

# Roberto Romo

## List of Publications by Year in descending order

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30  
papers

273  
citations

858243

12  
h-index

1051228

16  
g-index

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all docs

30  
docs citations

30  
times ranked

119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unitarity of quantum tunneling decay for an analytical exact non-Hermitian resonant-state approach. <i>Annals of Physics</i> , 2021, 424, 168348.	1.0	4
2	Fabricación de un prototipo óptico para experimentos de interacción luz-materia. <i>Revista De Ciencias Tecnológicas</i> , 2020, 2, 58-65.	0.0	0
3	Tunelaje Cuántico en Potenciales Graduales. <i>Revista De Ciencias Tecnológicas</i> , 2020, 2, 50-57.	0.0	0
4	Effect of the resonance spectra in the propagation of two decaying entangled particles. <i>Journal of Physics: Conference Series</i> , 2019, 1275, 012029.	0.3	0
5	Interference in the time domain of a decaying particle with itself as the physical mechanism for the exponential-nonexponential transition in quantum decay. <i>Physical Review A</i> , 2019, 100, .	1.0	4
6	Absorption dynamics and delay time in complex potentials. <i>Physica Scripta</i> , 2018, 93, 055201.	1.2	3
7	Buildup of symmetrization entanglement for the nonescape probability of two identical particles. <i>Physical Review A</i> , 2017, 96, .	1.0	2
8	Time evolution of initial states that extend beyond the potential interaction region in quantum decay. <i>Physical Review A</i> , 2016, 94, .	1.0	3
9	Nonexponential tunneling decay of a single ultracold atom. <i>Physical Review A</i> , 2016, 93, .	1.0	16
10	Exponential and nonexponential buildup in resonant tunneling. <i>Physical Review A</i> , 2013, 87, .	1.0	4
11	Transient behavior of pulse propagation in a double-quantum-dot Aharonov-Bohm interferometer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 46, 149-154.	1.3	0
12	Trapping effects in wave-packet scattering in a double-quantum-dot Aharonov-Bohm interferometer. <i>Physical Review B</i> , 2012, 86, .	1.1	2
13	Unified analytical description of the time evolution of decay for initial states formed by wave-packet scattering and by initial decaying states in quantum systems. <i>Physical Review A</i> , 2011, 84, .	1.0	10
14	Internal dynamics of multibarrier systems for pulsed quantum decay. <i>Physical Review A</i> , 2009, 79, .	1.0	9
15	Survival probability of multibarrier resonance systems: Exact analytical approach. <i>Physical Review B</i> , 2007, 76, .	1.1	15
16	Tunneling and delay time of cutoff Gaussian wave packets. <i>Physical Review A</i> , 2007, 75, .	1.0	17
17	Dynamic polarization tunneling: A spin filtering mechanism. <i>Physical Review B</i> , 2005, 72, .	1.1	18
18	Resonance forerunners in superlattices. <i>Physical Review B</i> , 2003, 68, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Buildup dynamics of transmission resonances in superlattices. Physical Review B, 2002, 66, .	1.1	12
20	Quantum-wave evolution in a step potential barrier. Physical Review A, 2002, 66, .	1.0	14
21	Transient tunneling effects of resonance doublets in triple barrier systems. Physical Review B, 2002, 66, .	1.1	17
22	Role of the buildup oscillations on the speed of resonant tunneling diodes. Applied Physics Letters, 2001, 78, 1769-1771.	1.5	10
23	Survival probability of a single resonance. Journal of Physics A, 2001, 34, 4155-4165.	1.6	24
24	Dynamical analysis of the buildup process near resonance. Applied Physics Letters, 2000, 77, 379-381.	1.5	13
25	Dynamical description of the buildup process in resonant tunneling: Evidence of exponential and nonexponential contributions. Physical Review B, 1999, 60, R2142-R2145.	1.1	16
26	Effect of disorder in specific realizations of multibarrier random systems. Physical Review B, 1997, 56, 4845-4852.	1.1	5
27	Description of resonant tunneling near threshold. Physical Review B, 1994, 50, 15142-15147.	1.1	2
28	Strong overlap and transmission in triple-barrier resonant structures. Physical Review B, 1994, 49, 14016-14019.	1.1	7
29	Description of overlapping resonances in multibarrier tunneling structures. Physical Review B, 1993, 47, 9572-9576.	1.1	25
30	Decay widths for double-barrier resonant tunneling. Journal of Applied Physics, 1991, 69, 3612-3615.	1.1	13