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## Publications

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### 2021

Baars, H., Radenz, M., Floutsis, A. A., Engelmann, R., Althausen, D., Heese, B., Ansmann, A., Flamant, T., Dabas, A., Trapon, D., Reitebuch, O., Bley, S., Wandinger, U.

Californian wildfire smoke over Europe: A first example of the aerosol observing capabilities of Aeolus compared to ground-based lidar

Geophys. Res. Lett., **48**, e2020GL092194

doi:10.1029/2020GL092194

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Escribano, J., Di Tomaso, E., Jorba, O., Klose, M., Ageitos, M. G., Macchia, F., Amiridis, V., Baars, H., Marinou, E., Proestakis, E., Urbanneck, C., Althausen, D., Bühl, J., Mamouri, R.-E., García-Pando, C. P.

Assimilating spaceborne lidar dust extinction improves dust forecasts

Atmos. Chem. Phys. Discuss., In review , ISBN: 1680-7324

doi:10.5194/acp-2021-442

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Rogozovsky, I., Ansmann, A., Althausen, D., Heese, B., Engelmann, R., Hofer, J., Baars, H., Schechner, Y., Lyapustin, A., Chudnovsky, A.

Impact of aerosol layering, complex aerosol mixing, and cloud coverage on high-resolution MAIAC aerosol optical depth measurements: Fusion of lidar, AERONET, satellite, and ground-based measurements

Atmos. Environ., **247**, 118163 , ISBN: 1352-2310

doi:10.1016/j.atmosenv.2020.118163

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### 2020

Gausa, M., Hanssen, I., Papayannis, A., Kokkalis, P., Mylonaki, M., Comeron, A., Muñoz-Porcar, C., Zenteno, A., García-Vizcaíno, D., Rocadenbosch, F., Pietruczuk, A., Szkop, A., Podgorski, J., Posyniak, M., Bortoli, D., Costa, M. J., Salgueiro, V., Pereira, S., Preissler, J., Kulkarni, P. S., Silva, A. M., Potes, M., Alados Arboledas, L., Granados Muñoz, M. J., Ortiz Amezcua, P., de Jerónimo Alvarez, J. A., Bravo Aranda, J. A., Guerrero Rascado, J. L., Guzman, F. N., Pantaleón, D. B., Jiménez Martín, M., Mattis, I., Mueller, G., Wagner, F., Nicolae, D., Belegante, L., Binietoglou, I., Nemuc, A., Talianu, C., Komppula, M., Filioglou, M., Giannakaki, E., Shang, X., Baars, H., Engelmann, R., Althausen, D., Basharova, E., Floutsis, A., Haarig, M., Heese, B., Jimenez, C., Radenz, M., Wandinger, U., Goloub, P., Podvin, T., Hu, Q., Chaikovskiy, A., Haefele, A., Martucci, G., Navas, F., Brunamonti, S., Amodeo, A., Mona, L., Pappalardo, G., Giunta, A., Dema, C., D'Amico, G., Mytilinaios, M., Amato, F., Papagiannopoulos, N., Ciamprone, S., Freville, P., Sellegri, K., Chauvigne, A., Baray, J.-L., Montoux, N., Eswaran, K., Dionisi, D., Liberti, G. L., Cardillo, F., Collella, S., Di Paolantonio, M., Perrone, M. R., Quarta, G., Calcagnile, L., Romano, S., Burlizzi, P., De Tomasi, F., Maruccio, G., Stoyanov, D., Valkova, L., Grigorov, I., Dreischuh, T. N., Kolarov, G., Deleva, A., Balis, D., Michailidis, K., Siomos, N., Voudouri, K.

