

Borovička Jiří

ASEP Publications, Astronomical Institute of the ASCR, v. v. i.

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2010, 2011, 2012, 2013, 2014

Database: ASEP

0352555 - ASU-R 2011 RIV US eng J - Journal Article

Berezhnoy, A.A. - Borovička, Jiří

Formation of molecules in bright meteors.

Icarus. Roč. 210, č. 1 (2010), s. 150-157. ISSN 0019-1035

R&D Projects: GA AV ČR IAA300030813

Institutional Support: CEZ:AVOZ10030501

Keywords: meteors * atmospheres * Earth

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 3.813, year: 2010

Permanent link: <http://hdl.handle.net/11104/0192041>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2011](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0388175 - ASU-R 2013 RIV AU eng J - Journal Article

Bland, P.A. - Spurný, Pavel - Bevan, A.W.R. - Howard, K.T. - Towner, M.C. - Benedix, G.K. - Greenwood, R.C. - Šrbený, Lukáš - Franchi, I.A. - Deacon, G. - Borovička, Jiří - Ceplecha, Zdeněk - Vaughan, D. - Hough, R.M.

The Australian Desert Fireball Network: a new era for planetary science.

Australian Journal of Earth Sciences. Roč. 59, č. 2 (2012), s. 177-187. ISSN 0812-0099

R&D Projects: GA ČR GA205/08/0411

Institutional Support: CEZ:AVOZ10030501

Keywords: desert fireball network * nullarbor region * observed meteorite falls

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 1.468, year: 2012

Permanent link: <http://hdl.handle.net/11104/0217830>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2013](#)

0355125 - ASU-R 2011 RIV GB eng C - Proceedings Paper (International conf.)

Borovička, Jiří - Koten, Pavel - Spurný, Pavel - Čapek, David - Šrbený, Lukáš - Štork, Rostislav

Material properties of transition objects 3200 Phaethon and 2003 EH1.

Icy Bodies of the Solar System. Cambridge : Cambridge University Press, 2010, s. 218-222. ISBN 978-0-521-76488-9.

ISSN 1743-9213. - (IAU Symposium Proceedings Series. IAU S263).

[Symposium of the International Astronomical Union /263./. Rio de Janeiro (BR), 03.08.2009-07.08.2009]

R&D Projects: GA AV ČR IAA300030813; GA ČR GA205/09/1302

Institutional Support: CEZ:AVOZ1003909

Keywords: meteors * meteoroids * minor planets

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

10.1017/S174392131000178X

Permanent link: <http://hdl.handle.net/11104/0193965>

- [WOS](#)
- [Result - RIV](#)
- [Evaluation 2011](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0373962 - ASU-R 2012 RIV FR eng C - Proceedings Paper (International conf.)

Borovička, Jiří

Spectroscopic Analysis of Geminid Meteors.

Proceedings of the International Meteor Conference. Paris : International Meteor Organization, 2010 - (Rendtel, J.), s. 42-51 ISBN 978-2-87355-021-9.

[International Meteor Conference, Breges, France. Breges (FR), 07.06.2007-10.06.2007]

R&D Projects: GA ČR GA205/05/0543

Institutional Support: CEZ:AV0Z10030501

Keywords: Geminid meteors * spectroscopic analysis

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0206995>

- [Result - RIV](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0373292 - ASU-R 2012 RIV JP eng J - Journal Article

Borovička, Jiří - Abe, S. - Shrbený, Lukáš - Spurný, Pavel - Bland, P.A.

Photographic and Radiometric Observations of the HAYABUSA Re-Entry.

Publications of the Astronomical Society of Japan. Roč. 63, č. 5 (2011), s. 1003-1009. ISSN 0004-6264

R&D Projects: GA ČR GA205/08/0411; GA ČR(CZ) GAP209/11/1382

Institutional Support: CEZ:AV0Z10030501

Keywords: astrometry * meteors * meteoroids

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 2.438, year: 2011

Permanent link: <http://hdl.handle.net/11104/0206410>

- [WOS](#)
- [Result - RIV](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0399664 - ASU-R 2014 RIV BE eng C - Proceedings Paper (International conf.)

