

Peer Reviewed Publications

Ovchinnikova, A., Jaumann, R., Walter, S. H. G., **Gross, C.**, Zuschneid, W., Postberg, F. (2026) Influence of the western inlet on the northern delta in Jezero crater, Mars: Topographic-compositional analysis and sediment transport modeling. *Icarus*, 445, 116840, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2025.116840>.

Bishop, J.L., Meusburger, J.M., Weitz, C.M., Parente, M., **Gross, C.**, Talla, D., Saranathan, A. M., Itoh, Y., Gruendler, M.R.D., Howells, A.E.G., Yeşilbaş, M., Hiroi, T., Schmitt, B., Maturilli, A., Al-Samir, M., Bristow, T.F., Lafuente, B., Wildner, M. (2025) Characterization of Ferric Hydroxysulfate on Mars and Implications of the Geochemical Environment Supporting its Formation. *Nature communications*, 16, 7020. <https://doi.org/10.1038/s41467-025-61801-2>

Ovchinnikova, A., Jaumann, R., Walter, S. H. G., **Gross, C.**, Zuschneid, W., Postberg, F. (2025). A modeling approach for water and sediment transport in Jezero crater on Mars based on new geomorphological evidence. *Icarus*, 426, 116349, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2024.116349>

Gross, C., Al-Samir, M., Bishop, J.L., Poulet, F., Postberg, F., Schubert, D. (2024). Prospecting in-situ resources for future crewed missions to Mars. *Acta Astronautica*, Volume 223, Pages 15-24, ISSN 0094-5765, <https://doi.org/10.1016/j.actaastro.2024.07.003>

Jaumann, R., Tirsch, D., Adeli, S., Bahia, R., Michael, G., le Deit, L., Grau Galofre, A., Head, J., Bohacek, E., **Gross, C.**, Walter, S. G. H., & Hiesinger, H. (2024). Geological Record of Water and Wind Processes on Mars as Observed by the Mars Express High Resolution Stereo Camera. *Space Science Reviews*, 220(4), 45. <https://doi.org/10.1007/s11214-024-01076-z>

Wilk, K. A., Bishop, J. L., Weitz, C. M., Parente, M., Saranathan, A. M., Itoh, Y., **Gross, C.**, Flahaut, J., & Seelos, F. (2024). Characterization of aqueous alteration and formation of salty exposures at Ius Chasma, Mars. *Icarus*, 408, 115800. <https://doi.org/https://doi.org/10.1016/j.icarus.2023.115800>

Bishop, J. L., **Gross C.**, Danielsen, J., Parente, M., Murchie, S. L., Horgan, B., Wray, J. J., Viviano, C., Ehlmann, B. L., Seelos, F. P. (2020). Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. *10.1016/j.icarus.2020.113634*

Poulet, F., **Gross, C.**, Horgan, B., Loizeau, D., Bishop, J. L., Carter, J., Orgel, C. (2020). Mawrth Vallis, Mars: a fascinating place for future in situ exploration - *Astrobiology* –Volume 20, Issue 2. <https://doi.org/10.1089/ast.2019.2074>

Bishop, J. L., Fairén, A. G., Michalski, J. R., Gago-Duport, L., Baker, L. L., Velbel, M. A., **Gross, C.**, and Rampe, E. B. (2018) Surface clay formation during short-term warmer and wetter conditions on a largely cold ancient Mars. *Nature Astronomy*, v. 2, p. 206-213

Al-Samir, M., Nabhan, S., Fritz, J., Winkler, A., Bishop, J. L., **Gross, C.**, Jaumann, R. (2017). The paleolacustrine evolution of Juventae Chasma and Maja Valles and its implications for the formation of interior layered deposits on Mars. *Icarus*, Available online 27 December 2016, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2016.12.023>

Michael, G.G., Walter, S.H.G., Kneissl, T., Zuschneid, W., **Gross, C.**, McGuire, P.C., Dumke, A., Schreiner, B., van Gasselt, S., Gwinner, K., Jaumann, R. (2016). Systematic processing of Mars Express HRSC panchromatic and colour image mosaics: Image equalisation using an external brightness reference. *Planetary and Space Science* 121; 18-26

Noel, A., Bishop, J.L., Al-Samir, M., **Gross, C.**, J. Flahaut, McGuire, P.C., Seelos, F., Weitz, C., Murchie, S. (2015). "Mineralogy, Morphology and Stratigraphy of the Light-Toned Interior Layered Deposits at Juventae Chasma". *Icarus*, doi:10.1016/j.icarus.2014.09.033

Cull, S., McGuire, P., **Gross, C.**, Meyers, J., Shmorhun, N. (2014). A new type of jarosite deposit on Mars: Evidence for past glaciation in Valles Marineris? *Geology*, Volume 42, no. 11, Pages 1-4

McGuire, P.C., Bonnici, A., Bruner, K.R., **Gross, C.**, Ormö, J., Smosna, R.A., Walter, S. and Wendt, L. (2014). The Cyborg Astrobiologist: Matching of Prior Textures by Image Compression for Geological Mapping and Novelty Detection. *International Journal of Astrobiology* 13 (3): 191–202 (2014), doi:10.1017/S147355041300037

Dohm, J. M., Miyamoto, H., Ori, G. G., Fairén, A. G., Davila, A. F., Komatsu, G., Mahaney, W. C., Williams, J.-P., Joye, S. B., Di Achille, G., Oehler, D. Z., Marzo, G. A., Schulze Makuch, D., Acocella, V., Glamoclija, M., Pondrelli, M., Boston, P., Hart, K. M., Anderson, R. C., Baker, V. R., Fink, W., Kelleher, B. P., Furfaro, R., **Gross, C.**, Hare, T. M., Frazer, A. R., Ip, F., Allen, C. C. R., Kim, K. J., Maruyama, S., McGuire, P. C., Netoff, D., Parnell, J., Wendt, L., Wheelock, S. J., Steele, A., Hancock, R. G. V., Havics, R. A., Costa, P., and Krinsley, D. (2011). An inventory of potentially habitable environments on Mars: Geological and biological perspectives. *Analogs for Planetary Exploration: Geological Society of America Special Paper 483*, Pages 317–347, doi:10.1130/2011.2483 (21)

Kneissl, T., van Gasselt, S., Wendt, L., **Gross, C.** and Neukum, G. (2011). Layering and degradation of the Rupes Tenuis unit, Mars – a structural analysis south of Chasma Boreale. *Geological Society, London, Special Publications 2011*, v. 356, p. 257-279

Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A., **Gross, C.**, Wendt, L. (2011). Assessing Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes. *Icarus*, Volume 214, Pages 240-245

Wendt, L., **Gross, C.**, Kneissl, T., Sowe, M., Combe, J.-P., LeDeit, L., McGuire, P.C., Neukum, G. (2011). Sulfates and iron oxides in Ophir Chasma, Mars, based on OMEGA and CRISM observations. *Icarus*, Volume 213, Pages 86-103

Davila, A., **Gross, C.**, Marzo, G.A., Fairén, A.G., Kneissl, T., McKay, C.P., Dohm, J.M. (2011). A large sedimentary basin in the Terra Sirenum region of the southern highlands of Mars. *Icarus*, Volume 212, Pages 579-589

Foing, B.H., Stoker, C., Zavaleta, J., Ehrenfreund, P., Thiel, C., Sarrazin, P., Blake, D., Page, J., Pletser, V., Hendrikse, J., Direito, S., Kotler, M., Martins, Z., Orzechowska, G., **Gross, C.**, Wendt, L., Clarke, J., Borst, A.M., Peters, S.T.M., Wilhelm, M.-B., Davies, G.R. and ILEWG EuroGeoMars 2009 Team. (2011). Field astrobiology research in Moon–Mars analogue environment: instruments and methods. *International Journal of Astrobiology*, Cambridge University Press, doi: 10.1017/S1473550411000036

Marzo, G.A., Davila, A.F., Tornabene, L.L., Dohm, J.M., Fairén, A.G., **Gross, C.**, Kneissl, T., Bishop, J.L., Roush, T.L. and McKay, C.P. (2010). Evidence for Hesperian impact-induced Hydrothermalism on Mars. *Icarus*, Volume 208, Pages 667-683

McGuire, P.C., **Gross, C.**, Wendt, L., Bonnici, A., Souza-Egipsy, V., Ormö, J., Díaz-Martínez, E., Foing, B.H., Bose, R., Walter, S., Oesker, M., Ontrup, J., Haschke, R. and Ritter, H. (2010). The Cyborg Astrobiologist: testing a novelty detection algorithm on two mobile exploration systems at Rivas Vaciamadrid in Spain and at the Mars Desert Research Station in Utah. *International Journal of Astrobiology*, 9: 11-27 Cambridge University Press doi:10.1017/S1473550409990358

Fairén, A. G., Chevrier, V., Abramov, O., Marzo, G. A., Gavin, P., Davila, A. F., Tornabene, L. L., Bishop, J. L., Roush, T. L., **Gross, C.**, Kneissl, T., Uceda, E., Dohm, J. M., Schulze-Makuch, D., Rodriguez, A., Amils, R., McKay, C. P. (2010). Phyllosilicates in Impact Craters on Mars: Pre- and Post-Impact Genesis. *PNAS – Proceedings of the National Academy of Sciences of the United States of America*, Issue 2010-07-06

Book Chapters

Chatzitheodoridis, E., Clerc, P., Kereszturi, A., Mason, N., Persson, E., Possnig, C., Poulet, L., Puumala, M., Sivula, O., Brucato, J. R., Cesari, L., Detrell, G., Ditych, O., Fornaro, T., Gonçalves, B., **Gross, C.**, Hedlund, M., Hofmann, M., Krassakis, A., ... Tracht, K. (2024). Towards Permanent Settlements on Mars (from 1000 to 100,000 People). In C. Verseux, M. Gargaud, K. Lehto, & M. Viso (Eds.), *Mars and the Earthlings: A Realistic View on Mars Exploration and Settlement* (pp. 253–339). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-66881-4_8

Siljeström, S., Baatout, S., de Vera, J.-P., Dehant, V., Freissinet, C., **Gross, C.**, Lee, N. M., Mangold, N., Noack, L., Plesa, A.-C., Rivoldini, A., & ten Kate, I. L. (2024). Mars in Short: Past and Present Geology and Climate. In C. Verseux, M. Gargaud, K. Lehto, & M. Viso (Eds.), *Mars and the Earthlings: A Realistic View on Mars Exploration and Settlement* (pp. 5–50). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-66881-4_2

Conference Abstracts

Gross, C., Borchert, A., Walter, S.H.G., Postberg, F. (2026) Assessing the ISRU Potential of the Hematite Spherule Deposits at Meridiani Planum, Mars. 57th Lunar and Planetary Science Conference, Abstract # 1412

Bishop J.L., Gruendler K.E.W., Yeşilbaş M., Parente M., Saranathan A.M., Itoh Y., Schmitt B., Beck P., Poch O., **Gross C.**, Gruendler M.R.D., Weitz C.M. & Mandon L. (2026) Applying Low-Temperature Lab Spectra of Sulfates to Characterizing the Sulfate Mounds at Juventae Chasma. 57th Lunar and Planetary Science Conference, Abstract #1199

Bishop J. L., Gruendler K. E. W., Tjan G. C., Parente M., Saranathan A. M., Itoh Y., **Gross C.**, McNeil J. D. & Gruendler M. R. D. (2026) Geochemical Transitions of Phyllosilicate-Carbonate-Sulfate-Assemblages at the Martian Dichotomy Boundary from Mawrth Vallis to Oxia Planum 57th Lunar and Planetary Science Conference, Abstract #1181

Ovchinnikova, A., Jaumann, R., Walter, S.H.G., **Gross, C.**, Zuschneid, W., and Postberg, F. (2025) Exploring the connection of the Northern and the Western Deltas in Jezero Crater on Mars, EPSC-DPS Joint Meeting 2025, Helsinki, Finland, 7–12 Sep 2025, EPSC-DPS2025-795, <https://doi.org/10.5194/epsc-dps2025-795>, 2025.

