

Yijing Yan

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144
papers

4,266
citations

32
h-index

59
g-index

151
ext. papers

4,784
ext. citations

3.7
avg, IF

5.71
L-index

#	Paper	IF	Citations
144	Exact dynamics of dissipative electronic systems and quantum transport: Hierarchical equations of motion approach. <i>Journal of Chemical Physics</i> , 2008 , 128, 234703	3.9	271
143	Exact quantum master equation via the calculus on path integrals. <i>Journal of Chemical Physics</i> , 2005 , 122, 41103	3.9	208
142	Efficient hierarchical Liouville space propagator to quantum dissipative dynamics. <i>Journal of Chemical Physics</i> , 2009 , 130, 084105	3.9	178
141	Communication: Padé spectrum decomposition of Fermi function and Bose function. <i>Journal of Chemical Physics</i> , 2010 , 133, 101106	3.9	148
140	Padé spectrum decompositions of quantum distribution functions and optimal hierarchical equations of motion construction for quantum open systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 244106	3.9	142
139	Quantum mechanics of dissipative systems. <i>Annual Review of Physical Chemistry</i> , 2005 , 56, 187-219	15.7	141
138	Quantum master-equation approach to quantum transport through mesoscopic systems. <i>Physical Review B</i> , 2005 , 71,	3.3	125
137	Performance of Several Density Functional Theory Methods on Describing Hydrogen-Bond Interactions. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 86-96	6.4	117
136	Dynamics of quantum dissipation systems interacting with bosonic canonical bath: hierarchical equations of motion approach. <i>Physical Review E</i> , 2007 , 75, 031107	2.4	115
135	Optical line shapes of molecular aggregates: hierarchical equations of motion method. <i>Journal of Chemical Physics</i> , 2009 , 131, 094502	3.9	107
134	Hierarchical Liouville-space approach for accurate and universal characterization of quantum impurity systems. <i>Physical Review Letters</i> , 2012 , 109, 266403	7.4	100
133	Numerical approach to time-dependent quantum transport and dynamical Kondo transition. <i>Journal of Chemical Physics</i> , 2009 , 130, 164708	3.9	91
132	Theory of open quantum systems with bath of electrons and phonons and spins: many-dissipator density matrix approach. <i>Journal of Chemical Physics</i> , 2014 , 140, 054105	3.9	83
131	Electrical transport through individual DNA molecules. <i>Applied Physics Letters</i> , 2001 , 79, 2190-2192	3.4	83
130	Quantum Fokker-Planck theory in a non-Gaussian-Markovian medium. <i>Physical Review A</i> , 1998 , 58, 2721-2732	2.32	80
129	A partially incoherent rate theory of long-range charge transfer in deoxyribose nucleic acid. <i>Journal of Chemical Physics</i> , 2002 , 117, 4578-4584	3.9	74
128	Electron transfer dynamics: Zusman equation versus exact theory. <i>Journal of Chemical Physics</i> , 2009 , 130, 164518	3.9	66

