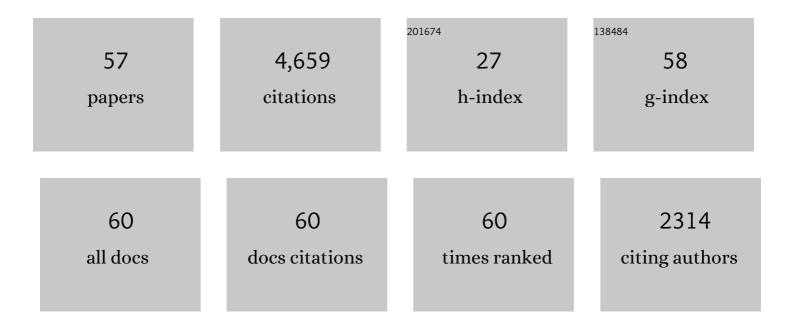
## David J Tannor

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1824111/publications.pdf Version: 2024-02-01



**ΠΑΝΙΟΙ ΤΑΝΝΟΡ** 

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A three-step model of high harmonic generation using complex classical trajectories. Annals of Physics, 2021, 427, 168288.   | 2.8 | 3         |
| 2  | Control of concerted back-to-back double ionization dynamics in helium. Journal of Chemical Physics, 2021, 155, 144105.  | 3.0 | 1         |
| 3  | Communication: Systematic elimination of Stokes divergences emanating from complex phase space caustics. Journal of Chemical Physics, 2018, 148, 101102.                                 | 3.0 | 4         |
| 4  | Multivalued classical mechanics arising from singularity loops in complex time. Journal of Chemical Physics, 2018, 148, 084108.  | 3.0 | 4         |
| 5  | Quantum Dynamics in Phase Space using Projected von Neumann Bases. Journal of Physical Chemistry<br>A, 2016, 120, 3296-3308.   | 2.5 | 14        |
| 6  | Excited-state wavepacket and potential reconstruction by coherent anti-Stokes Raman scattering.<br>Physical Chemistry Chemical Physics, 2015, 17, 2297-2310.                             | 2.8 | 2         |
| 7  | Control of quantum transmission is trap free. Canadian Journal of Chemistry, 2014, 92, 157-159.  | 1.1 | 12        |
| 8  | Communication: Overcoming the root search problem in complex quantum trajectory calculations.<br>Journal of Chemical Physics, 2014, 140, 041105.   | 3.0 | 23        |
| 9  | The von Neumann basis in non-Cartesian coordinates: Application to floppy triatomic molecules.<br>Journal of Chemical Physics, 2014, 141, 234106.  | 3.0 | 19        |
| 10 | Multi-dimensional wavepacket and potential reconstruction by resonant coherent anti-Stokes Raman scattering: Application to H2O and HOD. Journal of Chemical Physics, 2012, 136, 214107. | 3.0 | 3         |
| 11 | Controllability on relaxation-free subspaces: On the relationship between adiabatic population transfer and optimal control. Physical Review A, 2012, 85, .                              | 2.5 | 22        |
| 12 | An action principle for complex quantum trajectories. Molecular Physics, 2012, 110, 897-908.   | 1.7 | 5         |
| 13 | Quantum Control Landscape for a ĥâ€atom in the Vicinity of Secondâ€Order Traps. Israel Journal of<br>Chemistry, 2012, 52, 467-472.   | 2.3 | 20        |
| 14 | Wavepacket and potential reconstruction by four-wave mixing spectroscopy: preliminary application to polyatomic molecules. Faraday Discussions, 2011, 153, 131.                          | 3.2 | 5         |
| 15 | Complete Reconstruction of the Wave Function of a Reacting Molecule by Four-Wave Mixing Spectroscopy. Physical Review Letters, 2011, 106, 170405.  | 7.8 | 28        |
| 16 | Optimal control with accelerated convergence: Combining the Krotov and quasi-Newton methods.<br>Physical Review A, 2011, 83, .   | 2.5 | 80        |
| 17 | Path-integral derivations of complex trajectory methods. Physical Review A, 2011, 83, .  | 2.5 | 13        |
| 18 | Coherent Pulse Sequence Control of Product Formation in Chemical Reactions. Advances in Chemical Physics. 2007. 441-523.   | 0.3 | 181       |

