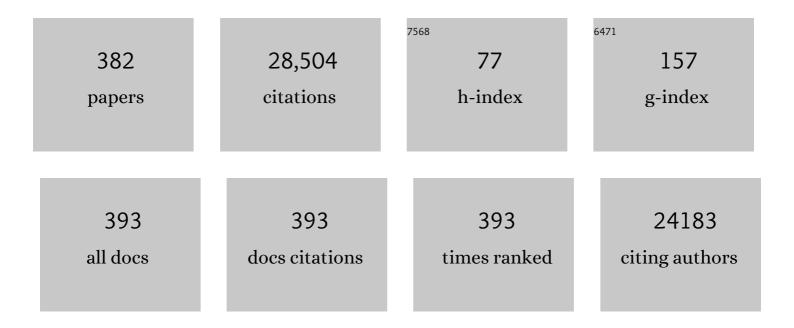
List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Nature of electronic excitations in small non-stoichiometric quantum dots. Journal of Materials<br>Chemistry A, 2022, 10, 5212-5220.   | 10.3 | 10        |
| 2  | Vibronic Photoexcitation Dynamics of Perylene Diimide: Computational Insights. Journal of Physical Chemistry A, 2022, 126, 733-741.  | 2.5  | 1         |
| 3  | Induced Chirality in Halide Perovskite Clusters through Surface Chemistry. Journal of Physical<br>Chemistry Letters, 2022, 13, 686-693.  | 4.6  | 12        |
| 4  | Long carrier diffusion length in two-dimensional lead halide perovskite single crystals. CheM, 2022, 8, 1107-1120.   | 11.7 | 29        |
| 5  | Sampling electronic structure quadratic unconstrained binary optimization problems (QUBOs) with Ocean and Mukai solvers. PLoS ONE, 2022, 17, e0263849.   | 2.5  | 5         |
| 6  | Plasmon-Enhanced Exciton Delocalization in Squaraine-Type Molecular Aggregates. ACS Nano, 2022, 16, 4693-4704.   | 14.6 | 6         |
| 7  | Ultrafast coherent photoexcited dynamics in a trimeric dendrimer probed by X-ray stimulated-Raman<br>signals. Chemical Science, 2022, 13, 6373-6384.   | 7.4  | 5         |
| 8  | Control of Polaronic Behavior and Carrier Lifetimes via Metal and Anion Alloying in Chalcogenide<br>Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 4955-4962.                       | 4.6  | 7         |
| 9  | Toward a QUBO-Based Density Matrix Electronic Structure Method. Journal of Chemical Theory and Computation, 2022, 18, 4177-4185.   | 5.3  | 2         |
| 10 | Point Defects in Two-Dimensional Ruddlesden–Popper Perovskites Explored with Ab Initio<br>Calculations. Journal of Physical Chemistry Letters, 2022, 13, 5213-5219.                                | 4.6  | 11        |
| 11 | Impact of Graphene Quantum Dot Edge Morphologies on Their Optical Properties. Journal of Physical<br>Chemistry Letters, 2022, 13, 5801-5807.   | 4.6  | 5         |
| 12 | Two Dimensional MOene: From Superconductors to Direct Semiconductors and Weyl Fermions. Nano<br>Letters, 2022, 22, 5592-5599.  | 9.1  | 8         |
| 13 | Deep learning of dynamically responsive chemical Hamiltonians with semiempirical quantum<br>mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, | 7.1  | 19        |
| 14 | (Invited) Theoretical Insight into New Strategies of Carbon Nanotube Functionalization. ECS Meeting<br>Abstracts, 2022, MA2022-01, 738-738.  | 0.0  | 0         |
| 15 | Intermolecular conical intersections in molecular aggregates. Nature Nanotechnology, 2021, 16, 63-68.  | 31.5 | 22        |
| 16 | Exciton Spatial Dynamics and Self-Trapping in Carbon Nanocages. Journal of Physical Chemistry Letters, 2021, 12, 224-231.  | 4.6  | 3         |
| 17 | Monitoring molecular vibronic coherences in a bichromophoric molecule by ultrafast X-ray spectroscopy. Chemical Science, 2021, 12, 5286-5294.  | 7.4  | 16        |
| 18 | Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. Nature Communications, 2021, 12, 673.   | 12.8 | 13        |

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|----|--|------|-----------|
| 19 | Automated discovery of a robust interatomic potential for aluminum. Nature Communications, 2021, 12, 1257.   | 12.8 | 47        |
| 20 | Interplay between Electrostatic Properties of Molecular Adducts and Their Positions at Carbon Nanotubes. Journal of Physical Chemistry C, 2021, 125, 4785-4793.        | 3.1  | 10        |
| 21 | Reduction of the molecular hamiltonian matrix using quantum community detection. Scientific Reports, 2021, 11, 4099.   | 3.3  | 11        |
| 22 | Nonadiabatic Excited-State Molecular Dynamics Methodologies: Comparison and Convergence.<br>Journal of Physical Chemistry Letters, 2021, 12, 2970-2982.                | 4.6  | 20        |
