List of literature
of electron cross sections
from different elements and materials

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1. Electron cross sections ordered by elements
2. Excitation cross sections
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5. Authors

1 Ordered by elements

Ag

[308]

1 - 256 KeV	[310]

Al

[308]

1 - 256 KeV	[310]

alkali-atoms

[9], [245]

Ar

[307]

0.7 - 10 eV	[273]
0.1 - 20 eV	[243], [289]
20 - 100 eV	[318]
20 - 110 eV	[100]
100 eV	[78]
4 - 300 eV	[312]
20 - 200 eV	[314]
300 - 1000 eV	[256]
100, 250, 500, 1000, 1500 eV	[306]
400-2400 eV	[3]
100 - 3000 eV	[270]
700 - 6000 eV	[300]
1 - 256 KeV	[310]

Ar^+

3.5 - 6.5 eV	[45]

$\underline{Ar^{9+}}$

0 - 3000 eV	[41]

<u>As</u>

[308]

<u>Au</u>

[307]

30 - 200 eV	[201]
100, 250, 500, 1000, 1500 eV	[306]
1 - 256 KeV	[310]

<u>Ba</u>

0 - 200 eV	[16]
100 - 1500 eV	[309]

<u>Be</u>

[308]

1 - 256 KeV	[310]

$\underline{Be^{+}}$

[198]

<u>Bi</u>

[253], **[307]**

100, 250, 500, 1000, 1500 eV	[306]

<u>Br</u>

100 - 1500 eV	[309]

$\underline{Br_2}$

[307]

C

100, 250, 500, 1000, 1500 eV	[306]
1 - 256 KeV	[310]

C_2F_6

[200]

C_2H_2

0.01 - 20 eV	[119]
0 - 10 eV	[95]
1 - 400 eV	[218]
5 - 100 eV	[120]
10 - 200 eV	[208]

C_2H_4

< 2 eV	[61]
1 - 400 eV	[303]

C_2H_6 Ethan

< 2 eV	[61]
7.5 - 20 eV	[321]
1 - 400 eV	[303]
2 - 100 eV	[234]

C_3F_8

[200]

Ca

0-200 eV	[16]
100 - 1500 eV	[309]

CCl_4

0.01 - 0.25 eV	[114]

<u>Cd</u>

[307]

3.4 - 85 eV	[173]
60 - 150 eV	[284]
100 - 1500 eV	[309]

<u>CF_2Cl_2</u>

0.01 - 0.25 eV	[114]

<u>CF_3Cl</u>

0.01 - 0.25 eV	[114]

<u>CF_4</u>

0.02 - 4 eV	[247]
75 - 700 eV	[222]
100 - 700 eV	[187]

<u>$CFCl_3$</u>

0.01 - 0.25 eV	[114]

<u>CH_3F</u>

0.3 - 250 eV	[18]

<u>CH_3Cl</u>

0.3 - 250 eV	[18]

<u>CH_3SH</u>

0.6 - 250 eV	[54]

<u>CH_4</u> (Methan)

[239], **[307]**

0.05 - 12 eV	[32]
< 1 eV	[240]
< 2 eV	[254], [61]
< 20 eV	[252]
0.2 - 5 eV	[299]
0.1 - 20 eV	[197], [290]
7.5 - 20 eV	[321]
10 - 50 eV	[75]
1.5 - 100 eV	[169]
1 - 400 eV	[303]
75 - 700 eV	[222]
1 - 4000 eV	[176]

<u>Cl</u>

[308]

<u>Cl_2</u>

[307]

10 - 200 eV	[28]

<u>CO</u>

[204], [185], **[307]**, **[308]**

< 1.5 eV	[319]
10 - 200 eV	[28]
20 - 100 eV	[235]

<u>CO_2</u>

[307]

< 1 eV	[327], cite535
0.12 - 2.0 eV	[272]
0.5 - 3000 eV	[276]
20 - 100 eV	[219]
45 - 150 eV	[196]

<u>Cs</u>

[307]

100, 250, 500, 1000, 1500 eV	[306]

<u>CS_2</u>

0.4 - 80 eV	[280]

<u>Cu</u>

[308]

1 - 256 KeV	[310]

<u>Cu^+</u>

[37]

<u>D_2</u>

[307]

<u>F</u>

1 - 256 KeV	[310]

<u>Fe</u>

[269]

