

Full publication list

Web of knowledge:

Results found: 56 (Scopus - 58)
Sum of the Times Cited: 607 (Scopus - 698)
Sum of Times Cited without self-citations: 350
Citing Articles: 343
Citing Articles without self-citations: 299
Average Citations per Item: 10.8
h-index: 16 (Scopus – 17)

Impacted journals:

1. G.G. Levchenko, V. Ksenofontov, **A.V. Stupakov**, H. Spiering, Y. Garcia, P. Gütllich, Pressure effect on temperature induced high-spin–low-spin phase transitions, *Chemical Physics*, Vol. **277**, No. 2, pp. 125–129, March 2002. Times cited: **21**.
2. **O. Stupakov**, I. Tomáš, J. Paľa, J. Bydžovský, J. Bošanský, T. Šmida, Traditional, Barkhausen and MAT Magnetic Response to Plastic Deformation of Low-Carbon Steel, *Czechoslovak Journal of Physics*, Vol. **54**, Suppl. D, pp. D47-D50, 2004 (12th Czech and Slovak Conference on Magnetism, Košice, Slovakia, July 12-15, 2004). Times cited: **7**.
3. V. Yurchenko, M. Jirsa, **O. Stupakov**, R. Wördenweber, On the principles of vortex localization and motion in superconductor thin films with artificially patterned cavities, *Journal of Low Temperature Physics*, Vol. **139**, No. 1-2, pp. 331-338, April 2005 (NATO Advanced Research Workshop on Vortex Dynamics in Superconductors and Other Complex Systems, Yalta, Ukraine, September 13-17, 2004). Times cited: **0**.
4. **O. Stupakov**, I. Tomáš, J. Kadlecová, Optimization of single-yoke magnetic testing by surface fields measurement, *Journal of Physics D: Applied Physics*, Vol. **39**, No. 2, pp. 248-254, January 2006. Times cited: **18**.
5. G. Vértesy, T. Uchimoto, T. Takagi, I. Tomáš, **O. Stupakov**, I. Mészáros, J. Pávó, Minor hysteresis loops measurements for characterization of cast iron, *Physica B: Condensed Matter*, Vol. **372**, No. 1-2, pp. 156-159, February 2006 (5th International Symposium on Hysteresis and Micromagnetic Modeling, HMM 2005, Hungarian Academy of Science, Budapest, Hungary, May 30 – June 01, 2005). Times cited: **10**.
6. I. Tomáš, **O. Stupakov**, J. Kadlecová, O. Perevertov, Magnetic adaptive testing-low magnetization, high sensitivity assessment of material modifications, *Journal of Magnetism and Magnetic Materials*, Vol. **304**, No. 2, pp. 168-171, September 2006 (17th International Symposium on Soft Magnetic Materials, Bratislava, Slovakia, September 7-9, 2005). Times cited: **11**.
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8. **O. Stupakov**, Investigation of applicability of extrapolation method for sample field determination in single-yoke measuring setup, *Journal of Magnetism and Magnetic Materials*, Vol. **307**, No. 2, pp. 279-287, December 2006. Times cited: **28**.
9. **O. Stupakov**, J. Paľa, J. Bydžovský, I. Tomáš, P. Švec, Investigation of correlation between hysteresis and Barkhausen noise measurements, *Journal of Electrical Engineering – Elektrotechnicky Casopis*, Vol. **57**, No. 8/S, pp. 84-87, December 2006 (Magnetic Measurement 2006, Závažná Poruba, Slovakia, September 21-23, 2006).
10. J. Paľa, J. Bydžovský, **O. Stupakov**, I. Tomáš, J. Kadlecová, V. Jančárik, Influence of yoke leg shape on air gap uncertainty, *Journal of Electrical Engineering – Elektrotechnicky Casopis*, Vol. **57**, No. 8/S, pp. 100-104, December 2006 (Magnetic Measurement 2006, Závažná Poruba, Slovakia, September 21-23, 2006).

