

# Sergei Tretiak

## List of Publications by Year in descending order

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382  
papers

28,504  
citations

7561

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6465

157  
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393  
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393  
docs citations

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times ranked

24183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nature of electronic excitations in small non-stoichiometric quantum dots. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5212-5220.	5.2	10
2	Vibronic Photoexcitation Dynamics of Perylene Diimide: Computational Insights. <i>Journal of Physical Chemistry A</i> , 2022, 126, 733-741.	1.1	1
3	Induced Chirality in Halide Perovskite Clusters through Surface Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 686-693.	2.1	12
4	Long carrier diffusion length in two-dimensional lead halide perovskite single crystals. <i>CheM</i> , 2022, 8, 1107-1120.	5.8	29
5	Sampling electronic structure quadratic unconstrained binary optimization problems (QUBOs) with Ocean and Mukai solvers. <i>PLoS ONE</i> , 2022, 17, e0263849.	1.1	5
6	Plasmon-Enhanced Exciton Delocalization in Squaraine-Type Molecular Aggregates. <i>ACS Nano</i> , 2022, 16, 4693-4704.	7.3	6
7	Ultrafast coherent photoexcited dynamics in a trimeric dendrimer probed by X-ray stimulated-Raman signals. <i>Chemical Science</i> , 2022, 13, 6373-6384.	3.7	5
8	Control of Polaronic Behavior and Carrier Lifetimes via Metal and Anion Alloying in Chalcogenide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4955-4962.	2.1	7
9	Toward a QUBO-Based Density Matrix Electronic Structure Method. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4177-4185.	2.3	2
10	Point Defects in Two-Dimensional Ruddlesden-Popper Perovskites Explored with Ab Initio Calculations. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5213-5219.	2.1	11
11	Impact of Graphene Quantum Dot Edge Morphologies on Their Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5801-5807.	2.1	5
12	Two Dimensional MOene: From Superconductors to Direct Semiconductors and Weyl Fermions. <i>Nano Letters</i> , 2022, 22, 5592-5599.	4.5	8
13	Deep learning of dynamically responsive chemical Hamiltonians with semiempirical quantum mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	19
14	(Invited) Theoretical Insight into New Strategies of Carbon Nanotube Functionalization. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 738-738.	0.0	0
15	Intermolecular conical intersections in molecular aggregates. <i>Nature Nanotechnology</i> , 2021, 16, 63-68.	15.6	22
16	Exciton Spatial Dynamics and Self-Trapping in Carbon Nanocages. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 224-231.	2.1	3
17	Monitoring molecular vibronic coherences in a bichromophoric molecule by ultrafast X-ray spectroscopy. <i>Chemical Science</i> , 2021, 12, 5286-5294.	3.7	16
18	Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. <i>Nature Communications</i> , 2021, 12, 673.	5.8	13

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19	Automated discovery of a robust interatomic potential for aluminum. <i>Nature Communications</i> , 2021, 12, 1257.	5.8	47
20	Interplay between Electrostatic Properties of Molecular Adducts and Their Positions at Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4785-4793.	1.5	10
21	Reduction of the molecular hamiltonian matrix using quantum community detection. <i>Scientific Reports</i> , 2021, 11, 4099.	1.6	11
22	Nonadiabatic Excited-State Molecular Dynamics Methodologies: Comparison and Convergence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2970-2982.	2.1	20
23	Tunable Optical Features of Graphene Quantum Dots from Edge Functionalization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9244-9252.	1.5	23
24	Millimeter-Size All-Inorganic Perovskite Crystalline Thin Film Grown by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2021, 31, 2101058.	7.8	19
25	Enantioselectivity in the Noyori-Ikariya Asymmetric Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2021, 40, 1402-1410.	1.1	24
26	An Ab Initio Multiple Cloning Method for Non-Adiabatic Excited-State Molecular Dynamics in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3629-3643.	2.3	15
27	(Invited) Theoretical Insights into New Strategies of Carbon Nanotube Functionalization. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 575-575.	0.0	0
28	Nonadiabatic Molecular Dynamics Study of the Relaxation Pathways of Photoexcited Cyclooctatetraene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5716-5722.	2.1	5
29	Photoinduced Energy Transfer in Linear Guest-Host Chromophores: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5303-5313.	1.1	5
30	Machine learned Hückel theory: Interfacing physics and deep neural networks. <i>Journal of Chemical Physics</i> , 2021, 154, 244108.	1.2	25
31	Cesium-Coated Halide Perovskites as a Photocathode Material: Modeling Insights. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6269-6276.	2.1	7
32	The Rise of Neural Networks for Materials and Chemical Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6227-6243.	2.1	39
33	Coupling between Emissive Defects on Carbon Nanotubes: Modeling Insights. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7846-7853.	2.1	10
34	Hot Carrier Dynamics at Ligated Silicon(111) Surfaces: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7504-7511.	2.1	3
35	Teaching a neural network to attach and detach electrons from molecules. <i>Nature Communications</i> , 2021, 12, 4870.	5.8	46
36	Robust Unencapsulated Perovskite Solar Cells Protected by a Fluorinated Fullerene Electron Transporting Layer. <i>ACS Energy Letters</i> , 2021, 6, 3376-3385.	8.8	27