127	Spontaneous relaxation of a charge qubit under electrical measurement. <i>Physical Review Letters</i> , 2005 , 94, 066803	7.4	66
126	HEOM-QUICK: a program for accurate, efficient, and universal characterization of strongly correlated quantum impurity systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016 , 6, 608-638	7.9	63
125	Dynamic electronic response of a quantum dot driven by time-dependent voltage. <i>Journal of Chemical Physics</i> , 2008 , 129, 184112	3.9	57
124	Kondo memory in driven strongly correlated quantum dots. <i>Physical Review Letters</i> , 2013 , 111, 086601	7.4	54
123	Theory of open quantum systems. <i>Journal of Chemical Physics</i> , 2002 , 116, 9196-9206	3.9	51
122	Optimized hierarchical equations of motion theory for Drude dissipation and efficient implementation to nonlinear spectroscopies. <i>Journal of Chemical Physics</i> , 2011 , 135, 164107	3.9	49
121	Dynamic Coulomb blockade in single-lead quantum dots. <i>New Journal of Physics</i> , 2008 , 10, 093016	2.9	48
120	Unified approach to the Bloch-Redfield theory and quantum Fokker-Planck equations. <i>Journal of Chemical Physics</i> , 2000 , 113, 2068-2078	3.9	48
119	Quantifying quantum discord and entanglement of formation via unified purifications. <i>Physical Review A</i> , 2011 , 83,	2.6	44
118	Calculation of the current noise spectrum in mesoscopic transport: A quantum master equation approach. <i>Physical Review B</i> , 2007 , 76,	3.3	43
117	Optimizing hierarchical equations of motion for quantum dissipation and quantifying quantum bath effects on quantum transfer mechanisms. <i>Journal of Chemical Physics</i> , 2012 , 136, 224103	3.9	41
116	Dissipation equation of motion approach to open quantum systems. <i>Frontiers of Physics</i> , 2016 , 11, 1	3.7	41
115	Complex non-Markovian effect on time-dependent quantum transport. <i>Journal of Chemical Physics</i> , 2009 , 130, 124508	3.9	40
114	Quantum master equation scheme of time-dependent density functional theory to time-dependent transport in nanoelectronic devices. <i>Physical Review B</i> , 2007 , 75,	3.3	36
113	Dynamic protein conformations preferentially drive energy transfer along the active chain of the photosystem II reaction centre. <i>Nature Communications</i> , 2014 , 5, 4170	17.4	33
112	Chemical Synthesis of Diubiquitin-Based Photoaffinity Probes for Selectively Profiling Ubiquitin-Binding Proteins. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2744-2748	16.4	32
111	Current noise spectra and mechanisms with dissipaton equation of motion theory. <i>Journal of Chemical Physics</i> , 2015 , 142, 234108	3.9	32
110	Hierarchical Liouville-space approach to nonequilibrium dynamical properties of quantum impurity systems. <i>Physical Review B</i> , 2013 , 88,	3.3	32

109	Quantum measurement of a solid-state qubit: A unified quantum master equation approach. <i>Physical Review B</i> , 2004 , 69,	3.3	32
108	Hierarchical quantum master equation with semiclassical Drude dissipation. <i>Journal of Chemical Physics</i> , 2009 , 131, 214111	3.9	31
107	Improving the efficiency of hierarchical equations of motion approach and application to coherent dynamics in Aharonov-Bohm interferometers. <i>Journal of Chemical Physics</i> , 2015 , 142, 104112	3.9	30
106	Thermopower of few-electron quantum dots with Kondo correlations. <i>Physical Review B</i> , 2014 , 90,	3.3	30
105	Quantum transport from the perspective of quantum open systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 357, 449-453	2.3	30
104	Dynamical semigroup Fokker-Planck equation approach to transient absorption and fluorescence upconversion spectroscopies. <i>Journal of Chemical Physics</i> , 2001 , 114, 3868-3879	3.9	30
103	Scattering matrix approach to electronic dephasing in long-range electron transfer. <i>Journal of Chemical Physics</i> , 2001 , 115, 4169-4174	3.9	30
102	Nonperturbative spin-boson and spin-spin dynamics and nonlinear Fano interferences: a unified dissipation theory based study. <i>Journal of Chemical Physics</i> , 2015 , 142, 024112	3.9	28
101	Biexponential theory of Drude dissipation via hierarchical quantum master equation. <i>Journal of Chemical Physics</i> , 2010 , 133, 114112	3.9	28
100	Quantum computation with coupled quantum dots embedded in optical microcavities. <i>Physical Review B</i> , 2002 , 65,	3.3	28
99	Hierarchical equations of motion for an impurity solver in dynamical mean-field theory. <i>Physical Review B</i> , 2014 , 90,	3.3	27
98	Conductance switching, hysteresis, and magnetoresistance in organic semiconductors. <i>Organic Electronics</i> , 2007 , 8, 487-497	3.5	26
97	A Superexchange-Mediated Sequential Hopping Theory for Charge Transfer in DNA. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9563-9567	2.8	26
96	Semiclassical Dynamics and Quantum Control in Condensed Phases: Application to I ₂ in a Solid Argon Matrix. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 7873-7883		26
95	Generalized quantum Fokker-Planck theory and its application to laser driven intramolecular hydrogen transfer reactions in condensed phases. <i>Journal of Chemical Physics</i> , 2000 , 112, 6104-6112	3.9	25
94	Time-dependent transport through quantum-impurity systems with Kondo resonance. <i>New Journal of Physics</i> , 2015 , 17, 033009	2.9	24
93	Highly efficient and accurate sum-over-poles expansion of Fermi and Bose functions at near zero temperatures: Fano spectrum decomposition scheme. <i>Journal of Chemical Physics</i> , 2019 , 151, 024110	3.9	24
92	Large-deviation analysis for counting statistics in mesoscopic transport. <i>Physical Review B</i> , 2011 , 84,	3.3	24

