**Erratum: Excitation of superpositions of resonances by two time-delayed ultrafast pulses:
Multistate semianalytic formalism and application to inner-hole states of carbon
at the *K* absorption edge [Phys. Rev. A **101**, 053420 (2020)]**

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In Eq. (5) of the original paper, a factor $(N_i)^{-1}$ in front of the third term was inadvertently omitted. The correct form is as follows:

$$|\Psi_{iE}\rangle = \sum_n \alpha_n(E) \left[|\phi_n\rangle + P \int dE' |u_{iE'}\rangle \frac{1}{E - E'} V_{iE'n} + |u_{iE}\rangle N_i^{-1} \frac{E - E_n}{V_{iEn}} \right]. \quad (5)$$

The summation is over the N_i localized parts contained in the i th channel ($i = 1, 2$).

The factor $(N_i)^{-1}$ takes into account the fact that the scattering component $|u_{iE}\rangle$ has been shared among the N_i localized parts in order to achieve a form of the wave function similar to the $N_i = 1$ case. It is included in the expression for the dipole matrix elements involving the zero-order scattering function of the third term. These quantities are computed from

$$d_{1Eg} = N_1^{-1} \langle u_{1E} | z | \phi_n \rangle \quad \text{and} \quad d_{iEn} = N_i^{-1} \langle u_{iE} | z | \phi_n \rangle,$$

and enter the spectral density functions b and the q or Q parameters in Eqs. (10)–(12) of our paper. The subsequent formalism is unaffected.