| 23 | Tunable Optical Features of Graphene Quantum Dots from Edge Functionalization. Journal of Physical Chemistry C, 2021, 125, 9244-9252.                                  | 3.1  | 23        |
| 24 | Millimeterâ€Size Allâ€inorganic Perovskite Crystalline Thin Film Grown by Chemical Vapor Deposition.<br>Advanced Functional Materials, 2021, 31, 2101058.              | 14.9 | 19        |
| 25 | Enantioselectivity in the Noyori–lkariya Asymmetric Transfer Hydrogenation of Ketones.<br>Organometallics, 2021, 40, 1402-1410.  | 2.3  | 24        |
| 26 | An Ab Initio Multiple Cloning Method for Non-Adiabatic Excited-State Molecular Dynamics in NWChem.<br>Journal of Chemical Theory and Computation, 2021, 17, 3629-3643. | 5.3  | 15        |
| 27 | (Invited) Theoretical Insights into New Strategies of Carbon Nanotube Functionalization. ECS Meeting<br>Abstracts, 2021, MA2021-01, 575-575.                           | 0.0  | 0         |
| 28 | Nonadiabatic Molecular Dynamics Study of the Relaxation Pathways of Photoexcited Cyclooctatetraene. Journal of Physical Chemistry Letters, 2021, 12, 5716-5722.        | 4.6  | 5         |
| 29 | Photoinduced Energy Transfer in Linear Guest–Host Chromophores: A Computational Study. Journal<br>of Physical Chemistry A, 2021, 125, 5303-5313.                       | 2.5  | 5         |
| 30 | Machine learned Hückel theory: Interfacing physics and deep neural networks. Journal of Chemical<br>Physics, 2021, 154, 244108.  | 3.0  | 25        |
| 31 | Cesium-Coated Halide Perovskites as a Photocathode Material: Modeling Insights. Journal of Physical<br>Chemistry Letters, 2021, 12, 6269-6276.                         | 4.6  | 7         |
| 32 | The Rise of Neural Networks for Materials and Chemical Dynamics. Journal of Physical Chemistry<br>Letters, 2021, 12, 6227-6243.  | 4.6  | 39        |
| 33 | Coupling between Emissive Defects on Carbon Nanotubes: Modeling Insights. Journal of Physical<br>Chemistry Letters, 2021, 12, 7846-7853.                               | 4.6  | 10        |
| 34 | Hot Carrier Dynamics at Ligated Silicon(111) Surfaces: A Computational Study. Journal of Physical<br>Chemistry Letters, 2021, 12, 7504-7511.                           | 4.6  | 3         |
| 35 | Teaching a neural network to attach and detach electrons from molecules. Nature Communications, 2021, 12, 4870.  | 12.8 | 46        |
| 36 | Robust Unencapsulated Perovskite Solar Cells Protected by a Fluorinated Fullerene Electron<br>Transporting Layer. ACS Energy Letters, 2021, 6, 3376-3385.              | 17.4 | 27        |

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| 37 | Computing molecular excited states on a D-Wave quantum annealer. Scientific Reports, 2021, 11, 18796.   | 3.3  | 16        |
| 38 | Enhanced Emission from Bright Excitons in Asymmetrically Strained Colloidal<br>CdSe/Cd <sub><i>x</i></sub> Zn <sub>1–<i>x</i></sub> Se Quantum Dots. ACS Nano, 2021, 15, 14444-14452.                   | 14.6 | 9         |
| 39 | Excitation Energy Transfer between bodipy Dyes in a Symmetric Molecular Excitonic Seesaw. Journal of Physical Chemistry A, 2021, 125, 8404-8416.  | 2.5  | 2         |
| 40 | Photoluminescence Dynamics Defined by Exciton Trapping Potential of Coupled Defect States in DNA-Functionalized Carbon Nanotubes. ACS Nano, 2021, 15, 923-933.  | 14.6 | 15        |
| 41 | Predicting phosphorescence energies and inferring wavefunction localization with machine learning.<br>Chemical Science, 2021, 12, 10207-10217.  | 7.4  | 14        |
| 42 | Excited-State Properties of Defected Halide Perovskite Quantum Dots: Insights from Computation.<br>Journal of Physical Chemistry Letters, 2021, 12, 1005-1011.  | 4.6  | 15        |
