

Present position:

Professor
Eurasia Institute of Earth Sciences
Istanbul Technical University
Email: iartemieva@gmail.com

**Education:**

2007 Habilitation (dr. scient.), University of Copenhagen, Denmark
1987 PhD in Geophysics; Inst. Physics of the Earth, Moscow, USSR
1984 BS & MS in Physics, Physics Department, M.V. Lomonosov Moscow State University, Moscow

Employment:

2005- Professor of Geophysics, IGG/IGN, University of Copenhagen, Denmark
2003-2004 Senior Researcher, U.S. Geological Survey, Menlo Park, CA, USA;
2002 Ass. Research Professor, EOST, l'Universite Strasbourg, France;
1999-2001 Associate Research Professor, Uppsala University, Sweden;
1997-1999 Leading Research Scientist, Inst. of Physics of the Earth (IPE), Russian Academy of Sciences, Moscow;
1987-1997 Junior, then Senior Research Scientist, IPE, USSR Academy of Sciences, Moscow

Professional long-term visits:

1995-2002 Visiting researcher, U.S. Geological Survey, Menlo Park, CA, USA (3-4 months each year, over 8 years the total exceeds 3 years);
1998 Visiting researcher, Institut de Physique du Globe, Paris, France;
1998 Visiting researcher, University of Quebec at Montreal, Canada;
1993 Visiting researcher, Technical University, Clausthal-Zellerfeld, Germany;

Honors and Professional recognitions:

2016 AcademiaNet of Outstanding Female Academics
2014 Academician, Royal Danish Academy of Science and Letters
2013 Life-Time Member, European Geosciences Union
2012 Fellow, Geological Society of America
2007 Academician, European Academy of Sciences "Academia Europaea"
2000 Fellow, Royal Astronomical Society, London

International professional advisory boards and councils:

2017- Arthur Holmes Medal Committee Member, European Geosciences Union
2016- President, Danish National Committee for Lithosphere Research
2013-2017 Council member, European Geosciences Union (ca. 15,000 participants)
2013-2017 Programme Committee, European Geosciences Union
2013-2017 President Geodynamics, European Geosciences Union
2008- EU "European Plate Observing System" (EPOS), Danish co-representative
1999-2001 Science Coordinator, European Science Foundation program EUROPROBE

International professional panels of national funding agencies:

2013-2015 l'Institut Universitaire de France (IUF), France, Assessment committee;
2014 l'Institut Universitaire de France (IUF), France, Chairperson, Humanities and Sciences Assessment Committees for Young (<45 y.) Professors;
2012-2015 Portuguese National Foundation for Science and Technology (FCT), Portugal, Panel member in Geosciences
2006-2011 Swedish National Research Council (VR), Sweden, Vice-chairperson (2007-2009), Panel member in Geosciences
2002-2003 Irish National Basic Research Council, Ireland, Panel member in Earth Sciences

International professional evaluations:

Current The Crafoord Prize (the Nobel Prize equivalent in geosciences), Royal Swedish Academy of Sciences
Since 2013 Deutsche Forschungsgemeinschaft (DFG), Germany, evaluator in Geophysics
2012 The Knut and Alice Wallenberg Foundation, Sweden, external evaluator

- Since 2011 Russian Ministry of Science, Mega-grants, evaluator in Geophysics
 Since 2010 Japan Prize, official nominator
 Since 2010 Natural Sciences and Engineering Research Council of Canada (NSERC), external evaluator
 Since 2009 Russian Foundation for Basic Research (RFFI), evaluator in Geophysics
 Since 2008 NSF (USA) and EarthScope (USA), external evaluator in Geophysics and Continental Dynamics
 2005-2006 INTAS International Program Research Grant Assessment, evaluator in Geophysics

Professor Assessment committees (since 2009):

- USA, Rutgers Univ., Assessment of Full Professor in Geophysics
 Canada Research Chairs Program, Assessment of Full and Associate Professor Chairs in Geophysics
 Swedish National Research Council, Selection for Professor Position in Geophysics

Editorial activities:

- 2016- Editor-in-Chief, *Journal of Geodynamics (Elsevier)*
 2016- Editorial Advisory Committee, *Journal of Indian Geophysical Union*
 2014- Associate editor, *Nature Scientific Reports (Nature Publishing Group)*
 2014- Associate editor, *J. Geophysical Research (RAS)*
 2010- Associate editor, *Solid Earth (European Geosciences Union)*
 2006- Associate editor, *Tectonophysics (Elsevier)*
 1999-2009 Associate editor, *Journal of Geodynamics (Elsevier)*
 Guest editor of 4 special issues of *Tectonophysics* (2002, 2011, 2013, 2014)
 Reviewer for ca. 15 leading international peer-reviewed journals including *Nature Geosciences*.

Professional activities (organizational):

- 2006-2008 Science program coordinator in Solid Earth Geophysics, 33 Intern. Geological Congress, Oslo.
 1999-2001 Organizer and Science program coordinator of ca. 20 ESF-ILP EUROPROBE workshops (each with 80-250 participants) and scientific steering meetings;
 1994-present Convener and co-convener of ca. 50 symposia at the leading international conferences, including EGU, EGS, GSA, AGU, IGC, IASPEI, etc.

EXTERNAL FUNDING:

- 2016-2017 Co-PI, Nordic-Russian Cooperation Programme in Education and Research NCM-RU-2016/10057 "IAS-Integrated Arctic Studies Network", 35.2 K Euro
 2014-2016 PI, PhD study grants, University of Copenhagen (1.6 mln. dkk)
 2014-2017 PI, 4-year research grant, Danish Research Council, Denmark (~8.6 mln. dkk); success rate 10%
 2011-2013 PI, 3-year research grant, Danish Research Council, Denmark (~6.2 mln. kr.); success rate 10%
 2010-2011 PI, personal 2-year research Freia grant, University of Copenhagen (~1.9 mln. kr.) (1 of 6 funded);
 2007-2009 PI, personal 3-year research grant, Carlsbergfondet, Denmark (~1.7 mln. kr.); success <10%
 2005-2006 PI, personal 2-year research grant, Carlsbergfondet, Denmark (~1.1 mln. kr.); success <10%
 Since 1997 PI, several personal large-scale research grants from the world-leading companies in the diamond-exploration industry

Participation in international research programs:

- 2016-2017 Nordic-Russian Cooperation Programme in Education and Research
 2015-2020 UNESCO IGCP-648 "Supercontinent Cycles and Global Geodynamics"
 2014- International Continental Drilling Programme (ICDP), "A Bushveld Scientific Drilling Project" (South Africa) Working Group
 2012- Scan-Array seismic network of the Nordic Countries, UK and Germany
 2012- NSF (USA)-CIDER Programme "Collaborative Institute for Deep Earth Research"
 2008- European Plate Observing System (EPOS), Danish co-representative, <http://www.epos-eu.org/>
 2008-2010 NSF (USA)-Margins Programme "Evolution of continental margins", <http://www.nsf-margins.org/>
 2011- NSF (USA) -GeoPRISMS Programme "Geodynamic Processes at Rifting and Subducting Margins", www.geoprisms.org
 2009-2014 ESF-EuroCORES programme "Topo-Scandes"

Invited lectures:

ca. 40 at international symposia, including 4 invited talks at AGU (2014-2016), GSA, EGU, IGC
ca. 40 in the leading research centers in China, USA, Canada, Germany, Sweden, Switzerland, Austria, Russia, Japan

Supervision since 2011:

Ca. 25 BS theses and projects, 14 MS theses (7 on-going), 10 PhD students (5 on-going), 7 postdocs, 2 adjunkts

Teaching since 2011:

Developed and teach several new courses in geophysics in University of Copenhagen, including:

- “Lithosphere structure from geophysical data” (MS level);
- “Solid Earth geophysics” (MS level);
- “Unresolved problems in Solid Earth geophysics” (MS level);
- “Global tectonics” (BS level);
- “Introduction to Solid Earth geophysics” (BS level)

Co-organized 7 International PhD Elite courses in Geophysics with the world-leading invited lecturers.

