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scientific reports

Published online: 22 March 2022

OPEN Author Correction: Improved device efficiency and lifetime of perovskite light-emitting diodes by size-controlled polyvinylpyrrolidone-capped gold nanoparticles with dipole formation

Chang Min Lee, Dong Hyun Choi, Amjad Islam, Dong Hyun Kim, Tae Wook Kim, Geon-Woo Jeong, Hyun Woo Cho, Min Jae Park, Syed Hamad Ullah Shah, Hyung Ju Chae, Kyoung-Ho Kim, Muhammad Sujak, Jae Woo Lee, Donghyun Kim, Chul Hoon Kim, Hyun Jae Lee, Tae-Sung Bae, Seung Min Yu, Jong Sung Jin, Yong-Cheol Kang, Juyun Park, Myungkwan Song, Chang-Su Kim, Sung Tae Shin & Seung Yoon Ryu

Correction to: Scientific Reports https://doi.org/10.1038/s41598-022-05935-z, published online 10 February 2022

The Acknowledgements section in the original version of this Article was incomplete.

"This research was supported by Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education (NRF-2014R1A6A1030732, 2019R1F1A1060687, 2019R1C1C1006681, 2020R1A2B5B01001580). This work was supported by "Human Resources Program in Energy Technology" of the Korea Institute of Energy Technology Evaluation and Planning (KETEP), granted financial resource from the Ministry of Trade, Industry & Energy, Republic of Korea (No. 20204030200070). We also acknowledge support from the fundamental research program (PNK8100) of the Korea Institute of Materials Science (KIMS). Also, this work was supported by the Technology Innovation Program (20010804, Development of solution type polarizing materials and thin film circular polarizer for flexible OLED applications thickness below 30 µm transmittance above 41% and polarization efficiency above 98%) funded By the Ministry of Trade, Industry & Energy (MOTIE, Korea). This research was supported by the BK21 FOUR (Fostering Outstanding Universities for Research) funded by the Ministry of Education (MOE, Korea) and National Research Foundation of Korea (NRF)."

now reads:

"This research was supported by Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education (NRF-2014R1A6A1030732, 2019R1F1A1060687, 2019R1C1C1006681, 2020R1A2B5B01001580). This work was supported by "Human Resources Program in Energy Technology" of the Korea Institute of Energy Technology Evaluation and Planning (KETEP), granted financial resource from the Ministry of Trade, Industry & Energy, Republic of Korea (No. 20204030200070). We also acknowledge support from the fundamental research program (PNK8100) of the Korea Institute of Materials Science (KIMS). Also, this work was supported by the Technology Innovation Program (20010804, Development of solution type polarizing materials and thin film circular polarizer for flexible OLED applications thickness below 30 µm transmittance above 41% and polarization efficiency above 98%) funded by the Ministry of Trade, Industry & Energy (MOTIE, Korea). This research was supported by the BK21 FOUR (Fostering Outstanding Universities for Research) funded by the Ministry of Education (MOE, Korea) and National Research Foundation of Korea (NRF). This research was supported by "IBET(IT/BT/ET) application technology using biosilica from freshwater diatom" of the Korea Environmental Industry & Technology Institute (KEITI) (No. 2021003270007)."

The original Article has been corrected.

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