91	Correlated driving and dissipation in two-dimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2013 , 138, 024106	3.9	23
90	Effects of Herzberg-Teller vibronic coupling on coherent excitation energy transfer. <i>Journal of Chemical Physics</i> , 2016 , 145, 204109	3.9	23
89	Inelastic electron transport through mesoscopic systems: Heating versus cooling and sequential tunneling versus cotunneling processes. <i>Physical Review B</i> , 2012 , 85,	3.3	22
88	Correlation and response functions with non-Markovian dissipation: a reduced Liouville-space theory. <i>Journal of Chemical Physics</i> , 2005 , 122, 84115	3.9	22
87	Anisotropy induced Kondo splitting in a mechanically stretched molecular junction: A first-principles based study. <i>Journal of Chemical Physics</i> , 2016 , 144, 034101	3.9	22
86	Hierarchical equations of motion method based on Fano spectrum decomposition for low temperature environments. <i>Journal of Chemical Physics</i> , 2020 , 152, 064107	3.9	21
85	Low-frequency logarithmic discretization of the reservoir spectrum for improving the efficiency of hierarchical equations of motion approach. <i>Journal of Chemical Physics</i> , 2017 , 147, 074111	3.9	20
84	Time-dependent quantum transport theory and its applications to graphene nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2481-2494	1.3	19
83	Nonadiabatic molecular dynamics simulation: An approach based on quantum measurement picture. <i>AIP Advances</i> , 2014 , 4, 077131	1.5	19
82	Precise Control of Local Spin States in an Adsorbed Magnetic Molecule with an STM Tip: Theoretical Insights from First-Principles-Based Simulation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2418-2425 ^{6.4}	6.4	18
81	Local temperatures of strongly-correlated quantum dots out of equilibrium. <i>Physical Review B</i> , 2015 , 91,	3.3	18
80	Improved master equation approach to quantum transport: from Born to self-consistent Born approximation. <i>Journal of Chemical Physics</i> , 2014 , 140, 244111	3.9	18
79	Non-Markovian shot noise spectrum of quantum transport through quantum dots. <i>Journal of Applied Physics</i> , 2011 , 109, 053704	2.5	18
78	Density functional theory study of 1:1 glycine-water complexes in the gas phase and in solution. <i>Science China Chemistry</i> , 2010 , 53, 383-395	7.9	18
77	On the exact truncation tier of fermionic hierarchical equations of motion. <i>Journal of Chemical Physics</i> , 2018 , 148, 234108	3.9	17
76	Exact dynamics of driven Brownian oscillators. <i>Journal of Chemical Physics</i> , 2009 , 130, 074107	3.9	17
75	Stimulated Raman adiabatic passage from atomic to molecular Bose-Einstein condensates: Feedback laser-detuning control and suppression of dynamical instability. <i>Physical Review A</i> , 2006 , 73,	2.6	16
74	Long-range exchange interaction in triple quantum dots in the Kondo regime. <i>Physical Review B</i> , 2017 , 95,	3.3	15

