

Peer-reviewed Publications by Larry R. Nittler (September 10, 2026)

244. Kawasaki N., Nagashima K., Sakamoto N., Fujiya W., Arakawa S., Bajo K.-i., Kita N. T., Kitajima K., Krot A. N., Huss G. R., Abe Y., Aléon J., Alexander C. M. O'D., Amari S., Amelin Y., Bizzarro M., Bouvier A., Carlson R. W., Chaussidon M., Choi B.-G., Dauphas N., Davis A. M., Di Rocco T., Fukai R., Gautam I., Haba M. K., Hibiya Y., Hidaka H., Homma H., Iizuka T., Ireland T. R., Ishikawa A., Itoh S., Kleine T., Komatani S., Liu M.-C., Masuda Y., Motomura K., Moynier F., Nakai I., Nguyen A., **Nittler L.**, Pack A., Park C., Piani L., Qin L., Russell S. S., Schönbächler M., Terada K., Terada Y., Usui T., Wada S., Wadhwa M., Walker R. J., Yamashita K., Yin Q.-Z., Yokoyama T., Yoneda S., Young E. D., Yui H., Zhang A.-C., Nakamura T., Naraoka H., Noguchi T., Okazaki R., Sakamoto K., Yabuta H., Abe M., Miyazaki A., Nakato A., Nishimura M., Okada T., Yada T., Yogata K., Nakazawa S., Saiki T., Tanaka S., Terui F., Tsuda Y., Watanabe S.-i., Yoshikawa M., Tachibana S., and Yurimoto H. (2026) The parent bodies of Ryugu and Ivuna formed before those of other carbonaceous chondrites. *Science* 393(6816), 1117–1121.
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242. Williams P., Bose M., Hervig R. L., **Nittler L.**, and Williams L. B. (2025) “Canode”: A conical partially magnetic anode for efficient negative ion extraction from duoplasmatron ion sources. *Journal of Vacuum Science and Technology B*, **43**, 044005, <https://doi.org/10.1116/6.0004627>
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239. **Nittler L. R.** and Stroud R. M. (2025) Presolar oxide grains. In *Presolar grains in extra-terrestrial materials: Probing stars with stardust* (ed. S. Amari). Elsevier.
238. Burnett D. S., Jurewicz A. J. G., Woolum D. S., Guan Y., Heber V. S., Hervig R., Humayun M., McKeegan K. D., **Nittler L. R.**, Olinger C. T., Reisenfeld D. B., and Wang J. The solar

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237. Schönbächler M.+87 authors, including **Nittler L.**, (2024) Zirconium isotope composition indicate s-process depletion in samples returned from asteroid Ryugu *Meteoritics and Planetary Science*, **60**, 3-16, <https://doi.org/10.1111/maps.14279>
 236. De Gregorio B. +58 authors, including **Nittler L.**, (2024) Variations of organic functional chemistry in carbonaceous matter from the asteroid 162173 Ryugu. *Nature Communications* **15**, 7488, <https://doi.org/10.1038/s41467-024-51731-w>
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 231. Komatsu M. +55 authors, including **Nittler L.**, (2024) Raman spectroscopy of Ryugu particles and their extracted residues: Fluorescence background characteristics and similarities to CI chondrites. *Meteoritics & Planetary Science* **59**, 2166-2185, <https://doi.org/10.1111/maps.14234>
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 228. Mathurin J. +64 authors, including **Nittler L.**, (2024) AFM-IR nanospectroscopy of nanoglobule-like particles in Ryugu samples returned by the Hayabusa2 mission. *Astronomy and Astrophysics*, **684**, A198, <https://doi.org/10.1051/0004-6361/202347435>
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 223. Liu N., Alexander C. M. O'D., Meyer B. S., **Nittler L. R.**, Wang J., and Stroud R. M. (2024) Explosive nucleosynthesis in core-collapse Type II supernovae: Insights from new C, N, Si, and Al-Mg isotopic compositions of presolar grains. *Astrophysical Journal Letters*, **961**, L22, <https://doi.org/10.3847/2041-8213/ad18c7>
 222. Quirico E. +61 authors, including **Nittler L.**, (2023) Compositional heterogeneity of insoluble organic matter extracted from asteroid Ryugu samples. *Meteoritics & Planetary Science*, **59**, 1907-1924, <https://doi.org/10.1111/maps.14097>
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