", May 24-28, St.-Petersburg, Russia;

2011: – Penrose International conference "Comparative evolution of past and present accretionary orogens: Central Asia and the Circum-Pacific" (GSA patronized), September 4-10, Urumqi, China: *invited key talk;*

2010: – 7th International Symposium on Gondwana to Asia, September 25-29, Qingdao, China; *invited key talk*

- International workshop on Geodynamic evolution, tectonics and magmatism of the Central Asian Orogenic Belt, June 29-30, Novosibirsk, Russia; 4 papers presented including an *invited key talk.*

Teaching and lecturing

Novosibirsk State University (NSU)

1998-2000 – part-time teacher in the Novosibirsk University (NSU) physico-mathematical college: Cambridge based English Language Course.
2004 – 2007 - co-supervised three undergraduate and master's students
2007-2008 - supervised *field training course* of NSU undergraduate students
2008 – supervised undergraduate (bachelor's) student dissertation
2010 – supervised master's student dissertation
2010–2012 – supervised a post-graduate student (PhD)
Since 2016 - supervising undergraduate Bs and Ms students
2018 – lectures on Pacific-type convergent margins: geology and magmatism at NSU

Tokyo Institute of Technology

2004 - 2007 – lectures on geochemistry and petrology of oceanic basalts and U-Pb dating of zircons for students of the Department of Earth and Planetary Sciences.
2008, July-August – co-supervised *field training courses* for Russian and Japanese geology students in the Russian Altai together with Dr. T. Komiya from Titech.

University of Tokyo

2008, October - lecture on plume-related volcanism to the students of the Environmental Department.
2010, December – seminar on continental construction, oceanic plate stratigraphy, igneous petrology and granitoid magmatism.
2013, May - lecture on "Tectonics of Asia".
2017, April – lecture of "Continental Construction in Central Asia".

Nanjing University:

2017, December; 2018, April. Pacific-type convergent margins: from Ocean to Mantle: a series of lectures

Kochi University

2010, December – lecture on continental construction in Central and East Asia.

Hong Kong University

2010; September, lecture "The >540 Ma Pacific superplume-related oceanic magmatism: evidence from accretionary complexes of Central and East Asia".
2015; April, lecture "Continental construction in Central Asia and deep-mantle processes"
2018; December, "Tectonic erosion at Pacific-type convergent margins: a review and new data from the western Central Asian Orogenic Belt"

Seoul National University

2011, May, Lecture "Continental construction in orogenic belts: evidence from accretionary complexes and granitoid magmatism"

Yonsei University (Seoul)

2011, November, Lecture on "Continental construction: evidence from accretionary complexes, OPS

and granitoid magmatism"

Additional professional skills

– field observation (visual rock diagnostics, description of structural elements, regional geology);
- microscopic petrography (description of magmatic rocks);
- sample preparation: grinding and leaching of rocks, mineral separation (magnetic, electromagnetic, heavy liquids), hand picking (under binocular), fusion of glass beads (Rigaku machine);
- XRF analysis;
- Raman-laser spectroscopy;
- Laser ablation inductively coupled plasma mass-spectrometry (LA ICP MS): U-Pb dating of zircons (Tokyo Institute of Technology; AIST in Tsukuba; Kyoto University);
- LA ICP MS for trace-element analysis of basalts (on glass beads; Titech; AIST);
- SHRIMP analysis of zircons (Korea Basic Science Institute);
- translating and editing scientific papers;
- preparing scientific projects and applications;
- highly experienced PC user (since 1990; MO Office, Corel, Adobe, Grapher, ArcView, etc.)
- worldwide network of scientific cooperation.

List of Major Publications

(selectively among peer-reviewed papers in SCI journals; totally >150 works published)