73	Efficient steady-state solver for hierarchical quantum master equations. <i>Journal of Chemical Physics</i> , 2017 , 147, 044105	3.9	15
72	Transverse localization and slow propagation of light. <i>Physical Review A</i> , 2005 , 72,	2.6	15
71	Dissipaton equation of motion for system-and-bath interference dynamics. <i>Science China Chemistry</i> , 2015 , 58, 1816-1824	7.9	14
70	Thermodynamics and kinetics of protein folding: A mean field theory. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 5300	3.6	14
69	Partially coherent tunneling through a series of barriers: Inelastic scattering versus pure dephasing. <i>Physical Review B</i> , 2002 , 65,	3.3	14
68	Theories of quantum dissipation and nonlinear coupling bath descriptors. <i>Journal of Chemical Physics</i> , 2018 , 148, 114103	3.9	13
67	Trapping and hopping of bipolarons in DNA: Su-Schrieffer-Heeger model calculations. <i>Physical Review B</i> , 2005 , 72,	3.3	13
66	Statistical quasi-particle theory for open quantum systems. <i>Molecular Physics</i> , 2018 , 116, 780-812	1.7	12
65	Onsets of hierarchy truncation and self-consistent Born approximation with quantum mechanics prescriptions invariance. <i>Journal of Chemical Physics</i> , 2015 , 143, 214112	3.9	12
64	A classical time-frequency theory of transient absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1997 , 106, 6947-6956	3.9	12
63	Nonadiabatic geometric quantum computation with trapped ions. <i>Physical Review A</i> , 2002 , 66,	2.6	12
62	Kondo-peak splitting and resonance enhancement caused by interdot tunneling in coupled double quantum dots. <i>Physical Review B</i> , 2018 , 98,	3.3	12
61	Solvent-induced polarization dynamics and coherent two-dimensional spectroscopy: Dissipaton equation of motion approach. <i>Chemical Physics</i> , 2016 , 481, 237-244	2.3	11
60	Optimal pump-dump control: Linearization and symmetry relation. <i>Journal of Chemical Physics</i> , 1997 , 107, 3471-3477	3.9	11
59	Spin-mixing dynamics in a spin-1 atomic condensate coupled with a molecular condensate. <i>Physical Review A</i> , 2008 , 77,	2.6	11
58	Minimum-exponents ansatz for molecular dynamics and quantum dissipation. <i>Journal of Chemical Physics</i> , 2016 , 145, 204110	3.9	11
57	Chemical Synthesis of Diubiquitin-Based Photoaffinity Probes for Selectively Profiling Ubiquitin-Binding Proteins. <i>Angewandte Chemie</i> , 2017 , 129, 2788-2792	3.6	10
56	Fokker-Planck quantum master equation for mixed quantum-semiclassical dynamics. <i>Journal of Chemical Physics</i> , 2017 , 146, 024104	3.9	10