ACTRIS Aerosol Remote Sensing COVID-19 campaign data of May 2020

ACTRIS ARES Data Centre

doi:10.21336/gen.xmbc-tj86

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Gausa, M., Hanssen, I., Papayannis, A., Kokkalis, P., Mylonaki, M., Comeron, A., Muñoz-Porcar, C., Zenteno, A., García-Vizcaíno, D., Rocadenbosch, F., Pietruczuk, A., Szkop, A., Podgorski, J., Posyniak, M., Bortoli, D., Costa, M. J., Salgueiro, V., Pereira, S., Preissler, J., Kulkarni, P. S., Silva, A. M., Potes, M., Alados Arboledas, L., Granados Muñoz, M. J., Ortiz Amezcua, P., de Jerónimo Alvarez, J. A., Bravo Aranda, J. A., Guerrero Rascado, J. L., Guzman, F. N., Pantaleón, D. B., Jiménez Martín, M., Mattis, I., Mueller, G., Wagner, F., Nicolae, D., Belegante, L., Binietoglou, I., Nemuc, A., Talianu, C., Komppula, M., Filioglou, M., Giannakaki, E., Shang, X., Baars, H., Engelmann, R., Althausen, D., Basharova, E., Floutsis, A., Haarig, M., Heese, B., Jimenez, C., Radenz, M., Wandinger, U., Goloub, P., Podvin, T., Hu, Q., Chaikovskiy, A., Haefele, A., Martucci, G., Navas, F., Brunamonti, S., Amodeo, A., Mona, L., Pappalardo, G., Giunta, A., Dema, C., D'Amico, G., Mytilinaios, M., Amato, F., Papagiannopoulos, N., Ciamprone, S., Freville, P., Sellegri, K., Chauvigne, A., Baray, J.-L., Montoux, N., Eswaran, K., Dionisi, D., Liberti, G. L., Cardillo, F., Collella, S., Di Paolantonio, M., Perrone, M. R., Quarta, G., Calcagnile, L., Romano, S., Burlizzi, P., De Tomasi, F., Maruccio, G., Stoyanov, D., Valkova, L., Grigorov, I., Dreischuh, T. N., Kolarov, G., Deleva, A., Balis, D., Michailidis, K., Siomos, N., Voudouri, K.

ACTRIS Aerosol Remote Sensing Data during the COVID-19 pandemic

Hofer, J., Ansmann, A., Althausen, D., Engelmann, R., Baars, H., Abdullaev, S. F., Makhmudov, A. N.

Long-term profiling of aerosol light extinction, particle mass, cloud condensation nuclei, and ice-nucleating particle concentration over Dushanbe, Tajikistan, in Central Asia

Atmos. Chem. Phys., **20**, 4695-4711

doi:10.5194/acp-20-4695-2020

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Hofer, J., Ansmann, A., Althausen, D., Engelmann, R., Baars, H., Fomba, K. W., Wandinger, U., Abdullaev, S. F., Makhmudov, A. N.

Optical properties of Central Asian aerosol relevant for spaceborne lidar applications and aerosol typing at 355 and 532 nm

Atmos. Chem. Phys., **20**, 9265-9280

doi:10.5194/acp-20-9265-2020

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Atmosphere, **11**, 269 (16 pp.)

doi:10.3390/atmos11030269

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Dust mass, cloud condensation nuclei, and ice-nucleating particle profiling with polarization lidar: Updated POLIPHON conversion factors from global AERONET analysis

Atmos. Meas. Tech., **12**, 4849-4865

doi:10.5194/amt-12-4849-2019

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Baars, H., Ansmann, A., Ohneiser, K., Haarig, M., Engelmann, R., Althausen, D., Hanssen, I., Gausa, M., Pietruczuk, A., Szkop, A., Stachlewska, I. S., Wang, D., Reichardt, J., Skupin, A., Mattis, I., Trickl, T., Vogelmann, H., Navas-Guzmán, F., Haefele, A., Acheson, K., Ruth, A. A., Tatarov, B., Müller, D., Hu, Q., Podvin, T., Goloub, P., Veselovskii, I., Pietras, C., Haeffelin, M., Fréville, P., Sicard, M., Comerón, A., Fernández García, A. J., Molero Menéndez, F., Córdoba-Jabonero, C., Guerrero-Rascado, J. L., Alados-Arboledas, L., Bortoli, D., Costa, M. J., Dionisi, D., Liberti, G. L., Wang, X., Sannino, A., Papagiannopoulos, N., Boselli, A., Mona, L., D'Amico, G., Romano, S., Perrone, M. R., Belegante, L., Nicolae, D., Grigorov, I., Gialitaki, A., Amiridis, V., Soupiona, O., Papayannis, A., Mamouri, R.-E., Nisantzi, A., Heese, B., Hofer, J., Schechner, Y. Y., Wandinger, U., Pappalardo, G.

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Atmos. Chem. Phys., **19**, 15183–15198

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Atmos. Chem. Phys., **19**, 14571–14583

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Atmos. Meas. Tech., **11**, 2735-2748

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Atmos. Chem. Phys., **18**, 11847-11861

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Remote Sens., **10**, 412-439

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Atmos. Chem. Phys., **17**, 14199-14217

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Atmos. Chem. Phys., **17**, 10767-10794

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Atmos. Chem. Phys., **17**, 6679-6691

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Atmos. Chem. Phys., **17**, 14559-14577

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Atmos. Meas. Tech., **9**, 1767-1784

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Gefahrst. Reinhalt. L., **75**, 235-240

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Atmos. Meas. Tech., **8**, 5237-5249

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J. Geophys. Res. - Atmos., **119**, 2496-2510

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Atmos. Meas. Tech., **7**, 2061-2072

doi:10.5194/amt-7-2061-2014

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Aerosol & Clouds (Aerosol & Wolken): 2014 -

Remote Sensing (Fernerkundung): 2014 -

Physics (Physik): - 2013

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