1. Safonova I., Komiya T., L. Romer R., Simonov V., Seltmann R., Rudnev S., Yamamoto S., Sun M., 2018. Supra-subduction igneous formations of the Char ophiolite belt, East Kazakhstan. *Gondwana Research* 59, 159–179.
2. Safonova I., Maruyama S., Kruk N., Obut O., Kotler P., Gavryushkina O., Khromykh S., Kuibida M., Krivonogov S., 2018. Pacific-type orogenic belts: linking evolution of oceans, active margins and mantle magmatism. *Episodes* 41, 79-88.
3. Meng F., Safonova I., Chen S., Rioual P., 2018. Late Cenozoic intra-plate basalts of the Greater Khingan Range in NE China and Khangai Province in Central Mongolia. *Gondwana Research* 63, 65–84.
4. Li, P., Sun, M., Rosenbaum, G., Yuan, C., Safonova, I., Cai, K., Jiang, Y., Zhang Y., 2018. Geometry, kinematics and tectonic models of the Kazakhstan Orocline, Central Asian Orogenic Belt. *Journal of Asian Earth Sciences* 153, 42-56.
5. Zhang J., Xiao W., Luo J., Chen Y., Windley B. F., Song D., Han C., Safonova I., 2018. Collision of the Tacheng block with the Mayile-Barleik-Tangbale accretionary complex in Western Junggar, NW China: Implication for Early-Middle Paleozoic architecture of the western Altaids. *Journal of Asian Earth Sciences* 159, 259-278.
6. Safonova, I., Kotlyarov, A., Krivonogov, S., Xiao, W., 2017. Intra-oceanic arcs of the Paleo-Asian Ocean. *Gondwana Research* 50, 167-194.
7. Safonova I., 2017. Juvenile versus recycled crust in the Central Asian Orogenic Belt: Implications from ocean plate stratigraphy, blueschist belts and intra-oceanic arcs. *Gondwana Research* 47, 6-27.
8. Kolesnichenko, M.V., Zedgenizov, D.A., Litasov, K.D., Safonova, I.Yu., Ragozin, A.L., 2017. Heterogeneous distribution of water in the mantle beneath the central Siberian Craton: implications from the Udachnaya Kimberlite Pipe. *Gondwana Research* 47, 249-266.
9. Safonova I., Maruyama, S., Kojima S., Komiya T., Krivonogov S., Koshida K., 2016. Recognizing OIB and MORB in accretionary complexes: a new approach based on ocean plate stratigraphy, petrology, and geochemistry. *Gondwana Research* 33, 92-114.
10. Safonova, I., Biske, G., Romer, R.L., Seltmann, R., Simonov, V., Maruyama, S., 2016. Middle Paleozoic mafic magmatism and ocean plate stratigraphy of the South Tianshan, Kyrgyzstan. *Gondwana Research* 30, 236-256.
11. Safonova, I., Seltmann, R., Sun, M., Xiao, W., Dong Y., Eyuboglu Y, Pushkarev E., Kruk N., 2016. Juvenile crust, mantle magmatism and metallogeny of the Central Asian Orogenic Belt: Progress Report of IGCP#592. *Episodes* 39, 59-69.
12. Kuibida M.L., Safonova I.Yu., Yermolov P.V., Vladimirov A.G., Kruk N.N., Yamamoto S., 2016. Early Carboniferous tonalites and plagiogranites of the Char suture-shear zone in East Kazakhstan: implications for the Kazakhstan-Siberia collision. *Geoscience Frontiers* 7, 141-150.
13. Safonova, I., Maruyama, S., Litasov, K., 2015. Generation of hydrous-carbonate plumes in the mantle transition zone linked to tectonic erosion and subduction. *Tectonophysics* 662, p. 454-471.
14. Xiao, W., Kusky T., Safonova I., Seltmann R., Sun M., 2015. Tectonics of the Central Asian Orogenic Belt and its Pacific analogues. *Journal of Asian Earth Sciences* 113, p. 1-6.