Gross, C., Al-Samir, M., Bishop, J. L., Poulet, F., Postberg, F., Schubert, D. and Walter, S.H.G. (2025) Reconnaissance of In-Situ Resources for Future Crewed Missions to Mars. 56th Lunar and Planetary Science Conference, Abstract # 1889

Munteanu, R.R.C., Walter, S.H.G., **Gross, C.**, Aye, K.-M., Jaumann, R., Postberg, F. (2025) Towards a Modular Framework for Advanced Planetary WebGIS Applications. 56th Lunar and Planetary Science Conference, Abstract # 2092

Gross, C., Al-Samir, M., Bishop, J. L., Poulet, F., Postberg, F., Schubert, D. (2024). Resource Reconnaissance for Future Crewed Missions to Mars. Europlanet Science Congress 2024, held 8-13 September, 2024 at Freie Universität, Berlin, Germany. Online at <https://www.epsc2024.eu/>, id. EPSC2024-807

Ovchinnikova, A., Jaumann, R., Walter, S. H. G., **Gross, C.**, Zuschneid, W., Postberg, F. (2024). Water and Sediment Transport Processes in Jezero Crater. Europlanet Science Congress 2024, held 8-13 September, 2024 at Freie Universität, Berlin, Germany. Online at <https://www.epsc2024.eu/>, id. EPSC2024-748

Bishop, J. L., Meusburger, J. M., Talla, D., Weitz, C. M., Parente, M., **Gross, C.**, Saranathan, A. M., Itho, Y., Gruendler, M. R. D., Howells, A., Yeşilbaş, M., Hiroi, T., Schmitt, B., Maturilli, A., Al-Samir, M., Bristow, F., Lafuente, B. and Wildner, M. (2024). Characterizing the New Mineral FeSO₄OH on Mars and Describing its Geochemical History and Association with Other Sulfates. Europlanet Science Congress 2024, held 8-13 September, 2024 at Freie Universität, Berlin, Germany. Online at <https://www.epsc2024.eu/>, id. EPSC2024-289

Bishop, J. L., Weitz, C. M., Parente, M., **Gross, C.**, Saranathan, A. M., Itho, Y., Meusburger, J. M., Gruendler, M. R. D., Talla, D., Howells, A. (2024). Characterizing Fe Hydroxysulfate at Aram Chaos and the Juventae Chasma Plateau to Constrain the Geochemical History of Mars. Tenth International Conference on Mars, held 22-25 July, 2024 in Pasadena, California and Virtually. LPI Contribution No. 3007, 2024, id.3428

Weitz, C. M., Bishop, J. L., Parente, M., Itho, Y., Saranathan, A., Al-Samir, M., **Gross, C.** (2024). Analyses of the Sulfates Within Juventae Chasma Using New CRISM Processing Techniques. Tenth International Conference on Mars, held 22-25 July, 2024 in Pasadena, California and Virtually. LPI Contribution No. 3007, 2024, id.3356

Bishop, J. L., Weitz, C. M., Parente, M., **Gross, C.**, Saranathan, A. M., Itho, Y., Meusburger, J. M., Gruendler, M. R. D., Al-Samir, M. (2024). Investigating Sulfate Alteration on the Juventae Chasma Plateau to Reconstruct the Ancient Geochemical History. 55th Lunar and Planetary Science Conference, Abstract # 3040

Bishop, J. L., Gruendler, K. E. W., Parente, M., Saranathan, A. M., **Gross, C.** (2023). Investigating the Diversity of Phyllosilicates and Sulfates at Mawrth Vallis, Mars and the Implications for Changing Environmental Conditions. 55th Annual Meeting of the Division for Planetary Sciences, id. 217.06. *Bulletin of the American Astronomical Society*, Vol. 55, No. 8 e-id 2023n8i217p06

Gruendler, K. E. W., Bishop, J. L., Parente, M., Saranathan, A. M., **Gross, C.** (2023). Characterization of Moist Environments at Mawrth Vallis, Mars Through Comparison with Volcanic Alteration on the Island of Kauai. 55th Annual Meeting of the Division for Planetary Sciences, id. 212.02. *Bulletin of the American Astronomical Society*, Vol. 55, No. 8 e-id 2023n8i212p02

Schreiner, B. P., **Gross, C.**, Jaumann, R., Neesemann, A., Walter, S. H. G. (2023). Virtual Reality: Visualisation of Mars Image Data from HRSC, CTX and HiRISE for Public Outreach and Research. 54th Lunar and Planetary Science Conference, Abstract # 2806

Gross, C., Munteanu, R. R. C., Walter, S. H. G., Patemann, L., Schreiner, B., Jaumann, R., HRSC/Mars Express Teams. (2023). 20 Years of High Resolution Stereo Camera Image Releases of ESA's Mars Express Mission. 54th Lunar and Planetary Science Conference, Abstract # 1951

Bishop, J. L., Parente, M., Saranathan, A. M., **Gross, C.**, Itho, Y., Elwood Madden, M. E. (2023). Diverse Phyllosilicate Assemblages in the Mawrth Vallis Channel. 54th Lunar and Planetary Science Conference, Abstract # 1913

Walter, S. H. G., **Gross, C.**, Neesemann, A., Munteanu, R., Jaumann, R., Postberg, F., Bell, J. (2022). An Interactive Virtual Hiking Map for Jezero Crater, the Mars 2020 Perseverance Rover Landing Site. *European Planetary Science Congress (EPSC), Grenada, Spain, 18-23 September*, <https://doi.org/10.5194/epsc2022-32>

Schreiner, B. P., **Gross, C.**, Neesemann, A., Walter, S. H. G., Postberg, F. (2022). Virtual Reality: Visualisation of Mars HRSC Image Data for Public Outreach and Research. *53rd Lunar and Planetary Science Conference, Abstract #1921*

Gross, C., Al-Samir, M., Bishop, J. L., Poulet, F., Schubert, D., Zabel, P. (2022). Prospecting In-Situ Resources for Future Manned Missions to Mars. *53rd Lunar and Planetary Science Conference, Abstract #1946*

Walter, S. H. G., Neu, D., **Gross, C.**, Neesemann, A., Balthasar, H., Jaumann, R., Postberg, F. (2022). An Interactive Virtual Hiking Map for the Mars 2020 Perseverance Landing Site, Jezero Crater. *53rd Lunar and Planetary Science Conference, Abstract #1921*

Bishop, J. L., Parente, M., Saranathan, A. M., Itho, Y., **Gross, C.** (2021). The Clay Sulfate Transition at Mawrth Vallis and Implications for Changes in the Geochemical Environment and Climate. *AGU Fall Meeting, New Orleans, LA, Abstract P24A-09*

Al-Samir, M., **Gross, C.**, Schubert, D. (2021). A Plausible Formation Model for the Maja Valles Outflow Channel System. *52nd Lunar and Planetary Science Conference, Abstract #1491*