10 selected publications:

1. **Artemieva I.M., 2011.** The lithosphere: An interdisciplinary approach. Cambridge University Press Monograph, **794 pp.**, ISBN 9780521843966.
2. Xia B., Thybo H., **Artemieva I.M.**, 2017. Seismic crustal structure of the North China Craton and surrounding area: synthesis and analysis. *J. Geophys. Res.*, DOI: 10.1002/2016JB013848.
3. **Artemieva I.M.**, Vinnik L.P., 2016. Density structure of the cratonic mantle in southern Africa: 2. Correlations with kimberlite distribution, seismic velocities and Moho sharpness. *Gondw. Res.*, 36, 14-27.
4. **Artemieva I.M.** and Shulgin A., 2015. Is the Proterozoic Ladoga Rift (SE Baltic Shield) a rift? *Precambrian Research*, 259, 34-42.
5. **Artemieva I.M.** and Thybo H., 2013. EUNaseis: a seismic model for Moho and crustal structure in Europe, Greenland, and the North Atlantic region. *Tectonophysics*, 609, 97-153 (>50 citations)
6. Thybo H. and **Artemieva I.M.**, 2013. Moho and magmatic underplating in continental lithosphere. *Tectonophysics*, 609, 605-619 (>100 citations)
7. **Artemieva I.M.**, 2009. The continental lithosphere: Reconciling thermal, seismic, and petrologic data. *Lithos*, 109, 23-46 (~ 170 citations)
8. **Artemieva I.M.**, 2006. Global 1°x1° thermal model TC1 for the continental lithosphere: implications for lithosphere secular evolution. *Tectonophysics*, 416, 245-277. (~ 300 citations)
9. **Artemieva I.M.**, Thybo H., and Kaban M.K., 2006. Deep Europe today: Geophysical synthesis of the upper mantle structure and lithospheric processes. In: D. Gee and R. Stephenson (Eds.), European Lithosphere Dynamics. *Geol. Soc. London. Mem.* v. 32, 11-41 (~120 citations)
10. **Artemieva I.M.** and Mooney W.D., 2001. Thermal structure and evolution of Precambrian lithosphere: A global study. *J. Geophys. Res.*, 106, 16387-16414 (~ 650 citations)

Publications metrics:

H-index since 2000 (GS) - 22

h10-index since 2012 (GS) - 26

Number of citations since 2000 (GS) - > 2,500

Average citation per item (WoS) – 40;

Several first-authored articles are among top-cited in geophysics;

Scientific Peer-Reviewed Articles - ca. 60 since 2001, including book chapters and encyclopedia articles;

Most publications are first-authored

Scientific Research Monograph – 2, including 1 with Cambridge University Press (2011, 794 pp)

Scientific Edited volumes and books with Elsevier - 4 (2002, 2010, 2013, 2014)

June 2017

SELECTED PUBLICATIONS of Irina M. ARTEMIEVA since 2001

Scientific research monographs

1. Artemieva I.M., 2011. The lithosphere: An interdisciplinary approach. **Cambridge University Press Monograph**, 794 pp., ISBN 9780521843966.
2. Artemieva I.M., 2007. Structure and evolution of the continental lithosphere. *Univ. Copenhagen, Denmark*. ISBN 87-87945-77-0, 81 pp.

Scientific research edited books:

3. Thybo H., Artemieva I.M., Kennett B., (Eds.), 2013. Moho: 100 years after Andrija Mohorovičić. *Elsevier*. 734 pp.

Edited special volumes:

4. Santosh M., Carbonell R., Artemieva I., Badal J. (Eds.), 2014. Advances in seismic imaging of crust and mantle. *Tectonophysics*, 627, 220 pp.
5. Pasyanos M. and Artemieva I.M. (Eds), 2010. Insights into the Earth's Deep Lithosphere. *Tectonophysics*, 481(1-4), 126 pp.
6. Artemieva I.M., Mooney W.D., Thybo H., and Perchuc E. (Eds), 2002. Structure of the continental lithosphere and upper mantle. *Tectonophysics*, 358 (1-4), 266 pp.

