Erratum: Atom-molecule reaction D + H 2 → HD + H studied by molecular beams

J. Geddes, H. F. Krause, and W. L. Fite

Citation: The Journal of Chemical Physics **59**, 566 (1973); doi: 10.1063/1.1679856
View online: http://dx.doi.org/10.1063/1.1679856
View Table of Contents: http://scitation.aip.org/content/aip/journal/jcp/59/1?ver=pdfcov
Published by the AIP Publishing

Errata

THE JOURNAL OF CHEMICAL PHYSICS VOLUME 59, NUMBER 1 1 JULY 1973

Erratum: Enhanced resolution for solid state NMR

[J. Chem. Phys. 58, 1772 (1973).]

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Erratum: High-resolution NMR in solids by intermolecular double resonance

[J. Chem. Phys. 58, 1773 (1973).]

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Please note the following unfortunate printer's error: Figure 1 of the Communication by Rhim *et al.* (p. 1773) was interchanged with that of Fig. 1 of the following Note by Yannoni (p. 1774). The figure captions are correct as they stand.

THE JOURNAL OF CHEMICAL PHYSICS VOLUME 59, NUMBER 1 1 JULY 1973

Erratum: Use of translational energy measurements in the evaluation of the energetics for dissociative attachment processes

[J. Chem. Phys. 58, 1430 (1973).]

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The following graphical errors should be rectified: (i) The arrow representing the excess energy *EE* involved in the dissociative capture process at the threshold in Fig. 1 should extend to the dissociation asymptote of AB^{-}*. (ii) The corrected electron energy scale in Fig. 5(b) should read one electron volt (1 eV) higher, i.e., 2 should be 3, etc.

THE JOURNAL OF CHEMICAL PHYSICS VOLUME 59, NUMBER 1 1 JULY 1973

Erratum: Atom-molecule reaction $D + H_2 \rightarrow HD + H$ studied by molecular beams

[J. Chem. Phys. 56, 3298 (1972).]

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The reactive differential cross section integrated over solid angle in the center-of-mass system (Eq. 14) should read

$$\sigma_r(v) = (9.0 \pm 4.5) \times 10^{-17} [1 - (v_0^2/v^2)]\ \mathrm{cm}^2 \quad v \geq v_0$$
$$= 0 \quad v < v_0 .$$

The bulk rate constant that is calculated from this cross section should read $(3.2 \pm 1.6) \times 10^{-12}$ cm^3/sec. Extrapolation of the lower temperature rate measurements of LeRoy, Ridley, and Quickert[1] to

the effective temperature of our experiment gives a value of 5.6×10^{-12} cm^3/sec. The discrepancy between the two rate constant values is remarkably small considering the simplified functional form assumed for $\sigma(v)$ and the uncertainties of extrapolating the bulk rate measurements to the effective temperature of the crossed-beam experiment.

We thank Dr. Rolf Gengenbach for bringing misprinted Eq. (14) to our attention.

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[1]D. J. LeRoy, B. A. Ridley, and K. A. Quickert, Discuss. Faraday Soc. **44**, 92 (1967).

THE JOURNAL OF CHEMICAL PHYSICS VOLUME 59, NUMBER 1 1 JULY 1973

Erratum: Infrared spectra and vibrational assignments of *trans*-$CH_3N{=}NH$, $CH_3N{=}ND$, $CD_3N{=}NH$, and $CD_3N{=}ND$

[J. Chem. Phys. 58, 203 (1973)]

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The following corrections should be made in the published paper:

(1) The nitrogen–nitrogen bonds in the formulas of the methyldiazenes should be written as double bonds, not single bonds, in the title, the abstract, and in Refs. 9 and 11.

(2) The journal for both entries in Ref. 24 is Spectrochim. Acta, not J. Chem. Phys.

(3) In Table I, Footnote f also applies to the 1457 cm^{-1} band for gaseous $CH_3N{=}NH$.

(4) In Table II, Footnotes g and h should be interchanged.