Bishop, J. L., Weitz, C. M., Parente, M., **Gross, C.**, Saranathan, A. M., Itho, Y., Al-Samir, M. (2021). Correlating Sulfates with the Aqueous Geochemical History at Juventae Chasma, Mars. *52nd Lunar and Planetary Science Conference, Abstract #1082*

Gross, C., Balthasar, H., Dumke, A., Neu, D., Schreiner, B., Walter, S., Jaumann, R. (2021). Looking Back to 17 Successful Years of High Resolution Stereo Camera Image Release of ESA's Mars Express Mission. *52nd Lunar and Planetary Science Conference, Abstract #1480*

Neesemann, A., Walter, S. H. G., **Gross, C.**, Jaumann, R., Gwinner, K., Michael, G. G., Schreiner, B. P., Zuschneid, W., Neu, D., Balthasar, H., Raberhge, C., Riedel, C., Kersten, E., Tirsch, D. (2021). High-Precision Topographic Map of the Mars 2020 Landing Site as Part of the MC-13E Syrtis Major Quadrangle Digital Terrain Model. *52nd Lunar and Planetary Science Conference, Abstract #2509*

Wilk, K. A., Bishop, J. L., Itho, Y., Saranathan, A. M., Parente, M., Weitz, C. M., Flahaut, J., **Gross, C.**, Seelos, F. (2021). Characterizing Unusual Deposits at Ius Chasma, Mars. *52nd Lunar and Planetary Science Conference, Abstract #1322*

Gross, C., Bishop, J. L. (2020). Tracking Layered Deposits Across the Dichotomy Boundary into the Northern Lowlands of Mars. *51th Lunar and Planetary Science Conference, Abstract # 2278*

Ehrlich, J., **Gross, C.** (2020). Morphological Mapping of Becquerel Crater, Mars and Comparison of Light-Toned Layered Deposit Formation Theories. *51th Lunar and Planetary Science Conference, Abstract # 1988*

Bishop, J. L., **Gross, C.**, Danielsen, J., Perrin, S., Miura, J., Usabal, G., Sessa, A., Wray, J. (2019). Multiple Mineral Horizons at Mawrth Vallis, Mars, Represent Changing Environmental Conditions. *EPSC-DPS Joint Meeting, id. EPSC-DPS2019-1175*

Weitz, C. M., Bishop, J. L., Flahaut, J., **Gross, C.**, Saranathan, A. M., Itho, Y., and Parente, M. (2019). Evidence for Hesperian Acidic Alteration in Ius Chasma. *Ninth International Conference on Mars, LPI Contribution # 2089, id.6240*

Bishop, J. L., Weitz, C. M., Flahaut, J., **Gross, C.**, Saranathan, A. M., Danielsen, J. M., Usabal, G. S., Miura, J. K., Itho, Y., and Parente, M. (2019). Salty Residues on Mars Mark Changing Geochemical Environments. *Ninth International Conference on Mars, LPI Contribution # 2089, id.6148*

Gross, C., Bishop, J. L., Carter, J., Horgan, B., Loizeau, D., Orgel, C., and Poulet, F. (2019). Investigating Fractured Phyllosilicate-Rich Deposits at Mawrth-Vallis, Mars. *50th Lunar and Planetary Science Conference, Abstract # 1517*

Musiol, S., Balthasar, H., Dumke, A., **Gross, C.**, Michael, G., Neu, D., Schreiner, B., and Jaumann, R. (2019). 15 Years High Resolution Stereo Camera Observations with ESA's Mars Express Mission. *50th Lunar and Planetary Science Conference, Abstract # 1537*

Schreiner, B. P., Neu, D., Musiol, S., Balthasar, H., Dumke, A., **Gross, C.**, and Michael, G. G. (2019). HRSC on Mars Express - Image Mosaicking for Public Outreach: Korolev Crater. *50th Lunar and Planetary Science Conference, Abstract # 2735*

Michael, G. G., Walter, S. H., Zuschneid, W., **Gross, C.**, Schreiner, B., and Gwinner, K. (2019). Brightness Equalization for Mars Images as Applied to HRSC Image Mosaics. *4th Planetary Data Workshop - Flagstaff, Arizona. LPI Contribution # 2151, id.7058*

Bishop, J. L., Wray, J. J., Sessa, A. M., Danielson, J. M., Ehlmann, B. L., Murchie, S. L., Horgan, B., **Gross, C.**, Parente, M., and Seelos, F. P. (2018). Evidence of Salty Residues in Layered Outcrops at Mawrth Vallis and Implications for Evaporative Environments on Early Mars. *49th Lunar and Planetary Science Conference, Abstract # 1117*

Gross, C., Orgel, C., Poulet, F., Carter, J., Horgan, B., and Bishop, J. L. (2018). ExoMars 2020 — High Priority Science Targets Within the Mawrth Vallis Candidate Landing Site. *49th Lunar and Planetary Science Conference, Abstract # 1405*

Hiesinger, H., Bernhardt, H., Reiss, D., Tirsch, D., Jaumann, R., Hauber, E., Head, J. W., Michael, G., Williams, D. A., Bishop, J. L., Poulet, F., Muller, J.-P., **Gross, C.**, Gwinner, K., Adeli, S., and Fanara, L. (2018). Absolute Model Ages and Stratigraphy of Neukum Crater Geologic Units, *49th Lunar and Planetary Science Conference, Abstract # 2001*

Musiol, S., Balthasar, H., Dumke, A., **Gross, C.**, Neu, D., Schreiner, B., and Jaumann, R. (2018). 15 years of fascinating Mars press images and movies from the High Resolution Stereo Camera on Mars Express, prepared at Freie Universität Berlin. *European Planetary Science Congress, EPSC2018-329*

Hiesinger, H., Bernhardt, H., Reiss, D., Tirsch, D., Jaumann, R., Hauber, E., Head, J. W., Michael, G., Williams, D. A., Bishop, J. L., Poulet, F., Muller, J. P., **Gross, C.**, Gwinner, K., Adeli, S., and Fanara, L., Neukum Crater in Noachis Terra, Mars (2018). Absolute Model Ages and Stratigraphy. *Proceedings EGU General Assembly Conference, Volume 20, p.13328*

Tirsch, D., Jaumann, R., Adeli, S., Bernhardt, H., Bishop, J. L., Fanara, L., **Gross, C.**, Gwinner, K., Hauber, E., Head, J. W., Hiesinger, H., Michael, G., Muller, J.-P., Poulet, F., Reiss, D., Williams, D. A., Pinet, P., Foing, B., and McCord, T. (2018). The Complex Geomorphology of Neukum Crater on Mars. *Proceedings EGU General Assembly Conference, Volume 20, p. 1959*

