Erratum: First-principles calculations of elasticity, polarization-related properties, and nonlinear optical coefficients in Zn-IV-N₂ compounds [Phys. Rev. B **79**, 245205 (2009)]

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(Received 31 July 2017; published 15 August 2017)

DOI: [10.1103/PhysRevB.96.079906](https://doi.org/10.1103/PhysRevB.96.079906)

In our paper, the values for the compliances for ZnGeN₂ in Table II are incorrect. Instead of the relaxed-ion values, the clamped-ion values were used. The Table II should be corrected as shown.

Therefore, the values for ZnGeN₂ in Table III also need to be updated. The value for the Poisson ration ν for ZnSnN₂ is also corrected.

We thank Sai Lyu for pointing this out to us.

TABLE II. Relaxed ion compliance tensor S at fixed electric field boundary condition in Voigt notation in units of Mbar¹.

Component	ZnSiN ₂	ZnGeN ₂	ZnSnN ₂
S_{11}	0.32	0.36	0.49
S_{22}	0.29	0.34	0.46
S_{33}	0.24	0.29	0.39
S_{44}	0.96	1.15	1.56
S_{55}	0.90	1.05	1.50
S_{66}	0.80	0.96	1.34
S_{12}	-0.099	-0.120	-0.179
S_{13}	-0.057	-0.065	-0.099
S_{23}	-0.041	-0.055	-0.098

TABLE III. Various polycrystalline elastic moduli in units of 100 GPa and dimensionless Poisson ratio and B/G ratio.

Component	ZnSiN ₂	ZnGeN ₂	ZnSnN ₂
G_R	1.23	1.04	0.75
G_V	1.26	1.08	0.77
B_R	2.19	1.96	1.70
B_V	2.21	1.97	1.70
G	1.245	1.06	0.76
B	2.20	1.965	1.70
Y	3.14	2.70	1.97
ν	0.38	0.39	0.41
B/G	1.77	1.85	2.24