


# Corrigendum to "Atomic-scale electromagnetic theory bridging optics in microscopic world and macroscopic world"

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**CORRIGENDUM**

# Corrigendum to "Atomic-scale electromagnetic theory bridging optics in microscopic world and macroscopic world"

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The signs of the electric field markers in Figs. 2 and 4 of the paper [*Chin. Phys. B* **32** 104211 (2023)] have been corrected. These modifications do not affect the results derived in the paper.

**Keywords:** corrigendum, atomic-scale electromagnetic theory, two-dimensional materials, transfer matrix method

**PACS:** 99.10.–x, 42.25.Bs, 42.68.Ay

**DOI:** 10.1088/1674-1056/ad19d8

In the article,[1] it is necessary to correct the signs of the electric field markers in Figs 2 and 4. The revised figures 2 and 4 are presented below.

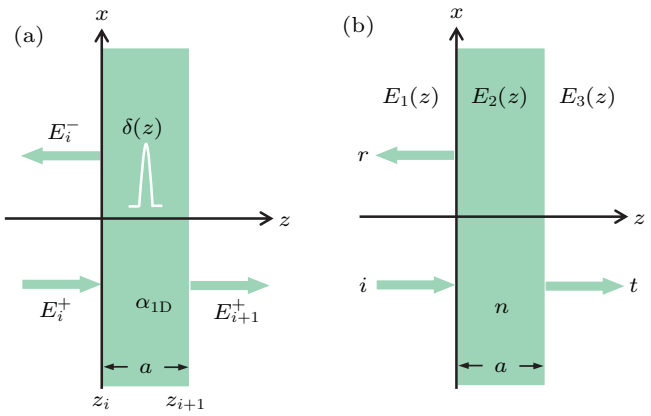



**Fig. 2.** Schematic for solution of the macroscopic plate under atomic-scale theory and classical-optics theory. (a) Atomic-scale theory. (b) Classical-optics theory.

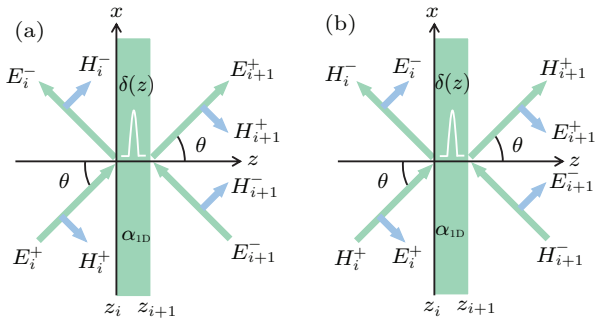



**Fig. 4.** Schematic for solution of light transport through a single atomic layer represented by $\delta$-function polarized charge and surface current in the framework of transfer-matrix method. (a) Oblique incidence situation where TE-polarized light transports with an arbitrary angle with respect to the atomic layer. (b) Oblique incidence situation where TM-polarized light transports with an arbitrary angle with respect to the atomic layer. In these two situations, the incident angle (equal to the transmission angle) is $\theta$, and we have the ordinary 2D optical problems.

## References

[1] Li Z Y and Chen J 2023 *Chin. Phys. B* **32** 104211

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