

	N		onic ely power lication		Room-temp.	Mobility of	Mobility of		Effective mass ratio at 4 K	
	Material C	Transition	$\frac{E_{g}[e]}{0 \text{ K}}$	energy V] 300 K	conductivity $\sigma \left[\frac{1}{\Omega \cdot \mathbf{m}} \right]$	electrons $\mu_{e} \left[\frac{m^{2}}{V \cdot s} \right]$	holes $\mu_{h}\left[\frac{m^{2}}{V \cdot s}\right]$	Work function (photoelectric) φ [eV]	$\frac{m_{\rm e}^*}{m_0}$	$\frac{m_{\mathrm{h}}^*}{m_0}$
Ä	C (diamond)	1101	5.48	5.47	10-12	0.18	-0.12 Pr	c4.8′ramm	30.2	0.25
Element	Ge	nR	0.74	0.66	2.2	0.39	0.19	4.6	$\frac{1.64^{a}}{0.08^{b}}$	0.04 ^c 0.28 ^d
	Si Te	chnol	1.17	1.12 S m	9×10^{-4}	0.15	0.045	3.6 reless	0.98 ^a 0.19 ^b	0.16 ^c 0.49 ^d
	Sn (gray)	D	0.09	0.08	10^{6}	0.14	0.12	C4.4 VICES		0.3 ^d
	GaAs	D	1.52	1.42	10-6	0.85	(0.04) ate		0.067	0.082
	InAs	D	0.42	0.36	C104 Tecti	3.30	0.046	4.9	0.023	0.40
III–V	InSb	D	0.23	0.17		8.00	0.125		0.014	0.40
	GaP	Pevelopii	2.34	2.26		0.01	0.007		0.82	0.60
	GaN	D	3.50	3.36		0.04	0.01		0.19	0.60
	InN	D		0.7						
	InP	D	1.42	1.35		0.46	0.015		0.077	0.64

