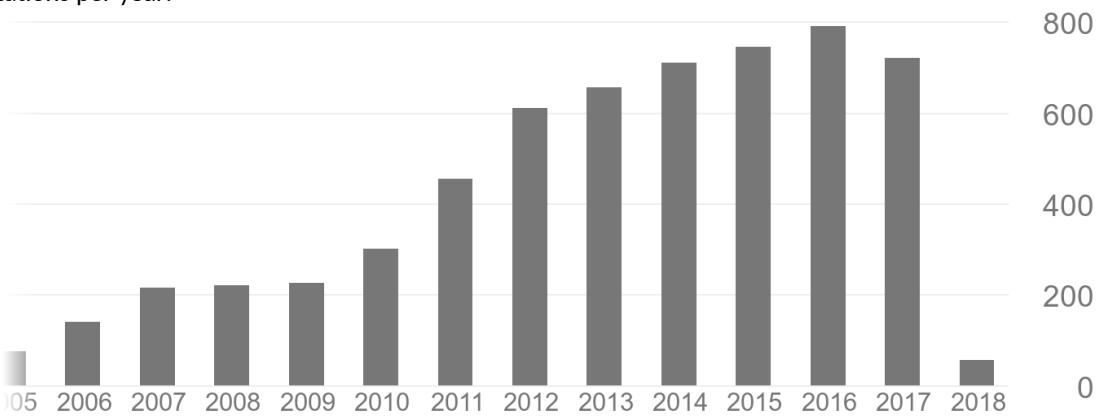
FULL PULICATION LIST
Dr. rer. nat. Michael Tangermann (née Schröder)

Please find below my complete publication list, including two manuscripts under review [2],[3].
For publications cited 50 times or more, the frequency is provided.

Google Scholar Citation Tracker (dated Jan. 23, 2018):

citations: 6008 (rank 53 within scientists listed for "University of Freiburg")
h-index: 34
i10-index: 60

Citations per year:



Original research

1. (full paper, in print)
David Hübner, Thibault Verhoeven, Klaus-Robert Müller, Pieter-Jan Kindermans, **Michael Tangermann**. Unsupervised Learning for Brain-Computer Interfaces Based on Event-Related Potentials: Review and Online Comparison. IEEE Computational Intelligence Magazine, 2018.

2. (preprint / full paper under review)
Sebastian Castaño-Candamil, Andreas Meinel, **Michael Tangermann**. Post-hoc labeling of arbitrary EEG recordings for data-efficient evaluation of neural decoding methods. Preprint arXiv:1711.08208 and under review in IEEE Transactions on Knowledge and Data Engineering, 2017.

3. (full paper, under review)
Andreas Meinel, Sebastian Castaño-Candamil, Benjamin Blankertz, Fabien Lotte, **Michael Tangermann**. Characterizing Regularization Techniques for Spatial Filter Optimization in Oscillatory EEG Regression Problems. Under review in Springer Neuroinformatics, 2017.

4. (full paper)
David Hübner, Thibault Verhoeven, Konstantin Schmid, Klaus-Robert Müller, **Michael Tangermann**, Pieter-Jan Kindermans. Learning from label proportions in brain-computer interfaces: online unsupervised learning with guarantees. PloS ONE 12(4), e0175856, 2017.

5. (full paper)
Thibault Verhoeven, David Hübner, **Michael Tangermann**, Klaus-Robert Müller, Joni Dambre, Pieter-Jan Kindermans. Improving zero-training brain-computer interfaces by mixing model estimators. Journal Neural Engineering 14(3), 036021, 2017.

6. (peer reviewed conference paper)
David Hübner, Pieter-Jan Kindermans, Thibault Verhoeven, **Michael Tangermann**. Improving learning from label proportions by reducing the feature dimensionality. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 186-191, Verlag der Technischen Universität Graz, 2017.

7. (peer reviewed conference paper)
David Hübner, **Michael Tangermann**. Challenging the assumption that auditory event-related potentials are independent and identically distributed. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 192-197, Verlag der Technischen Universität Graz, 2017.

8. (peer reviewed conference paper)
David Hübner, Thibault Verhoeven, Pieter-Jan Kindermans, **Michael Tangermann**. Mixing two unsupervised estimators for event-related potential decoding: An online evaluation. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 198-203, Verlag der Technischen Universität Graz, 2017.