| 43 | Microcrystal Electron Diffraction for Molecular Design of Functional Non-Fullerene Acceptor<br>Structures. Chemistry of Materials, 2021, 33, 966-977.   | 6.7  | 12        |
| 44 | Structural Dynamics and Electronic Properties of Semiconductor Quantum Dots: Computational<br>Insights. Chemistry of Materials, 2021, 33, 7848-7857.  | 6.7  | 14        |
| 45 | Back-and-Forth Energy Transfer during Electronic Relaxation in a Chlorin–Perylene Dyad. Journal of<br>Physical Chemistry Letters, 2021, 12, 10394-10401.  | 4.6  | 1         |
| 46 | Single-Layer Dititanium Oxide Ti <sub>2</sub> 0 MOene: Multifunctional Promises for Electride, Anode<br>Materials, and Superconductor. Journal of Physical Chemistry Letters, 2021, 12, 494-500.        | 4.6  | 12        |
| 47 | Nonadiabatic molecular dynamics analysis of hybrid Dion–Jacobson 2D leads iodide perovskites.<br>Applied Physics Letters, 2021, 119, .  | 3.3  | 9         |
| 48 | Frenkel biexcitons in hybrid HJ photophysical aggregates. Science Advances, 2021, 7, eabi5197.  | 10.3 | 10        |
| 49 | Recent advances of novel ultrathin two-dimensional silicon carbides from a theoretical perspective.<br>Nanoscale, 2020, 12, 4269-4282.  | 5.6  | 31        |
| 50 | Importance of Vacancies and Doping in the Hole-Transporting Nickel Oxide Interface with Halide<br>Perovskites. ACS Applied Materials & Interfaces, 2020, 12, 6633-6640.                                 | 8.0  | 21        |
| 51 | Photoinduced Dynamics with Constrained Vibrational Motion: FrozeNM Algorithm. Journal of Chemical Theory and Computation, 2020, 16, 7289-7298.  | 5.3  | 7         |
| 52 | Vibrational energy redistribution during donor–acceptor electronic energy transfer: criteria to<br>identify subsets of active normal modes. Physical Chemistry Chemical Physics, 2020, 22, 18454-18466. | 2.8  | 14        |
| 53 | An extended moments model of quantum efficiency for metals and semiconductors. Journal of Applied Physics, 2020, 128, .   | 2.5  | 6         |
| 54 | Passivating Nucleobases Bring Charge Transfer Character to Optically Active Transitions in Small<br>Silver Nanoclusters. Journal of Physical Chemistry A, 2020, 124, 8931-8942.                         | 2.5  | 3         |

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| 55 | Charge carrier dynamics in two-dimensional hybrid perovskites: Dion–Jacobson <i>vs.</i> Ruddlesden–Popper phases. Journal of Materials Chemistry A, 2020, 8, 22009-22022.  | 10.3 | 72        |
| 56 | Role of the Metal–Semiconductor Interface in Halide Perovskite Devices for Radiation Photon<br>Counting. ACS Applied Materials & Interfaces, 2020, 12, 45533-45540.  | 8.0  | 21        |
| 57 | Hot Carrier Cooling and Recombination Dynamics of Chlorine-Doped Hybrid Perovskite Single<br>Crystals. Journal of Physical Chemistry Letters, 2020, 11, 8430-8436.   | 4.6  | 11        |
| 58 | Machine learning approaches for structural and thermodynamic properties of a Lennard-Jones fluid.<br>Journal of Chemical Physics, 2020, 153, 104502.   | 3.0  | 22        |
| 59 | Controlling Defect-State Photophysics in Covalently Functionalized Single-Walled Carbon<br>Nanotubes. Accounts of Chemical Research, 2020, 53, 1791-1801.  | 15.6 | 52        |
| 60 | First Principles Nonadiabatic Excited-State Molecular Dynamics in NWChem. Journal of Chemical Theory and Computation, 2020, 16, 6418-6427.   | 5.3  | 20        |
| 61 | Electronic structure with direct diagonalization on a D-wave quantum annealer. Scientific Reports, 2020, 10, 20753.  | 3.3  | 18        |
| 62 | The ANI-1ccx and ANI-1x data sets, coupled-cluster and density functional theory properties for molecules. Scientific Data, 2020, 7, 134.  | 5.3  | 104       |