Borovička, Jiří - Koten, Pavel - Shrbený, Lukáš - Štork, Rostislav - Hornoch, Kamil

Radiants, orbits, spectra, and deceleration of selected 2011 Draconids.

Proceedings of the International Meteor Conference, Volume 1. Howe : International Meteor Organization, 2013 - (Gyssens, M.), s. 65-69 ISBN 978-2-87355-024-4.

[International Meteor Conference. La Palma, Canary Islands, (ES), 20.09.2012-23.09.2012]

R&D Projects: GA ČR(CZ) GAP209/11/1382; GA ČR GA205/09/1302; GA ČR GPP209/11/P651

Institutional Support: RVO:67985815

Keywords: Draconid meteors * radiant * orbit

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0226892>

- [Result - RIV](#)

0399280 - ASU-R 2014 RIV GB eng J - Journal Article

Borovička, Jiří - Spurný, Pavel - Brown, P. - Wiegert, P. - Kalenda, Pavel - Clark, D. - Shrubený, Lukáš

The trajectory, structure and origin of the Chelyabinsk asteroidal impactor.

Nature. Roč. 503, č. 7475 (2013), s. 235-237. ISSN 0028-0836

R&D Projects: GA ČR(CZ) GAP209/11/1382

Institutional Support: RVO:67985815 ; RVO:67985891

Keywords: superbolide * meteorite fall * airburst

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics; DB - Geology & Mineralogy

Impact factor: 42.351, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226600>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - RIV](#)

0399305 - ASU-R 2014 RIV US eng J - Journal Article

Borovička, Jiří - Tóth, J. - Igaz, A. - Spurný, Pavel - Kalenda, Pavel - Haloda, J. - Svoreň, J. - Kornoš, L. - Silber, E. - Brown, P. - Husárik, M.

The Košice meteorite fall: Atmospheric trajectory, fragmentation, and orbit.

Meteoritics & Planetary Science. Roč. 48, č. 10 (2013), s. 1757-1779. ISSN 1086-9379

R&D Projects: GA ČR(CZ) GAP209/11/1382; GA ČR GA205/08/0411

Not R&D Projects: SAV(SK) Vega /0636/09; SAV(SK) Vega 2/0022/10; SRDA(SK) APVV-0516- 10

Institutional Support: RVO:67985815 ; RVO:67985891

Keywords: meteors * meteoritics * meteoroids

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics; DB - Geology & Mineralogy

Impact factor: 2.827, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226619>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)

0353729 - ASU-R 2011 CZ cze J - Journal Article

Borovička, Jiří

Překvapivý vznik meteoritického kráteru v Peru.

[Surprising formation of meteoritic crater in Peru.]

Vesmír. Roč. 89, č. 5 (2010), s. 306-307. ISSN 1214-4029

Institutional Support: CEZ:AV0Z10030501

Keywords: meteor * meteoroid * crater

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0006238>

0399282 - ASU-R 2014 RIV GB eng J - Journal Article

Brown, P. G. - Assink, J.D. - Astiz, L. - Blaauw, R. - Boslough, M.B. - Borovička, Jiří - Brachet, N. - Brown, D. - Campbell-Brown, M. - Ceranna, L. - Cooke, W. - de Groot-Hedlin, C. - Drob, D.P. - Edwards, W. - Evers, L.G. - Garces, M. - Gill, J. - Hedlin, M. - Kingery, A. - Laske, G. - Le Pichon, A. - Mialle, P. - Moser, D.E. - Saffer, A. - Silber, E. - Smets, P. - Spalding, R. E. - Spurný, Pavel - Tagliaferri, E. - Uren, D. - Weryk, R.J. - Whitaker, R. - Krzeminski, Z.

A 500-kiloton airburst over Chelyabinsk and an enhanced hazard from small impactors.