1 - 256 KeV	[310]

<u>Ga</u>

100 - 1500 eV	[309]

<u>Ge</u>

0 - 300 eV	[48]

$\underline{GeH_4}$

75 - 4000 eV	[12]

$\underline{H}$

[15], [211], [228], [250], [329], [174], **[307]**

10.2 - 12.0 eV	[193], cite195
17 - 54 eV eV	[168]
100 - 200 eV	[266]
40 - 250 eV	[34]
54.42 eV	[322]
54.4 - 400 eV	[317]
20 - 1000 eV	[38]
$>$ 150 eV	[223]
100, 250, 500, 1000, 1500 eV	[306]

$\underline{H_2}$

[313], **[307]**

0.01 - 0.175 eV	[77]
0.2 - 10 eV	[224]
1 - 5 eV	[171]
0 - 100 eV	[50]
50 - 700 eV	[297]
50 - 1000 eV	[324]
150 - 2600 eV	[189]

$\underline{H_2O}$

[20], **[307]**

$<$ 15 eV	[86]
1 - 20 eV	[182]
4 - 20 eV	[178]
4 - 50 eV	[5]
6 - 50 eV	[181]
25 - 300 eV	[194]
100 - 1000 eV	[291]
81 - 3000 eV	[281]
10 - 3000 eV	[233]

$\underline{H_2S}$

[184]

1 - 30 eV	[112]
$<$ 15 eV	[86]

HBr

0 - 4 eV	[116]

HCl

[188], **[307]**

10 - 200 eV	[28]

He

[23], [8], [9], [207], [164], **[307]**

0.1 - 20 eV	[243], [289]
0.7 - 10 eV	[260]
10 - 30 eV	[47]
12 - 30 eV	[20]
0 - 80 eV	[53]
100 eV	[49], [213]
4 - 300 eV	[312]
100 - 300 eV	[40]
100, 250, 500, 1000, 1500 eV	[306]
0 - 1000 eV	[39]
50 - 1000 eV	[324]
400 - 2400 eV	[3]
500 - 2000 eV	[190]
600 eV	[298]
1024.6 eV	[277]
1 - 256 KeV	[310]

HF

[236]

Hg

[253], **[307]**

9 - 25 eV [30]
8 - 50 eV [257]
25 - 150 eV [296]
15 - 100 eV [104]
15 - 180 eV [274]
25 - 300 eV [265]
100, 250, 500, 1000, 1500 eV [306]
1 - 256 KeV [310]

I

[308]

I_2

[307]

K

[307]

7-100 eV [2]
54.42 eV [322]
50 - 200 eV [108]
150 - 500 eV [255]
¿ 100 eV [283]
100 - 1500 eV [309]

Kr

[172]

0.01 - 16 eV [248]
0.1 - 20 eV [225]
0.175 - 20 eV [275]
0.7 - 10 eV [273]
5 - 200 eV [244]
20 - 100 eV [318]
20 - 200 eV [314]

100, 250, 500, 1000, 1500 eV [306]
80 - 4000 eV [175]
700 - 6000 eV [300]
1 - 256 KeV [310]

Li

[261], [263], cite196, **[307]**

2 - 10 eV [287]
250, 500, 1000 eV [13]
100 - 1500 eV [309]

Li^{2+}

60 eV [322]
122 - 1000 eV [216]

Mg

[217]

100 - 1500 eV [309]

Mg^{+}

[198]

Mn

100 - 1500 eV [309]

Mo

100 - 1500 eV [309]
1 - 256 KeV [310]

N

[307], **[308]**

1 - 256 KeV [310]

$\underline{N_2}$

[258], [123], **[307]**

0.01 - 0.175 eV	[77]
0.55, 1.5, 2.2 eV	[101]
< 1.5 eV	[249]
< 20 eV	[210]
0 - 30 eV	[267]
20 - 100 eV	[235]
10 - 200 eV	[28]
0.1 - 1.5 eV	[301]

$\underline{N_2O}$

[307]

5 - 80 eV	[102]
10 - 80 eV	[288]
40 - 100 eV	[215]

<u>Na</u>

[232], **[307]**

22.1, 54.4 eV	[294]
54.42 eV	[322]
0 - 1000 eV	[52]
150 - 500 eV	[255]
> 10 eV	[268]
100 - 1500 eV	[309]