15. Safonova, I., Kojima, S., Nakae, S., Romer, R., Seltmann, R., Sano, H., Onoue, T., 2015. Oceanic island basalts in accretionary complexes of SW Japan: Tectonic and petrogenetic implications. *Journal of Asian Earth Sciences* 113, 508-523.
16. Safonova I., Litasov, K., Maruyama, S., 2015. Triggers and sources of volatile-bearing plumes in the mantle transition zone. *Geoscience Frontier* 6, 679-685.
17. Sharkov, E., Lebedev, V., Chugaev, A., Zabarinskaya, L., Rodnikov, A., Sergeeva, N., Safonova, I., 2015. The Caucasian-Arabian segment of the Alpine-Himalayan collisional belt: Geology, volcanism and neotectonics. *Geoscience Frontiers* 6, 513-522.
18. Popov, N.V., Safonova I.Yu., Postnikov A.A., Terleev, A.A., Komiya, T., Tokarev, D.A., 2015. Paleoproterozoic Granitoids from the Basement of the central Siberian Platform (Borehole Mogdinskaya-6): U–Pb Age and Composition. *Doklady Earth Sciences* 461, 34-38.
19. Ge, S., Zhai, M., Safonova, I., et al., 2015. Whole-rock geochemistry and Sr–Nd–Pb isotope systematics of the Late Carboniferous volcanic rocks of the Awulale metallogenic belt in the western Tianshan Mountains (NW China): Petrogenesis and geodynamical implications. *Lithos* 228-229, 62-77.
20. Simonov V.A., Mikolaichuk A.V., Safonova I.Yu., Kotlyarov A.V., Kovyazin S.V., 2015. Late Paleozoic-Cenozoic intra-plate continental basaltic magmatism of the Tienshan-Junggar region in the SW Central Asian Orogenic Belt. *Gondwana Research* 27, 1646-1666.
21. Safonova, I., Santosh, M., 2014. Accretionary complexes in the Asia-Pacific region: Tracing archives of ocean plate stratigraphy and tracking mantle plumes. *Gondwana Research* 25, 126-158.
22. Safonova I., Maruyama, S., 2014. Asia: a frontier for a future supercontinent Amasia. *International Geology Review* 59, 1051-1071.
23. Safonova, I., Seltmann, R., Sun, M., Xiao, W., Rasskazov, S., Kislov, E., Kim, S.W., Glen, D., 2014. Continental construction in Central Asia (IGCP#592): 2013 Meetings and Training Activities. *Episodes*, v. 37, no. 2, p. 15-21.
24. Yang, G., Li, Y., Safonova, I., Yi, S., Tong, L., Seltmann, R., 2014. Early Carboniferous volcanic rocks of West Junggar in the western Central Asian Orogenic Belt: implications for a supra-subduction system. *International Geology Review* 56, 823-844.
25. Safonova I., 2014. The Russian-Kazakh Altai orogen: an overview and main debatable issues. *Geoscience Frontiers* 5, 537-552.
26. Glorie, S., Buslov, M., Zhimulev F., Safonova I., 2014. Provenance of Early Paleozoic sediments at the southwestern margin if the Siberian Craton: insights from detrital zircon U-Pb geochronology. *Journal of Asian Earth Sciences* 82, 115-123.
27. Kurganskaya E.V., Safonova I.Yu., and Simonov V.A., 2014. Geochemistry and petrogenesis of suprasubduction volcanic complexes of the Char strike-slip zone, eastern Kazakhstan: Russian Geology and Geophysics55, 69–84.
28. Gerya, T., Slabunov, A., Santosh, M., Safonova, I., 2014. Granulites and eclogites in geodynamics: Preface. *Gondwana Research* 25, 439-441.
29. Novikov I.V., Vapnik E., Safonova I.Yu., 2013. Mud volcano origin of the Mottled Zone, South Levant. *Geoscience Frontiers* 4, 597-619.
30. Kusky, T., Windley, B., Safonova, I., Wakita, K., Wakabayashi, J., Polat, A., Santosh., M., 2013. Recognition of Ocean Plate Stratigraphy in accretionary orogens through Earth history: A record of 3.8 billion years of sea floor spreading, subduction, and accretion. *Gondwana Research* 24, 501-547.
31. Kim, J.Y., Krivonogov, S.K., Lee, Y.J., Woo, J.Y., Oh, K.C., Yang, D.Y., Kim, J.C., Safonova, I.Y., Yamamoto, M., 2013. Climatic stages recorded in sediments of the Gunang Cave, South Korea. *Quaternary International* 313-314, 194-209.
32. Orkhonselenge, A., Krivonogov, S.K., Mino, K. ,Kashiwaya, K., Safonova, I.Y., Yamamoto M., Kashima K., Nakamura, T., Kim, J.Y. 2013. Holocene sedimentary records from Lake Borsog at the eastern shore of Lake Hovsgol, Mongolia, and their paleoenvironmental implications. *QuaternaryInternational*290-291, 95-109.
33. Safonova, I.**,** Simonov, V.A., Obut, O.T., Kurganskaya, E.V., Romer,R., Seltmann, R., 2012. Late Paleozoic oceanic basalts hosted by the Char suture-shear zone, East Kazakhstan: geological position, geochemistry, petrogenesis and tectonic setting.*Journal of Asian Earth Sciences* 49, 20-39.
34. Krivonogov S.K., Takahara H., Yamamuro M., PreisYu.I.,Khazina I.V., Khazin L.B., Safonova I.Yu., Ignatova N.V. 2012. Regional to local environmental changes in southern Western Siberia: evidence from biotic records of mid to late Holocene sediments of Lake Beloye. *Palaeogeography, Palaeoclimatology, Palaeoecology*331-332, 177-193.
35. Long X., Yuan C., Sun M., Safonova I., Xiao W., Wang Y., 2012. Geochemistry and U-Pb detrital zircon dating of Paleozoic greywackes in East Junggar, NW China: Insights into subduction-accretion processes in the southern Central Asian Orogenic Belt. *Gondwana Research* 21, 637-663.
36. KrivonogovS.K., Yi, S., Kashiwaya, K., Kim, J.C., Narantsetseg, T., Oyunchimeg, T., SafonovaI.Y.,Kazansky, A.Y., Sitnikova, T., Kim, J.Y., Hasebe, N., 2012.Solved and unsolved problems of sedimentation, glaciation and paleolakes of the Darhad Basin, Northern Mongolia.*Quaternary Science Reviews* 56, 142-163.