Bishop, J. L., Fairén, A. G., Michalski, J. R., Gago-Duport, L., Baker, L. L., Velbel, M. A., **Gross, C.**, and Rampe, E. B. (2017). Diverse Early Aqueous Environments and Climate on Mars Revealed by the Phyllosilicate Record. *Proceedings Fourth International Conference on Early Mars: Geologic, Hydrologic, and Climatic Evolution and the Implications for Life, Volume 2014, Abstract # 3030*

Bishop, J. L., Baker, L., Fairén, A. G., Michalski, J. R., Gago-Duport, L., Velbel, M. A., Gross, C., and Rampe, E. B. (2017). Implications of Martian Phyllosilicate Formation Conditions to the Early Climate on Mars. *AGU Fall Meeting Abstracts, Abstract # P31F-04.*

Gross, C., Carter, J., Poulet, F., Loizeau, D., Bishop, J.L., Horgan, B., Michalski, J. (2017). Mawrth Vallis – An auspicious destination for the ESA and NASA 2020 landers. *48th Lunar and Planetary Science Conference, Abstract # 2194*

Bishop, J.L., Baker, L.L., Fairen, A.G., **Gross, C.**, Velbel, M.A., Rampe, E.B., Michalski, J.R. (2017). Unraveling the diversity of early aqueous environments and climate on Mars through the phyllosilicate record. *48th Lunar and Planetary Science Conference, Abstract # 1804*

Bishop, J.L., **Gross, C.**, Tirsch, D., Tornabene, L.L., Carter, J., Erkeling, G. (2016). Impacts on Mars: Excavation and/or Hydrothermal Alteration. *79th Annual Meeting of the Meteoritical Society, Abstract # 6462*

Gross, C., Poulet, F., Michalski, J., Horgan, B., Bishop, J.L. (2016). Mawrth Vallis – Proposed Landing Site for EXOMARS 2018/2020. *47th Lunar and Planetary Science Conference, Abstract # 1421*

Weitz, C.M., Bishop, J.L., Tornabene, L.L., Mest, S.C., Grant, J.A., **Gross, C.**, Rodriguez, J.A.P. (2016). Disrupted Hydrated Deposits in Southeastern Noctis Labyrinthus: Possible Displaced Subsurface Materials From Oudemans Crater? *47th Lunar and Planetary Science Conference, Abstract # 1610*

McGuire, P.C., Audouard, J., Dunker, **Gross, C.**, Kneissl, T., Michael, G., Ody, A., Poulet, F., Schreiner, B., van Gasselt, S., Walter, S.H.G., Wendt, L., Zuschneid, W. (2016). True- and False-Color HRSC+OMEGA Image Mosaics of Mars. *47th Lunar and Planetary Science Conference, Abstract # 1031*

Bishop, J.L., **Gross, C.**, Rampe, E.B., Wray, J.J., Parente, M., Horgan, B., Loizeau, D., Viviano-Beck, C.E., Clark, R.N., Seelos, F.P., Ehlmann, B.L., Murchie, S.L. (2016). Mineralogy of Layered Outcrops at Mawrth Vallis and Implications for Early Aqueous Geochemistry on Mars. *47th Lunar and Planetary Science Conference, Abstract # 1332*

Gross, C., Bishop, J. L., Maturilli, A., D'Amore, M., Helbert, J. (2015). A Hydrothermally Altered, Mn-incrusted Sediment as an Analogue for Martian Deposits? *AGU Fall Meeting, San Francisco, Calif., Abstract P31A-2039*

Horgan, B., Loizeau, D., Poulet, F., Bishop, J., Noe Dobrea, E. Z., Farrand, W., Michalski, J., **Gross, C.**, Kleinhenz, J., Linne, D. (2015). Habitable Noachian Environments and Abundant Resources in the Mawrth Vallis Exploration Zone. *First Landing Site/Exploration Zone Workshop for Human Missions to the Surface of Mars, 27-30 October 2015, Houston, Texas. LPI Contribution No. 1879, p.1009*

Bishop, J. L., **Gross, C.**, Parente, M., Wray, J., Horgan, B., Viviano-Beck, C., Seelos, F. (2015). The transition from neutral to acidic alteration at Mawrth Vallis as observed from the mineralogical record. *2015 GSA Annual Meeting, Baltimore, Maryland, 1-4 November, Abstract # 260648*

Bishop, J. L., **Gross, C.** (2015). Bentonite composition and stratigraphy at Mawrth Vallis, Mars. *Euroclay and The Clay Minerals Society 52nd Annual Meeting, Edinburgh, Scotland, 5-7 July, Abstract # 314*

Michael, G., Walter, S., McGuire, P., Kneissl, T., van Gasselt, S., **Gross, C.**, Schreiner, B., Zuschneid, W. (2015). Systematic Processing of Mars Express HRSC Image Mosaic Quadrangles. *European Geosciences Union General Assembly, Vienna; Geophysical Research Abstracts, Vol. 17, EGU2015-6956*

Gross, C., Carter, J., Tornabene, L. L., Sowe, M., Bishop, J. L. (2015). Stratified Phyllosilicate-bearing Deposits within Impact Craters in the Northern Plains of Mars. *46th Lunar and Planetary Science Conference, Abstract # 1817*

Bishop, J. L., **Gross, C.**, Wray, J. J., Horgan, B., Viviano-Beck, C. E., Seelos, F. P. (2015). Acid Alteration at Mawrth Vallis between the older Fe/Mg-rich Clays and the younger Al/Si-rich Clays. *46th Lunar and Planetary Science Conference, Abstract # 1455*

Michael, G., Walter, S., McGuire, P., Kneissl, T., van Gasselt, S., **Gross, C.**, Schreiner, B., Zuschneid, W. (2015). Systematic Processing of Mars Express HRSC Image Mosaic Quadrangles. *46th Lunar and Planetary Science Conference, Abstract # 2387*

McGuire, P.C., Walter, S.H.G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Wendt, L., Audouard, J., Ody A., Poulet, F. (2015). Color HRSC+OMEGA Image Mosaics of Mars. *46th Lunar and Planetary Science Conference, Abstract # 1404*

Gross, C., Carter, J., Tornabene, L. L., Sowe, M., Bishop, J. L. (2014). Excavation of Stratified Phyllosilicate-Bearing Rocks in the Northern Plains of Mars. *AGU Fall Meeting, San Francisco, Calif., Abstract P41A-3884*