| 63 | Electronic Energy Relaxation in a Photoexcited Fully Fused Edge-Sharing Carbon Nanobelt. Journal of Physical Chemistry Letters, 2020, 11, 4711-4719.   | 4.6  | 8         |
| 64 | <i>Ex Machina</i> Determination of Structural Correlation Functions. Journal of Physical Chemistry Letters, 2020, 11, 4372-4378.   | 4.6  | 7         |
| 65 | Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid<br>Organic–Inorganic Perovskites on Macro- and Nanoscales. ACS Applied Materials & Interfaces,<br>2020, 12, 15380-15388. | 8.0  | 5         |
| 66 | Nonadiabatic Excited-State Molecular Dynamics for Open-Shell Systems. Journal of Chemical Theory and Computation, 2020, 16, 2053-2064.   | 5.3  | 10        |
| 67 | Optoelectronic Properties of Two-Dimensional Bromide Perovskites: Influences of Spacer Cations.<br>Journal of Physical Chemistry Letters, 2020, 11, 2955-2964.   | 4.6  | 50        |
| 68 | Polarons in Halide Perovskites: A Perspective. Journal of Physical Chemistry Letters, 2020, 11, 3271-3286.   | 4.6  | 110       |
| 69 | Methylammonium Lead Tribromide Single Crystal Detectors towards Robust Gammaâ€Ray Photon<br>Sensing. Advanced Optical Materials, 2020, 8, 2000233.   | 7.3  | 18        |
| 70 | Photoexcited energy relaxation and vibronic couplings in π-conjugated carbon nanorings. Physical<br>Chemistry Chemical Physics, 2020, 22, 15321-15332.   | 2.8  | 4         |
| 71 | Graphics Processing Unit-Accelerated Semiempirical Born Oppenheimer Molecular Dynamics Using PyTorch. Journal of Chemical Theory and Computation, 2020, 16, 4951-4962.   | 5.3  | 24        |
| 72 | NEXMD Software Package for Nonadiabatic Excited State Molecular Dynamics Simulations. Journal of<br>Chemical Theory and Computation, 2020, 16, 5771-5783.  | 5.3  | 56        |

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| 73 | Analytic model of electron transport through and over non-linear barriers. Journal of Applied<br>Physics, 2020, 127, 235301.  | 2.5  | 16        |
| 74 | Non-adiabatic Excited-State Molecular Dynamics: Theory and Applications for Modeling Photophysics in Extended Molecular Materials. Chemical Reviews, 2020, 120, 2215-2287.              | 47.7 | 231       |
| 75 | Critical Role of Organic Spacers for Bright 2D Layered Perovskites Lightâ€Emitting Diodes. Advanced<br>Science, 2020, 7, 1903202.   | 11.2 | 39        |
| 76 | Multifunctional Cellulose Nanocrystals as a High-Efficient Polysulfide Stopper for Practical Li–S<br>Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17592-17601.              | 8.0  | 22        |
| 77 | Hidden Fine Structure of Quantum Defects Revealed by Single Carbon Nanotube<br>Magneto-Photoluminescence. ACS Nano, 2020, 14, 3451-3460.  | 14.6 | 14        |
| 78 | Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide<br>Perovskites. Chemistry of Materials, 2020, 32, 1854-1863.                           | 6.7  | 46        |
| 79 | The working principle of hybrid perovskite gamma-ray photon counter. Materials Today, 2020, 37, 27-34.  | 14.2 | 22        |
| 80 | A sensitive and robust thin-film x-ray detector using 2D layered perovskite diodes. Science Advances, 2020, 6, eaay0815.  | 10.3 | 153       |
| 81 | Vibronic Quantum Beating between Electronic Excited States in a Heterodimer. Journal of Physical Chemistry B, 2020, 124, 3992-4001.   | 2.6  | 12        |
| 82 | Experimental and theoretical study of energy transfer in a chromophore triad: What makes modeling dynamics successful?. Journal of Chemical Physics, 2020, 153, 244114.                 | 3.0  | 8         |
| 83 | Photoexcitation dynamics in perylene diimide dimers. Journal of Chemical Physics, 2020, 153, 244117.  | 3.0  | 8         |
| 84 | (Invited) Controlling Defect-State Emission in Covalently Functionalized Single-Walled Carbon<br>Nanotubes: A Theoretical Perspective. ECS Meeting Abstracts, 2020, MA2020-01, 692-692. | 0.0  | 0         |
