

Main Papers in Refereed Journals

1. **Maier, C.**, Hayashi, M., Ziegler, B. L., & Kodama, T., *Cluster induced quenching of galaxies in the massive cluster XMMXCSJ2215.9-1738 at $z \sim 1.5$ traced by enhanced metallicities inside half $R200$* , 2019b, *Astronomy and Astrophysics*, 626, A14, 10.1051/0004-6361/201935522
2. **Maier, C.**, Ziegler, B. L., Haines, C. P., & Smith, G. P., *Slow-then-rapid quenching as traced by tentative evidence for enhanced metallicities of cluster galaxies at $z \sim 0.2$ in the slow quenching phase*, 2019a, *Astronomy and Astrophysics*, 621, A131, 10.1051/0004-6361/201834290
3. **Maier, C.**, Kuchner, U., Ziegler, B. L., Verdugo, M., Balestra, I., Girardi, M., Mercurio, A., Rosati, P., Fritz, A., Grillo, C., Nonino, M., & Sartoris, B., *CLASH-VLT: Strangulation of cluster galaxies in MACSJ0416.1-2403 as seen by their chemical enrichment*, 2016, *Astronomy and Astrophysics*, 590, A108, 10.1051/0004-6361/201628223
4. **Maier, C.**, Ziegler, B. L., Lilly, S. J., Contini, T., Pérez-Montero, E., Lamareille, F., Bolzonella, M., & Le Floch, E., *Mass-metallicity relation of z COSMOS galaxies at $z \sim 0.7$, its dependence on star formation rate, and the existence of massive low-metallicity galaxies*, 2015, *Astronomy and Astrophysics*, 577, A14, 10.1051/0004-6361/201425224
5. **Maier, C.**, Lilly, S. J., Ziegler, B. L., Contini, T., Pérez-Montero, E., Peng, Y., & Balestra, I., *The Mass-Metallicity and Fundamental Metallicity Relations at $z > 2$ Using Very Large Telescope and Subaru Near-infrared Spectroscopy of z COSMOS Galaxies*, 2014, *The Astrophysical Journal*, 792, 3, 10.1088/0004-637X/792/1/3
6. Kewley, L. J., **Maier, C.**, Yabe, K., Ohta, K., Akiyama, M., Dopita, M. A., & Yuan, T., *The Cosmic BPT Diagram: Confronting Theory with Observations*, 2013, *The Astrophysical Journal*, 774, L10, 10.1088/2041-8205/774/1/L10
7. Pérez-Montero, E., Contini, T., Lamareille, F., **Maier, C.**, Carollo, C. M., Kneib, J.-P., Le Fèvre, O., Lilly, S., Mainieri, V., Renzini, A., Scodreggio, M., Zamorani, G., Bardelli, S., Bolzonella, M., Bongiorno, A., Caputi, K., Cucciati, O., de la Torre, S., de Ravel, L., Franzetti, P., et al., *The cosmic evolution of oxygen and nitrogen abundances in star-forming galaxies over the past 10 Gyr*, 2013, *Astronomy and Astrophysics*, 549, A25, 10.1051/0004-6361/201220070
8. Peng, Y.-j., Lilly, S. J., Kovač, K., Bolzonella, M., Pozzetti, L., Renzini, A., Zamorani, G., Ilbert, O., Knobel, C., Iovino, A., **Maier, C.**, Cucciati, O., Tasca, L., Carollo, C. M., Silverman, J., Kampczyk, P., de Ravel, L., Sanders, D., Scoville, N., Contini, T., Mainieri, V., Scodreggio, et al., *Mass and Environment as Drivers of Galaxy Evolution in SDSS and*

zCOSMOS and the Origin of the Schechter Function, 2010, *The Astrophysical Journal*, 721, 193, 10.1088/0004-637X/721/1/193

9. **Maier, C.**, Lilly, S. J., Zamorani, G., Scodreggio, M., Lamareille, F., Contini, T., Sargent, M. T., Scarlata, C., Oesch, P., Carollo, C. M., Le Fèvre, O., Renzini, A., Kneib, J.-P., Mainieri, V., Bardelli, S., Bolzonella, M., Bongiorno, A., Caputi, K., Coppa, G., Cucciati, O., et al., *The Dependence of Star Formation Activity on Stellar Mass Surface Density and Sersic Index in zCOSMOS Galaxies at $0.5 < z < 0.9$ Compared with SDSS Galaxies at $0.04 < z < 0.08$* , 2009, *The Astrophysical Journal*, 694, 1099, 10.1088/0004-637X/694/2/1099

10. Lilly, S. J., Le Brun, V., **Maier, C.**, Mainieri, V., Mignoli, M., Scodreggio, M., Zamorani, G., Carollo, M., Contini, T., Kneib, J.-P., Le Fèvre, O., Renzini, A., Bardelli, S., Bolzonella, M., Bongiorno, A., Caputi, K., Coppa, G., Cucciati, O., de la Torre, S., de Ravel, L., et al., *The zCOSMOS 10k-Bright Spectroscopic Sample*, 2009, *The Astrophysical Journal Supplement Series*, 184, 218, 10.1088/0067-0049/184/2/218

11. Silverman, J. D., Lamareille, F., **Maier, C.**, Lilly, S. J., Mainieri, V., Brusa, M., Cappelluti, N., Hasinger, G., Zamorani, G., Scodreggio, M., Bolzonella, M., Contini, T., Carollo, C. M., Jahnke, K., Kneib, J.-P., Le Fèvre, O., Merloni, A., Bardelli, S., Bongiorno, A., Brunner, H., et al., *Ongoing and Co-Evolving Star Formation in zCOSMOS Galaxies Hosting Active Galactic Nuclei*, 2009, *The Astrophysical Journal*, 696, 396, 10.1088/0004-637X/696/1/396

12. **Maier, C.**, Lilly, S. J., Carollo, C. M., Meisenheimer, K., Hippelein, H., & Stockton, A., *Oxygen Gas Abundances at $z \sim 1.4$: Implications for the Chemical Evolution History of Galaxies*, 2006, *The Astrophysical Journal*, 639, 858, 10.1086/499518

13. **Maier, C.**, Lilly, S. J., Carollo, C. M., Stockton, A., & Brodwin, M., *Near-Infrared Spectroscopy of $0.4 < z < 1.0$ CFRS Galaxies: Oxygen Abundances, SFRs, and Dust*, 2005, *The Astrophysical Journal*, 634, 849, 10.1086/497091

14. **Maier, C.**, Meisenheimer, K., & Hippelein, H., *The metallicity-luminosity relation at medium redshift based on faint CADIS emission line galaxies*, 2004, *Astronomy and Astrophysics*, 418, 475, 10.1051/0004-6361:20035795

15. **Maier, C.**, Meisenheimer, K., Thommes, E., Hippelein, H., Röser, H. J., Fried, J., von Kuhlmann, B., Phleps, S., & Wolf, C., *Constraints to the evolution of Ly-alpha bright galaxies between $z = 3$ and $z = 6$* , 2003, *Astronomy and Astrophysics*, 402, 79, 10.1051/0004-6361:20030265