9. (peer reviewed conference paper)
Andreas Meinel, Fabien Lotte, **Michael Tangermann**. Tikhonov Regularization Enhances {EEG}-Based Spatial Filtering For Single-Trial Regression. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 308-313, Verlag der Technischen Universität Graz, 2017.

10. (peer reviewed conference paper)
Henrich Kolkhorst, Wolfram Burgard, **Michael Tangermann**. Decoding Hazardous Events in Driving Videos. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 242-247, Verlag der Technischen Universität Graz, 2017.

11. (peer reviewed conference paper)
Sebastian Castaño-Candamil, Soheil Mottaghi, Volker A. Coenen, Ulrich Hofmann, **Michael Tangermann.** Closed-Loop Deep Brain Stimulation System for an Animal Model of Parkinson's Disease: A Pilot Study. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 58-63, Verlag der Technischen Universität Graz, 2017.

12. (peer reviewed conference paper)
Sebastian Castaño-Candamil, **Michael Tangermann**. Subspace Decomposition in the Frequency Domain. Proceedings of the 7th International Brain-Computer Interface Meeting 2017: From Vision to Reality, p. 64-69, Verlag der Technischen Universität Graz, 2017.

13. (full paper)
Robin Tibor Schirrmeister, Jost Tobias Springenberg, Lukas Dominique Josef Fiederer, Martin Glasstetter, Katharina Eggensperger, **Michael Tangermann**, Frank Hutter, Wolfram Burgard, Tonio Ball. Deep Learning with Convolutional Neural Networks for EEG Decoding and Visualization. Human Brain Mapping, 38(11):5391-5420, 2017.

14. (peer reviewed conference short paper)
Michael Tangermann, Andreas Meinel. Informative Oscillatory EEG Components and their Persistence in Time and Frequency. In NEUROTECHNIX 2017 - Extended Abstracts - Volume 1: CogNeuroEng, ISBN , pages 17-21, 2017.

15. (peer reviewed extended conference abstract)
Robin Tibor Schirrmeister and Lukas Dominique Josef Fiederer and Jost Tobias Springenberg and Martin Glasstetter and Katharina Eggensperger and **Michael Tangermann** and Frank Hutter and Wolfram Burgard and Tonio Ball. Designing and Understanding Convolutional Networks for Decoding Executed Movements from EEG. The First Biannual Neuroadaptive Technology Conference, p. 143-144. Berlin, 2017.

16. (peer reviewed extended conference abstract)
David Hübner, Thibault Verhoeven and Konstantin Schmid and Klaus-Robert Müller, **Michael Tangermann**, Pieter-Jan Kindermans. Learning from Label Proportions in BCI -- a Symbiotic Design for Stimulus Preservation and Signal Decoding. The First Biannual Neuroadaptive Technology Conference, p. 27-28. Berlin, 2017.

17. (peer reviewed extended conference abstract)
Andreas Meinel, Thorsten Koller, **Michael Tangermann**. Time-Frequency Sensitivity Characterization of Single-Trial Oscillatory EEG Components. The First Biannual Neuroadaptive Technology Conference, p. 36-37. Berlin, 2017.

18. (peer reviewed extended conference abstract)
Henrich Kolkhorst, **Michael Tangermann**, Wolfram Burgard. Decoding Perceived Hazardousness from User's Brain States to Shape Human-Robot Interaction. Proceedings of the Companion of the 2017 ACM/IEEE International Conference on Human-Robot Interaction (HRI), p. 349-350, Wien, 2017.

19. (preprint of full paper)
Robin Tibor Schirrmeister, Jost Tobias Springenberg, Lukas Dominique Josef Fiederer, Martin Glasstetter, Katharina Eggensperger, **Michael Tangermann**, Frank Hutter, Wolfram Burgard, Tonio Ball. Deep learning with convolutional neural networks for brain mapping and decoding of movement-related information from the human EEG. arXiv, cs.LG 1703.05051, 2017.

20. (preprint of full paper)
David Hübner, Thibault Verhoeven, Konstantin Schmid, Klaus-Robert Müller, **Michael Tangermann**, Pieter-Jan Kindermans. Learning from label proportions in brain-computer interfaces: online unsupervised learning with guarantees. ArXiv, stat.ML:1701.07213, 2017.

