

## 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)**

Official Address: **Koptyuga ave. 3, Novosibirsk, 630090, Russia**

Tel. **+7-383-330-8403 (off.)**

Home address: **Shaturskaya St. 8, apt. 66, Novosibirsk, 630055, Russia**

e-mail: [inna@igm.nsc.ru](mailto:inna@igm.nsc.ru); [inna03-64@mail.ru](mailto:inna03-64@mail.ru);

url. <https://scholar.google.com/citations?user=sA8XUIkAAAAJ&hl=ru>



### **Research interests**

1. Plate Tectonics: Pacific-type orogeny; accretionary complexes; ocean plate stratigraphy; ocean opening and closure; assembly and breakup of (super)continents; 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. Geochronology: 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 Geologo-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 = 21, total citations = 2050*, 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 (IF=8.23); June2010-present
- Associate Editor of Geoscience Frontiers journal; October 2011-present
- Associate Editor of Journal of Asian Earth Sciences (IF=3.2); January 2016-present
- Visiting scientist in the Tokyo Institute of Technology (2004, 2006-2008; 2013, 2015);
- Visiting scientist in the University of Tokyo (October 2010- February 2011);
- Korea Institute of Geology and Mineral Resources (KIGAM), Brain Pool Program Researcher, August-September 2010; March 2011-January 2012;
- Scientific Associate at the Centre for Russian and Central EurAsian Mineral Studies (CERCAMS), Natural History Museum, London, 2011 – 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).

### **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.
2. 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.
3. 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://www.unesco.org/new/en/natural-sciences/environment/earth-sciences/international-geoscience-programme/igcp-projects/deep-earth/project-592/>; <http://igcp592.igm.nsc.ru/> ;
4. 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;
5. 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, "Interaction of thermochemical plumes with horizontal mantle flows and lithosphere (experimental and theoretical modeling, natural objects)"; no. 08-05-00301; 2008-2010.
2. INTAS, “Continental Rift Tectonics and Evolution of Sedimentary Basins”; 1994 – 1997.
3. INCO-COPERNICUS, “Landslides Triggered by Earthquakes in Kyrgyzstan”; PL96-3212.2; 1997-2000.
4. 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.
5. 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); 1995-2012.
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.
  4. Southern Siberia, Russia: Kuznetsk Basin; Permian-Triassic continental flood basalts; 2004-2007.
  5. Russia largest rivers: sampling zircons for defining major periods of granitoid magmatism; 2006, 2007.
  6. Southern Tianshan, Kyrgyzstan: Kokshaal accretionary complex, Devonian ophiolites and OIB; 2009.
  7. Japan: Mino, Tamba, Akiyoshi, Chichibu and Shimanto accretionary complexes, Mikabu belt; Late Permian-Cretaceous ophiolites and OIB: 2007-2017.
  8. Korea major rivers: sampling zircons at the Han, Geum and Nakdong rivers for defining major periods of granitoid magmatism and provenances changes; 2010-2011.
  9. Chinese Tianshan, Permian intraplate magmatic units with oceanic sediments; 2011.
  10. Beishan Orogen: accretionary complexes, eclogites and granulites, NW China, 2013.
  11. Inner Mongolia: Ondor-Sum subduction-accretionary complex, NE China, 2015.

### **Symposia and Workshops attended:**

- 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.  
 - 2<sup>nd</sup> 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 11<sup>th</sup> “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 10<sup>th</sup> International Symposium on Gondwana to Asia, Daejeon, Korea, October 1-4; *invited key talk*.
- 2012: – The 2012 IAGR Annual Convention and 9<sup>th</sup> 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*.