Peer-reviewed papers in international journals

* supervised PhD students/postdocs

[GS] = Google Scholar; citations as of 24/11/2017

2017

7. Artemieva I.M., Thybo H., Jakobsen* K., Sørensen* N.K., Nielsen* L.S.K., 2017. Heat production in granitic rocks: Global analysis based on a new data compilation GRANITE2017. *Earth Science Reviews*, 172, 1-26, DOI: 10.1016/j.earscirev.2017.07.003
8. Yang* H., Chemia Z., Artemieva I.M., Thybo H., 2017. Control on off-rift magmatism - A case study of Baikal Rift System. *Earth Planet. Sci. Lett.*, in press. [0]
9. Xia* B., Thybo H., Artemieva I.M., 2017. Seismic crustal structure of the North China Craton and surrounding area: synthesis and analysis. *J. Geophys. Res.*, DOI: 10.1002/2016JB013848. [0]

2016

10. Artemieva I.M., Vinnik L.P., 2016. Density structure of the cratonic mantle in southern Africa: 1. Implications for dynamic topography. *Gondwana Res.*, 39, 204-216, doi:/10.1016/j.gr.2016.03.002 [6]
11. Artemieva I.M., Vinnik L.P., 2016. Density structure of the cratonic mantle in southern Africa: 2. Correlations with kimberlite distribution, seismic velocities and Moho sharpness. *Gondwana Res.*, 36, 14-27, doi: 10.1016/j.gr.2016.05.002 [1]
12. Petrov O., A. Morozov, S. Shokalsky, S. Kashubin, I. M. Artemieva**, N. Sobolev, E. Petrov, R.E. Ernst, S. Sergeev, M. Smelror, 2016. Crustal structure and tectonic model of the Arctic region. *Earth Science Reviews*, 154, 29-71, <http://dx.doi.org/10.1016/j.earscirev.2015.11.013>. ** corresponding author [18]
13. Hecceg* M., Artemieva I.M., Thybo H., 2016. Sensitivity analysis of crustal correction for calculation of lithospheric mantle density from gravity data. *Geophys. J. Int.*, 204, 738-747, doi: 10.1093/gji/ggv431 [6]
14. Starostenko, V.I., Janik T., Stephenson R., Gryn D., Rusakov O., Czuba W., Sroda P., Grad M., Guterch A., Flueh E., Thybo H., Artemieva I.M., and 8 authors more, 2016. DOBRE-2 WARR profile: the Earth's upper crust across Crimea between the Azov Massif and the northeastern Black Sea. *Geol. Soc. London*, 428, <http://doi.org/10.1144/SP428.11> [5]
15. Kashubin S., Petrov O., I. M. Artemieva, A. Morozov, Vyatkina D.V., Golysheva Yu.S., Kashubina T.B., Milstein E.D., Erinchek Yu.M., Sakulina T.S., Krupnova N.A., 2016. Deep structure of the crust and upper mantle of the Mendeleev Rise along the DSS profile Arctics-2012. *Regional Geology and Metallogeny*, 65, 16-36, UDK 551.14/15:550.834.32(268).
16. Artemieva I.M., Thybo H., Shulgin A., 2016. Geophysical constraints on geodynamical processes at convergent margins: a global perspective. *Gondwana Research*, 33, 4-23, doi: 10.1016/j.gr.2015.06.010 [1]