| 85 | Ultrafast nonadiabatic dynamics through an intermolecular conical intersection. , 2020, , .   |      | 0         |
| 86 | Lattice Expansion in Hybrid Perovskites: Effect on Optoelectronic Properties and Charge Carrier<br>Dynamics. Journal of Physical Chemistry Letters, 2019, 10, 5000-5007.                | 4.6  | 60        |
| 87 | Tuning Optical Properties of Conjugated Molecules by Lewis Acids: Insights from Electronic<br>Structure Modeling. Journal of Physical Chemistry Letters, 2019, 10, 4632-4638.           | 4.6  | 14        |
| 88 | Approaching coupled cluster accuracy with a general-purpose neural network potential through transfer learning. Nature Communications, 2019, 10, 2903.                                  | 12.8 | 399       |
| 89 | Non-adiabatic molecular dynamics of molecules in the presence of strong light-matter interactions.<br>Journal of Chemical Physics, 2019, 151, 154109.                                   | 3.0  | 24        |
| 90 | Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. Nano<br>Letters, 2019, 19, 8732-8740.   | 9.1  | 41        |

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| 91  | Halide Perovskite High- <i>k</i> Field Effect Transistors with Dynamically Reconfigurable Ambipolarity.<br>, 2019, 1, 633-640.   |      | 29        |
| 92  | Mod(n-m,3) Dependence of Defect-State Emission Bands in Aryl-Functionalized Carbon Nanotubes. Nano<br>Letters, 2019, 19, 8503-8509.  | 9.1  | 22        |
| 93  | Numerical tests of coherence-corrected surface hopping methods using a donor-bridge-acceptor model system. Journal of Chemical Physics, 2019, 150, 194104.   | 3.0  | 17        |
| 94  | Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. Journal of Physical Chemistry<br>Letters, 2019, 10, 3516-3524.  | 4.6  | 33        |
| 95  | Ground-State Geometry and Vibrations of Polyphenylenevinylene Oligomers. Journal of Physical Chemistry Letters, 2019, 10, 3232-3239.   | 4.6  | 14        |
| 96  | Optical Effects of Divalent Functionalization of Carbon Nanotubes. Chemistry of Materials, 2019, 31, 6950-6961.  | 6.7  | 33        |
| 97  | Intrinsic limits of defect-state photoluminescence dynamics in functionalized carbon nanotubes.<br>Nanoscale, 2019, 11, 9125-9132.   | 5.6  | 17        |
| 98  | Photoinduced non-adiabatic energy transfer pathways in dendrimer building blocks. Journal of<br>Chemical Physics, 2019, 150, 124301.   | 3.0  | 15        |
| 99  | Atomistic Simulations of Plasmon Mediated Photochemistry. ACS Symposium Series, 2019, , 239-256.   | 0.5  | 2         |
| 100 | Plasmonic Hot-Carrier-Mediated Solar Energy Conversion and Tunablephotochemical Reactions. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 101 | (Invited) Modeling Insights into Optical Properties of Functionalized Carbon Nanotubes. ECS Meeting<br>Abstracts, 2019, , .  | 0.0  | 0         |
| 102 | Solution-processed 2D layered perovksites for high-sensitivity X-ray detector. Acta Crystallographica<br>Section A: Foundations and Advances, 2019, 75, a224-a224.   | 0.1  | 0         |
| 103 | Density of States Broadening in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskites<br>Understood from ab Initio Molecular Dynamics Simulations. ACS Energy Letters, 2018, 3, 787-793.       | 17.4 | 28        |
| 104 | Composite Nature of Layered Hybrid Perovskites: Assessment on Quantum and Dielectric Confinements and Band Alignment. ACS Nano, 2018, 12, 3321-3332.   | 14.6 | 146       |
| 105 | Universal Scaling of Intrinsic Resistivity in Twoâ€Dimensional Metallic Borophene. Angewandte Chemie -<br>International Edition, 2018, 57, 4585-4589.  | 13.8 | 25        |
