# Eran Rabani

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8153604/publications.pdf

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| 186 | 9,251 | 43973 | 46693 |
|---|---|---|---|
| papers | citations | 48 h-index | 89 g-index |

| 189 | 189 | 189 | 8976 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Drying-mediated self-assembly of nanoparticles. Nature, 2003, 426, 271-274. | 13.7 | 866 |
| 2 | Heavily Doped Semiconductor Nanocrystal Quantum Dots. Science, 2011, 332, 77-81. | 6.0 | 657 |
| 3 | Formation of asymmetric one-sided metal-tipped semiconductor nanocrystal dots and rods. Nature Materials, 2005, 4, 855-863. | 13.3 | 526 |
| 4 | Real-Time Path Integral Approach to Nonequilibrium Many-Body Quantum Systems. Physical Review Letters, 2008, 100, 176403. | 2.9 | 288 |
| 5 | Electronic properties of CdSe nanocrystals in the absence and presence of a dielectric medium. Journal of Chemical Physics, 1999, 110, 5355-5369. | 1.2 | 235 |
| 6 | Single-particle mapping of nonequilibrium nanocrystal transformations. Science, 2016, 354, 874-877. | 6.0 | 204 |
| 7 | Optimal metal domain size for photocatalysis with hybrid semiconductor-metal nanorods. Nature Communications, 2016, 7, 10413. | 5.8 | 184 |
| 8 | Structure and electrostatic properties of passivated CdSe nanocrystals. Journal of Chemical Physics, 2001, 115, 1493-1497. | 1.2 | 154 |
| 9 | Direct Observation of Nanoparticle Superlattice Formation by Using Liquid Cell Transmission Electron Microscopy. ACS Nano, 2012, 6, 2078-2085. | 7.3 | 152 |
| 10 | Electrostatic Force Microscopy Study of Single Auâ”CdSe Hybrid Nanodumbbells: Evidence for Light-Induced Charge Separation. Nano Letters, 2009, 9, 2031-2039. | 4.5 | 132 |
| 11 | An interatomic pair potential for cadmium selenide. Journal of Chemical Physics, 2002, 116, 258. | 1.2 | 126 |
| 12 | Calculating the hopping rate for self-diffusion on rough potential energy surfaces: Cage correlations. Journal of Chemical Physics, 1997, 107, 6867-6876. | 1.2 | 118 |
| 13 | Memory effects in nonequilibrium quantum impurity models. Physical Review B, 2011, 84, . | 1.1 | 117 |
| 14 | Breaking the Theoretical Scaling Limit for Predicting Quasiparticle Energies: The Stochastic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:math>Approach. Physical Review Letters, 2014, 113, 076402. | 2.9 | 113 |
| 15 | Numerically exact long-time magnetization dynamics at the nonequilibrium Kondo crossover of the Anderson impurity model. Physical Review B, 2013, 87, . | 1.1 | 111 |
| 16 | Can imaginary instantaneous normal mode frequencies predict barriers to self-diffusion?. Journal of Chemical Physics, 1997, 107, 4618-4627. | 1.2 | 99 |
| 17 | Mechanisms of the Wurtzite to Rocksalt Transformation in CdSe Nanocrystals. Physical Review Letters, 2006, 96, 255701. | 2.9 | 98 |
| 18 | Distribution of Multiexciton Generation Rates in CdSe and InAs Nanocrystals. Nano Letters, 2008, 8, 4488-4492. | 4.5 | 92 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Near-field manipulation of spectroscopic selection rules on the nanoscale. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8016-8019. | 3.3 | 92 |
| 20 | The calculation of transport properties in quantum liquids using the maximum entropy numerical analytic continuation method: Application to liquid para-hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1129-1133. | 3.3 | 89 |
| 21 | The Electronic Structure of CdSe/CdS Core/Shell Seeded Nanorods: Type-I or Quasi-Type-II?. Nano Letters, 2013, 13, 5880-5885. | 4.5 | 89 |
| 22 | Bistability in a nonequilibrium quantum system with electron-phonon interactions. Physical Review B, 2013, 88, . | 1.1 | 88 |
