



Corrigendum Notice: A corrigendum has been issued for this article and is included at the end of this document.

Post-Publication Notice

Corrigendum to “D. Sagatov, “Comparative analysis of copper X-radiation intensity with LiF and KBr crystals”, *tbusphys*, vol. 2, no. 1, p. 0007, Jan. 2024. doi: 10.54355/tbusphys/2.1.2024.0007”

In the originally published version of this article, the Methods section lacked detailed information about the experimental apparatus specifications, data acquisition process, and statistical analysis. The following corrections have been made:

1. Section 2 (Methods):

- The revised text now includes specific details of the experimental setup: manufacturer and model of the HUBER X-ray diffraction system, goniometer configuration, collimator aperture, scan parameters, and data acquisition software (SPEC Control Software).

- Additional details have been added on repeated measurements (triplicate readings), calculation of mean values, standard deviations, and propagation of error for wavelength and energy estimations.

- Statistical reliability criteria (<2% relative uncertainty) have been introduced to validate the results.

2. Minor textual clarifications were made to improve reproducibility and accuracy of the described procedure.

Additionally, the following references have been updated:

- “Fitted empirical reference cross sections for K-shell ionization by protons / H. Paul, J. Sacher // *Atomic Data and Nuclear Data Tables*. — 1989. — Vol. 42, No. 1. — P. 105–156” has been replaced with “Empirical K-shell ionization cross-sections of elements from 4Be to 92U by proton impact / A. Kahoul, M. Nekkab, B. Deghfel // *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms*. — 2008. — Vol. 266, No. 23. — P. 4969–4975. <https://doi.org/10.1016/j.nimb.2008.09.008>”;

- “Cross Sections for K-shell X-ray Production by Hydrogen and Helium Ions in Elements from Beryllium to Uranium / G. Lapicki // *Journal of Physical and Chemical Reference Data*. — 1989. — Vol. 18, No. 1. — P. 111–218. <https://doi.org/10.1063/1.555838>” have been replaced with “Feasibility study of thin films deposited on a self-supporting carbon grid substrate target on the measurement of atomic inner-shell ionization cross-sections impacted by 3-30 keV electrons / Z. C. Qian, Y. Wu, C. H. Chang, Y. Yuan, C. S. Mei, J. J. Zhu, K. Moharram // *EPL*. — 2017. — Vol. 118, No. 1. — Article number. 13001. <https://doi.org/10.1209/0295-5075/118/13001>”;

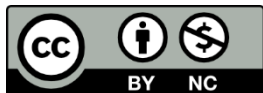
- “Energy-loss effect in inner-shell Coulomb ionization by heavy charged particles / W. Brandt, G. Lapicki // *Physical Review A*. — 1981. — Vol. 23, No. 4. — P. 1717–1729” have been replaced with “Theoretical models to calculate stopping and ionization ratios of H₂⁺ molecules in solid targets / C. D. Archubi, N. R. N. Arista // *Physical Review A*. — 2019. — Vol. 99, No. 3. — Article number 032702. <https://doi.org/10.1103/PhysRevA.99.032702>”;

- “Specific conductance of the molten LiF-KCl and LiF-KBr systems / C. Xu, G. Liu, N. Chen // *Jinshu Xuebao/Acta Metallurgica Sinica*. — 1984. — Vol. 20, No. 5. — P. b320–b322.” Have been replaced with “Phase Assemblage of the Li⁺, Na⁺, K⁺||F⁻, Cl⁻, Br⁻ Five-Component Reciprocal

System and Its LiF–KCl–KBr–NaBr–NaCl Stable Pentatope / A.V. Burchakov, I. K. Garkushin, U. A. Emel'yanova Russian Journal of Inorganic Chemistry. — 2023. — Vol. 68, No. 7. — P.889–897. <https://doi.org/10.1134/S003602362360082X>".

These amendments do not affect the scientific results, discussion, or conclusions of the paper but enhance methodological transparency.

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