| 106 | Correction Scheme for Comparison of Computed and Experimental Optical Transition Energies in<br>Functionalized Single-Walled Carbon Nanotubes. Journal of Physical Chemistry Letters, 2018, 9,<br>2460-2468. | 4.6  | 21        |
| 107 | Light-induced lattice expansion leads to high-efficiency perovskite solar cells. Science, 2018, 360, 67-70.  | 12.6 | 554       |
| 108 | Extended Lagrangian Excited State Molecular Dynamics. Journal of Chemical Theory and Computation, 2018, 14, 799-806.   | 5.3  | 8         |

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| 109 | Stable Lightâ€Emitting Diodes Using Phaseâ€Pure Ruddlesden–Popper Layered Perovskites. Advanced<br>Materials, 2018, 30, 1704217.  | 21.0 | 258       |
| 110 | Lowest-Energy Crystalline Polymorphs of P3HT. Journal of Physical Chemistry C, 2018, 122, 9141-9151.  | 3.1  | 18        |
| 111 | Ab initio study of two-dimensional PdPS as an ideal light harvester and promising catalyst for hydrogen evolution reaction. Materials Today Energy, 2018, 7, 136-140.   | 4.7  | 24        |
| 112 | Design principles from multiscale simulations to predict nanostructure in self-assembling ionic liquids. Faraday Discussions, 2018, 206, 159-181.   | 3.2  | 9         |
| 113 | Critical Role of Interface and Crystallinity on the Performance and Photostability of Perovskite Solar<br>Cell on Nickel Oxide. Advanced Materials, 2018, 30, 1703879.  | 21.0 | 198       |
| 114 | The crucial role of a spacer material on the efficiency of charge transfer processes in organic donor–acceptor junction solar cells. Nanoscale, 2018, 10, 451-459.  | 5.6  | 5         |
| 115 | Exciton Localization and Optical Emission in Aryl-Functionalized Carbon Nanotubes. Journal of Physical Chemistry C, 2018, 122, 1828-1838.   | 3.1  | 58        |
| 116 | Single Crystal Microwires of <i>p</i> â€DTS(FBTTh <sub>2</sub> ) <sub>2</sub> and Their Use in the<br>Fabrication of Fieldâ€Effect Transistors and Photodetectors. Advanced Functional Materials, 2018, 28,<br>1702073. | 14.9 | 22        |
| 117 | Energy transfer and spatial scrambling of an exciton in a conjugated dendrimer. Physical Chemistry<br>Chemical Physics, 2018, 20, 29648-29660.  | 2.8  | 15        |
| 118 | Dipolar and charged localized excitons in carbon nanotubes. Physical Review B, 2018, 98, .  | 3.2  | 9         |
| 119 | Interlayer-Decoupled Sc-Based Mxene with High Carrier Mobility and Strong Light-Harvesting Ability.<br>Journal of Physical Chemistry Letters, 2018, 9, 6915-6920.   | 4.6  | 49        |
| 120 | NEXMD Modeling of Photoisomerization Dynamics of 4-Styrylquinoline. Journal of Physical Chemistry<br>A, 2018, 122, 9403-9411.   | 2.5  | 10        |
| 121 | Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide<br>Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 7130-7136.   | 4.6  | 52        |
| 122 | Let Digons be Bygones: The Fate of Excitons in Curved π-Systems. Journal of Physical Chemistry Letters, 2018, 9, 7123-7129.   | 4.6  | 14        |
| 123 | Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. Nature Chemistry, 2018, 10, 1089-1095.  | 13.6 | 78        |
| 124 | Site-Specific Photodecomposition in Conjugated Energetic Materials. Journal of Physical Chemistry A, 2018, 122, 6055-6061.  | 2.5  | 8         |
| 125 | Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite.<br>Nature Communications, 2018, 9, 2525.  | 12.8 | 129       |
| 126 | Transferable Dynamic Molecular Charge Assignment Using Deep Neural Networks. Journal of Chemical<br>Theory and Computation, 2018, 14, 4687-4698.  | 5.3  | 81        |

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| 127 | Concept of Lattice Mismatch and Emergence of Surface States in Two-dimensional Hybrid Perovskite<br>Quantum Wells. Nano Letters, 2018, 18, 5603-5609.  | 9.1  | 103       |