- 2009: – 6<sup>th</sup> International Symposium on Gondwana to Asia, October 2-6, Hanoi, Vietnam  
 - 4<sup>th</sup> All-Russian Symposium on Volcanology and Paleovolcanology, September 22-27, Petropavlovsk-Kamchatsky, Russia;  
 - 2<sup>nd</sup> International Symposium «Large Igneous Provinces of Asia, Mantle Plumes and Metallogeny», August 6-9, Novosibirsk;  
 - IV Russian Conference «Isotopic systems and time of geological processes», Institute of Precambrian Geology and Geochronology RAS, June 9-11, St.-Petersburg, Russia;  
 - XVI International Conference «Geochemistry of magmatic rocks», Vernadsky Institute of Geochemistry and Analytical Chemistry RAS, May 11-15, Moscow, Russia;
- 2008: - 3<sup>rd</sup> International Conference on the Geology of the Tethys, January 8-11, Aswan, Egypt;  
 - 4<sup>th</sup> International Symposium “Geodynamics of Intracontinental Orogens”, June 15-23, Bishkek.
- 2007: - All-Russian Conference "Problems of endogenic and environmental geochemistry", September 24-30, Irkutsk, Russia;  
 - 1<sup>st</sup> International Symposium «Large Igneous Provinces of Asia, Mantle Plumes and Metallogeny», August 13-16, Novosibirsk, Russia; 2 papers presented;  
 - L. Parfenov Memorial Conference "Tectonics and Metallogeny of the Circum-North Pacific and Eastern Asia", June 11-16, Khabarovsk, Russia; 2 papers presented.
- 2006: - 3<sup>rd</sup> all-Russian Symposium on Volcanology, September 5-8, Ulan-Ude, Russia; 2 papers presented.
- 2005: - Workshop on the IGCP Project 480 “Structural and Tectonic Correlation across the Central Asia Orogenic Collage”, July 25-August 5, Irkutsk, Russia.
- 2004: - XXXVII Conference "Evolution of Tectonic Processes in the Earth's History", Novosibirsk.  
 - 32<sup>nd</sup> International Geological Congress, August 18-28, Florence, Italy.  
 - 5<sup>th</sup> International Symposium on Eastern Mediterranean Geology, Thessaloniki, Greece.
- 2003: - 2<sup>nd</sup> all-Russian Symposium on Volcanology and Paleovolcanology, Institute of Geology and Geochemistry UrB RAS, September 9-12, Yekaterinburg.
- 2002: - International Symposium “Amalgamation of Precambrian blocks and the Role of the Paleozoic orogens in Asia”, September 5-9, Hokkaido University, Sapporo.

### **Teaching and lecturing**

#### *Novosibirsk State University (NSU)*

- 1998-2000 – part-time teacher in the Novosibirsk University 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 students

#### *Tokyo Institute of Technology*

- 2004 - 2007 – presented 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 – managed and 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”.

#### *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”

*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)
- worldwide network of scientific cooperation of IGCP #592 “Continental construction in Central Asia”; <http://www.unesco.org/new/en/natural-sciences/environment/earth-sciences/international-geoscience-programme/igcp-projects/deep-earth/project-592/> ).

**List of Major Publications**

(selectively among peer-reviewed papers in SCI journals; totally &gt;140 works published)

1. Safonova, I., Kotlyarov, A., Krivonogov, S., Xiao, W. Intra-oceanic arcs of the Paleo-Asian Ocean, *Gondwana Research*, <http://dx.doi.org/10.1016/j.gr.2017.04.005>.
2. 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* doi:10.1016/j.gr.2016.09.00
3. 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* doi: <http://dx.doi.org/10.1016/j.gr.2016.09.011>
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. Safonova I., Litasov, K., Maruyama, S., 2015. Triggers and sources of volatile-bearing plumes in the mantle transition zone. *Geoscience Frontier* 6, 679-685.
12. 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.
13. 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.
14. 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.
15. 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 Tianshan-Junggar region in the SW Central Asian Orogenic Belt. *Gondwana Research* 27, 1646-1666.
16. 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.
17. Safonova I., Maruyama, S., 2014. Asia: a frontier for a future supercontinent Amasia. *International Geology Review* 59, 1051-1071.
18. 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.
19. 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.
20. Safonova I., 2014. The Russian-Kazakh Altai orogen: an overview and main debatable issues. *Geoscience Frontiers* 5, 537-552.
21. Glorie, S., Buslov, M., Zhimulev F., Safonova I., 2014. Provenance of Early Paleozoic sediments at the southwestern margin of the Siberian Craton: insights from detrital zircon U–Pb geochronology. *Journal of Asian Earth Sciences* 82, 115-123.
22. 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 Geophysics 55, 69–84.
23. Gerya, T., Slabunov, A., Santosh, M., Safonova, I., 2014. Granulites and eclogites in geodynamics: Preface. *Gondwana Research* 25, 439-441.

