

Table 3. Magnetic MEMS switches reported in the literature, in chronological order.

Group	Actuation mechanism	Contact Resistance (m Ω)	Power Consumption	Switch Speed (ms)	Compatible with Full IC Integration	Latch Function
Taylor <i>et al.</i> (1998) [131]	Magnetic	24–38	33–320 mW	0.5–5	Yes	No
Ruan <i>et al.</i> (2001) [78,133]	Magnetic	50–70	<93 μ J/switch cycle	~0.2	No	Yes
Magfusion, Inc (2004) [137]	Magnetic	500	2.5 mJ/switch cycle	0.2	No	Yes
Cho <i>et al.</i> (2005) [83]	Electromagnetic + Electrostatic	500	40.3 μ J/switch cycle	0.38	No	Yes
Gray <i>et al.</i> (2005) [138,139]	Electromagnetic	500–700	5–80 μ J/switch cycle	5	No	Yes
Fu <i>et al.</i> (2007) [140]	Magnetic	200	57.6 mJ/switch cycle	0.3	No	Yes
Cho <i>et al.</i> (2010) [134]	Electromagnetic + Electrostatic	420	<15.4 μ J/switch cycle	0.5	No	Yes
Glickman <i>et al.</i> (2011) [135]	Electromagnetic	100–400	13 mW	0.2	Yes	No
Bachman <i>et al.</i> (2012) [141]	Electromagnetic	10.9k	2.6–10.4 mJ/switch cycle	3	No	Yes