| 128 | Discovering a Transferable Charge Assignment Model Using Machine Learning. Journal of Physical Chemistry Letters, 2018, 9, 4495-4501.  | 4.6  | 88        |
| 129 | Modification of Optical Properties and Excited-State Dynamics by Linearizing Cyclic Paraphenylene<br>Chromophores. Journal of Physical Chemistry C, 2018, 122, 16639-16648.  | 3.1  | 12        |
| 130 | Solvent- and Wavelength-Dependent Photoluminescence Relaxation Dynamics of Carbon Nanotube<br>sp <sup>3</sup> Defect States. ACS Nano, 2018, 12, 8060-8070.  | 14.6 | 41        |
| 131 | Plasmonic Hot-Carrier-Mediated Tunable Photochemical Reactions. ACS Nano, 2018, 12, 8415-8422.   | 14.6 | 75        |
| 132 | Scaling law for excitons in 2D perovskite quantum wells. Nature Communications, 2018, 9, 2254.   | 12.8 | 559       |
| 133 | Photoexcited Nonadiabatic Dynamics of Solvated Push–Pull π-Conjugated Oligomers with the NEXMD<br>Software. Journal of Chemical Theory and Computation, 2018, 14, 3955-3966.   | 5.3  | 39        |
| 134 | Coherent exciton-vibrational dynamics and energy transfer in conjugated organics. Nature Communications, 2018, 9, 2316.  | 12.8 | 71        |
| 135 | An <i>ab initio</i> multiple cloning approach for the simulation of photoinduced dynamics in conjugated molecules. Physical Chemistry Chemical Physics, 2018, 20, 17762-17772.   | 2.8  | 26        |
| 136 | Influence of <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>ï€</mml:mi> -conjugated<br/>cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid<br/>perovskites. Physical Review Materials, 2018, 2, .</mml:math<br> | 2.4  | 24        |
| 137 | Solvent effects and charge transfer states in organic photovoltaics: a time-dependent density functional theory study on the PCPDTBT:PCBM low band gap system. Journal of Photonics for Energy, 2018, 8, 1.  | 1.3  | 1         |
| 138 | Molecular dynamics and charge transport in organic semiconductors: a classical approach to modeling electron transfer. Chemical Science, 2017, 8, 2597-2609.   | 7.4  | 13        |
| 139 | Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite<br>Solar Cells. Advanced Energy Materials, 2017, 7, 1602159.  | 19.5 | 130       |
| 140 | Extremely efficient internal exciton dissociation through edge states in layered 2D perovskites.<br>Science, 2017, 355, 1288-1292.   | 12.6 | 830       |
| 141 | Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A<br>TD-DFT study. Journal of Chemical Physics, 2017, 146, 114308.  | 3.0  | 13        |
| 142 | Photoinduced Intra- and Intermolecular Energy Transfer in ChlorophyllaDimer. Journal of Physical Chemistry B, 2017, 121, 5331-5339.  | 2.6  | 30        |
| 143 | Computational Dissection of Two-Dimensional Rectangular Titanium Mononitride TiN: Auxetics and Promises for Photocatalysis. Nano Letters, 2017, 17, 4466-4472.   | 9.1  | 104       |
| 144 | Electronic Delocalization, Vibrational Dynamics, and Energy Transfer in Organic Chromophores.<br>Journal of Physical Chemistry Letters, 2017, 8, 3020-3031.  | 4.6  | 59        |

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| 145 | Phonon bottleneck and long-lived excited states in π-conjugated pyrene hoop. Physical Chemistry<br>Chemical Physics, 2017, 19, 9478-9484.  | 2.8  | 12        |
| 146 | Ultrafast Non-Förster Intramolecular Donor–Acceptor Excitation Energy Transfer. Journal of<br>Physical Chemistry Letters, 2017, 8, 1688-1694.  | 4.6  | 20        |
| 147 | Vibrational states of nano-confined water molecules in beryl investigated by first-principles calculations and optical experiments. Physical Chemistry Chemical Physics, 2017, 19, 30740-30748.                              | 2.8  | 16        |
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