

Errata

1. *Sensors and Materials* Vol. 36, No. 4(2) (2024)

Calculation of Photocatalyst Anatase TiO₂ (1 0 1)/g-C₃N₄ (0 0 1) Properties Using Density Functional Theory

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(1) On page 1351, the following sentence should be added to the last of Sect. 2.

"This research utilized the BURAI graphical user interface (GUI) software to build the simulation structures, and the calculations performed with the DFTB+ module produced results consistent with those obtained using the aforementioned commercial software.^(20, 21)"

(2) On page 1352, line 7 in Sect 2.2

The Heyd–Scuseria–Ernzerhof (HSE06) hybrid functional was used to construct the anatase TiO₂ and g-C₃N₄ models similar to previous reports,^(20–23) with energy band gap values of approximately 3.2 and 2.7 eV, respectively.

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(3) On page 1353, line 1

These results are consistent with previously reported studies on these two materials.^(20–23)

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(4) On page 1356, Refs. 20–25 should be:

References

- 20 BURAI — BURAI 1.3 documentation: <https://burai.readthedocs.io/en/latest/> (accessed July 30, 2023).
- 21 B. Hourahine, B. Aradi, V. Blum, F. Bonafé, A. Buccheri, C. Camacho, C. Cevallos, M. Y. Deshayé, T. Dumitrică, A. Dominguez, S. Ehlert, M. Elstner, T. van der Heide, J. Hermann, S. Irle, J. J. Kranz, C. Köhler, T. Kowalczyk, T. Kubař, I. S. Lee, V. Lutsker, R. J. Maurer, S. K. Min, I. Mitchell, C. Negre, T. A. Niehaus, A. M. N. Niklasson, A. J. Page, A. Pecchia, G. Penazzi, M. P. Persson, J. Řezáč, C. G. Sánchez, M. Sternberg, M. Stöhr, F. Stuckenberg, A. Tkatchenko, V. W.-z. Yu, and T. Frauenheim: *J. Chem. Phys.* **152** (2020) 124101. <https://doi.org/10.1063/1.5143190>
- 22 R. B. Rajput, S. N. Jamble, and R. B. Kale: *Engineered Science* **17** (2022) 176. <https://doi.org/10.30919/es8d534>
- 23 A. Sharma, P. Negi, R. J. Konwar, H. Kumar, Y. Verma, Shailja, P. C. Sati, B. Rajyaguru, H. Dadhich, N. A. Shah, and P. S. Solanki: *J. Mater. Sci. Technol.* **111** (2022) 287. <https://doi.org/10.1016/j.jmst.2021.09.014>
- 24 A. Hayat, A. G. Al-Sehemi, K. S. El-Nasser, T. A. Taha, A. A. Al-Ghamdi, J. A. S. Syed, M. A. Amin, T. Ali, T. Bashir, A. Palamanit, J. Khan, and W. I. Nawawi: *Int. J. Hydrogen Energy* **47** (2022) 5142. <https://doi.org/10.1016/j.ijhydene.2021.11.133>
- 25 S. Sahoo and R. Acharya: *Mater. Today Proc.* **35** (2021) 150. <https://doi.org/10.1016/j.matpr.2020.04.008>