<u>Nb</u>

[308]

<u>Ne</u>

[307]

0.1 - 7.0 eV	[80]
0 - 20 eV	[325]
0.1 - 200 eV	[243]

0.7 - 10 eV [260]
4 - 300 eV [312]
65 - 500 eV [44]
100, 250, 500, 1000, 1500 eV [306]
100 - 3000 eV [270]
140 - 3000 eV [26]
700 - 6000 eV [300]
1 - 256 KeV [310]

<u>NH_3</u>

[184]

1 - 80 eV [215]
10 - 3000 eV [233]

<u>Ni</u>

1 - 256 KeV [310]

<u>NO</u>

[302], **[307]**

7.5 - 40 eV [7]

<u>NO_2</u>

90 - 4000 eV [6]

<u>O</u>

[230], **[307]**, **[308]**

0.5 - 8.7 eV [241]
14.1 - 2000 eV [14]
1 - 256 KeV [310]

<u>O^{6+}</u>

[316]

<u>O_2</u>

[307]

0.01 - 0.175 eV	[77]
0.012 - 1 eV	[103]
0.15 - 10 eV	[192]
0 - 2 eV	[43]
0 - 18 eV	[36]
1 - 30 eV	[35]
5 - 20 eV	[31]
0.2 - 100 eV	[295]
45 - 150 eV	[196]
300 - 1000 eV	[256], [177]

<u>OCS</u>

40 100 eV	[215]
90 - 4000 eV	[6]

<u>OS</u>

100 - 1500 eV	[309]

<u>P</u>

100 - 1500 eV	[309]

<u>Pb</u>

[253]

100, 250, 500, 1000, 1500 eV	[306]
1 - 256 KeV	[310]

<u>Ra</u>

0-200 eV	[16]

<u>Rb</u>

[307]

150 - 500 eV	[255]
100, 250, 500, 1000, 1500 eV	[306]

Rh

100 - 1500 eV	[309]

Sc

100 - 1500 eV	[309]

Se

[170]

SF_6

5 - 75 eV	[165]
75 - 700 eV	[222]

Si

1 - 256 KeV	[310]

SiH_4 (silane)

[199], [239]

0.1 - 10 eV	[259]
0.1 - 30 eV	[282]
0.05 - 20 eV	[226]
1 - 25 eV	[229]
1.8 - 100 eV	[191]

Sn

[308]

1 - 256 KeV	[310]

SO_2

1 - 30 eV	[67]
5 - 50 eV	[227]

90 - 4000 eV	[6]

Sr

0-200 eV	[16]
100 - 1500 eV	[309]

Ta

[**308**]

1 - 256 KeV	[310]

Ti

1 - 256 KeV	[310]

Tl

[253], [**307**]

U

1 - 256 KeV	[310]

V

[**308**]

W

100 - 1500 eV	[309]

Xe

[271], [**307**]

0 - 10 eV	[262]
0.7 - 10 eV	[273]
0.1 - 20 eV	[225]
1 - 25 eV	[242]
1 - 100 eV	[286]
15 - 100 eV	[89]

20 - 100 eV	[318]
20 - 200 eV	[314]
4 - 300 eV	[312]
40 - 350 eV	[296]
100, 250, 500, 1000, 1500 eV	[306]
80 - 4000 eV	[175]
1 - 256 KeV	[310]

Yb

0 - 200 eV	[16]

Zn

[307]

Zn^+

17 - 39 eV	[166]

others

[1], [4], [9], [10], [11], [13], [17], [18], cite19, [21], [22], [24], [25], [27], [29], [33], [42], [46], [51], [55], [56], [57], [195], [202], [203], [205], [206], [209], [212], [214], [220], [221], [231], [246], [251], [264], [279], [279], [285], [292], [293], [115] , [304], [315], [320], [323], [326], [328], [167], [180], [183], [184], [186]

data

[305], [306], [307], [308], [309], [310], [311]

2 Excitation cross sections

Ba: [66]

C_2F_6: [93]

CO: [109]

Cu^+: [37]

H_2: [76], [209]

H_2O: [20]

He: [22], [23], [39], [64], [117], [130], [190]

Hg: [105]

N_2: [81], [151], [210], [301]

NO: [7]

O_2: [36], [43], [88], [230]

propane: [68]

Si_2H_6: [59]

others: [91]

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