21. (full paper)
Jane E. Huggins, Christoph Guger, Mounia Ziat, Thorsten O. Zander, Denise Taylor, **Michael Tangermann**, Aureli Soria-Frisch, John Simeral, Reinhold Scherer, Rüdiger Rupp, Giulio Ruffini, Douglas K. R. Robinson, Nick F. Ramsey, Anton Nijholt, Gernot Müler-Putz, Dennis J. McFarland, Donatella Mattia, Brent J. Lance, Pieter-Jan Kindermans, Iñaki Iturrate, Christian Herff, Disha Gupta, An H. Do, Jennifer L. Collinger, Ricardo Chavarriaga, Steven M. Chase, Martin G. Bleichner, Aaron Batista, Charles W. Anderson, Erik J. Aarnoutse. Workshops of the Sixth International Brain–Computer Interface Meeting: brain–computer interfaces past, present, and future. J Brain-Computer Interfaces 4(1-2), p. 3-36, 2017.

22. (peer reviewed extended conference abstract)
Johannes Meyer, Andreas Meinel, Thomas Schreiner, Björn Rasch, **Michael Tangermann**. Abstracts der 24. Jahrestagung der DGSM -- P26 Versuchspersonenunabhängige Single-Trial-Erkennung von langsamen Wellen im Schlaf-EEG. Somnologie 20 Suppl. 1 (1), p. 75-76, 2016.

23. (full paper)
Andreas Meinel, Sebastián Castaño-Candamil, Janine Reis, **Michael Tangermann**. Pre-Trial EEG-based Single-Trial Motor Performance Prediction to Enhance Neuroergonomics for a Hand Force Task. Frontiers in Human Neuroscience, volume: 10, issue: 170, http://doi.org/10.3389/fnhum.2016.00170, 2016.

24. (conference contribution, 1 page abstract)
Roza Umarova, Sebastián Castaño-Candamil, Atieh Bamdadian, Sebastian Kübel, Mariacristina Musso, Stefan Klöppel, **Michael Tangermann**. BCI-Approach for Cognitive Rehabilitation in Stroke: Pilot Data from Patient with Spatial Neglect. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 135, 2016

25. (conference contribution, 1 page abstract)
Sebastián Castaño-Candamil, Atieh Bamdadian, Sebastian Kübel,Roza Umarova, **Michael Tangermann**. ERP Features Correlate with Reaction Time in a Covert-Attention Task. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 179, 2016.

26. (conference contribution, 1 page abstract)
Atieh Bamdadian, Simone Denzer, Mariacristina Musso, **Michael Tangermann**. ERP Responses of the Elderly for Bisyllabic Word Stimuli. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 180, 2016.

27. (conference contribution, 1 page abstract)
Andreas Meinel, Eva Schlichtmann, Torsten Koller, Janine Reis, **Michael Tangermann**. Predicting Single-Trial Motor Performance from Oscillatory EEG in Chronic Stroke Patients. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 140, 2016.

28. (conference contribution, 1 page abstract)
Sebastián Castaño-Candamil, Sven Dähne, **Michael Tangermann**. Relevant Frequency Estimation in EEG Recordings for Source Power Co-Modulation. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 156, 2016.

29. (conference contribution, poster + 1 page abstract)
Mariacristina Musso, Atieh Bamdadian, Simone Denzer, Roza Umarova, David Hübner, **Michael Tangermann**. A novel BCI based rehabilitation approach for aphasia rehabilitation. Proceedings of the 6th International Brain-Computer Interface Meeting: Past, Present, and Future, page(s): 104, 2016.

30. (conference contribution, 1 page abstract)
Andreas Meinel, Katharina Eggensperger, **Michael Tangermann**, Frank Hutter. Hyperparameter Optimization for Machine Learning Problems in BCI. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 184, 2016.

31. (conference contribution, 1 page abstract)
Karl Marrett, Mark Wronkiewicz, **Michael Tangermann**, Adrian A Lee. User-Focused Study of Auditory P300 Brain-Computer Interface Design. Proceedings of the 6th International Brain-Computer Interface Meeting: BCI Past, Present, and Future, page(s): 17, 2016.

