

List of publications - Dr. V. Zamudio-Bayer

51. M. Flach, K. Hirsch, T. Gitzinger, M. Timm, M. da Silva Santos, O. S. Ablyasova, M. Kubin, B. von Issendorff, J. T. Lau, and **V. Zamudio-Bayer**, *Abrupt Change from Ionic to Covalent Bonding in Nickel Halides accompanied by Ligand Field Inversion* Inorg. Chem. 63, 11812 (2024).
50. J. Haitjema, S. Castellanos, O. Lugier, I. Bespalov, R. Lindblad, M. Timm, C. Bülow, **V. Zamudio-Bayer**, J. T. Lau, B. von Issendorff, R. Hoekstra, K. Witte, B. Watts, T. Schlathölter, and A.M. Brouwer, *Soft X-Ray Absorption and Fragmentation of Tin-oxo Cage Photore-sists* Phys. Chem. Chem. Phys. 26, 5986 (2024).
49. O. S. Ablyasova, **V. Zamudio-Bayer**, M. Flach, M. da Silva Santos, J. T. Lau, and K. Hirsch, *Direct Spectroscopic Evidence for the High-Spin State of Dioxidomanganese(V)* Phys. Chem. Chem. Phys. 26, 5830 (2024).
48. P.H.W. Svensson, L. Schwob, O. Grånäs, I. Unger, O. Björneholm, N. Timneanu, R. Lindblad, A.-L. Vieli, **V. Zamudio-Bayer**, M. Timm, K. Hirsch, C. Caleman, and M. Berholts, *Heavy Element Incorporation in Nitroimidazole Radiosensitizers: Molecular-Level Insights into Fragmentation Dynamics* Phys. Chem. Chem. Phys. 26, 770 (2024).
47. Y. Huo, S. K. Espinoza Cangahuala, **V. Zamudio-Bayer**, M. Goulart, M. Kubin, M. Timm, J. T. Lau, B. von Issendorff, R. Hoekstra, S. Faraji, and T. Schlathölter, *A comparative laboratory study of soft X-ray-induced ionization and fragmentation of five small PAH cations* Eur. Phys. J. D 77, 181 (2023).
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45. O. S. Ablyasova, M. Guo, **V. Zamudio-Bayer**, M. Kubin, T. Gitzinger, M. da Silva Santos, M. Flach, M. Timm, M. Lundberg, J. T. Lau, and K. Hirsch, *Electronic Structure of the Complete Series of Gas-Phase Manganese Acetylacetonates by X-ray Absorption Spectroscopy* J. Phys. Chem. A 127, 7121 (2023).
44. M. da Silva Santos, R. Medel, M. Flach, O. S. Ablyasova, M. Timm, B. von Issendorff, K. Hirsch, **V. Zamudio-Bayer**, S. Riedel, and J. T. Lau, *Exposing the Oxygen-Centered Radical Character of the Tetraoxido Ruthenium(VIII) Cation [RuO₄]⁺* ChemPhysChem e202300390 (2023).
43. **V. Zamudio-Bayer**, K. Hirsch, L. Ma, K. De Knijf, X. Xu, A. Lawicki, A. Terasaki, P. Ferrari, B. von Issendorff, P. Lievens, W. A. de Heer, J. T. Lau, and E. Janssens, *Magnetic nanodoping: Atomic control of spin states in cobalt doped silver clusters* Phys. Rev. Research 5, 033103 (2023).
42. Y. Huo, S. K. Espinoza Cangahuala, **V. Zamudio-Bayer**, M. Goulart, M. Kubin, M. Timm, J. T. Lau, B. von Issendorff, R. Hoekstra, S. Faraji, and T. Schlathölter, *An X-ray spectroscopy study of structural stability of superhydrogenated pyrene derivatives* Mon. Not. R. Astron. Soc. 523, 865 (2023).
41. M. Liu, D. O'Reilly, L. Schwob, X. Wang, **V. Zamudio-Bayer**, J. T. Lau, S. Bari, T. Schlathölter, and J.-C. Poully, *Direct observation of charge, energy and Hydrogen transfer between the backbone and nucleobases in isolated DNA oligonucleotides* Chem. Eur. J. e202211555 (2023).
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36. M. da Silva Santos, T. Stüker, M. Flach, O. S. Ablyasova, M. Timm, B. von Issendorff, K. Hirsch, **V. Zamudio-Bayer**, S. Riedel, and J. T. Lau, *The Highest Oxidation State of Rhodium: Rhodium(VII) in $[\text{RhO}_3]^+$*
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35. X. Wang, S. Rathnachalam, **V. Zamudio-Bayer**, K. Bijlsma, W. Li, R. Hoekstra, M. Kubin, M. Timm, B. von Issendorff, J. T. Lau, S. Faraji, and T. Schlathölter, *Intramolecular hydrogen transfer in DNA induced by site-selective resonant core excitation*
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34. G. Gopakumar, P. H. W. Svensson, B. Brena, L. Schwob, I. Unger, C.-M. Saak, M. Timm, C. Bülow, M. Kubin, **V. Zamudio-Bayer**, J. T. Lau, B. von Issendorff, A. R. Abid, A. Lindblad, E. Danielsson, E. Koerfer, C. Caleman, O. Björneholm, and R. Lindblad, *X-ray Induced Fragmentation of Protonated Cystine*
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26. R. Lindblad, L. Kjellsson, R. C. Couto, M. Timm, C. Bülow, **V. Zamudio-Bayer**, M. Lundberg, B. von Issendorff, J. T. Lau, S. L. Sorensen, V. Carravetta, H. Ågren, and J. -E. Rubensson, *X-ray Absorption Spectrum of the N₂⁺ Molecular Ion*
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