Bishop, J. L., Flahaut, J., Weitz, C. M., **Gross, C.**, Parente, Horgan, B. H. N. (2014). Acidic Alteration Environments on Mars and Implications for Habitability. *AGU Fall Meeting, San Francisco, Calif., Abstract P41A-3885*

Bishop, J. L., Horgan, B., Wray, J. J., Loizeau, D., **Gross, C.**, McGuire, P. C., Parente, M., Seelos, F., Viviano-Beck, C. and Murchie, S. L. (2014). Composition and Stratigraphy of Acidic Components at Mawrth Vallis, Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 694*

McGuire, P. C., Walter, S. H. G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Michael, G., Wendt, L., Audouard, J., Ody, A. and Poulet, F. (2014). Global Hybrid HRSC+OMEGA Image Mosaics of Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 414*

Gross, C., Carter, J., Sowe, M., Bishop, J. L. (2014). Excavation of Altered Sediments in the Northern Plains of Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 365*

Gross, C., Carter, J., Sowe, M., Bishop, J. L. (2014). Uplifted Sediments in the Northern Plains of Mars? *Eighth International Conference on Mars, July 14-18 2014, Pasadena, California. Abstract # 1116*

McGuire, P. C., Walter, S. H. G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Michael, G., Wendt, L., Audouard, J., Ody, A. and Poulet, F. (2014). Global HRSC Image Mosaics of Mars: Dodging for High-Pass Filtering, Combined with Low-Pass-Filtered OMEGA Mosaics. *Eighth International Conference on Mars, July 14-18 2014, Pasadena, California. Abstract # 1118*

Gross, C., Noel, A., Bishop, J.L., Al-Samir, M., J. Flahaut, McGuire, P.C., Seelos, F., Weitz, C., Murchie, S. (2014). Investigating the Mineralogy, Morphology and Stratigraphy of Mound B in Juventae Chasma, Mars using Multiple Datasets. *45th Lunar and Planetary Science Conference, Abstract # 1918*

McGuire, P.C., Walter, S.H.G., van Gasselt, S., Dumke, A., **Gross, C.**, Michael, G., Wendt, L. (2014). Towards automated/global color mosaicking of MEx/HRSC images of Mars. *45th Lunar and Planetary Science Conference, Abstract # 1899*

Cull, S., McGuire, P.C., **Gross, C.**, Dumke, A. (2013). Stratigraphic mapping of hydrated phases in Western Ius Chasma, Mars. *AGU Fall Meeting, San Francisco, Calif., Abstract P23F-1844*

Gross, C., Sowe, M. (2013). Soffen Crater in the Terra Cimmeria Region of Mars. *44th Lunar and Planetary Science Conference, Abstract # 2470*

Gross, C., Airo, A., Al-Samir, M., Sowe, M., Nabhan, S., Bishop, J. L., van Gasselt, S. (2013). Martian Crater-Lake Environments and their Potential Range of Biological Deposits. *44th Lunar and Planetary Science Conference, Abstract # 2452*

McGuire, P. C., Arvidson, R. E., Bishop, J. L., Brown, A. J., Cull, S., Green, R. O., **Gross, C.**, Hash, C. D., Hauber, E., Humm, D. C., Jaumann, R., LeDeit, L., Malaret, E. R., Martin, T. Z., Marzo, G. A., Morgan, M. F., Murchie, S. L., Mustard, J. F., Neukum, G., Parente, M., Platz, T., Roush, T. L., Seelos, F. P., Seelos, K. D., Smith, M. D., Sowe, M., Tirsch, D., Walter, S., Wendt, L., Wiseman, S. M., Wolff, M. J. (2013). Mapping Minerals on Mars with CRISM: Atmospheric and Photometric Correction for MRDR Map Tiles, Version 2, and Comparison to OMEGA. *44th Lunar and Planetary Science Conference, Abstract # 1581*

Al-Samir, M., Bishop, J. L., Flahaut, J., Kneissl, T., van Gasselt, S., **Gross, C.**, Jaumann, R. (2012). Formation and evolution of ILDs in Juventae Chasma and implications from fractures at mound B. *AGU Fall Meeting, San Francisco, Calif., Abstract # P11E-1864*

Sowe, M., **Gross, C.**, Walter, S., Bishop, J. L., Ramsey, M., Al-Samir, M. (2012). The Peruvian Pisco Formation as analogy for layered sulphate deposits on Mars. *3rd Conference on Terrestrial Mars Analogues, 25-27 October 2012, Marrakech, Morocco*

Gross, C., Sowe, M., Wendt, L., Bishop, J. L., Fairén, A. G. (2012). Phyllosilicates in Bamberg Crater, Mars. *43rd Lunar and Planetary Science Conference, Abstract # 2356*

Gross, C., Wendt, L., Combe, J.-Ph., Jodlowski, P., Marzo, G. A., Roush, T. L., McCord, T., Halbach, P., Neukum, G. (2012). Investigating the Phyllosilicate Bearing Micoud Crater in the Northern Plains of Mars. *43rd Lunar and Planetary Science Conference, Abstract # 1795*

Al-Samir, M., van Berk, W., Kneissl, T., van Gasselt, S., **Gross, C.**, Wendt, L., Jaumann, R. (2012). A Model Scenario for Kieserite-Dominated Evaporites in Juventae Chasma, Mars. *43rd Lunar and Planetary Science Conference, Abstract # 2453*

Wendt, L., **C. Gross**, T. Kneissl, M. Sowe, J.-Ph. Combe, L. Le Deit, P. C. McGuire and G. Neukum (2011). Sulfates and Iron Oxides in Ophir Chasma, Mars, *GRSG and OGEO workshop at ESA/ESRIN, Frascati, Italy, from the 7th to the 9th of December 2011*

Gross, C., Wendt, L., Combe, J.-Ph., Jodlowski, P., Marzo, G.A., Roush, T.L., McCord, T., Halbach, P., Neukum, G. (2011). Investigation on a Phyllosilicate-Bearing Crater in the Northern Plains of Mars. *42nd Lunar and Planetary Science Conference, Abstract # 1875*

Jodlowski, P., **Gross, C.**, Wendt, L., Halbach, P., Neukum, G. (2011). Geologic/Geomorphologic Mapping of a Complex Impact Crater in the Northern Plains of Mars. *42nd Lunar and Planetary Science Conference, Abstract # 1899*