32. (full paper, **52 citations**)
Gernot R Müller-Putz, Robert Leeb, **Michael Tangermann**, Johannes Höhne, Andrea Kübler, Febo Cincotti, Donatella Mattia, Rüdiger Rupp, Klaus-Robert Müller, José del R. Millán. Towards Non-Invasive Hybrid Brain-Computer Interfaces: Framework, Practice, Clinical Application and Beyond. Proc. IEEE, volume: 103, issue: 6, page(s): 926-943, 2015.

33. (peer reviewed conference paper)
Michael Tangermann, Janine Reis and Andreas Meinel. Commonalities of Motor Performance Metrics are Revealed by Predictive Oscillatory EEG Components. In *Proc. of the 3rd Int. Congr. on Neurotechnology, Electronics and Informatics (NEUROTECHNIX 2015)*, pages 32-38, Lissabon, Portugal, November 2015.

34. (peer reviewed conference paper)
Irene Winkler, Stefan Debener, Klaus-Robert Müller, **Michael Tangermann**. On the Influence of High-Pass Filtering on ICA-Based Artifact Reduction in EEG-ERP. *Proc. 37Th Ann. Int. IEEE EMBC Conference*, pp. 4101—4105, Milano, Italy, 2015.

35. (peer reviewed conference paper)
Juan Sebastián Castaño-Candamil, Andreas Meinel, Sven Dähne, **Michael Tangermann**. Probing Meaningfulness of Oscillatory EEG Components with Bootstrapping, Label Noise and Reduced Training Sets. *Proc. 37Th Ann. Int. IEEE EMBC Conference*, pp. 5159—5162, Milano, Italy, 2015.

36. (peer reviewed conference paper)
Andreas Meinel, Juan Sebastián Castaño-Candamil, Sven Dähne, Janine Reis, **Michael Tangermann**. EEG Band Power Predicts Single-Trial Reaction Time in a Hand Motor Task. *Proc. Int. IEEE Conf. on Neural Engineering (NER)*. pp. 182-185, Montpellier, France, April 2015.

37. (full paper)
Johannes Höhne, Elisa Holz, Pit Staiger-Sälzer, Klaus-Robert Müller, Andrea Kübler, **Michael Tangermann**. Motor Imagery for Severely Motor-Impaired Patients: Evidence for Brain-Computer Interfacing as Superior Control Solution. PLoS ONE, 9(8), p. e104854, doi 10.1371/journal.pone.0104854, 2014.

38. (full paper)
Pieter-Jan Kindermans, Martijn Schreuder, Benjamin Schrauwen, Klaus-Robert Müller, **Michael Tangermann**. True Zero-Training Brain-Computer Interfacing – An Online Study. *PLoS ONE* 9(7), p. e102504, doi: 10.1371/journal.pone.0102504, 2014.

39. (peer-rev. conference paper)
Michael Tangermann, Norah Schnorr, Mariacristina Musso. Towards Aphasia Rehabilitation with BCI. Proceedings of the 6th International Brain-Computer Interface Conference in Graz, p. 65-68, Verlag der Technischen Universität Graz, 2014.

40. (full paper)
Johannes Höhne, **Michael Tangermann**. Towards User-friendly Spelling with an Auditory Brain-Computer Interface: The CharStreamer Paradigm. PLoS ONE, 9(6), p. e98322, doi 10.1371/journal.pone.0098322, 2014.

41. (full paper)
Irene Winkler, Stephanie Brandl, Franziska Horn, Eric Waldburger, Carsten Allefeld, **Michael Tangermann**. Robust artifactual independent component classification for BCI practitioners. *J. Neural Engineering*, 11(3), pp. 035013, 2014.

42. (full paper)
Pieter-Jan Kindermans, **Michael Tangermann**, Klaus-Robert Müller, Benjamin Schrauwen. Integrating dynamic stopping, transfer learning and language models in an adaptive zero-training ERP speller. J. Neural Engineering 11(3), p. 035005, 2014.