24. Novikov I.V., Vapnik E., Safonova I.Yu., 2013. Mud volcano origin of the Mottled Zone, South Levant. *Geoscience Frontiers* 4, 597-619.
25. 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.
26. 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.
27. 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. *Quaternary International* 290-291, 95-109.
28. 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.
29. Krivonogov S.K., Takahara H., Yamamuro M., Preis Yu.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.
30. 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.
31. Krivonogov S.K., Yi, S., Kashiwaya, K., Kim, J.C., Narantsetseg, T., Oyunchimeg, T., Safonova I.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.
32. 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.
33. 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.
34. Safonova, I.Yu., Sennikov N.V., Komiya T., Bychkova Y.V., Kurganskaya E.V., 2011. Geochemical diversity in oceanic basalts hosted by the Zashur'ya accretionary complex, NW Russian Altai, Central Asia: Implications from trace elements and Nd isotopes. *Journal of Asian Earth Sciences* 42, 191-207.
35. 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.
36. 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.
37. 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.
38. Buslov M.M., Safonova I.Yu., Fedoseev G.S., Reichow M., Davies C., Babin G.A., 2010. Permo-Triassic plume magmatism of the Kuznetsk Basin, Central Asia: geology, geochronology and geochemistry. *Russian Geology and Geophysics* 51, 901-916.
39. Simonov V.A., Safonova I. 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.
40. Simonov V.A., Safonova I. Yu., Kovyazin S.V., Kurganskaya E.V. 2010. Physico-chemical parameters of petrogenesis of basaltic complexes of the Katun zone. *Litosfera*, № 3, p. 111-117 (in Russian).
41. 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.
42. 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.
43. Safonova, I.Yu., A. Utsunomiya, S. Kojima, S. Nakae, O. Tomurtogoo, A.N. Filippov, K. Koizumi, 2009. Pacific superplume-related oceanic basalts hosted by accretionary complexes of Central Asia, Russian Far East and Japan, *Gondwana Research* 16, 587-608.
44. Safonova, I.Y., 2009. Intraplate magmatism and oceanic plate stratigraphy of the Paleo-Asian and Paleo-Pacific Oceans from 600 to 140 Ma, *Ore Geology Reviews* 35, 137-154.

