History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	M. S. Basunia and A. M. Hurst	NDS 134, 1 (2016)	1-Feb-2016	

 $J(^{26}Si)=1/2^+$.

Excited states observed in ²⁶Si using the reaction ²⁹Si(³He, ⁶He)²⁶Si at E(³He)=51 MeV incident upon carbon-backed ²⁹Si (59.5% enriched, 0.161 mg/cm²) and ²⁹SiO₂ (95% enriched, 0.17 mg/cm²) targets. Focal plane detection system (7.5°) comprising a gas-ionization drift chamber for energy loss measurements, backed by a scintillator for residual charged-particle energy measurement. See also 2001CaZY.

²⁶Si Levels

E(level) [†]	$J^{\pi \dagger}$	Comments	
0.0	0+		
1795.9 [#]	2+ [‡]		
2783.5 [#]	2+ ‡		
4144 8	2+	E(level): 2002Ca24 fit a broad single peak at 4148 keV 5 for two states at 4144 and 4211.	
4211 16	3+		
4446 [#]	$2^+, 4^+$		
4806 [#]	$0^+, 2^+, 4^+$		
5140 10	2+		
5291	4+		
5526 8	4+		
5678 8	1+‡		
5945 8	3+‡	J ^{π} : Based on weak population, 2002Ca24 discarded 0 ⁺ and assign 3 ⁺ .	

[†] Values suggested by 2002Ca24 based on their charged-particle spectroscopy measurements in comparison to angular-distribution results presented in 2002Ba25 (p,t) and 1982Bo14 (³He,n), and the compilation in 1996II01.

[‡] Assignment based on comparison of observed excitation energy with calculated Coulomb-shifted level from 1996II01.

[#] Used for calibration.