37. Krivonogov S.K., Yamamuro M., Takahara H., Kazansky A.Y., Klimin M.A., Bobrov V.A., Safonova I.Y.,Phedorin M.A., Bortnikova S.B., 2012. An abrupt ecosystem change in Lake Beloye, southern Western Siberia: Palaeoclimate versus local environment. *Palaeogeography, Palaeoclimatology, Palaeoecology* 331-332, 194-206.
38. Safonova, I.Yu., Buslov M.M., Simonov V.A., Izokh A.E., Komiya T., Kurganskaya E.V., Ohno T., 2011. Geochemistry, petrogenesis and geodynamic origin of basalts from the Katun' accretionary complex of Gorny Altai (southwestern Siberia). *Russian Geology and Geophysics* 52, 421-442.
39. Safonova, I.Yu., Sennikov N.V., Komiya T., Bychkova Y.V., Kurganskaya E.V., 2011. Geochemical diversity in oceanic basalts hosted by the Zasur'ya accretionary complex, NW Russian Altai, Central Asia: Implications from trace elements and Nd isotopes. *Journal of Asian Earth Sciences* 42, 191-207.
40. Safonova, I**.,** Seltmann, R., Kroener, A., Gladkochub, D., Schulmann, K., Xiao, W., Kim, T., Komiya, T., Sun, M., 2011. A new concept of continental construction in the Central Asian Orogenic Belt (compared to actualistic examples from the Western Pacific). *Episodes*, v. 34, no. 4, pp. 186-194.
41. Safonova, I.Yu.,Rino S., Maruyama, S., 2010. U–Pb Ages of Detrital Zircons from Recent Sediments of the Yangtze River and Stages of Continental Growth in Southeast Asia. *Doklady Earth Sci.* 431, 72-77.
42. Safonova, I.Yu., Maruyama, S., Hirata, T., Kon, Y., Rino S., 2010. LA ICP MS U-Pb ages of detrital zircons from Russia largest rivers: implications for major granitoid events in Eurasia and global episodes of supercontinent formation. *Journal of Geodynamics* 50, 134-153.
43. Buslov M.M., Safonova I.Yu., Fedoseev G.S.,Reichow M., Davies C., Babin G.A., 2010. Permo-Triassicplume magmatism of the Kuznetsk Basin, Central Asia: geology, geochronology and geochemistry. *Russian Geology and Geophysics 51, 901-916.*
44. Simonov V.A., SafonovaI. Yu., Kovyazin S.V., Kotlyarov A.V., 2010. Physico-chemical parameters of Neoproterozoic and Early Cambrian plume magmatism in the Paleo-Asian Ocean. *Russian Geology and Geophysics* 51, 429-442.
45. Simonov V.A., SafonovaI.Yu., Kovyazin S.V., Kurganskaya E.V. 2010. Physico-chemical parameters of petrogenesis pf basaltic complexes of the Katun zone. *Litosfera*, № 3, p. 111-117 (in Russian).
46. Simonov V.A., Safonova I.Yu., Kovyazin S.V., 2010. Petrogenesis of island-arc complexes of the Char zone, East Kazakhstan. *Petrology* 18,59-72.
47. Davies C., Allen M., Buslov M., Safonova I.,2010. Deposition in the Kuznetsk Basin, Siberia: insights into the Permian-Triassic transition and the Mesozoic evolution of Central Asia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 295, 307–322.
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