Nature. Roč. 503, č. 7475 (2013), s. 238-241. ISSN 0028-0836

Not R&D Projects: NASA(US) NNX11AB76A

Institutional Support: RVO:67985815

Keywords: superbolide * meteorite fall * airburst

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 42.351, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226605>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - RIV](#)

0399302 - ASU-R 2014 RIV FR eng J - Journal Article

Campbell-Brown, M. - Borovička, Jiří - Brown, P. G. - Stokan, E.

High-resolution modelling of meteoroid ablation.

Astronomy & Astrophysics. Roč. 557, September (2013), A41/1-A41/13. ISSN 0004-6361

R&D Projects: GA ČR(CZ) GAP209/11/1382

Not R&D Projects: NASA(US) NNX11AB76A

Institutional Support: RVO:67985815

Keywords: meteorites * meteors * meteoroids

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 4.479, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226644>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)

0386260 - USMH-B 2013 RIV CZ cze K - Proceedings Paper (Czech conf.)

Kalenda, Pavel - Borovička, Jiří - Spurný, Pavel

Dynamika a fragmentace meteoroidů při průletu atmosférou.

[Dynamics and fragmentations of meteoroids during their flight in the atmosphere.]

Vltavíny 2009. České Budějovice : Jihočeský kraj, 2011 - (Rajlich, P.), s. 9-21 ISBN 978-80-87520-00-0.

[Vltavíny 2009. Nový Dvůr u Týna nad Vltavou (CZ), 26.09.2009-27.09.2009]

Institutional Support: CEZ:AV0Z30460519; CEZ:AV0Z10030501

Keywords: meteoroids * fragmentation * dynamics

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Permanent link: <http://hdl.handle.net/11104/0215493>

- [Result - RIV](#)
- [Evaluation 2013](#)

0429029 - USMH-B 2015 RIV US eng J - Journal Article

Kalenda, Pavel - Borovička, Jiří - Spurný, Pavel

The localization of fireball trajectories with the help of seismic networks.

Studia geophysica et geodaetica. Roč. 58, č. 1 (2014), 84-99. ISSN 0039-3169

Institutional Support: RVO:67985891 ; RVO:67985815

Keywords: fireball * Moravka meteorite fall * records * dynamics

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234239>

- [WOS](#)
- [DOI](#)

0427677 - GLU-S 2015 RIV US eng J - Journal Article

Kohout, Tomáš - Havrila, K. - Tóth, J. - Husárik, M. - Gritsevich, M. - Britt, D. - Borovička, Jiří - Spurný, Pavel - Igaz, A. - Svoreň, J. - Kornoš, L. - Vereš, P. - Koza, J. - Zigo, P. - Gajdoš, Š. - Világi, J. - Čapek, David - Křišandová, Z. - Tomko, D. - Šilha, J. - Schunová, E. - Bodnárová, M. - Búzová, D. - Krejčová, T.

Density, porosity and magnetic susceptibility of the Košice meteorite shower and homogeneity of its parent meteoroid.

Planetary and Space Science. 93/94, April (2014), s. 96-100. ISSN 0032-0633

R&D Projects: GA MŠk LH12079

Institutional Support: RVO:67985831 ; RVO:67985815
Keywords: porosity * density * H chondrite * meteorite * Kosice
 Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics
Impact factor: 1.630, year: 2013
Permanent link: <http://hdl.handle.net/11104/0233180>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0429765 - GLU-S 2015 RIV US eng J - Journal Article

Kohout, Tomáš - Havrila, K. - Tóth, J. - Husárik, M. - Gritsevich, M. - Britt, D. - Borovička, Jiří - Spurný, Pavel - Igaz, A. - Svoreň, J. - Kornoš, L. - Vereš, P. - Koza, J. - Zigo, P. - Gajdoš, Š. - Világi, J. - Čapek, David - Křišandová, Z. - Tomko, D. - Šilha, J. - Schunová, E. - Bodnárová, M. - Búzová, D. - Krejčová, T.