45. Utsunomiya A., Jahn Bor-ming, Ota T., Safonova, I.Yu., 2009. A geochemical and Sr-Nd isotopic study of the Vendian greenstones from Gorny Altai, southern Siberia: Implications for the tectonic setting of the formation of greenstones and the role of oceanic plateaus in accretionary orogen. *Lithos* 113, 437-453.
46. Reichow M.K., M.S. Pringle, A.I. Al'Mukhamedov, M.B. Allen, V.L. Andreichev, M.M. Buslov, C.E. Davies, G.S. Fedoseev, J.G. Fitton, S. Inger, A.Ya. Medvedev, C. Mitchell, V.N. Puchkov, I.Yu. Safonova, R.A. Scott, A.D. Saunders, 2009. The timing and extent of the eruption of the Siberian Traps large igneous province: Implications for the end-Permian environmental crisis, *Earth and Planetary Science Letters* 277, 9-20.
47. Le Heron D.P., Buslov M.M., Davies C., Richards K., Safonova I.Yu., 2008. Evolution of Mesozoic fluvial systems along the SE flank of the West Siberian Basin, Russia. *Sedimentary Geology*, 208, 45-60.
48. Safonova, I.Yu., 2008. Geochemical evolution of the intraplate oceanic magmatism of the Paleo-Asian Ocean from the Late Neoproterozoic to the Early Cambrian. *Petrology* 16, 492-511.
49. Safonova, I.Yu., Simonov, V.A., Buslov, M.M., Ota, T., Maruyama, Sh., 2008. Neoproterozoic basalts of the Paleo-Asian Ocean (Kurai accretion zone, Gorny Altai, Russia): geochemistry, petrogenesis, geodynamics. *Russian Geology and Geophysics* 49, 254-271.
50. Dobretsov N.L., Buslov M.M., Rubatto D., Safonova I.Yu., 2006. Shalkar Ophiolite Complex, Northern Kazakhstan: Structural Setting, Age, Geochemistry, and Genesis. *Russian Geology and Geophysics* 47, 471-481.
51. Buslov M.M., Watanabe T., Fujiwara Y., Iwata K., Smirnova L.V., Saphonova I.Yu., Semakov N.N., 2004. Late Paleozoic faults of the Altai region, Central Asia: tectonic pattern and model of formation. *Journal of Asian Earth Sciences*, v. 23, p. 655-671.
52. Dobretsov, N.L., Buslov, M.M., Safonova, I.Yu., Kokh, D.A., 2004. Fragments of oceanic islands in the Kurai and Katun' accretionary wedges of Gorny Altai. *Russian Geology and Geophysics* 45, 1325-1348.
53. Safonova I.Yu., Buslov M.M., Kokh D.A., 2004. Fragments of oceanic crust of the Paleo-Asian Ocean in Gorny Altai and East Kazakhstan: geochemistry and structural setting. *Litosfera* № 3, 84-96 (in Russian).
54. Safonova I.Yu., M.M. Buslov, K. Iwata, D.A. Kokh, 2004. Fragments of Vendian-Early Carboniferous oceanic crust of the Paleo-Asian Ocean in foldbelts of the Altai-Sayan region of Central Asia: geochemistry, biostratigraphy and structural setting. *Gondwana Research* 7, 771-790.
55. Buslov M. M., Watanabe T., Safonova I.Yu., Iwata K., Travin A., 2002. A Vendian-Cambrian island arc system of the Siberian continent in Gorny Altai (Russia, Central Asia). *Gondwana Res.* 5, 781-800.
56. Buslov, M.M., Safonova, I.Yu., Watanabe, T., Obut, O.T., Fujiwara, Y., Iwata, K., Semakov, N. N., Sugai, Y., Smirnova, L.V., Kazansky, A.Yu., Itaya, T., 2001. Evolution of the Paleo-Asian Ocean (Altai-Sayan Region, Central Asia) and collision of possible Gondwana-derived terranes with the southern marginal part of the Siberian continent. *Geoscience Journal* 5, 203-224.
57. Buslov, M.M., Fujiwara, Y., Safonova, I.Yu., Okada, Sh., Semakov, N.N., 2000. The junction zone of the Gorny Altai and Rudny Altai terranes: structure and evolution. *Russian Geology and Geophysics* 41, 377-390.
58. Buslov, M.M., Safonova, I.Yu., Bobrov, V.A., 1999. An exotic terrane of the Late Cambrian-Early Ordovician oceanic crust in the northwestern Gorny Altai (Zasurin Formation): structural position and geochemistry. *Doklady Earth Sciences* 368, 650-654.
59. Buslov, M.M., Safonova, I.Yu., Bobrov, V.A., 1998. New geochemical data on boninites from Kurai ophiolites, Gorny Altai. *Doklady Earth Sciences* 361, 244-247.