| 23 | Vibronic spectra in condensed matter: A comparison of exact quantum mechanical and various semiclassical treatments for harmonic baths. Journal of Chemical Physics, 1998, 108, 1407-1422. | 1.2 | 86 |
| 24 | Nonequilibrium quantum systems with electron-phonon interactions: Transient dynamics and approach to steady state. Physical Review B, 2014, 89, . | 1.1 | 86 |
| 25 | Quantum fluctuations can promote or inhibit glassÂformation. Nature Physics, 2011, 7, 134-137. | 6.5 | 84 |
| 26 | Theory of multiexciton generation in semiconductor nanocrystals. Chemical Physics Letters, 2010, 496, 227-235. | 1.2 | 82 |
| 27 | Self-Averaging Stochastic Kohn-Sham Density-Functional Theory. Physical Review Letters, 2013, 111, 106402. | 2.9 | 81 |
| 28 | Direct Observation of Stretched-Exponential Relaxation in Low-Temperature Lennard-Jones Systems Using the Cage Correlation Function. Physical Review Letters, 1999, 82, 3649-3652. | 2.9 | 73 |
| 29 | On the Adequacy of Mixed Quantum-Classical Dynamics in Condensed Phase Systems. Journal of Physical Chemistry B, 1999, 103, 10978-10991. | 1.2 | 72 |
| 30 | Quantum mechanical canonical rate theory: A new approach based on the reactive flux and numerical analytic continuation methods. Journal of Chemical Physics, 2000, 112, 2605-2614. | 1.2 | 72 |
| 31 | Theory of resonance energy transfer involving nanocrystals: The role of high multipoles. Journal of Chemical Physics, 2008, 128, 184710. | 1.2 | 71 |
| 32 | Expeditious Stochastic Approach for MP2 Energies in Large Electronic Systems. Journal of Chemical Theory and Computation, 2013, 9, 24-27. | 2.3 | 68 |
| 33 | Stochastic GW Calculations for Molecules. Journal of Chemical Theory and Computation, 2017, 13, 4997-5003. | 2.3 | 68 |
| 34 | Nonradiative relaxation processes in condensed phases: Quantum versus classical baths. Journal of Chemical Physics, 1999, 110, 5238-5248. | 1.2 | 64 |
| 35 | Self-Consistent Mode-Coupling Theory for Self-Diffusion in Quantum Liquids. Physical Review Letters, 2001, 87, 265702. | 2.9 | 61 |
| 36 | A self-consistent mode-coupling theory for dynamical correlations in quantum liquids: Application to liquidpara-hydrogen. Journal of Chemical Physics, 2002, 116, 6279-6285. | 1.2 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Self-Assembly of Nanoparticles into Rings:Â A Lattice-Gas Model. Journal of Physical Chemistry B, 2006, 110, 20965-20972. | 1.2 | 59 |
| 38 | Giant Light-Emission Enhancement in Lead Halide Perovskites by Surface Oxygen Passivation. Nano Letters, 2018, 18, 6967-6973. | 4.5 | 59 |
| 39 | Self-Assembly of Nanoparticles in Three-Dimensions:Â Formation of Stalagmitesâ€. Journal of Physical Chemistry B, 2005, 109, 6741-6747. | 1.2 | 58 |
| 40 | Colloidal Atomic Layer Deposition with Stationary Reactant Phases Enables Precise Synthesis of â€œDigitalâ€•Iâ€“VI Nano-heterostructures with Exquisite Control of Confinement and Strain. Journal of the American Chemical Society, 2019, 141, 13487-13496. | 6.6 | 58 |
| 41 | Constructing spin interference devices from nanometric rings. Physical Review B, 2007, 76, . | 1.1 | 57 |
| 42 | Communication: Embedded fragment stochastic density functional theory. Journal of Chemical Physics, 2014, 141, 041102. | 1.2 | 57 |
| 43 | Long-Range Electronic-to-Vibrational Energy Transfer from Nanocrystals to Their Surrounding Matrix Environment. Physical Review Letters, 2008, 100, 057404. | 2.9 | 54 |
| 44 | Metastability in Pressure-Induced Structural Transformations of CdSe/ZnS Core/Shell Nanocrystals. Nano Letters, 2013, 13, 1367-1372. | 4.5 | 54 |
| 45 | Electronâ€“Hole Correlations Govern Auger Recombination in Nanostructures. Nano Letters, 2018, 18, 7889-7895. | 4.5 | 54 |
