



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

Post-Publication Notice

Corrigendum to “T. Beisenbayeva and A. Schmidt, “Experimental study of the influence of modified sulfur components on physical and mechanical characteristics of bitumen compositions”, tbusphys, vol. 1, no. 4, p. 0006, Oct. 2023. doi: 10.54355/tbusphys/1.4.2023.0006”

In the originally published version of this article, omissions were identified in the Methods section regarding the statistical analysis applied to the experimental data. The following corrections have been made:

1. Section 2 (Methods):

- The updated version explicitly states that all measurements were conducted in triplicate to ensure reliability.
- Details on the statistical analysis have been added, specifying the use of OriginPro 2023 and Python libraries (SciPy, NumPy) for calculating mean values, standard deviations, coefficients of variation, one-way ANOVA ($p < 0.05$), and linear regression analyses to assess the relationship between sulfur content and mechanical properties.

2. Minor textual clarifications were made to improve the reproducibility of the experimental procedure.

Additionally, the following references have been updated:

- “Modified binders: an underexploited road maintenance tool / T. Hoban // Highways Croydon. — 1987. — Vol. 55, No. 3. — P. 1926.” has been replaced with “The Modified Composite Binder for Cement-Concrete Road Surfaces / M.M. Kosukhin, A.M. Kosukhin // IOP Conference Series: Materials Science and Engineering. — 2018. — Vol. 463, No. 4. — Article number 042036. <https://doi.org/10.1088/1757-899X/463/4/042036>”;
- “Casting sulfur pipe / I. Bencowitz // Industrial and Engineering Chemistry. — 1938. — Vol. 30, No. 7. — P. 759–764” have been replaced with “Modification of Inclusions by Rare Earth Elements in a High-Strength Oil Casing Steel for Improved Sulfur Resistance / X. Jiang, G. Li, H. Tang, J. Liu, S. Cai, J. Zhang // Materials. — 2023. — Vol. 16, No. 2. — Article number 675. <https://doi.org/10.3390/ma16020675>”;
- “The manufacture of industrial carbons from petroleum raw materials / C.A. Stokes // Preprints. — 1975. — Vol. 20, No. 2. — P. 387.” have been replaced with “Evaluation research and development suggestion on the low-carbon transformation of regional industry: Take Quangan District as an example / H. Gan, Y. Jiang, H. Qi, H. Wuhong, Y. Cai // IOP Conference Series: Earth and Environmental Science. — 2020. — Vol. 467, No. 1. — Article number 012178. <https://doi.org/10.1088/1755-1315/467/1/012178>”;
- “Field evaluation of sulfur-extended asphalt pavements / T.L. Beatty, K. Dunn, E. Harrigan, K. Stuart, H. Weber // Transportation Research Record. — 1987. — Vol. 1115. P. 116–170.” have been replaced with “Field performance experience of Sulfur Extended Asphalt (SEA) pavement in Saudi Arabia / A. Alyami, L.S. Toyogon // Advances in Materials and Pavement Performance Prediction II - Contributions to the 2nd International Conference on Advances in Materials and Pavement

Performance Prediction, AM3P 2020. — 2020. — Article number 172260. <https://doi.org/10.1201/9781003027362-1>”;

– “The Infrared Spectra of Complex Molecules. — Berlin, Germany: Springer Dordrecht, 1980. — 300 p.” have been replaced with “A DFT study of infrared spectra and Monte Carlo predictions of the solvation shell of Praziquantel and β -cyclodextrin inclusion complex in liquid water / C.X. De Oliveira, N.S. Ferreira, G.V.S. Mota // Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy. — 2016. — Vol. 153. — P. 102–107. <https://doi.org/10.1016/j.saa.2015.08.011>”.

These amendments do not affect the scientific results, discussion, or conclusions of the paper. They are intended to enhance methodological transparency and data reliability.

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