

### **low energy electron collisions pdf**

PDF | A theoretical study on elastic electron collisions with two conformers of amino acid alanine ( $\text{CH}_3\text{CH}(\text{NH}_2)\text{COOH}$ ) is reported.

### **(PDF) Low-energy electron collisions with the alanine molecule**

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### **Low-energy electron collisions with $\text{C}_4\text{H}_6$ isomers**

to study the electron-impact collision processes given by equations (1) and (2) which result from the quantum interference of the direct mechanism the capture takes place into a dissociative state of the neutral system ( $\text{BF}^*$ ) and the indirect one the capture occurs via a Rydberg state of the molecule  $\text{BF}^*$  which is predissociated by the  $\text{BF}^*$  state.

### **Dissociative recombination and vibrational excitation of**

Cross-sections for low-energy electron scattering in nitric oxide (NO), nitrous oxide ( $\text{N}_2\text{O}$ ) and nitrogen dioxide ( $\text{NO}_2$ ) are discussed. We compare earlier and recent cross-sections derived from beam and swarm experiments for elastic, vibrational, electronic excitation, ionization, electron attachment phenomena.

### **Low-energy electron collisions in nitrogen oxides: a**

MP2 / 6-31G $\pm$  VO energy of Ref. 34, the  $\sigma_{\text{NH}}$  VAE can be 204301-5 Low-energy electron collisions with pyrrole J. Chem. Phys. 132, 204301  $\pm$  2010 $\pm$  2 predicted to lie around 2.9 eV, with the help of the empirical previously considered based on the VO spectrum,<sup>34</sup> and was linear scaling relation reported elsewhere<sup>36</sup> for  $\text{Cl} \sigma_{\text{Cl}}$   $\pm$  reso ...

### **Low-energy electron collisions with pyrrole | Romarly da**

THE JOURNAL OF CHEMICAL PHYSICS 138, 194306 (2013) Low-energy electron collisions with thiophene R. F. da Costa,<sup>1</sup> M. T. do N. Varella,<sup>2</sup> M. A. P. Lima,<sup>3</sup> and M. H. F. Bettega<sup>4,a</sup> <sup>1</sup>Centro de CiÃncias Naturais e Humanas, Universidade Federal do ABC, 09210-170 Santo AndrÃ©, SÃ£o Paulo, Brazil <sup>2</sup>Instituto de FÃsica, Universidade de SÃ£o Paulo, Caixa Postal 66318, 05315-970 SÃ£o Paulo, SÃ£o Paulo ...

### **Low-energy electron collisions with thiophene - Portal IFGW**

Electron collisions with  $\text{C}_2$  - Search for the  $\text{C}_2$  2-resonances observed in photodetachment measurements from ASTRID  $\text{C}_2$  target 3 bound states of  $\text{C}_2$ -of doublet spin symmetry Low-lying resonance of quartet spin symmetry G Halmova, JD Gorfinkel & J Tennyson, J Phys B 39, 2849 (2006). Needs Electron collisions from an anion

### **Calculated low-energy electron-molecule collisions for**

In this chapter we review the theory and numerical methods and give some illustrative results for low-energy elastic scattering and excitation of atoms and positive ions by electron impact. We also describe briefly the major computer program packages that are available and widely used in this field.

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