| 46 | Solvophobic and Solvophilic Effects on the Potential of Mean Force between Two Nanoparticles in Binary Mixtures. Nano Letters, 2002, 2, 69-72. | 4.5 | 53 |
| 47 | A self-consistent mode-coupling theory for dynamical correlations in quantum liquids: Rigorous formulation. Journal of Chemical Physics, 2002, 116, 6271-6278. | 1.2 | 52 |
| 48 | Inhibited nonradiative decay at all exciton densities in monolayer semiconductors. Science, 2021, 373, 448-452. | 6.0 | 52 |
| 49 | Semiconductor Seeded Nanorods with Graded Composition Exhibiting High Quantum-Yield, High Polarization, and Minimal Blinking. Nano Letters, 2017, 17, 2524-2531. | 4.5 | 51 |
| 50 | A Parallel Electromagnetic Molecular Logic Gate. Journal of the American Chemical Society, 2005, 127, 1648-1649. | 6.6 | 50 |
| 51 | Comparison of Dynamical Heterogeneity in Hard-Sphere and Attractive Glass Formersâ€. Journal of Physical Chemistry B, 2005, 109, 14654-14658. | 1.2 | 49 |
| 52 | Charge Carrier Dynamics in Photocatalytic Hybrid Semiconductorâ€“Metal Nanorods: Crossover from Auger Recombination to Charge Transfer. Nano Letters, 2018, 18, 5211-5216. | 4.5 | 49 |
| 53 | A fully self-consistent treatment of collective fluctuations in quantum liquids. Journal of Chemical Physics, 2004, 120, 1458-1465. | 1.2 | 47 |
| 54 | Generalized projected dynamics for non-system observables of non-equilibrium quantum impurity models. New Journal of Physics, 2013, 15, 073018. | 1.2 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Time-dependent stochastic Bethe-Salpeter approach. Physical Review B, 2015, 91, . | 1.1 | 47 |
| 56 | Dynamics and kinetics of molecular high Rydberg states in the presence of an electrical field: An experimental and classical computational study. Journal of Chemical Physics, 1995, 102, 1619-1638. | 1.2 | 46 |
| 57 | Magnetoresistance of Nanoscale Molecular Devices. Accounts of Chemical Research, 2006, 39, 109-117. | 7.6 | 45 |
| 58 | Transferable pair potentials for CdS and ZnS crystals. Journal of Chemical Physics, 2012, 136, 234111. | 1.2 | 44 |
| 59 | Interactions between passivated nanoparticles in solutions: Beyond the continuum model. Journal of Chemical Physics, 2001, 115, 3437-3440. | 1.2 | 42 |
| 60 | Carbon nanotube closed-ring structures. Physical Review B, 2003, 67, . | 1.1 | 42 |
| 61 | Expeditious Stochastic Calculation of Random-Phase Approximation Energies for Thousands of Electrons in Three Dimensions. Journal of Physical Chemistry Letters, 2013, 4, 1172-1176. | 2.1 | 42 |
| 62 | Stochastic density functional theory at finite temperatures. Physical Review B, 2018, 97, . | 1.1 | 42 |
| 63 | Swift <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mm beyond 10,000 electrons using sparse stochastic compression. Physical Review B, 2018, 98, . | 1.1 | 42 |
| 64 | Sublinear scaling for time-dependent stochastic density functional theory. Journal of Chemical Physics, 2015, 142, 034106. | 1.2 | 41 |
| 65 | Very Large Electronic Structure Calculations Using an Out-of-Core Filter-Diagonalization Method. Journal of Computational Physics, 2002, 180, 256-269. | 1.9 | 40 |
| 66 | Can Impact Excitation Explain Efficient Carrier Multiplication in Carbon Nanotube Photodiodes?. Nano Letters, 2010, 10, 3277-3282. | 4.5 | 40 |
| 67 | Application of a semiclassical model for the second-quantized many-electron Hamiltonian to nonequilibrium quantum transport: The resonant level model. Journal of Chemical Physics, 2011, 134, 164103. | 1.2 | 40 |
| 68 | Expeditious Stochastic Calculation of Multiexciton Generation Rates in Semiconductor Nanocrystals. Nano Letters, 2012, 12, 2123-2128. | 4.5 | 40 |