43. (full paper)
Jane E Huggins, Christoph Guger, Brendan Allison, Charles W Anderson, Aaron Batista, Anne-Marie Brouwer, Clemens Brunner, Ricardo Chavarriaga, Melanie Fried-Oken, Aysegul Gunduz, Disha Gupta, Andrea Kübler, Robert Leeb, Fabien Lotte, Lee E Miller, Gernot Müller-Putz, Tomasz Rutkowski, **Michael Tangermann**, David Edward Thompson. Workshops of the fifth international brain-computer interface meeting: Defining the future. *Brain-Computer Interfaces, 1(1), p. 27-49, 2014.*

44. (peer reviewed conference paper)
Pieter-Jan Kindermans, Benjamin Schrauwen, Benjamin Blankertz, Klaus-Robert Müller, **Michael Tangermann**. Transferring Unsupervised Adaptive Classifiers Between Users of a Spatial Auditory Brain-Computer Interface. *Proceedings of the 6th International Brain-Computer Interface Conference*, p. 330-333, Verlag der Technischen Universität Graz, doi: 10.3217/978-3-85125-378-8, 2014.

45. (peer-rev. conference abstract)
Michael Tangermann, Pieter-Jan Kindermans, Martijn Schreuder, Benjamin Schrauwen, Klaus-Robert Müller. Zero Training for BCI - Reality for

BCI Systems Based on Event-Related Potentials. Proceedings BMT (Biomedizinische Technik) 2013 - Dreiländertagung der Deutschen, Schweizerischen und Österreichischen Gesellschaft für Biomedizinische Technik, Walter de Gruyter, 58(SI-1), p.4439, 2013.

46. (peer reviewed conference paper)
Irene Winkler, Eric Waldburger, Stefan Haufe, **Michael Tangermann**. On Classifying Artifactual Independent Components: Generalization Ability to Different Electrode Setups. *Proceedings of the Fifth International Brain-Computer Interface Meeting 2013*, p. 286—287, Verlag der Technischen Universität Graz, doi 10.3217/978-3-85125-260-6-144, 2013.

47. (full paper)
Martijn Schreuder, Angela Riccio, Monica Risetti, Sven Dähne, Andrew Ramsey, John Williamson, Donatella Mattia, **Michael Tangermann**, User-Centered Design in BCI - a Case Study. *Artificial Intelligence in Medicine*, 2(59, pp. 71-80, doi 10.1016/j.artmed.2013.07.005, 2013.

48. (full paper, **52 citations**)
Martijn Schreuder, Johannes Höhne, Benjamin Blankertz, Stefan Haufe, Thorsten Dickhaus and **Michael Tangermann**. Optimizing ERP Based BCI - a Systematic Evaluation of Dynamic Stopping Methods. *Journal of Neural Engineering*, 10 (3), pp. 036025, doi 10.1088/1741-2560/10/3/036025, 2013.

49. (peer-rev. conference proceedings)
Anne K Porbadnigk, Matthias S. Treder, Siamac Fazli, **Michael Tangermann**, Carmen Vidaurre, Stefan Haufe, Gabriel Curio, Benjamin Blankertz, Klaus-Robert Müller. Decoding cognitive brain states. Proc. International Winter Workshop on Brain-Computer Interface (BCI), IEEE, 2013.

50. (full paper, **63 citations**)
Elisa Mira Holz, Johannes Höhne, Pit Staiger-Sälzer, **Michael Tangermann**, Andrea Kübler. Brain-computer interface controlled gaming: Evaluation of usability by severely motor restricted end-users. Artificial Intelligence in Medicine, 59 (2), pp. 111-120, Special Issue: Brain-computer interfacing, doi 10.1016/j.artmed.2013.08.001, 2013.

51. (peer-rev. conference proceedings)
Elisa Holz, Claudia Zickler, Angela Riccio, Johannes Höhne, Febo Cincotti, **Michael Tangermann**, Sebastian Halder, Donatella Mattia, Andrea Kübler. Evaluation of Four Different BCI Prototypes by Severely Motor-Restricted End-Users. Proceedings of the Fifth International Brain-Computer Interface Meeting 2013, Verlag der Technischen Universität Graz, 2013.

52. (peer-rev. conference proceedings)
Gernot Müller-Putz, Martijn Schreuder, **Michael Tangermann**, Robert Leeb, José del R. Millán. The hybrid Brain-Computer Interface: a bridge to assistive technology? Proceedings BMT (Biomedizinische Technik) 2013 - Dreiländertagung der Deutschen, Schweizerischen und Österreichischen Gesellschaft für Biomedizinische Technik, Walter de Gruyter, 58(SI-1), 2013.

