Errata

“Newtonian and fluid-dynamical viewpoint of pseudopotentials,” by Sambhu N Datta, *Pramāṇa*, **18**, pp. 113–120, 1982.

Page 118, line 16 should read as “ χ_v relaxes back to Φ_v with increasing time”; line 25 should read as “ $D(\omega)$ is purely imaginary”; line 26 should read as “at $\omega = \omega_k - \omega_c$ and $\omega_k - \omega_v$ ”; line 29 onwards should read as: “with poles at $\omega = \omega_v - \omega_c$ and $\omega_v - \omega_{v'}$ for real functions and degenerate core orbitals. The macroscopic diffusion coefficient in atomic unit is given by

$$\begin{aligned} D'(0) &= \frac{\gamma}{\kappa} \sum_s \langle \nabla \psi_{cs} \cdot | \nabla \Phi_v \rangle \\ &+ \frac{\gamma^2}{\kappa} \sum_{s, s'} \langle \nabla \psi_{cs} \cdot | \nabla \psi_{cs'} \rangle \\ &+ \kappa \gamma \sum_s \sum_{v'} \left[\frac{1}{(\omega_{v'} - \omega_c)^2 + \kappa^2} - \frac{1}{\kappa^2} \right] \langle \nabla \psi_{cs} | \Phi_{v'} \rangle \cdot \langle \Phi_{v'} | \nabla \Phi_v \rangle \\ &+ \kappa \gamma^2 \sum_{s, s'} \sum_{v'} \left[\frac{1}{(\omega_{v'} - \omega_c)^2 + \kappa^2} - \frac{1}{\kappa^2} \right] \langle \nabla \psi_{cs} | \Phi_{v'} \rangle \cdot \langle \Phi_{v'} | \nabla \psi_{cs'} \rangle \end{aligned}$$