

References

- [1986-BED] Bednorz, J. G.; Müller, K. A. (1986). "Possible high T_c superconductivity in the Ba-La-Cu-O system". *Zeitschrift für Physik B*. 64 (2): 189–193.
- [2019-NAT] Superconducting magnet breaks strength world record, <https://www.nature.com/articles/d41586-019-01869-1>
- [2016-WEI] H. W. Weijers et al., "Progress in the Development and Construction of a 32-T Superconducting Magnet," in *IEEE Transactions on Applied Superconductivity*, vol. 26, no. 4, pp. 1-7, June 2016, Art no. 4300807, doi: 10.1109/TASC.2016.2517022.
- [2020-BRU] Bruker Press Release "Successful Installation of World's First 1.2 GHz NMR System Enables Novel Functional Structural Biology Research", May 4, 2020.
- [2021-MIT] MIT Press Release, "MIT-designed project achieves major advance toward fusion energy", September 8, 2021.
- [2021-MOL] Molodyk, A., Samoilenkov, S., Markelov, A. et al. Development and large volume production of extremely high current density YBa₂Cu₃O₇ superconducting wires for fusion. *Sci Rep* 11, 2084 (2021).
- [2018-LEA] LEAPS Strategy 2030, "Proposal for a new Research and Innovation Consortium in Horizon Europe and Beyond, 2nd Ed. 2018.
- [2022-LDG] EUROPEAN STRATEGY FOR PARTICLE PHYSICS, Accelerator R&D Roadmap, CERN Yellow Rep. Monogr. 1 (2022) 1-270.
- [2005-NAS] Opportunities in High Magnetic Field Science, National Academies Press, 2005, ISBN: 978-0-309-09582-2.
- [2013-NAS] High Magnetic Field Science and Its Application in the United States, Current Status and Future Directions, National Academies Press, 2013, ISBN: 978-0-309-38778-1.
- [2019-BOS] E. S. Bosque, Y. Kim, U. P. Trociewitz, C. L. English, and D. C. Larbalestier, "System and Method to Manage High Stresses in Bi-2212 Wire Wound Compact Superconducting Magnets," Appl.No. 16390512, Dec. 26, 2019 <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019245646>
- [2020-BAI] H. Bai et al., "The 40 T Superconducting Magnet Project at the National High Magnetic Field Laboratory," in *IEEE Transactions on Applied Superconductivity*, vol. 30, no. 4, pp. 1-5, June 2020, Art no. 4300405, doi: 10.1109/TASC.2020.2969642
- [2022-YAN] Y Yanagisawa et al 2022 *Supercond. Sci. Technol.* 35 044006
- [2022-WIK] Patrick Wikus et al 2022 *Supercond. Sci. Technol.* 35 033001
- [2022-BRU] <https://www.bruker.com/de/news-and-events/news/2022/bruker-demonstrates-novel-and-unique-compact-1-0-ghz-nmr-magnet.html>
- [2011-TOL] A. Tollestrup and D. Larbalestier. Very high field superconducting magnet collaboration, July 2011. Presented at Eucard HTS Magnet Program Meeting, CERN, 26 Jul. 2011. <https://indico.cern.ch/event/148320/contributions/1386701/>
- [2016-GOU] S. Gourlay et al. The U.S. magnet development program plan. <https://escholarship.org/uc/item/5178744r>, 2016
- [2012-DER] The EuCARD High Field Magnet Project. *IEEE Trans. Appl. Sup.*, 22(3):4301204,2012. <https://doi.org/10.1109/TASC.2011.2178220>
- [2018-ROS-1] L. Rossi et al. The EuCARD2 future magnets program for particle accelerator high-field dipoles: Review of results and next steps. *IEEE Trans. Appl. Supercond.*, 28(3):4001810, 2018. <https://doi.org/10.1109/TASC.2017.2784357>
- [2018-ROS-2] L. Rossi et al. REBCO coated conductor development in the ARIES program for HTS accelerator magnets, 2018. Invited presentation to ASC Superconductivity News Forum. <http://cern.ch/go/7JJF>
- [2021-ROS] L. Rossi, C. Senatore, *Instruments* 2021, 5, 8. <https://doi.org/10.3390/instruments5010008>

Acronyms and abbreviations

LTS

HTS

EuMAHTS

TRL

REBCO

BSCCO

IBS