| 69 | Classical Approximation to Nonradiative Electronic Relaxation in Condensed Phase Systems. Journal of Physical Chemistry A, 1999, 103, 9539-9544. | 1.1 | 39 |
| 70 | Integral Equation Theory for the Interactions between Passivated Nanocrystals in Supercritical Fluids:â€‰ Solvophobic and Solvophilic Cases. Journal of Physical Chemistry B, 2002, 106, 6771-6778. | 1.2 | 39 |
| 71 | Drying-Mediated Hierarchical Self-Assembly of Nanoparticles:â€‰ A Dynamical Coarse-Grained Approach. Journal of Physical Chemistry C, 2008, 112, 4498-4506. | 1.5 | 39 |
| 72 | Dynamics of high molecular Rydberg states in the presence of a weak dc field. Chemical Physics Letters, 1994, 221, 473-481. | 1.2 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A comparison of exact quantum mechanical and various semiclassical treatments for the vibronic absorption spectrum: The case of fast vibrational relaxation. Journal of Chemical Physics, 1998, 109, 6376-6381. | 1.2 | 38 |
| 74 | Molecular hydrodynamic approach to dynamical correlations in quantum liquids. Physical Review E, 2002, 65, 036111. | 0.8 | 38 |
| 75 | Resilient Pathways to Atomic Attachment of Quantum Dot Dimers and Artificial Solids from Faceted CdSe Quantum Dot Building Blocks. ACS Nano, 2019, 13, 12322-12344. | 7.3 | 36 |
| 76 | On the Phase Behavior of Binary Mixtures of Nanoparticles. ACS Nano, 2013, 7, 978-986. | 7.3 | 35 |
| 77 | Unraveling the Impurity Location and Binding in Heavily Doped Semiconductor Nanocrystals: The Case of Cu in InAs Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 13688-13696. | 1.5 | 35 |
| 78 | Stochastic Optimally Tuned Range-Separated Hybrid Density Functional Theory. Journal of Physical Chemistry A, 2016, 120, 3071-3078. | 1.1 | 35 |
| 79 | Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets via Magneto-optical Spectroscopy. ACS Nano, 2019, 13, 8589-8596. | 7.3 | 35 |
| 80 | Out-of-Equilibrium Self-Assembly of Binary Mixtures of Nanoparticles. Advanced Materials, 2006, 18, 565-571. | 11.1 | 34 |
| 81 | Theory and simulations of quantum glass forming liquids. Journal of Chemical Physics, 2012, 136, 074511. | 1.2 | 34 |
| 82 | QUANTUM MODE-COUPLING THEORY: Formulation and Applications to Normal and Supercooled Quantum Liquids. Annual Review of Physical Chemistry, 2005, 56, 157-185. | 4.8 | 33 |
| 83 | Sub-Ohmic to super-Ohmic crossover behavior in nonequilibrium quantum systems with electron-phonon interactions. Physical Review B, 2015, 92, . | 1.1 | 33 |
| 84 | A Guided Stochastic Energy-Domain Formulation of the Second Order MÃ¸llerâ€“Plesset Perturbation Theory. Journal of Physical Chemistry Letters, 2014, 5, 185-189. | 2.1 | 32 |
| 85 | Exact calculation of the time convolutionless master equation generator: Application to the nonequilibrium resonant level model. Journal of Chemical Physics, 2015, 143, 234110. | 1.2 | 32 |
| 86 | Effect of Thermal Fluctuations on the Radiative Rate in Core/Shell Quantum Dots. Nano Letters, 2017, 17, 1629-1636. | 4.5 | 32 |
| 87 | Long lifetimes of high molecular Rydberg states in crossed magnetic and electric fields: An experimental and classical computational study. Physical Review A, 1995, 51, 3922-3933. | 1.0 | 31 |
| 88 | Feasible Nanometric Magnetoresistance Devices. Journal of Physical Chemistry B, 2004, 108, 14807-14810. | 1.2 | 30 |
| 89 | Magnetoresistance of nanoscale molecular devices based on Aharonovâ€“Bohm interferometry. Journal of Physics Condensed Matter, 2008, 20, 383201. | 0.7 | 30 |
| 90 | Stochastic Formulation of the Resolution of Identity: Application to Second Order MÃ¸llerâ€“Plesset Perturbation Theory. Journal of Chemical Theory and Computation, 2017, 13, 4605-4610. | 2.3 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Auger Recombination Lifetime Scaling for Type I and Quasi-Type II Core/Shell Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 5132-5138. | 2.1 | 30 |