- 2015
17. **Artemieva I.M.** and Shulgin A., 2015. Is the Proterozoic Ladoga Rift (SE Baltic Shield) a rift? *Precambrian Research*, 259, 34-42, doi:10.1016/j.precamres.2014.08.011 [7]
18. Youssof* M., Thybo H., Levander A., and **Artemieva I.M.**, 2015. Upper mantle structure beneath southern African cratons from seismic finite-frequency P- and S- body wave tomography. *Earth Planet. Sci. Lett.*, 420, 174-186. [6]
19. Foulger G.R., Panza G.F., **Artemieva I.M.**, Bastow I.D., Cammarano F., Doglioni C., Evans J.R., Hamilton W.B., Julian B.R., Lustrino M., Thybo H., Yanovskaya T.B., 2015. Teleseismic tomography: The challenges ahead. *EOS*, 96(17), 10-15; doi:10.1029/2015EO034319. [4]
20. Starostenko, V.I., Janik T., Yegorova T., Farfuliak L., Czuba W., Sroda P., Thybo H., **Artemieva I.M.**, and 11 authors more, 2015. Seismic model of the crust and upper mantle in the Scythian platform: the DOBRE-5 profile across the Northwestern Black sea and the Crimean peninsula. *Geophys. J. Int.*, 201, 406-428. [17]
21. Cherepanova* Y. and **Artemieva I.M.**, 2015. Density heterogeneity of cratonic lithospheric mantle: A case study of the Siberian craton. *Gondwana Research*, 28, 1344-1360, doi: 10.1016/j.gr.2014.10.002. [13]
- 2014
22. Santosh M., R. Carbonell, I. **Artemieva** and J. Badal, 2014. Advances in seismic imaging of crust and mantle: Preface. *Tectonophysics*, 627, 1-3, doi:10.1016/j.tecto.2014.06.001 [1]
- 2013
23. **Artemieva I.M.** and Thybo H., 2013. EUNaseis: a seismic model for Moho and crustal structure in Europe, Greenland, and the North Atlantic region. *Tectonophysics*, 609, 97-153, http://dx.doi.org/10.1016/j.tecto.2013.08.004 [54]
24. Thybo H., **Artemieva I.M.**, Kennett B., 2013. Moho: 100 years after Andrija Mohorovičić. Preface. *Tectonophysics*, 609, 1-8, http://dx.doi.org/10.1016/j.tecto.2013.10.04 [5]
25. Youssof* M., Thybo H., **Artemieva I.M.**, Levander A., 2013. Moho depth and crustal composition in southern Africa. *Tectonophysics*, 609, 267-287, http://dx.doi.org/10.1016/j.tecto.2013.09.001 [28]
26. Starostenko V., T. Janik, K. Kolomiyets, W. Czuba, P. Środa, M. Grad, I. Kovács, R. Stephenson, D. Lysynchuk, H. Thybo, **Artemieva I.M.**, V. Omelchenko, O. Gintov, R. Kutas, D. Gryn, A. Guterch, E. Hegedűs, K. Komminaho, O. Legostaeva, T. Tiira, A. Tolkunov, 2013. Seismic velocity model of the crust and upper mantle along profile PANCAKE across the Carpathians between the Pannonian Basin and the East European Craton. *Tectonophysics*, 608, 1049-1072, http://dx.doi.org/10.1016/j.tecto.2013.07.008. [31]
27. Cherepanova* Yu., **Artemieva I.M.**, Thybo H., Chemia* Z., 2013. Crustal structure of the Siberian Craton and the West Siberian Basin: An appraisal of existing seismic data. *Tectonophysics*, 609, 154-183, http://dx.doi.org/10.1016/j.tecto.2013.05.004 [31]
28. Thybo H. and **Artemieva I.M.**, 2013. Moho and magmatic underplating in continental lithosphere. *Tectonophysics*, 609, 605-619, http://dx.doi.org/10.1016/j.tecto.2013.05.032 [103]
29. Prodehl C., Kennett B., **Artemieva I.**, Thybo H., 2013. 100 years of research on the Moho. *Tectonophysics*, 609, 9-44, http://dx.doi.org/10.1016/j.tecto.2013.05.036 [19]
30. Maupin V., Agostini A., **Artemieva I.**, Balling N., Beekman F., Ebbing J., England R.W., Frassetto* A., Gradmann S., Jacobsen B. H., Köhler A., Kvarven T., Medhus A.B., Mjelde R., Ritter J., Sokoutis D., Stratford W., Thybo H., Wawerzinek B. and Weidle C., 2013. The deep structure of the Scandes and possible relations to its tectonic history and present topography. *Tectonophysics*, 602, 15-37, http://dx.doi.org/10.1016/j.tecto.2013.03.010 (23 journal pages). [19]
31. Foulger G.R., Panza G.F., **Artemieva I.M.**, Bastow I.D., Cammarano F., Evans J.R., Hamilton W.B., Julian B.R., Lustrino M., Thybo H., Yanovskaya T.B., 2013. Caveats on tomographic images. *Terra Nova*, 25(4), 259-281, DOI: 10.1111/ter.12041 (22 journal pages & el. suppl.) [56]
- 2012
32. **Artemieva I.M.** and Meissner R., 2012. Crustal thickness controlled by plate tectonics: a review of crust-mantle interaction processes illustrated by European examples. *Tectonophysics*, v. 530-531, 18-49, doi 10.1016/j.tecto.2011.12.037. (22 pp.) [34]
- 2011
- Major publication of 2011 –800 pp. research monograph with Cambridge Univ. Press (see #1).
- 2010
33. Elesin* Y., T. Gerya, **I.M. Artemieva**, H. Thybo, 2010. Samovar: a thermo-mechanical code for modeling of geodynamic processes in the lithosphere – application to basin evolution. In: F. Roure (Editor), ILP Special Issue on Sedimentary basins. *Arabian J. Geosciences*, 3(4), 477-497; doi: 10.1007/s12517-010-0215-1 [2]
- 2009
34. **Artemieva I.M.**, 2009. The continental lithosphere: Reconciling thermal, seismic, and petrologic data. *Lithos*, 109, 23-46, doi /10.1016/j.lithos.2008.09.015. [166]
- 2008
35. Anell*, I., Thybo, H., and **Artemieva, I.M.**, 2009. Cenozoic uplift and subsidence in the North Atlantic region: Geological evidence revisited. *Tectonophysics*, 474, 78-105, doi:10.1016/j.tecto.2009.04.006. [73]
36. **Artemieva I.M.** and Thybo H., 2008. Deep Norden: Highlights of the lithospheric structure of Northern Europe, Iceland, and Greenland. *Episodes*, 31, 98-106. [37]