11. J. Pal'a, **O. Stupakov**, J. Bydžovský, I. Tomáš, V. Novák, Magnetic behaviour of low-carbon steel in parallel and perpendicular directions to tensile deformation, *Journal of Magnetism and Magnetic Materials*, Vol. **310**, No. 1, pp. 57-62, March 2007. Times cited: **29**.
12. **O. Stupakov**, J. Pal'a, I. Tomáš, J. Bydžovský, V. Novák, Investigation of magnetic response to plastic deformation of low-carbon steel, *Materials Science and Engineering A*, Vol. **462**, No. 1-2, pp. 351-354, July 2007 (International Symposium on Physics of Materials ISPMA, Prague, Czech Republic, August 30 - September 02, 2005). Times cited: **28**.
13. **O. Stupakov**, J. Pal'a, V. Yurchenko, I. Tomáš, J. Bydžovský, Measurement of Barkhausen noise and its correlation with magnetic permeability, *Journal of Magnetism and Magnetic Materials*, Vol. **320**, No. 3-4, pp. 204-209, February 2008. Times cited: **15**.
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15. I. Tomáš, G. Vértesy, S. Kobayashi, J. Kadlecová, **O. Stupakov**, Low-carbon steel samples deformed by cold rolling-analysis by the magnetic adaptive testing, *Journal of Magnetism and Magnetic Materials*, Vol. **321**, No. 17, pp. 2670-2676, September 2009. Times cited: **5**.
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19. **O. Stupakov**, T. Uchimoto, T. Takagi, Magnetic anisotropy of plastically deformed low-carbon steel, *Journal of Physics D: Applied Physics*, Vol. **43**, No. 19, art. no. 195003 (7 pp), May 2010. Times cited: **25**.
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21. V. Stoyka, F. Kováč, **O. Stupakov**, I. Petryshynets, Texture evolution in Fe-3% Si steel treated under unconventional annealing conditions, *Materials Characterization*, Vol. **61**, No. 11, pp. 1066-1073, November 2010. Times cited: **27**.
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26. R. Oja, M. Tyunina, L. Yao, T. Pinomaa, T. Kocourek, A. Dejneka, **O. Stupakov**, M. Jelinek, V. Trepakov, S. van Dijken, R.M. Nieminen, d^0 Ferromagnetic interface

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27. **O. Stupakov**, Controllable magnetic hysteresis measurement of electrical steels in a single-yoke open configuration, *IEEE Transactions on Magnetics*, Vol. **48**, No 12, pp. 4718-4726, December 2012. Times cited: **16**.
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 29. A.V. Khoryushin, J.E. Mozhaeva, P.B. Mozhaev, V.V. Yurchenko, **O. Stupakov**, A.V. Pan, C.S. Jacobsen, J.B. Hansen, Structural and magnetic properties of (NdBa)MnO₃ films on lattice-matched substrates, *Journal of Magnetism and Magnetic Materials*, Vol. **333**, pp. 53-62, May 2013.
 30. **O. Stupakov**, P. Švec, Three-parameter feedback control of amorphous ribbon magnetization, *Journal of Electrical Engineering – Elektrotechnický Casopis*, Vol. **64**, No. 3, pp. 166-172, May 2013. Times cited: **5**.
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 35. O. Perevertov, R. Schaefer, **O. Stupakov**, 3-D branching of magnetic domains on compressed Si-Fe steel with Goss texture, *IEEE Transactions on Magnetics*, Vol. **50**, No. 11, pp. 2007804 (4 pages), November 2014. DOI 10.1109/TMAG.2014.2325211 (IEEE International Magnetics Conference, INTERMAG, Dresden, Germany, May 4-8, 2014). Times cited: **4**.
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55. **A. Stupakov**, A. Perevertov, M. Neslušán, Reading depth of the magnetic Barkhausen noise. I. One-phase semi-hard ribbons, *Journal of Magnetism and Magnetic Materials*, Vol. **513** art. 167086 (12 pages), 1 November 2020. <https://doi.org/10.1016/j.jmmm.2020.167086>.
56. **A. Stupakov**, A. Perevertov, M. Neslušán, Reading depth of the magnetic Barkhausen noise. II. Two-phase surface-treated steels, *Journal of Magnetism and Magnetic Materials*, Vol. **513** art. 167239 (9 pages), 1 November 2020. <https://doi.org/10.1016/j.jmmm.2020.167239>.

Book chapters:

1. **A. Stupakov**, Chapter 2 “Measurement methods” in *Barkhausen Noise for Non-destructive Testing and Materials Characterization in Low Carbon Steels*, Ed.: Tu Le Manh, José Alberto Pérez Benitez, José Hiram Espina Hernández and José Manuel Hallen López, Woodhead Publishing Series in Electronic and Optical Materials, Elsevier, June 2020, pp. 25-71 (276 pages total), ISBN: 9780081028001. <https://doi.org/10.1016/B978-0-08-102800-1.00002-2>.

Other conference publications:

1. **O. Stupakov**, B. Skrbek, I. Tomáš, Magnetic adaptive testing of thermally treated construction steel, in *Electromagnetic Nondestructive Evaluation (VIII)*, Studies in Applied Electromagnetics and Mechanics, Vol. **24**, Ed. by T. Sollier et al., IOS Press, Amsterdam, ISBN 978-1-58603-407-8, pp. 175-182, February 2004 (proceedings of the International Workshop on Electromagnetic Nondestructive Evaluation, ENDE 2003, Saclay, France, 15-16 May 2003). Times cited: **0**.
2. **O. Stupakov**, I. Tomáš, B. Skrbek, L. Vokurka, G. Vértesy, Optimization of magnetic testing of ferromagnetic materials by inspection head, in *Proceedings of 34th International Conference Defektoskopie 2004*, Ed. By P. Mazal, Czech Society for Nondestructive Testing, Brno University of Technology, ISBN 80-214-2749-3, pp. 269-276, 2004 (Špindlerův Mlýn, 3-5 November 2004).
3. B. Skrbek, V. Nosek, I. Tomáš, **O. Stupakov**, Ultrasound and electromagnetic rapid tests of modification effect spheroidal or vermicular graphite cast irons manufacturing, in *Proceedings of 34th International Conference Defektoskopie/NDT for safety 2004*, Ed. by P. Mazal, Czech Society for Nondestructive Testing, Brno University of Technology, ISBN 80-214-2749-3, pp. 233-238, 2004 (Špindlerův Mlýn, 3-5 November 2004).
4. **O. Stupakov**, Investigation of magnetic processes of structure-degraded ferromagnetic materials, PhD thesis, Charles University in Prague, March 2006.
5. I. Tomáš, J. Kadlecová, **O. Stupakov**, B. Skrbek, Optimized magnetic testing of ferromagnetic construction materials, in *Proceedings of 5th International Conference on Soft Computing Applied in Computer and Economic Environments, ICSC 2007*, Ed. by I. Rukovanský and P. Ošmera, European Polytechnical Institute Kunovice, ISBN 80-7314-108-6, pp.229-232 (Kunovice, Czech republic, 26 January 2007).
6. **O. Stupakov**, T. Uchimoto, T. Takagi, S. A. Sanaee, I. Tomáš, Evaluation of Ductile Cast Iron Microstructure by Magnetic Hysteresis and Barkhausen Noise Methods, in *Electromagnetic Nondestructive Evaluation (XII)*, Studies in Applied Electromagnetics and

- Mechanics, Vol. **32**, Ed. by Y.-K. Shin et al., IOS Press, Amsterdam, ISBN 978-1-60750-023-0, pp. 232-239, August 2009 (proceedings of the 13th International Workshop on Electromagnetic Nondestructive Evaluation, ENDE 2008, Seoul, Korea, 10-12 June 2008).
7. **O. Stupakov**, I. Tomáš, B. Skrbek, Barkhausen noise testing of surface decarburization of steel, in Proceedings of 40th International Conference Defektoskopie/NDT for Safety 2010, Ed. by P. Mazal and L. Pazdera, Czech Society for Nondestructive Testing, Brno University of Technology, ISBN 978-80-214-4182-8, pp. 340-341, 2010 (Pilsen, Czech republic, 10-12 November 2010), web-link <http://www.ndt.net/search/docs.php3?edit=1&MainSource=102&AuthorID=22670>.
 8. **O. Stupakov**, Advantages of direct field approach in application to magnetic hysteresis measurements, in Proceedings of 8th International Conference on Measurement 2011, Ed. by J. Maňka, V. Witkovský, M. Tyšler and I. Frollo, Institute of Measurement Science SAS, ISBN 978-80-969-672-4-7, pp. 162-165, 2011 (Smolenice, Slovakia, 27-30 April 2011).
 9. **O. Stupakov**, T. Takagi, K. Kolařík, Barkhausen Noise Testing of Residual Stresses Introduced by Surface Hardening Techniques, in Electromagnetic Nondestructive Evaluation (XVII), Studies in Applied Electromagnetics and Mechanics, Vol. **39**, Ed. by K. Capova et al., IOS Press, Amsterdam, ISBN 978-1-61499-406-0, pp. 288-295, 2014, DOI: 10.3233/978-1-61499-407-7-288 (proceedings of the 18th International Workshop on Electromagnetic Non-destructive Evaluation (ENDE), Bratislava, Slovak Republic, 25-28 June 2013).
 10. **A. Stupakov**, O. Perevertov, V. Zablotskii, A system for controllable magnetic measurements of hysteresis and Barkhausen noise, in proceedings of IEEE International Instrumentation and Measurement Technology Conference (I2MTC), pp. 1507-1511, Pisa, Italy, 11-14 May 2015, DOI: 10.1109/I2MTC.2015.7151501.
 11. **A. Stupakov**, M. Neslušán, T. Uchimoto, T. Takagi, Non-destructive Evaluation of Milled Surfaces of a Hard Bearing Steel by the Barkhausen Noise Technique, in Electromagnetic Nondestructive Evaluation (XIX), Studies in Applied Electromagnetics and Mechanics, Vol. **41**, Ed. by N. Yusa et al., IOS Press, Amsterdam, ISBN 978-1-61499-639-2, pp. 102-109, 2016, DOI: 10.3233/978-1-61499-639-2-102 (proceedings of the 20th International Workshop on Electromagnetic Non-destructive Evaluation (ENDE), Sendai, Japan, 21-23 September 2015).
 12. **A. Stupakov**, T. Matsumoto, T. Uchimoto, G. Vértesy, T. Takagi, Magnetic Non-Destructive Evaluation of a Ductile Cast Iron with a Retained Proeutectoid Cementite, in Electromagnetic Nondestructive Evaluation (XX), Studies in Applied Electromagnetics and Mechanics, Vol. **42**, Ed. by H.G. Ramos and A.L. Ribeiro, IOS Press, Amsterdam, ISBN 978-1-61499-766-5, pp. 173-181, 2017, DOI: 10.3233/978-1-61499-767-2-173 (proceedings of the 21th International Workshop on Electromagnetic Non-destructive Evaluation (ENDE), Lisbon, Portugal, 25-28 September 2016).