Wendt, L., **Gross, C.**, Kneissl, T., Sowe, M., Combe, J.-P., LeDeit, L., McGuire, P.C., Neukum, G. (2011). Sulfates and iron oxides in Ophir Chasma, Mars, based on OMEGA and CRISM observations. *European Geosciences Union General Assembly, Vienna; Geophysical Research Abstracts, Vol. 13, EGU2011-7364*

Wendt, L., **Gross, C.**, Kneissl, T., Sowe, M., Combe, J.-P., LeDeit, L., McGuire, P.C., Neukum, G. (2011). Mineralogy and Stratigraphy of Sulfates and Ferric Oxides in Ophir Chasma, Mars. *42nd Lunar and Planetary Science Conference, Abstract # 1775*

Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A., **Gross, C.**, Wendt, L. (2011). Assessing Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes. *42nd Lunar and Planetary Science Conference, Abstract # 1181*

Bonnici, A., **Gross, C.**, McGuire, P.C., Ormö, J., Walter, S., Wendt, L. (2010). The Cyborg Astrobiologist: Compressing Images for the Matching of Prior Textures and for the Detection of Novel Textures. *European Planetary Science Congress 2010 Vol. 5, EPSC2010-162*

Boche-Sauvan, L., Foing, B. H., Stoker, C., Ehrenfreund, P., Wendt, L., **Gross, C.**, Thiel, C., Peters, S., Borst, A., Zavaleta, J., Sarrazin, P., Blake, D., Page, J., Pletser, V., Monaghan, E., Mahapatra, P., Noroozi, A., Giannopoulos, P., Calzada, A., Walker, R., Zegers, T., Exogeolab, ILEWG Exohab Team, Eurogeomars Team (2010). ILEWG ExoHab & EuroGeo-Mars Campaigns: Habitability & Human Operations. *41st Lunar and Planetary Science Conference, Abstract # 1759*

Borst, A., Peters, S., Foing, B. H., Stoker, C., Wendt, L., **Gross, C.**, Zavaleta, J., Sarrazin, P., Blake, D., Ehrenfreund, P., Boche-Sauvan, L., Page, J., McKay, C., Batenburg, P., Drijkoningen, G., Slob, E., Poulakis, P., Visentin, G., Noroozi, A., Gill, E., Guglielmi, M., Freire, M., Walker, R., Sabbatini, M., Pletser, V., Monaghan, E., Ernst, R., Oosthoek, J., Mahapatra, P., Wills, D., Thiel, C., Lebreton, J. P., Zegers, T., Chicarro, A., Koschny, D., Vago, J., Svedhem, H., Davies, G., Westenberg, A., Edwards, J., Exogeolab Team, Eurogeomars Team (2010). Geochemical Results from EuroGeoMars MDRS Utah 2009 Campaign. *41st Lunar and Planetary Science Conference, Abstract # 2744*

Ehrenfreund, P., Foing, B. H., Stoker, C., Zavaleta, J., Quinn, R., Blake, D., Martins, Z., Sephton, M., Becker, L., Orzechowska, G., van Sluis, C., Boche-Sauvan, L., **Gross, C.**, Thiel, C., Wendt, L., Sarrazin, P., Mahapatra, P., Direito, S., Røling, W., Eurogeo-mars MDRS Team (2010). EuroGeoMars Field Campaign: Sample Analysis of Organic Matter and Minerals. *41st Lunar and Planetary Science Conference, Abstract # 1723*

Hendrikse, J., Foing, B. H., Monaghan, E., Stoker, C., Zavaleta, J., Selch, F., Ehrenfreund, P., Wendt, L., **Gross, C.**, Thiel, C., Peters, S., Borst, A., Sarrazin, P., Blake, D., Boche-Sauvan, L., Page, J., Pletser, V., Mahapatra, P., Wills, D., McKay, C., Davies, G., van Westrenen, W., Batenburg, P., Drijkoningen, G., Slob, E., Poulakis, P., Visentin, G., Noroozi, A., Gill, E., Guglielmi, M., Freire, M., Walker, R., Exogeolab Team, Eurogeomars Team (2010). Highlights from Remote Controlled Rover for EuroGeoMars MDRS Campaign. *41st Lunar and Planetary Science Conference, Abstract # 2435*

Fairen, A. G., Chevrier, V., Abramov, O., Marzo, G. A., Gavin, P., Davila, A. F., **Gross, C.**, Kneissl, T., Roush, T. L., Bishop, J. L., Tornabene, L. L., Dohm, J. M., Rodriguez, J. A. P., Schulze-Makuch, D., McKay, C. P. (2010). Toro Crater: First Evidence for Hesperian Phyllosilicates on Mars. *41st Lunar and Planetary Science Conference, Abstract # 2683*

Wendt, L.; **Gross, C.**; Kneissl, T.; Sowe, M.; Combe, J.-P.; Le Deit, L.; McGuire, P. C.; Neukum, G. (2010). Sulfates and Iron Oxides in Ophir Chasma, Mars. *41st Lunar and Planetary Science Conference, Abstract # 1699*

McGuire, P.C., Arvidson, R.E., Bishop, J.L., Brown, A.J., Cull, S., Green, R.O., **Gross, C.**, Hash, C.D., Hauber, E., Humm, D.C., Jaumann, R., Le Deit, L., Malaret, E.R., Martin, T.Z., Marzo, G.A., Morgan, M.F., Murchie, S.L., Mustard, J.F., Neukum, G., Parente, M., Platz, T., Roush, T.L., Seelos, F.P., Seelos, K.D., Smith, M.D., SOWE, M., Tirsch, D., Walter, S. Wendt, L., Wiseman, S.M., Wolff, M.J. (2010). Mapping Minerals on Mars with CRISM: Atmospheric, Thermal, and Photometric Correction for MRDR Map Tiles and Comparison to OMEGA. *EPSC 5, Rome, Italy, September 20-25, 2010, Abstract #163*

Fairén, A. G., Marzo, G. A., Chevrier, V., Gavin, P., Davila, A. F., **Gross, C.**, Kneissl, T., Roush, T. L., Bishop, J. L., Dohm, J. M., Tornabene, L. L., McKay, C. P. (2010). Toro Crater: The Case for Hesperian Phyllosilicates on Mars. *Astrobiology Science Conference 2010: Evolution and Life: Surviving Catastrophes and Extremes on Earth and Beyond, LPI Contribution No. 1538, p.5588*