- 2007 37. **Artemieva I.M.**, 2007. Dynamic topography of the East European Craton: Shedding light upon the lithospheric structure, composition and mantle dynamics. *Global Planet. Change*, 58, 411-434, doi 10.1016/j.gloplacha.2007.02.013. [53]
38. Cloetingh S., Ziegler P., Bodaard P., Andriessen P., **Artemieva I.**, 27 more authors, and Topo-Europe Working Group, 2007. Topo-Europe – the geoscience of coupled deep Earth – surface processes. *Global Planet. Change*, 58, 1-118, doi 10.1016/j.gloplacha.2007.02.008. (118 pages). [100]
- 2006 39. **Artemieva I.M.**, 2006. Global 1°x1° thermal model TC1 for the continental lithosphere: implications for lithosphere secular evolution. *Tectonophys.*, 416, 245-277, DOI: 10.1016/j.tecto.2005.11.022. [289]
40. **Artemieva I.M.**, Thybo H., and Kaban M.K., 2006. Deep Europe today: Geophysical synthesis of the upper mantle structure and lithospheric processes. In: D. Gee and R. Stephenson (Eds.), European Lithosphere Dynamics. *Geol. Soc. London. Mem.* v. 32, 11-41 [115]
My relocation from USA to Denmark caused a 1-year publication gap
- 2005 41. **Artemieva I.M.**, Billien M., Leveque J.-J., and Mooney W.D., 2004. Shear-wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. *Geophys. J. Int.*, 157, 607-628, DOI: 10.1111/j.1365-246X.2004.02195.x. [55]
- 2004 42. **Artemieva I.M.**, 2003. Lithospheric structure, composition, and thermal regime of the East European craton: Implications for the subsidence of the Russian Platform. *Earth Planet. Sci. Lett.*, 213, 429-444, DOI: 10.1016/S0012-821X(03)00327-3. [72]
- 2003 43. Kaban M.K., Schwintzer P., **Artemieva I.M.**, and Mooney W.D., 2003. Density of continental roots: compositional and thermal effects. *Earth Planet. Sci. Lett.*, 209, 53-69. [137]
- 2002 44. **Artemieva I.M.** and Mooney W.D., 2002. On the relation between cratonic lithosphere thickness, plate motions, and basal drag. *Tectonophysics*, 358, 211-231, DOI: 10.1016/S0040-1951(02)00425-0. [76]
45. **Artemieva I.M.**, Mooney W.D., Perchuc E., and Thybo H., 2002. Processes of lithosphere evolution: New evidence on the structure of the continental crust and upper mantle. *Tectonophysics*, 358, 1-15, DOI: 10.1016/S0040-1951(02)00530-9. [21]
46. Meissner R., Mooney W.D., and **Artemieva I.M.**, 2002. Seismic anisotropy and mantle creep in young orogens. *Geophys. J. Int.*, 149, 1-14, DOI: 10.1046/j.1365-246X.2002.01628.x. [60]
- 2001 47. **Artemieva I.M.** and Mooney W.D., 2001. Thermal structure and evolution of Precambrian lithosphere: A global study. *J. Geophys. Res.*, 106, 16387-16414, DOI: 10.1029/2000JB900439 (28 pages). [639]

