Validation of mass attenuation coefficients in quantitative electron probe microanalysis (EPMA)

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Mass attenuation coefficients (m.a.c.s) are important factors of accuracy in quantitative electron probe microanalysis (EPMA). New m.a.c.s are calculated from the latest version of two datasets\(^1\)[2]\(^2\) for \(Z = 1 - 92\). The combination of two datasets solves the problems within them, such as spurious discontinuity and unnatural increase at high-energy sides of absorption edges. New m.a.c.s improve accuracy including geological applications.


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