| 92 | Colloidal Synthesis Path to 2D Crystalline Quantum Dot Superlattices. ACS Nano, 2021, 15, 2251-2262. | 7.3 | 30 |
| 93 | Dielectric Confinement and Excitonic Effects in Two-Dimensional Nanoplatelets. ACS Nano, 2020, 14, 8257-8265. | 7.3 | 29 |
| 94 | On the memory kernel and the reduced system propagator. Journal of Chemical Physics, 2018, 149, 104105. | 1.2 | 28 |
| 95 | Analytic continuation for quantum nonadiabatic rate constants. Journal of Chemical Physics, 2003, 118, 457-460. | 1.2 | 27 |
| 96 | Temperature dependence of light scattering from neat benzene with femtosecond pulses: are we seeing molecules librate?. The Journal of Physical Chemistry, 1992, 96, 10842-10848. | 2.9 | 26 |
| 97 | Calculating the hopping rate for diffusion in molecular liquids: CS2. Journal of Chemical Physics, 1999, 110, 3444-3452. | 1.2 | 26 |
| 98 | A Short-Time Quantum Mechanical Expansion Approach to Vibrational Relaxationâ€. Journal of Physical Chemistry B, 2001, 105, 6550-6555. | 1.2 | 26 |
| 99 | Collective and single-particle dynamics in liquid ortho -deuterium: A quantum mode-coupling approach. Europhysics Letters, 2002, 60, 656-662. | 0.7 | 25 |
| 100 | Inelastic Effects in Aharonov-Bohm Molecular Interferometers. Physical Review Letters, 2006, 97, 266803. | 2.9 | 25 |
| 101 | Overlapped embedded fragment stochastic density functional theory for covalently-bonded materials. Journal of Chemical Physics, 2019, 150, 034106. | 1.2 | 25 |
| 102 | Area and thickness dependence of Auger recombination in nanoplatelets. Journal of Chemical Physics, 2020, 153, 054104. | 1.2 | 25 |
| 103 | Spatial Delocalization inpara-H2Clustersâ€. Journal of Physical Chemistry B, 2006, 110, 18893-18897. | 1.2 | 23 |
| 104 | Stochastic density functional theory. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2019, 9, e1412. | 6.2 | 23 |
| 105 | Soluteâ€“solute potential of mean force in supercritical solvents: A nonlocal integral equation study. Journal of Chemical Physics, 2001, 115, 617-620. | 1.2 | 22 |
| 106 | Coarse-grained lattice models for drying-mediated self-assembly of nanoparticles. Journal of Materials Chemistry, 2009, 19, 2872. | 6.7 | 22 |
| 107 | Landauer current and mutual information. Physical Review B, 2015, 91, . | 1.1 | 22 |
| 108 | Theory of highly efficient multiexciton generation in type-II nanorods. Nature Communications, 2016, 7, 13178. | 5.8 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | The dynamics of Rydberg states of molecules in the intermediate regime: The role of the vibrations. Journal of Chemical Physics, 1996, 104, 1937-1952. | 1.2 | 21 |
| 110 | Uncovering the Role of Hole Traps in Promoting Hole Transfer from Multiexcitonic Quantum Dots to Molecular Acceptors. ACS Nano, 2021, 15, 2281-2291. | 7.3 | 21 |
| 111 | Response to â€œComment on a critique of the instantaneous normal mode (INM) approach to diffusionâ€• [J. Chem. Phys. 109, 4693 (1998)]. Journal of Chemical Physics, 1998, 109, 4695-4696. | 1.2 | 20 |
| 112 | Path-integral diffusion Monte Carlo: Calculation of observables of many-body systems in the ground state. Journal of Chemical Physics, 1999, 110, 6143-6153. | 1.2 | 20 |
| 113 | Multiexciton Generation in IVâ€“VI Nanocrystals: The Role of Carrier Effective Mass, Band Mixing, and Phonon Emission. Journal of Physical Chemistry Letters, 2013, 4, 317-322. | 2.1 | 20 |
| 114 | Phonon dynamics in correlated quantum systems driven away from equilibrium. Physical Review B, 2014, 90, . | 1.1 | 20 |
| 115 | Universal Inverse Scaling of Excitonâ€“Exciton Annihilation Coefficient with Exciton Lifetime. Nano Letters, 2021, 21, 424-429. | 4.5 | 20 |
