Table 19.4 from (1987AJ02):
Levels of ^{19}O from ^{17}O(t, p) and ^{18}O(d, p)

E_x (MeV $\pm$ keV) [a]	$\Gamma_{c.m.}$ (keV) [a]	l_n [b]	L [c]	S [d]	J^π
0		2	0	0.57	$\frac{5}{2}^+$
0.0960 ± 0.5		2	2		$\frac{3}{2}^+$
1.4719 ± 0.5		0	2	1.00	$\frac{1}{2}^+$
2.3715 ± 1.0		2	$(2+4)$		$\frac{9}{2}^+$
2.7790 ± 0.9		(2)	2		$\frac{7}{2}^+$
3.0671 ± 2.6			$(2+4)$		$\frac{3}{2}^+$
3.1535 ± 2.4		2	$(0+2)$	(0.06)	$\frac{5}{2}^+$
3.237 ± 5		[a]			$\frac{3}{2}^+$
3.944 ± 3		1		0.11	$\frac{3}{2}^-$
4.118 ± 5	< 15	2	(2)	0.03	$\frac{3}{2}^+$
4.333 ± 12	< 15				
4.402 ± 12	< 15				
4.584 ± 12	75 ± 5	1		0.15	$\frac{3}{2}^-$
4.707 ± 12	< 15	2	[a]	0.02	$\frac{5}{2}^+$
4.998 ± 12	< 15				
5.150 ± 10	< 15	2	[a]	0.08	$\frac{5}{2}^+$
5.455 ± 10	320 ± 25	2	$(2+4)$	0.85	$\frac{3}{2}^+$
5.502 ± 12	< 15				
5.714 ± 12	< 15	2		0.17	$(\frac{3}{2}^+)$
6.280 ± 12	< 15	3		0.13	$\frac{7}{2}^-$
6.480 ± 15					
6.560 ± 15					
6.899 ± 15					
6.997 ± 15					
7.117 ± 15					
7.248 ± 15					

[a] For references see Table 19.3 in (1978AJ03). However there are a number of errors in that table which have been corrected here. I am grateful to Prof. F.C. Barker for pointing them out.

[b] ^{18}O(d, p)^{19}O.

[c] ^{17}O(t, p)^{19}O.

[d] $E_{\vec{d}} = 14.8$ MeV: polarization and differential cross section measurements. The spectroscopic factors for the states with $E_x > 4.1$ MeV have been calculated in the weakly bound approximation: see (1978AJ03).