Peer-reviewed chapters in research monographs, book series, encyclopedias:

48. Elesin* Y., T. Gerya, **I.M. Artemieva**, H. Thybo, 2013. Samovar: a thermo-mechanical code for modeling of geodynamic processes in the lithosphere – application to basin evolution. In: K.A. Hosani, F. Roure, R. Ellison, S. Lokier (Eds.), *Lithosphere Dynamics and Sedimentary Basins: The Arabian Plate and Analogues*, Frontiers in Earth Sciences, Springer-Verlag, Berlin, Heidelberg, 441-462.
49. **Artemieva I.M.**, 2012. A lithospheric perspective on structure and evolution of Precambrian cratons. In: D.G. Roberts and A.W. Bally (Eds.), *Regional Geology and Tectonics: Principles of Geologic Analysis*. Vol. A, 95-111, Elsevier, ISBN 13:978-0-444-53042-4.
50. **Artemieva, I. M.**, 2011. Evolution of the cratonic lithosphere inferred from lithospheric mantle heterogeneity: a geophysical perspective. *Mineral Mag.*, 75 (3), 455.
51. **Artemieva I.M.**, 2006. Evolution of the thermal regime of the continental mantle during plume-lithosphere interaction: a comparative study constrained by petrologic data. In: M. Wilson and U. Achauer (Eds.), Proc. Plume Symp., *European Sci. Foundation*, Strasbourg, France, pp. 6-12.
52. Mooney W.D., **Artemieva I.M.**, Detweiler S.T., Billien M., and Leveque J.-J., 2003. Supplementing ground truth data with shear-wave velocity, seismic attenuation and thermal structure of the continental lithosphere. In: *Seismic Research Review "Nuclear explosion monitoring: Building the knowledge base"*, NNSA (National Nuclear Security Administration (USA)), 25, 83-97.
53. **Artemieva I.M.**, 2002. Continental Crust. In: *Encyclopedia of Life Support Systems (EOLSS)*, Developed under the Auspices of the UNESCO, EOLSS Publishers, Oxford, UK [http://www.eolss.net]. Chapter 6.16.3.1. (24 pages).
54. **Artemieva I.M.**, 2001. In situ transport and seismic properties of reservoir and hot dry rock. In: J.A. Hood (Ed.), *Advances in Anisotropy: Selected Theory, Modeling, and Case Studies*, SEG, Houston, TX, 215-238.
55. Mooney W.D., Coleman R.G., Reddy P.R., **Artemieva I.M.**, Billien M., Lévêque J.-J., and Detweiler S.T., 2001. A review of new seismic constraints of crust and mantle structure from China and India coupled with seismic Qs and temperature estimates for the upper mantle. In: *Seismic Research Review "Worldwide monitoring of nuclear explosions"*, NNSA (National Nuclear Security Administration (USA)), v. 23, 90-99.

Popular Science / public profile publications:

- Artemieva I.M.**, 2015. Lithosphere dynamics and human society. HORIZON 2020 PROJECTS: PORTAL, Issue 8, 190-191.