Foing, B. H., Stoker, C., Zhavaleta, J., Ehrenfreund, P., Quinn, R., Blake, D., Martins, Z., Sephton, M., Becker, L., Orzechowska, G., van Sluis, C., Boche-Sauban, L., **Gross, C.**, Thiel, C., Wendt, L., Sarrazin, P., Mahapatra, P., Direito, S., Roling, W., EuroGeoMars MDRS Team (2010). Eurogeomars Field Campaign: Sample Analysis of Organic Matter and Minerals. *Astrobiology Science Conference 2010: Evolution and Life: Surviving Catastrophes and Extremes on Earth and Beyond, LPI Contribution No. 1538, p.5656*

Foing, B. H.; Boche-Sauvan, L.; Stoker, C.; Ehrenfreund, P.; Wendt, L.; **Gross, C.**; Thiel, C.; Peters, S.; Borst, A.; Zhavaleta, J.; Sarrazin, P.; Blake, D.; Page, J.; Pletser, V.; Monaghan, E.; Mahapatra, P.; Wills, D.; Noroozi, A.; Walker, R.; Zegers, T.; Exogeolab; Exohab Team; Eurogeomars Team (2010). ExoHab and EuroGeoMars Campaigns: Human Exploration and Astrobiology. *Astrobiology Science Conference 2010: Evolution and Life: Surviving Catastrophes and Extremes on Earth and Beyond, LPI Contribution No. 1538, p.5625*

Foing, B. H.; Mahapatra, P.; Boche-Sauvan, L.; Som, S.; Page, J.; Stoker, C.; Zhavaleta, J.; Sarrazin, P.; Blake, D.; Poulakis, P.; Visentin, G.; Noroozi, A.; Ehrenfreund, P.; Barton, A.; Lebreton, J. P.; Zegers, T.; Koschny, D.; Peters, S.; Borst, A.; Monaghan, E.; Wills, D.; Thiel, C.; Wendt, L.; **Gross, C.**; Nijman, F.; Pletser, V.; McKay, C.; Davies, G.; van Westrenen, W.; Batenburg, P.; Drijkoningen, G.; Slob, E.; Gill, E.; Guglielmi, M.; Freire, M.; Walker, R.; Exogeolab Team (2010). ExoGeoLab Test Bench for Landers, Rovers and Astrobiology Instruments. *Astrobiology Science Conference 2010: Evolution and Life: Surviving Catastrophes and Extremes on Earth and Beyond, LPI Contribution No. 1538, p.5477*

Ehrenfreund, Pascale, Foing, B. H., Stoker, C., Zhavaleta, J., Orzechowska, G., Kotler, M., Martins, Z., Sephton, M., Becker, L., Quinn, R., van Sluis, C., Boche-Sauvan, L., **Gross, C.**, Thiel, C., Wendt, L., Sarrazin, P., Mahapatra, P., Direito, S., Roling, W. (2010). EuroGeoMars Field Campaign: habitability studies in preparation for future Mars missions. 38th COSPAR Scientific Assembly. Held 18-15 July 2010, in Bremen, Germany. Symposium F, session 34, paper number F34-0013-10, 2010cosp...38.3299E

Gross, C., Wendt, L., McGuire P.C. (2009). The Cyborg Astrobiologist: Teaching Computers to Find Uncommon or Novel Areas of Geological Scenery in Real-time. Test and Results from Crew 77, MDRS 2009. European Space Agency - ExoGeoLab-ExoHab-Eurogeomars Workshop ESTEC, Noordwijk, The Netherlands, 2-3 April 2009

Wendt, L., **Gross, C.** (2009) Raman Studies at the Mars Desert Research Station. European Space Agency - ExoGeoLab-ExoHab-Eurogeomars Workshop ESTEC, Noordwijk, The Netherlands, 2-3 April 2009

Borst, A., Peters, S., **Gross, C.**, Wendt, L., Sarrazin, P. (2009). InXitu Terra XRD/XRF Campaign Results. European Space Agency - ExoGeoLab-ExoHab-Eurogeomars Workshop ESTEC, Noordwijk, The Netherlands, 2-3 April 2009

Wendt, L., **Gross, C.**, McGuire, P.C., Bonnici, A., Foing, B.H., Souza-Egipsy, Bose, R., Walter, S., V., Ormö, J., Díaz-Martínez, E., Oesker, M., Ontrup, J., Haschke, R. and Ritter, H. (2009). The Cyborg Astrobiologist: Teaching Computers to Find Uncommon or Novel Areas of Geological Scenery in Real-time. *European Space Agency – 43rd ESLAB Symposium – International Conference on Comparative Planetology: Venus – Earth – Mars, ESTEC, Noordwijk, The Netherlands, 11-15 May 2009*

Kneissl, T., **Gross, C.** (2009). GIS-Anwendungen für planetare Oberflächen am Beispiel Mars. 15. *Deutschsprachige ESRI Anwenderkonferenz, Bregenz.*

Gross, C., Wendt, L., Dumke, A. and Neukum, G. (2009). Episodic Floodings at Maja Valles and Juventae Chasma. *European Planetary Science Congress, Vol. 4, EPSC2009-555*

Gross, C., Wendt, L., Dumke, A. and Neukum, G. (2009). Further Evidence for Multiple Flooding Events at Juventae Chasma and Maja Valles, Mars. *40th Lunar and Planetary Science Conference, Abstract # 1890*

Wendt, L., **Gross, C.**, McGuire P.C., Combe, J.-P., Neukum G. (2009). Analysis of Juventae Chasma Sulfate mound B using the Multiple-Endmember Linear Spectral Unmixing Model (MELSUM) on CRISM Data. *40th Lunar and Planetary Science Conference, Abstract # 1531*

Gross, C., Wendt, L., Dumke, A. and Neukum, G. (2009). Juventae Chasma and Maja Valles, Mars: Further Evidence for Multiple Flooding Events. *European Geosciences Union General Assembly, Vienna; Geophysical Research Abstracts, Vol. 11, EGU2009-8854*

Wendt, L., **Gross, C.**, McGuire P.C., Combe, J.-P., Neukum, G. (2009). Analyzing CRISM Data from mound B in Juventae Chasma, Mars, with the Multiple-Endmember Linear Spectral Unmixing Model MELSUM. *European Geosciences Union General Assembly, Vienna; Geophysical Research Abstracts, Vol. 11, EGU2009-9211*