| 116 | Lattice Gas Model for the Drying-Mediated Self-Assembly of Nanorods. Journal of Physical Chemistry C, 2010, 114, 11040-11049. | 1.5 | 19 |
| 117 | Steady state conductance in a double quantum dot array: The nonequilibrium equation-of-motion Green function approach. Journal of Chemical Physics, 2013, 138, 164125. | 1.2 | 19 |
| 118 | Equilibrium configurations of large nanostructures using the embedded saturated-fragments stochastic density functional theory. Journal of Chemical Physics, 2017, 146, 224111. | 1.2 | 19 |
| 119 | Linear-Response Time-Dependent Density Functional Theory with Stochastic Range-Separated Hybrids. Journal of Chemical Theory and Computation, 2020, 16, 1064-1072. | 2.3 | 19 |
| 120 | Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals. Nature Communications, 2021, 12, 1860. | 5.8 | 19 |
| 121 | Dynamics of Very High Molecular Rydberg States: The Intramolecular Processes. The Journal of Physical Chemistry, 1994, 98, 8834-8843. | 2.9 | 18 |
| 122 | A Quantitative Model for the Dynamics of High Rydberg States of Molecules: The Iterated Map and its Kinetic Limit. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 310-322. | 0.9 | 18 |
| 123 | Transport properties of normal liquid helium: Comparison of various methodologies. Journal of Chemical Physics, 2005, 123, 184506. | 1.2 | 18 |
| 124 | Formation of symmetric and asymmetric metalâ€“semiconductor hybrid nanoparticles. Physica Status Solidi (B): Basic Research, 2006, 243, 3952-3958. | 0.7 | 18 |
| 125 | Sub-Bandgap Photoinduced Transient Absorption Features in CdSe Nanostructures: The Role of Trapped Holes. Journal of Physical Chemistry C, 2020, 124, 17372-17378. | 1.5 | 18 |
| 126 | Engineering Exciton Recombination Pathways in Bilayer WSe<sub>2</sub> for Bright Luminescence. ACS Nano, 2022, 16, 1339-1345. | 7.3 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | A quasi-classical mapping approach to vibrationally coupled electron transport in molecular junctions. Journal of Chemical Physics, 2014, 140, 104110. | 1.2 | 17 |
| 128 | Stochastic Resolution of Identity for Real-Time Second-Order Greenâ€™s Function: Ionization Potential and Quasi-Particle Spectrum. Journal of Chemical Theory and Computation, 2019, 15, 6703-6711. | 2.3 | 17 |
| 129 | A coarse-grained model for a nanometer-scale molecular pump. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14661-14665. | 3.3 | 16 |
| 130 | Ultrahigh Hot Carrier Transient Photocurrent in Nanocrystal Arrays by Auger Recombination. Nano Letters, 2019, 19, 4804-4810. | 4.5 | 16 |
| 131 | Nonmonotonic temperature dependence of the rates of ion-molecule reactions. The Journal of Physical Chemistry, 1991, 95, 10551-10553. | 2.9 | 15 |
| 132 | Analytic continuation average spectrum method for quantum liquids. Journal of Chemical Physics, 2009, 131, 054502. | 1.2 | 15 |
| 133 | Quasiparticle spectra from molecules to bulk. Physical Review Materials, 2018, 2, . | 0.9 | 15 |
| 134 | Simulating Lattice Spin Models on Graphics Processing Units. Journal of Chemical Theory and Computation, 2010, 6, 3293-3301. | 2.3 | 14 |
| 135 | Communication: Biexciton generation rates in CdSe nanorods are length independent. Journal of Chemical Physics, 2013, 138, 051102. | 1.2 | 14 |
| 136 | A Cartesian quasi-classical model to nonequilibrium quantum transport: The Anderson impurity model. Journal of Chemical Physics, 2013, 138, 104110. | 1.2 | 14 |
| 137 | Assemblies of CdS Quantum Particles Studied by the Attenuated Low Energy Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 8631-8634. | 1.2 | 13 |