Density, porosity and magnetic susceptibility of the Košice meteorite shower and homogeneity of its parent meteoroid. *Planetary and Space Science*. 93/94, April (2014), s. 96-100. ISSN 0032-0633

R&D Projects: GA MŠk LH12079

Institutional Support: RVO:67985831 ; RVO:67985815

Keywords: density * H chondrite * Košice * meteorite * porosity
 Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics
Impact factor: 1.630, year: 2013
Permanent link: <http://hdl.handle.net/11104/0234807>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0373998 - ASU-R 2012 US eng C - Proceedings Paper (International conf.)

Kokhirova, G.I. - Borovička, Jiří

Observations of Leonids 2009 by the Tajikistan fireball network.

Meteoroids: The Smallest Solar System Bodies. Huntsville : NASA, 2011 - (Cooke, W.), s. 36-46 - (NASA Technical Report. NASA/CP—2011-216469).

[Meteoroids: The Smallest Solar System Bodies. Breckenridge (US), 24.05.2010-28.05.2010]

Institutional Support: CEZ:AV0Z10030501

Keywords: observations * fireball * atmospheric trajectory
 Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics
http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20110016620_2011017584.pdf
Permanent link: <http://hdl.handle.net/11104/0207025>

0372738 - ASU-R 2012 RIV FR eng J - Journal Article

Kokhirova, G.I. - Borovička, Jiří

Observations of the 2009 Leonid activity by the Tajikistan fireball network.

Astronomy & Astrophysics. Roč. 533, - (2011), A115/1-A115/6. ISSN 0004-6361

R&D Projects: GA ČR(CZ) GAP209/11/1382

Institutional Support: CEZ:AV0Z10030501

Keywords: meteorites * meteors * meteoroids
 Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics
Impact factor: 4.587, year: 2011
Permanent link: <http://hdl.handle.net/11104/0205982>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0367969 - ASU-R 2012 RIV FR eng J - Journal Article

Koten, Pavel - Borovička, Jiří - Kokhirova, G.I.

Activity of the Leonid meteor shower on 2009 November 17.

Astronomy & Astrophysics. Roč. 528, April (2011), A94/1-A94/4. ISSN 0004-6361

R&D Projects: GA ČR GA205/09/1302

Institutional Support: CEZ:AV0Z10030501

Keywords: meteorites * meteors * meteoroids

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 4.587, year: 2011

Permanent link: <http://hdl.handle.net/11104/0202457>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0372291 - ASU-R 2012 RIV US eng J - Journal Article

Popova, O. P. - Borovička, Jiří - Hartman, W.K. - Spurný, Pavel - Gnos, E. - Nemtchinov, I. V. - Trigo-Rodríguez, J.M.

Very low strengths of interplanetary meteoroids and small asteroids.

Meteoritics & Planetary Science. Roč. 46, č. 10 (2011), s. 1525-1550. ISSN 1086-9379

Institutional Support: CEZ:AV0Z10030501

Keywords: meteoroids * small asteroids * photographic observations

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 2.719, year: 2011

Permanent link: <http://hdl.handle.net/11104/0205644>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0399666 - ASU-R 2014 RIV BE eng C - Proceedings Paper (International conf.)

Spurný, Pavel - Haloda, J. - Borovička, Jiří

Benesov bolide - surprising outcome of exceptional story after twenty years.

Proceedings of the International Meteor Conference, Volume 1. Howe : International Meteor Organization, 2013 - (Gyssens, M.), s. 106-107 ISBN 978-2-87355-024-4.

[International Meteor Conference. La Palma, Canary Islands, (ES), 20.09.2012-23.09.2012]

Institutional Support: RVO:67985815

Keywords: Benesov bolide * analysis

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0226931>

- [Result - RIV](#)

0375313 - ASU-R 2012 RIV US eng J - Journal Article

Spurný, Pavel - Bland, P.A. - Shrbený, Lukáš - Borovička, Jiří - Ceplecha, Zdeněk - Singelton, A. - Bevan, A.W.R. - Vaughan, D. - Towner, M.C. - McClafferty, T. - Toumi, R. - Deacon, G.

The Bunburra Rockhole meteorite fall in SW Australia: fireball trajectory, luminosity, dynamics, orbit, and impact position from photographic and photoelectric records.