# ARTICLE IF CITATIONS Phase Space Approach to Dissipative Molecular Dynamics. Advances in Chemical Physics, 2007, , 219-398. Analysis and control of small isolated molecular systems., 2007, , 25-152. 20 4 Calculating Multidimensional Discrete Variable Representations from Cubature Formulasâ€. Journal of 2.5 Physical Chemistry A, 2006, 110, 5395-5410. Bohmian mechanics with complex action: A new trajectory-based formulation of quantum mechanics. 22 3.0 135 Journal of Chemical Physics, 2006, 125, 231103. Quantum computation via local control theory: Direct sum vs. direct product Hilbert spaces. 1.9 29 Chemical Physics, 2006, 322, 87-97. 24 Commuting extensions and cubature formulae. Numerische Mathematik, 2005, 101, 479-500. 1.9 5 Loading a Bose-Einstein condensate onto an optical lattice: An application of optimal control theory 2.5 128 to the nonlinear SchrĶdinger equation. Physical Review A, 2002, 66, . Sharpening accepted thermodynamic wisdom via quantum control: or cooling to an internal temperature of zero by external coherent control fields without spontaneous emission. Journal of 1.3 26 3 Modern Optics, 2002, 49, 2297-2307. Controllability of population transfer to degenerate states: Analytical and numerical results for a 2.5 four-level system. Physical Review A, 2002, 66, . Coherent control of molecular processes application to cooling internal degrees of freedom. AIP 28 0.4 0 Conference Proceedings, 2000, , . On the second-order corrections to the quantum canonical equilibrium density matrix. Journal of 3.0 65 Chemical Physics, 2000, 113, 1380-1390. SEMICLASSICALCALCULATION OF CHEMICAL REACTION DYNAMICS VIAWAVE PACKETCORRELATION FUNCTIONS. 30 10.8 147 Annual Review of Physical Chemistry, 2000, 51, 553-600. Optimal pulse sequences for population transfer in multilevel systems. Physical Review A, 1999, 60, 2.5 63 3081-3090. Cumulative reaction probability in terms of reactant-product wave packet correlation functions. 32 3.0 17 Journal of Chemical Physics, 1999, 110, 2761-2770. On the Interplay of Control Fields and Spontaneous Emission in Laser Cooling. Journal of Physical Chemistry A, 1999, 103, 10359-10363. Optimal Control of Multiphoton Excitation:  A Black Box or a Flexible Toolkit?. Journal of Physical 34 2.525 Chemistry A, 1998, 102, 4301-4309. Correlation function formulation for the state selected total reaction probability. Journal of 3.0 24 Chemical Physics, 1998, 109, 3028-3036. Simple and robust extension of the stimulated Raman adiabatic passage technique toN-level systems. 36 2.5 147

**DAVID J TANNOR** 

Physical Review A, 1997, 56, 4929-4937.

DAVID J TANNOR

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Laser cooling of internal degrees of freedom. II. Journal of Chemical Physics, 1997, 106, 1435-1448.  | 3.0  | 108       |
| 38 | Optical paralysis in electronically congested systems: application to large-amplitude vibrational motion of ground state Na2. Chemical Physics, 1997, 221, 67-76.                           | 1.9  | 42        |
| 39 | A novel wave packet description of electron transfer and dissociation in molecule/surface reactive scattering. Journal of Chemical Physics, 1995, 103, 10764-10778.                         | 3.0  | 13        |
| 40 | Phase space distribution function formulation of the method of reactive flux: Memory friction.<br>Journal of Chemical Physics, 1995, 103, 6013-6020.  | 3.0  | 49        |
| 41 | Actors, spectators and control. Nature, 1994, 369, 445-446.   | 27.8 | 11        |
| 42 | Controlled dissociation of I2 via optical transitions between the X and B electronic states. Chemical Physics, 1993, 172, 85-98.  | 1.9  | 158       |
| 43 | Wave packet correlation function formulation of scattering theory: The quantum analog of classical<br>Sâ€matrix theory. Journal of Chemical Physics, 1993, 98, 3884-3893.                   | 3.0  | 135       |
| 44 | Quantum adiabatic switching. Journal of Chemical Physics, 1993, 98, 3168-3178.  | 3.0  | 24        |
| 45 | Laser cooling of molecular internal degrees of freedom by a series of shaped pulses. Journal of<br>Chemical Physics, 1993, 99, 196-210.   | 3.0  | 133       |
| 46 | Excitation without demolition: Radiative excitation of ground-surface vibration by impulsive stimulated Raman scattering with damage control. Physical Review Letters, 1992, 69, 2172-2175. | 7.8  | 136       |
| 47 | Nested interaction representations in time dependent quantum mechanics. Journal of Chemical Physics, 1992, 96, 2998-3009.   | 3.0  | 35        |
| 48 | Understanding the origin of rotational distributions in triatomic photodissociation: A k–j wave packet study of ICN. Journal of Chemical Physics, 1992, 97, 6300-6308.                      | 3.0  | 16        |
| 49 | Dynamics of triatomic photodissociation in the interaction representation. I. Methodology. Journal of Chemical Physics, 1991, 95, 1721-1737.  | 3.0  | 62        |
| 50 | Ammonia: Dynamical modeling of the absorption spectrum. Journal of Chemical Physics, 1990, 92, 5919-5934.   | 3.0  | 20        |
| 51 | Photoabsorption and photoemission of ozone in the Hartley band. Journal of Chemical Physics, 1988, 89, 6667-6675.   | 3.0  | 64        |
| 52 | Coherent pulse sequence induced control of selectivity of reactions: Exact quantum mechanical calculations. Journal of Chemical Physics, 1986, 85, 5805-5820.                               | 3.0  | 639       |
| 53 | Wave packet evolution in isolated pyrazine molecules: Coherence triumphs over chaos. Journal of<br>Chemical Physics, 1985, 82, 1073-1078.   | 3.0  | 12        |
| 54 | Rotational state dependence of pyrazine fluorescence: Initial decays for the vibrationless 1B3u state.<br>Journal of Chemical Physics, 1985, 82, 1067-1072.                                 | 3.0  | 65        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Picosecond CARS as a probe of ground electronic state intramolecular vibrational redistribution.<br>Journal of Chemical Physics, 1985, 83, 6158-6164. | 3.0 | 28        |
| 56 | Control of selectivity of chemical reaction via control of wave packet evolution. Journal of Chemical Physics, 1985, 83, 5013-5018.                   | 3.0 | 912       |
| 57 | Simple aspects of Raman scattering. The Journal of Physical Chemistry, 1982, 86, 1822-1833.   | 2.9 | 611       |