| 138 | Coverage-dependent self-organized ordering of Co- and Ti-silicide nanoislands along step-bunch edges of vicinal Si(111). Physical Review B, 2011, 83, . | 1.1 | 13 |
| 139 | A semiclassical model for the non-equilibrium quantum transport of a many-electron Hamiltonian coupled to phonons. Molecular Physics, 2012, 110, 743-750. | 0.8 | 13 |
| 140 | Spontaneous Charge Carrier Localization in Extended One-Dimensional Systems. Physical Review Letters, 2016, 116, 186401. | 2.9 | 13 |
| 141 | Simple eigenvalue-self-consistent Î”Â¯GW. Journal of Chemical Physics, 2018, 149, 174107. | 1.2 | 13 |
| 142 | Interplay of Surface and Interior Modes in Excitonâ€“Phonon Coupling at the Nanoscale. Nano Letters, 2021, 21, 8741-8748. | 4.5 | 13 |
| 143 | Energy window stochastic density functional theory. Journal of Chemical Physics, 2019, 151, 114116. | 1.2 | 12 |
| 144 | Stochastic embedding DFT: Theory and application to p-nitroaniline in water. Journal of Chemical Physics, 2019, 151, 174115. | 1.2 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Simulations of nonradiative processes in semiconductor nanocrystals. Journal of Chemical Physics, 2022, 157, . | 1.2 | 12 |
| 146 | Magnetoresistance devices based on single-walled carbon nanotubes. Journal of Chemical Physics, 2005, 123, 051103. | 1.2 | 10 |
| 147 | Symmetry breaking and restoration using the equation-of-motion technique for nonequilibrium quantum impurity models. Journal of Physics Condensed Matter, 2013, 25, 115302. | 0.7 | 10 |
| 148 | Transition to metallization in warm dense helium-hydrogen mixtures using stochastic density functional theory within the Kubo-Greenwood formalism. Physical Review B, 2019, 100, . | 1.1 | 10 |
| 149 | Chemical equilibrium in supercritical fluids: Solvent effects on the dimerization equilibrium constant. Journal of Chemical Physics, 2002, 116, 8447. | 1.2 | 9 |
| 150 | Periodic negative differential conductance in a single metallic nanocage. Physical Review B, 2012, 86, . | 1.1 | 9 |
| 151 | Stochastic resolution of identity second-order Matsubara Greenâ€™s function theory. Journal of Chemical Physics, 2019, 151, 044114. | 1.2 | 9 |
| 152 | Stochastic Vector Techniques in Ground-State Electronic Structure. Annual Review of Physical Chemistry, 2022, 73, 255-272. | 4.8 | 9 |
| 153 | Classical mapping for Hubbard operators: Application to the double-Anderson model. Journal of Chemical Physics, 2014, 140, 204106. | 1.2 | 8 |
| 154 | Stochastic density functional theory: Real- and energy-space fragmentation for noise reduction. Journal of Chemical Physics, 2021, 154, 204108. | 1.2 | 8 |
| 155 | Response theory for nonequilibrium steady states of open quantum systems. Physical Review Research, 2021, 3, . | 1.3 | 8 |
| 156 | Rabani, Gezelter, and Berne Reply:. Physical Review Letters, 2000, 85, 467-467. | 2.9 | 7 |
| 157 | Multiexciton Generation in Seeded Nanorods. Journal of Physical Chemistry Letters, 2014, 5, 2580-2585. | 2.1 | 7 |
| 158 | First-principles spectra of Au nanoparticles: from quantum to classical absorption. Molecular Physics, 2018, 116, 2506-2511. | 0.8 | 7 |
| 159 | Absence of Coulomb Blockade in the Anderson Impurity Model at the Symmetric Point. Journal of Physical Chemistry C, 2019, 123, 13538-13544. | 1.5 | 7 |
| 160 | Role of Atomic Structure on Exciton Dynamics and Photoluminescence in NIR Emissive InAs/InP/ZnSe Quantum Dots. Journal of Physical Chemistry C, 2022, 126, 7576-7587. | 1.5 | 7 |
| 161 | Analytic continuation average spectrum method for transport in quantum liquids. Chemical Physics, 2010, 370, 132-136. | 0.9 | 6 |