Meteoritics & Planetary Science. Roč. 47, č. 2 (2012), s. 163-185. ISSN 1086-9379

R&D Projects: GA ČR GA205/08/0411

Not R&D Projects: EU(XE) MRTN-CT-2006-035519

Institutional Support: CEZ:AV0Z10030501

Keywords: video records * recovery * fragmentation

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 2.800, year: 2012

Permanent link: <http://hdl.handle.net/11104/0208001>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2013](#)

0429442 - ASU-R 2015 RIV FR eng J - Journal Article

Spurný, Pavel - Shrbený, Lukáš - Borovička, Jiří - Koten, Pavel - Vojáček, Vlastimil - Štork, Rostislav

Bright Perseid fireball with exceptional beginning height of 170 km observed by different techniques.

Astronomy & Astrophysics. Roč. 563, March (2014), A64/1-A64/6. ISSN 0004-6361

R&D Projects: GA ČR GPP209/11/P651; GA ČR GA205/09/1302; GA ČR(CZ) GAP209/11/1382

Institutional Support: RVO:67985815

Keywords: meteorites * meteors * meteoroids

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Impact factor: 4.479, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234550>

- [WOS](#)
- [DOI](#)

0355122 - ASU-R 2011 RIV US eng J - Journal Article

Spurný, Pavel - Borovička, Jiří - Kac, J. - Kalenda, Pavel - Atanackov, J. - Kladnik, G. - Heinlein, D. - Grau, T.

Analysis of instrumental observations of the Jesenice meteorite fall on April 9, 2009.

Meteoritics & Planetary Science. Roč. 45, č. 8 (2010), s. 1392-1407. ISSN 1086-9379

R&D Projects: GA ČR GA205/08/0411

Institutional Support: CEZ:AV0Z10030501; CEZ:AV0Z30460519

Keywords: meteorite fall * analysis

Subject RIV: AC - Archeology, Anthropology, Ethnology

Impact factor: 2.624, year: 2010

Permanent link: <http://hdl.handle.net/11104/0193963>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Evaluation 2011](#)
- [Evaluation 2012](#)
- [Evaluation 2013](#)

0399646 - ASU-R 2014 RIV BE eng C - Proceedings Paper (International conf.)

Vaubailon, J. - Koten, Pavel - Rudawska, R. - Bouley, S. - Maquet, L. - Colas, F. - Toth, J. - Zender, J. -

McAuliffe, J. - Pautet, D. - Jenniskens, P. - Gerding, M. - Borovička, Jiří - Koschny, D. - Leroy, A. - Lecacheux, J.

- Gritsevich, M. - Ďuriš, F.

Overview of the 2011 Draconids airborne observation campaign.

Proceedings of the International Meteor Conference, Volume 1. Howe : International Meteor Organization, 2013 - (Gyssens, M.), s. 61-64 ISBN 978-2-87355-024-4.

[International Meteor Conference. La Palma, Canary Islands, (ES), 20.09.2012-23.09.2012]

R&D Projects: GA ČR GA205/09/1302

Institutional Support: RVO:67985815

Keywords: draconids * observation campaign

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0226885>

- [Result - RIV](#)

0355640 - ASU-R 2011 GB eng M - Monograph chapter

Watanabe, J. - Jenniskens, P. - Spurný, Pavel - Borovička, Jiří - Campbell-Brown, M. - Consolmagno, G. - Jopek, T. - Vaubaillon, J. - Williams, I.P. - Zhu, J.

Commission 22: Meteors, Meteorites and Interplanetary Dust.

Proceedings of the 27th General Assembly. Cambridge : Cambridge University Press, 2010 - (Corbett, I.), s. 177-179

ISBN 978-0-521-76831-3. - (Proceedings of the International Astronomical Union. IAU Transactions. 27B)

Institutional Support: CEZ:AV0Z10030501

Keywords: meteors * meteorites * interplanetary dust

Subject RIV: BN - Astronomy, Celestial Mechanics, Astrophysics

Permanent link: <http://hdl.handle.net/11104/0194362>