		History		
Туре	Author	-	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and	C. G. Sheu	NP A968,71 (2017)	1-Jan-2017
1965Ha21: <sup>12</sup> C(n,n) E=17-21 MeV	/, measured $\sigma(NT)(E)$ , $\sigma(E,\theta)$ .			
<b>1968Bo34</b> : ${}^{12}C(n,n),(n,n') E=14-2$	5 MeV, measured $\sigma(E)$ .	10		
1969Gr30: ${}^{12}C(n,n),(n,n'),(n,n')3\alpha$	E=14 MeV, measured $\sigma(E_{N'}, \theta)$	). $^{12}$ C levels d	leduced level-width, $\beta($	L).
1970De14: ${}^{12}C(n,n),(n,n') E=17-20$	0.5 MeV, measured $\sigma(E, E_{N'}, \theta)$ .	Deduced opti	cal model parameters.	
1971Bo07: ${}^{12}C(n,n)$ E=4.0-5.6 Me	V, measured $\sigma(E,\theta)$ .			
1971Sp01: ${}^{12}C(n,n),(N,N'\gamma)$ E=15.	.0 MeV, measured $\sigma(\theta)$ , $\sigma(E_{N'})$	$E_{\gamma}, \theta_{N'\gamma}$ ). Ded	uced neutron spin-flip	probability.
1972Bo03: ${}^{12}C(n,n),(n,n') E=14.1$	MeV, measured $\sigma(\theta)$ . Deduced	optical mode	l parameters.	
1972Bu20: ${}^{12}C(n,n)$ E=2-4 MeV, r	neasured asymmetry(E).			
1972Dr03: <sup>12</sup> C(pol. n,N) E=1.9-5.2	2 MeV, measured polarization F	$P(E,\theta), \sigma(E,\theta)$	).	
1972Ho01: ${}^{12}C(n,n)$ E=2-5 MeV, r	measured P(E, $\theta$ =50°).			
1972Na03: ${}^{12}C(n,n)$ E=5.5-12.5 M	leV, measured analyzing power(	(E).		
1972Ri01: ${}^{12}C(n,n) = 4.8 \text{ GeV/c},$	measured $\sigma(\theta)$ .			
1973Ab07: <sup>12</sup> C(n,n) E=1.98-4.64 M	MeV, measured $\sigma(E,\theta)$ .			
1973Fa06: ${}^{12}C(n,n) E=2.1-4.7 MeV$	V, measured $\sigma(E)$ , $\sigma(E,\theta)$ .			
1973Ho39: ${}^{12}C(n,n) = 2$ to 5 MeV	$\sqrt{\theta_{\text{lab}}}=20^\circ$ to 150°, measured F	$P(E,\theta), R-func$	tion, phase-shift analys	ies.
1973Kn06: ${}^{12}C(n,n) E=2.63 \text{ MeV},$	measured total $\sigma$ , $\sigma(\theta)$ , N-pola	rization. Dedu	iced phase shifts.	
1973Ve03: ${}^{12}C(n,n),(n,n') = 7.20,'$	7.35,7.73,8.20,9.00 MeV, measu	ared $\sigma(E_N, E_N)$	$(\theta, \theta)$ .	
1974Po03: ${}^{12}C(N,N'\gamma) = 14.9 \text{ Me}$	$\geq$ V, measured N- $\gamma$ -coin.			
1975Ko27: <sup>12</sup> C(n,n) E=14.6 MeV,	measured $\sigma(\theta)$ .		с I · Т	
1976Ca13: <sup>12</sup> C(pol. n,N)(pol. n,N' $A(\theta)$ .	) E=14.2 MeV, measured angul	lar distributior	i of analyzing power li	1 elastic, inelastic scattering,
1976Gl11: <sup>12</sup> C(n,n),(n,n') E=9-15	MeV, measured $\sigma(E,\theta)$ , absolut	e $\sigma(E)$ .		
1978Me12: ${}^{12}C(n,n),(n,n') E=14 N$	AeV, measured $\sigma(\theta)$ , $\theta$ =150-180	)°.		
1979Ko26: <sup>12</sup> C(n,n) E=0.51,0.68 M	MeV, measured small angle scat	tering. Deduc	ed coherent lengths for	bound atoms.
1979Sm08: ${}^{12}C(n,n)$ E=1.5-4.0 Me	eV, measured total $\sigma(E)$ , $\sigma(\theta)$ .	R-matrix analy	/sis.	
1980Th07: ${}^{12}C(n,n),(n,n') E=15-18$	8.25 MeV, measured $\sigma(E,\theta)$ , spi	in-flip probabi	lity S( $\theta$ ). <sup>12</sup> C(pol. n,N	) E=15.85 MeV, measured
polarization $P(\theta)$ , analyzing por	wer $A(\theta)$ , spin-flip analyzing po	ower vs $\theta$ .		
1981Gu12: ${}^{12}C(n,n),(N.N') E=14.7$	7 MeV, measured $\sigma(E_N,\theta)$ , integ	grated $\sigma$ .		
1981Sa39: ${}^{12}C(n,n),(n,n') = 11.6$	MeV, measured $\sigma(\theta)$ . DWBA, J	Hauser-Feshba	ich analyses.	
1982Fi08: ${}^{12}C(n,n),(n,n') E=24 Me$	eV, measured $\sigma(E_N)$ .			
1982Po05: ${}^{12}C(n,n)$ E=0.5,1,2 MeV	V, measured $\sigma$ (total). Deduced	effective range	e approximation param	eters.
1983Da22: ${}^{12}C(n,n)$ E=7-15 MeV,	measured $\sigma(\theta)$ . Deduced spher	rical optical m	odel parameters.	
1983Hu14: ${}^{12}C(n,n),(n,n') E=14.1,$	,14.5 MeV, measured $\sigma(\theta)$ .			12
1983To19,1983Wo02: <sup>12</sup> C(n,n),(n,r	n') E=8.9-14.9 MeV, measured	$A(E,\theta)$ . Dedu	ced optical potential pa	arameters. <sup>12</sup> C level deduced
quadrupole deformation.				
1985Fi09: ${}^{12}C(n,n),(n,n') = 20-26$	MeV, measured $\sigma(\theta)$ . Deduced	1 model param	neters.	
1985Me16: ${}^{12}C(n,n),(n,n') E=20.8$	,22,24,26 MeV, measured $\sigma(\theta)$ .	<sup>12</sup> C levels de	duced deformation par	ameters, K, $\pi$ assignments.
19851002: ${}^{12}$ C(pol. n,N) E=8.91-1	2 MeV, measured $\sigma(\theta)$ , analyzi	ing power vs $\theta$	$\theta$ , phase shifts, $\sigma(E)$ .	