55	Many-body Tunneling and Nonequilibrium Dynamics of Doublons in Strongly Correlated Quantum Dots. <i>Scientific Reports</i> , 2017 , 7, 2486	4.9	10
54	Quantum transfer through a non-Markovian environment under frequent measurements and Zeno effect. <i>Physical Review A</i> , 2014 , 90,	2.6	10
53	Theory of Quantum Dissipation in a Class of Non-Gaussian Environments. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 395-403	0.9	10
52	Hierarchical theory of quantum dissipation: Partial fraction decomposition scheme. <i>Chemical Physics</i> , 2010 , 370, 109-114	2.3	10
51	Optimal control of multisurface molecular systems. <i>Journal of Chemical Physics</i> , 1998 , 109, 1654-1662	3.9	10
50	Kinetic Rate Kernels via Hierarchical Liouville-Space Projection Operator Approach. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 3241-5	2.8	9
49	Stochastic Representation of Non-Markovian Fermionic Quantum Dissipation. <i>Physical Review Letters</i> , 2019 , 123, 050601	7.4	9
48	Quantum coherence control of solid-state charge qubit by means of a suboptimal feedback algorithm. <i>Physical Review B</i> , 2006 , 73,	3.3	9
47	Bias-induced insulator-metal transition in organic electronics. <i>Applied Physics Letters</i> , 2007 , 91, 022115	3.4	9
46	Optimal pump control and time-frequency resolved spectroscopy of ground-state wave-packet focusing. <i>Journal of Chemical Physics</i> , 2002 , 117, 6142-6147	3.9	9
45	Thermodynamic meaning of local temperature of nonequilibrium open quantum systems. <i>Physical Review B</i> , 2016 , 94,	3.3	9
44	Entangled system-and-environment dynamics: Phase-space dissipation theory. <i>Journal of Chemical Physics</i> , 2020 , 152, 041102	3.9	8
43	Exact equivalence between the sequential long-range charge transfer rates and the electric conductances in evaluation of chemical yields. <i>Journal of Chemical Physics</i> , 2001 , 114, 8248-8250	3.9	8
42	Interplay between partial incoherence, partial inelasticity, resonance, and heterogeneity in long-range electron transfer and transport. <i>Journal of Chemical Physics</i> , 2002 , 117, 2180-2186	3.9	8
41	Effective Hamiltonians of polymethineimine, polyazine and polyazoethene: A density matrix variation approach. <i>Journal of Chemical Physics</i> , 1998 , 109, 2565-2571	3.9	8
40	Manipulation of Pauli spin blockade in double quantum dot systems. <i>Journal of Chemical Physics</i> , 2017 , 146, 224304	3.9	7
39	Stochastic equation of motion approach to fermionic dissipative dynamics. I. Formalism. <i>Journal of Chemical Physics</i> , 2020 , 152, 204105	3.9	7
38	Application of the Generalized Kinetic Ising Model to the Kinetics of Protein Folding. <i>Journal of the Chinese Chemical Society</i> , 2003 , 50, 335-338	1.5	7

37	Kinetic study for hopping conduction through deoxyribonucleic acid molecules. <i>Applied Physics Letters</i> , 2005 , 86, 203901	3.4	7
36	Theory and experiment of coherent wave packet dynamics in rare earth solids: Absorption spectrum vs femtosecond fringe-resolved interferogram. <i>Journal of Chemical Physics</i> , 2001 , 114, 1870-1875	3.9	7
35	Stochastic equation of motion approach to fermionic dissipative dynamics. II. Numerical implementation. <i>Journal of Chemical Physics</i> , 2020 , 152, 204106	3.9	6
34	Experimental and Theoretical Studies of Protein Folding-Unfolding. <i>Journal of the Chinese Chemical Society</i> , 2004 , 51, 1161-1173	1.5	6
33	Theoretical Study on the Effect of Environment on Excitation Energy Transfer in Photosynthetic Light-Harvesting Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2354-2362	3.4	5
32	Real-time counting of single electron tunneling through a T-shaped double quantum dot system. <i>Journal of Applied Physics</i> , 2010 , 108, 083720	2.5	5
31	Highly coherent solid-state quantum bit from a pair of quantum dots. <i>Applied Physics Letters</i> , 2002 , 81, 168-170	3.4	5
30	Dissipaton equation of motion theory versus Fokker-Planck quantum master equation. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 245-256	0.9	5
29	Current-induced effective Dzyaloshinskii-Moriya interaction and its Kondo enhancement in double quantum dot. <i>Journal of Chemical Physics</i> , 2020 , 152, 164113	3.9	4
28	Transient dynamics of a quantum-dot: From Kondo regime to mixed valence and to empty orbital regimes. <i>Journal of Chemical Physics</i> , 2018 , 148, 134111	3.9	4
27	Manipulating quantum coherence of charge states in interacting double-dot Aharonov-Bohm interferometers. <i>New Journal of Physics</i> , 2018 , 20, 043043	2.9	4
26	System-bath entanglement theorem with Gaussian environments. <i>Journal of Chemical Physics</i> , 2020 , 152, 034102	3.9	4
25	Equilibrium and transient thermodynamics: A unified dissipaton-space approach. <i>Journal of Chemical Physics</i> , 2020 , 153, 154111	3.9	4
24	Understanding the Sub-meV Precision-Tuning of Magnetic Anisotropy of Single-Molecule Junction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6990-6997	3.8	4
23	Quantum entanglement of parallel-coupled double quantum dots: A theoretical study using the hierarchical equations of motion approach. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 510-516	0.9	4
22	Thermodynamic free-energy spectrum theory for open quantum systems. <i>Journal of Chemical Physics</i> , 2020 , 153, 214115	3.9	3
21	Correlated vibration-solvent effects on the non-Condon exciton spectroscopy. <i>Journal of Chemical Physics</i> , 2021 , 154, 244105	3.9	3
20	Marcus electron transfer rate revisited via a Rice-Ramsperger-Kassel-Marcus analogue: A unified formalism for linear and nonlinear solvation scenarios. <i>Chinese Journal of Chemical Physics</i> , 2021 , 34, 462-470	0.9	3

