

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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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]

Ar⁹⁺

0 - 3000 eV [41]

As**[308]**Au**[307]**

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

Ba

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

Be**[308]**

1 - 256 KeV [310]

Be⁺

[198]

Bi[253], **[307]**

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

Br

100 - 1500 eV [309]

Br₂

[307]C

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

C₂F₆

[200]

C₂H₂

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

C₂H₄

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

C₂H₆ Ethan

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

C₃F₈

[200]

Ca

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

CCl₄

0.01 - 0.25 eV [114]

Cd

[307]

3.4 - 85 eV [173]

60 - 150 eV [284]

100 - 1500 eV [309]

CF₂Cl₂

0.01 - 0.25 eV [114]

CF₃Cl

0.01 - 0.25 eV [114]

CF₄

0.02 - 4 eV [247]

75 - 700 eV [222]

100 - 700 eV [187]

CFCl₃

0.01 - 0.25 eV [114]

CH₃F

0.3 - 250 eV [18]

CH₃Cl

0.3 - 250 eV [18]

CH₃SH

0.6 - 250 eV [54]

CH₄ (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]

Cl

[308]

Cl₂

[307]

10 - 200 eV	[28]
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CO

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

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

CO₂

[307]

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

Cs**[307]**

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

CS₂

0.4 - 80 eV [280]

Cu**[308]**

1 - 256 KeV [310]

Cu⁺

[37]

D₂**[307]**F

1 - 256 KeV [310]

Fe

[269]

1 - 256 KeV [310]

Ga

100 - 1500 eV [309]

Ge

0 - 300 eV [48]

GeH₄

75 - 4000 eV [12]

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]

H₂[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]

H₂O[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]

H₂S

[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]

I₂

[307]

K

[307]

7-100 eV	[2]
54.42 eV	[322]
50 - 200 eV	[108]
150 - 500 eV	[255]
λ 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]

Li²⁺

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

Mg

[217]

100 - 1500 eV	[309]
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Mg⁺

[198]

Mn

100 - 1500 eV	[309]
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Mo

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

N

[307], **[308]**

1 - 256 KeV	[310]
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N₂

[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]

N₂O

[307]

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

Na

[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]

Nb

[308]

Ne

[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]	

NH₃

[184]

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

Ni

1 - 256 KeV	[310]
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NO

[302], [307]

7.5 - 40 eV	[7]
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NO₂

90 - 4000 eV	[6]
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Ω

[230], [307], [308]

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

O⁶⁺

[316]

O₂

[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]

OCS

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

OS

100 - 1500 eV	[309]
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P

100 - 1500 eV	[309]
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Pb

[253]

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

Ra

0-200 eV	[16]
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Rb**[307]**

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

Rh

100 - 1500 eV [309]

Sc

100 - 1500 eV [309]

Se

[170]

SF₆

5 - 75 eV [165]

75 - 700 eV [222]

Si

1 - 256 KeV [310]

SiH₄ (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]

SO₂

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]
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Zn**[307]**Zn⁺

17 - 39 eV	[166]
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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]

C₂F₆: [93]

CO: [109]

Cu⁺: [37]

H₂: [76], [209]

H₂O: [20]

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

Hg: [105]

N₂: [81], [151], [210], [301]

NO: [7]

O₂: [36], [43], [88], [230]

propane: [68]

Si₂H₆: [59]

others: [91]

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