- 1986Sh33: <sup>12</sup>C(n,n),(n,n') E=threshold-20 MeV, compiled evaluated neutron induced reaction data. R-matrix theory.
- 1986Wi01: <sup>12</sup>C(n,n) E=30.3,40.3 MeV, measured  $\sigma(\theta)$ . Deduced optical model parameters, real volume integrals.
- 1986Za01: <sup>12</sup>C(n,n) E=50.4 MeV, measured  $\sigma$ .
- 1987Hi03: <sup>12</sup>C(n,n) E $\leq$ 22 MeV, measured total,  $\sigma$ (E), transmission.
- 1987To03,1987To07,1993Ch23: <sup>12</sup>C(pol. n,N) E=15.6-17.35 MeV, measured  $\sigma(E_N)$ , analyzing power vs E, $\theta$ . Deduced potential parameters.
- 1988To01: <sup>12</sup>C(pol. n,N),(pol. n,N') E=18.2 MeV, measured  $\sigma(\theta)$ , analyzing power vs  $\theta$ . Deduced reaction  $\sigma$ , <sup>12</sup>C recoil kerma factors. 1989O102: <sup>12</sup>C(n,n),(n,n') E=16.5-22 MeV, measured  $\sigma(E,\theta)$ . Deduced optical model potentials papameters. DWBA analysis.
- **1995Zh49**: <sup>12</sup>C(n,n),(n,n') E=14.7 MeV, measured  $\sigma(\theta)$ .
- 1997Ch39: <sup>12</sup>C(n,n),(n,n') E=28.2 MeV, measured  $\sigma(\theta)$ . Deduced optical model parameters. <sup>12</sup>C levels deduced quadrupole

## <sup>12</sup>C(n,n') 1985Me16,1990Aj01 (continued)

deformation parameter, B(E2).

detormation parameter, B(E2). 2003K105,2003K119: <sup>12</sup>C(n,n) E=96 MeV, measured  $\sigma(\theta)$ . 2004Os02: <sup>12</sup>C(n,n) E=65-225 MeV; measured  $\sigma(\theta)$ . 2005Ch58: <sup>12</sup>C(n,n) E=7-26 MeV, compiled, analyzed  $\sigma(\theta)$ , analyzing power, total  $\sigma$ . <sup>13</sup>C deduced level and resonance parameters. 2005Ro29: <sup>12</sup>C(pol. n,N) E=2.2-8.5 MeV, measured Ay( $\theta$ ). 2010We06: <sup>12</sup>C(pol. n,N) E=7.6-12 MeV.

<sup>12</sup>C Levels

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<sup>†</sup> From (1985Me16) and unpublished references in (1985Aj01,1990Aj01).