53. (full paper)
Sven Dähne, Frank C. Meinecke, Stefan Haufe, Johannes Höhne, **Michael Tangermann**, Klaus-Robert Müller, Vadim V. Nikulin. SPoC: A novel framework for relating the amplitude of neuronal oscillations to behaviorally relevant parameters. NeuroImage, ISSN 1053-8119, doi 10.1016/j.neuroimage.2013.07.079, 2013.

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Johannes Höhne, **Michael Tangermann**. Natural Stimuli Improve Auditory BCIs with Respect to Ergonomics and Performance. *Journal of Neural Engineering*, 9(4), pp. 045003, doi:10.1088/1741-2560/9/4/045003, 2012.

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58. (peer reviewed conference paper)
Martijn Schreuder, Marieke E. Thurlings, Anne-Marie Brouwer, Jan B.F. van Erp, **Michael Tangermann**. Exploring the use of direct feedback in ERP-based BCI. *Conf Proc IEEE Eng Med Biol Soc (EMBS)*, doi:10.1109/EMBC.2012.6347533, p. 6707-6710, 2012.

59. (full paper, **163 citations**)
Jan van Erp, Fabien Lotte, **Michael Tangermann**. Brain-Computer Interfaces Beyond Medical Applications. *Computer (IEEE Computer Society)*, p.26--34, April 2012.

60. (peer-rev. short paper/extended abstract)
Michael Tangermann, Martijn Schreuder, Sven Dähne, Johannes Höhne, Sebastian Regler, Andrew Ramsey, Melissa Queck, John Williamson, Roderick Murray-Smith. Optimized Stimulation Events for a Visual ERP BCI, Int J Bioelectromagnetism, 13(3):119-120, 2011.

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Michael Tangermann, Johannes Höhne, Martijn Schreuder, Max Sagebaum, Benjamin Blankertz, Andrew Ramsay, Roderick Murray-Smith. Data Driven Neuroergonomic Optimization of BCI Stimuli, Proc. 5th Int. BCI Conf. Graz, p.160-163, Sept. 2011.

62. (full paper, **123 citations**)
Martijn Schreuder, Thomas Rost, **Michael Tangermann**. Listen, you are writing! Speeding up online spelling with a dynamic auditory BCI, Frontiers Neuroscience, vol 5:p112, doi:10.3389/fnins.2011.00112, 2011.

63. (full paper, **115 citations**)
Johannes Höhne, Martijn Schreuder, Benjamin Blankertz, and **Michael Tangermann**. A novel 9-class auditory ERP paradigm driving a predictive text entry system, Frontiers Neuroprosthetics, vol 5:p99, doi:10.3389/fnins.2011.00099, (open access), 2011.

64. (peer reviewed conference paper)
Melissa Quek, Daniel Boland, John Williamson, Roderick Murray-Smith, Michele Tavella, Serafeim Perdikis, Martijn Schreuder, **Michael Tangermann**. Simulating the feel of brain-computer interfaces for design, development and social interaction. Proceedings of the 2011 annual conference on Human factors in computing systems (CHI '11), p.25--28, 2011.

65. (peer reviewed conference paper)
Sven Dähne, Johannes Höhne, **Michael Tangermann**. Adaptive Classification Improves Control Performance in ERP-Based BCIs, Proc. 5th Int. BCI Conf. Graz, p.92-95, Sept. 2011.

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Johannes Höhne, Martijn Schreuder, Benjamin Blankertz, Klaus-Robert Müller, **Michael Tangermann**. Novel Paradigms for Auditory ERP Spellers with Spatial Hearing: Two Online Studies. Int J Bioelectromagnetism, 13(2):96-97, 2011.

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72. (peer-rev. short paper/extended abstract)
Gernot R. Müller-Putz, Christian Breitwieser, **Michael Tangermann**, Martijn Schreuder, Michele Tavella, Robert Leeb, Febo Cincotti, Francesco Leotta, Christa Neuper. TOBI hybrid BCI: principle of a new assistive method. Int J Bioelectromagnetism, 13(3):144-145, 2011.

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Michael Tangermann, Irene Winkler, Stefan Haufe, and Benjamin Blankertz. Classification of artifactual ICA components. Int J Bioelectromagnetism, 11(2):110-114, 2009.

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