| 162 | On the mode-coupling treatment of collective density fluctuations for quantum liquids: Para-hydrogen and normal liquid helium. Journal of Chemical Physics, 2011, 134, 044528. | 1.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | A complete quasiclassical map for the dynamics of interacting fermions. Journal of Chemical Physics, 2019, 150, 234112. | 1.2 | 6 |
| 164 | Range-separated stochastic resolution of identity: Formulation and application to second-order Greenâ€™s function theory. Journal of Chemical Physics, 2020, 153, 074113. | 1.2 | 6 |
| 165 | Efficient Langevin dynamics for â€œnoisyâ€•forces. Journal of Chemical Physics, 2020, 152, 161103. | 1.2 | 6 |
| 166 | Mode-coupling theory for reaction dynamics in liquids. Journal of Chemical Physics, 2004, 120, 6642-6647. | 1.2 | 5 |
| 167 | Quantum mode-coupling theory for binary mixtures. Journal of Chemical Physics, 2005, 122, 034502. | 1.2 | 5 |
| 168 | Dopant levels in large nanocrystals using stochastic optimally tuned range-separated hybrid density functional theory. Physical Review B, 2020, 102, . | 1.1 | 5 |
| 169 | Nonuniqueness of generalized quantum master equations for a single observable. Journal of Chemical Physics, 2021, 155, 156101. | 1.2 | 5 |
| 170 | Nonmonotonic band gap evolution in bent phosphorene nanosheets. Physical Review Materials, 2019, 3, . | 0.9 | 5 |
| 171 | Forces from Stochastic Density Functional Theory under Nonorthogonal Atom-Centered Basis Sets. Journal of Chemical Theory and Computation, 2022, 18, 1458-1466. | 2.3 | 5 |
| 172 | Errors and Error Tolerance in Irreversible Multistep Growth of Nanostructures. Journal of Physical Chemistry C, 2011, 115, 5181-5198. | 1.5 | 4 |
| 173 | Analytical continuation approaches to electronic transport: The resonant level model. Journal of Chemical Physics, 2012, 137, 214107. | 1.2 | 3 |
| 174 | Localization dynamics in a centrally coupled system. Physical Review B, 2021, 103, . | 1.1 | 3 |
| 175 | Tempering stochastic density functional theory. Journal of Chemical Physics, 2021, 155, 204105. | 1.2 | 3 |
| 176 | Energy Dissipation in Nonlinear Systems Coupled to a Bath:Â On the Use of Perturbative Maps. Journal of Physical Chemistry A, 1998, 102, 9380-9389. | 1.1 | 2 |
| 177 | Quantum Mode Coupling Theory and Path Integral Monte Carlo. AIP Conference Proceedings, 2003, , . | 0.3 | 2 |
| 178 | Negative differential spin conductance by population switching. Molecular Physics, 2008, 106, 341-347. | 0.8 | 2 |
| 179 | Stochastically Realized Observables for Excitonic Molecular Aggregates. Journal of Physical Chemistry A, 2020, 124, 10111-10120. | 1.1 | 2 |
| 180 | Structural relaxation in quantum supercooled liquids: A mode-coupling approach. Journal of Chemical Physics, 2021, 154, 014502. | 1.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Long-time memory effects in a localizable central spin problem. New Journal of Physics, 2022, 24, 013025. | 1.2 | 2 |
| 182 | Tagged particle dynamics in supercooled quantum liquids. Physical Review E, 2022, 105, . | 0.8 | 2 |
| 183 | Foreword by the Guest Editors: Computational Chemistry of Quantum Mechanical Processes. Israel Journal of Chemistry, 2002, 42, i-i. | 1.0 | 0 |
| 184 | Guest Editorial: Nanochemistry: Special Issue in Honor of the Wolf Prize Laureates in Chemistry for 2012, Professors A.â€...Paul Alivisatos and Charlesâ€...M. Lieber. Israel Journal of Chemistry, 2012, 52, 971-971. | 1.0 | 0 |
| 185 | This special thematic issue of chemical physics â€˜Energy and entropy of change: From elementary processes to biologyâ€™ celebrates the 80th birthday of Prof. Raphael D. Levine, known as Raphy. Chemical Physics, 2018, 514, 1-3. | 0.9 | 0 |
| 186 | Frequency-dependent specific heat in quantum supercooled liquids: A mode-coupling study. Journal of Chemical Physics, 2021, 154, 164512. | 1.2 | 0 |