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Correction: A review of carrier thermoelectric-transport theory in organic semiconductors

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 Correction for 'A review of carrier thermoelectric-transport theory in organic semiconductors' by
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In the published paper, we described two definitions of the conductivity. One is defined by Mott (see eqn (7), $\sigma = -\int \sigma(E) \frac{\partial f}{\partial E} dE$). The other is defined as the Kubo–Greenwood type conductivity (see eqn (22), $\sigma = \int \sigma(E) dE$). The definition of conductivity for both eqn (7) and (22) is equivalent. In order to better distinguish these two definitions, we change eqn (7) to $\sigma = -\int \sigma_E \frac{\partial f}{\partial E} dE$, where σ_E is the Mott-type conductivity. At the same time, we change eqn (8) to $\sigma = e \int g(E) \mu(E) f(E) dE$, and eqn (9) to $\sigma(E) = eg(E) \mu(E) f(E)$, in order to be consistent with eqn (22).

Additionally, we remove the differential term dE in eqn (23), so that eqn (23) should be modified to $\sigma(E) = eg(E) \mu(E) f(E)$.

Furthermore, in the published paper, R^3 was omitted in eqn (44). Therefore, the parameter R^3 should be added in eqn (44), as follows:

$$P(Z_m|E_i) = \frac{4\pi R^3}{3(2\alpha)^3} \times \begin{cases} \int_{\varepsilon_f}^{\varepsilon_i} (S_c - \varepsilon_j + \varepsilon_f)^3 g(\varepsilon_j) d\varepsilon_j + \int_{\varepsilon_i}^{S_c + \varepsilon_f} (S_c - \varepsilon_j + \varepsilon_f)^3 g(\varepsilon_j) d\varepsilon_j + \int_{\varepsilon_i - S_c}^{\varepsilon_f} (S_c - \varepsilon_i + \varepsilon_j)^3 g(\varepsilon_j) d\varepsilon_j, \varepsilon_i > \varepsilon_f \\ \int_{\varepsilon_i}^{\varepsilon_f} (S_c + \varepsilon_i - \varepsilon_f)^3 g(\varepsilon_j) d\varepsilon_j + \int_{\varepsilon_f - S_c}^{\varepsilon_i} (S_c + \varepsilon_i - \varepsilon_f)^3 g(\varepsilon_j) d\varepsilon_j + \int_{\varepsilon_f}^{\varepsilon_i + S_c} (S_c - \varepsilon_j + \varepsilon_i)^3 g(\varepsilon_j) d\varepsilon_j, \varepsilon_i < \varepsilon_f \end{cases}$$

We thank Dario Narducci for finding this error.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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