

Prof. Irakli Simonia

The list of publications 2015

1.Nano-metric Dust Particles as a Hardly Detectable Component of the Interplanetary Dust Cloud. Simonia, I.; Nabiyev, Sh. *Journal of Astrophysics and Astronomy*,36, 2015, 409-419.

DOI: 10.1007/s12036-015-9347-8

2.Laboratory Studies Towards Understanding Comets

Gudipati, Murthy S.; Abou Mrad, Ninette; Blum, Jürgen; Charnley, Steven B.; Chiavassa, Thierry; Cordiner, Martin A.; Mousis, Olivier; Danger, Grégoire; Duvernay, Fabrice; Gundlach, Bastian; Hartogh, Paul; Marboeuf, Ulysse; **Simonia, Irakli**; Simonia, Tsitsino; Theulé, Patrice; Yang, Rui
Space Science Reviews, 2015.

DOI: 10.1007/s11214-015-0192-5

3.Historical Astronomy of the Caucasus: Sources from Georgia and Armenia.

Sauter, Jefferson; **Simonia, Irakli**; Stephenson, F. Richard; Orchiston, Wayne

New Insights From Recent Studies in Historical Astronomy: Following in the Footsteps of F. Richard Stephenson, **Astrophysics and Space Science Proceedings**, Volume 43. ISBN 978-3-319-07613-3. Springer International Publishing Switzerland, 2015, p. 103.

DOI: 10.1007/978-3-319-07614-0_8

4.The Legendary Fourth-Century Total Solar Eclipse in Georgia: Fact or Fantasy?

Sauter, Jefferson; **Simonia, Irakli**; Stephenson, F. Richard; Orchiston, Wayne

New Insights From Recent Studies in Historical Astronomy: Following in the Footsteps of F. Richard Stephenson, **Astrophysics and Space Science Proceedings**, Volume 43. ISBN 978-3-319-07613-3. Springer International Publishing Switzerland, 2015, p. 25

DOI: 10.1007/978-3-319-07614-0_3

5.Observational and Cult Sites in Pre-Christian Georgia.

Simonia, Irakli; Jijelava, Badri; Gigauri, G.; Houston, Gordon

Handbook of Archaeoastronomy and Ethnoastronomy, ISBN 978-1-4614-6140-1. Springer Science+Business Media New York, 2015, p. 1461

DOI: 10.1007/978-1-4614-6141-8_139

6.Astronomy in the Ancient Caucasus. Simonia, Irakli; Jijelava, Badri

Handbook of Archaeoastronomy and Ethnoastronomy, ISBN 978-1-4614-6140-1. Springer Science+Business Media New York, 2015, p. 1443

DOI: 10.1007/978-1-4614-6141-8_138

7. DVD Database: Astronomical Manuscripts in Georgia. Irakli Simonia; Tamar Abuladze; Nestan Chkhikvadze; Liana Samkurashvili; Tsitsino Simonia; Ketevan Pataridze; George Meladze.

Ilia State University Press, 2015. ISBN 978-9941-18225-9

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The List of Publications 2016.

- 1.Jijelava1, Badri; Holbrook, Jarita; Simonia, Irakli Astronomical Context of Georgian Folklore. Indian Journal of Science and Technology,9 (37), 2016.
- 2.Nabiyev, Shaig; Simonia, Irakli.The statistical analysis of the color—orbit parameters and color—inclination distributions of TNOs. Astrophysics and Space Science, 361 (10), article id.323, 11 pp. 2016.
- 3.Simonia, I. Possible Thermoluminescence of the Solid Cometary Substance: Thermoluminescence of Commentary Substance. The Astronomical Journal, 152 (4), article id. 87, 8 pp., 2016.
- 4.Jijelava, B., Simonia, I. Megalithic Monument of Abuli, Georgia, and Possible Astronomical Significance. Indian Journal of Science and Technology, 9 (31), 2016.
- 5.Simonia, I.;Simonia, Ts.; Abuladze, T.; Chkhikvadze, N.; Samkurashvili, L.; Pataridze, K. DVD Database Astronomical Manuscripts in Georgia. Astronomical Surveys and Big Data: Proceedings of an International Symposium dedicated to the 50th anniversary of the Markarian Survey and the 10th anniversary of the Armenian Virtual Observatory held at Byurakan Astrophysical Observatory, Byurakan, Armenia on 5-8 October 2015. Edited by Areg M. Mickaelian, Andy Lawrence and Tigran Yu. Magakian. ASP Conference Series, Vol. 505, 2016, p.252
- 6.Houston, Gordon L.; Simonia, Irakli. Pictographs at Paint Rock, Texas: exploring the horizon astronomy and cultural intent. Journal of Astronomical History and Heritage (ISSN 1440-2807), 19 (1), p. 3-17, 2016.
- 7.Gucsik, A.; Gyollai, I.; Nishido, H.; Ninagawa, K.; Izawa, M. M. R.; Jäger, C.; Ott, U.; Simonia, I.; Bérczi, S.; Kanyama, M. Cathodoluminescence and Raman Spectromicroscopy of Forsterite in Tagish Lake Meteorite: Implications for Asteromineralogy. International Journal of Spectroscopy, 2016, id. 1751730.