19	Universal time-domain Prony fitting decomposition for optimized hierarchical quantum master equations. <i>Journal of Chemical Physics</i> ,	3.9	3
18	Number-resolved master equation approach to quantum transport under the self-consistent Born approximation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 1866-1873	3.6	2
17	CHAPTER 13:Modified Zusman Equation for Quantum Solvation Dynamics and Rate Processes. <i>RSC Theoretical and Computational Chemistry Series</i> ,319-336	1.2	2
16	Adiabatic terminator for fermionic hierarchical equations of motion. <i>Chinese Journal of Chemical Physics</i> , 2021 , 34, 905-914	0.9	2
15	Kondo resonance assisted thermoelectric transport through strongly correlated quantum dots. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	1
14	Ferromagnetic Phase in Nonequilibrium Quantum Dots. <i>Scientific Reports</i> , 2017 , 7, 18072	4.9	1
13	Dissipative dynamic theory for open many-electron systems: Hierarchical equations-of-motion approach 2008 ,		1
12	EFFECTS OF PHASE-BREAKING ON LONG-RANGE CHARGE TRANSFER IN DNA: PARTIALLY-COHERENT-TUNNELING MODEL STUDY. <i>Journal of Theoretical and Computational Chemistry</i> , 2006 , 05, 317-329	1.8	1
11	Quantum dynamics of a molecular matter-wave amplifier. <i>Physical Review A</i> , 2007 , 75,	2.6	1
10	Quantum dissipation with nonlinear environment couplings: Stochastic fields dressed dissipaton equation of motion approach. <i>Journal of Chemical Physics</i> , 2021 , 155, 174111	3.9	1
9	A hierarchical-equation-of-motion based semiclassical approach to quantum dissipation□ <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 608-612	0.9	1
8	Origin of Asymmetric Splitting of Kondo Peak in Spin-Polarized Scanning Tunneling Spectroscopy: Insights from First-Principles-Based Simulations.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2094-2100	6.4	1
7	Dissipaton Equation of Motion with Controlled Truncation□ <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 409-414	0.9	0
6	Role of Pigment-Protein Coupling in the Energy Transport Dynamics in the Fenna-Matthews-Olson Complex. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11884-11892	3.4	0
5	The current-induced heat generation in a quantum dot with Andreev-Fano resonance. <i>Journal of Applied Physics</i> , 2019 , 126, 195101	2.5	0
4	Nonequilibrium Kondo regime current noise spectrum of quantum dot systems with the single impurity Anderson model. <i>Journal of Chemical Physics</i> , 2021 , 155, 014104	3.9	0
3	Optical manipulation of single electron spin in doped and undoped quantum dots. <i>Applied Physics Letters</i> , 2006 , 89, 041112	3.4	
2	Magnetic Field Dependent Kondo Transport through Double Quantum Dots System. <i>Annalen Der Physik</i> ,2100439	2.6	

- 1 Many-body tunneling and nonequilibrium dynamics in double quantum dots with capacitive coupling. *Journal of Physics Condensed Matter*, **2020**, 33, 075301

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