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37	Computing molecular excited states on a D-Wave quantum annealer. <i>Scientific Reports</i> , 2021, 11, 18796.	1.6	16
38	Enhanced Emission from Bright Excitons in Asymmetrically Strained Colloidal CdSe/Cd <sub>x</sub> Zn <sub>1-x</sub> Se Quantum Dots. <i>ACS Nano</i> , 2021, 15, 14444-14452.	7.3	9
39	Excitation Energy Transfer between bodipy Dyes in a Symmetric Molecular Excitonic Seesaw. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8404-8416.	1.1	2
40	Photoluminescence Dynamics Defined by Exciton Trapping Potential of Coupled Defect States in DNA-Functionalized Carbon Nanotubes. <i>ACS Nano</i> , 2021, 15, 923-933.	7.3	15
41	Predicting phosphorescence energies and inferring wavefunction localization with machine learning. <i>Chemical Science</i> , 2021, 12, 10207-10217.	3.7	14
42	Excited-State Properties of Defected Halide Perovskite Quantum Dots: Insights from Computation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1005-1011.	2.1	15
43	Microcrystal Electron Diffraction for Molecular Design of Functional Non-Fullerene Acceptor Structures. <i>Chemistry of Materials</i> , 2021, 33, 966-977.	3.2	12
44	Structural Dynamics and Electronic Properties of Semiconductor Quantum Dots: Computational Insights. <i>Chemistry of Materials</i> , 2021, 33, 7848-7857.	3.2	14
45	Back-and-Forth Energy Transfer during Electronic Relaxation in a Chlorin-Perylene Dyad. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10394-10401.	2.1	1
46	Single-Layer Ditungsten Oxide Ti <sub>2</sub> O MOene: Multifunctional Promises for Electride, Anode Materials, and Superconductor. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 494-500.	2.1	12
47	Nonadiabatic molecular dynamics analysis of hybrid Dion-Jacobson 2D lead iodide perovskites. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	9
48	Frenkel biexcitons in hybrid HJ photophysical aggregates. <i>Science Advances</i> , 2021, 7, eabi5197.	4.7	10
49	Recent advances of novel ultrathin two-dimensional silicon carbides from a theoretical perspective. <i>Nanoscale</i> , 2020, 12, 4269-4282.	2.8	31
50	Importance of Vacancies and Doping in the Hole-Transporting Nickel Oxide Interface with Halide Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6633-6640.	4.0	21
51	Photoinduced Dynamics with Constrained Vibrational Motion: FrozeNM Algorithm. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7289-7298.	2.3	7
52	Vibrational energy redistribution during donor-acceptor electronic energy transfer: criteria to identify subsets of active normal modes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18454-18466.	1.3	14
53	An extended moments model of quantum efficiency for metals and semiconductors. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	6
54	Passivating Nucleobases Bring Charge Transfer Character to Optically Active Transitions in Small Silver Nanoclusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8931-8942.	1.1	3

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55	Charge carrier dynamics in two-dimensional hybrid perovskites: Dionâ€“Jacobson <i>vs.</i> Ruddlesdenâ€“Popper phases. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22009-22022.	5.2	72
56	Role of the Metalâ€“Semiconductor Interface in Halide Perovskite Devices for Radiation Photon Counting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45533-45540.	4.0	21
57	Hot Carrier Cooling and Recombination Dynamics of Chlorine-Doped Hybrid Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8430-8436.	2.1	11
58	Machine learning approaches for structural and thermodynamic properties of a Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2020, 153, 104502.	1.2	22
59	Controlling Defect-State Photophysics in Covalently Functionalized Single-Walled Carbon Nanotubes. <i>Accounts of Chemical Research</i> , 2020, 53, 1791-1801.	7.6	52
60	First Principles Nonadiabatic Excited-State Molecular Dynamics in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6418-6427.	2.3	20
61	Electronic structure with direct diagonalization on a D-wave quantum annealer. <i>Scientific Reports</i> , 2020, 10, 20753.	1.6	18
62	The ANI-1ccx and ANI-1x data sets, coupled-cluster and density functional theory properties for molecules. <i>Scientific Data</i> , 2020, 7, 134.	2.4	104
63	Electronic Energy Relaxation in a Photoexcited Fully Fused Edge-Sharing Carbon Nanobelt. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4711-4719.	2.1	8
64	<i>Ex Machina</i> Determination of Structural Correlation Functions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4372-4378.	2.1	7
65	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organicâ€“Inorganic Perovskites on Macro- and Nanoscales. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15380-15388.	4.0	5
66	Nonadiabatic Excited-State Molecular Dynamics for Open-Shell Systems. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2053-2064.	2.3	10
67	Optoelectronic Properties of Two-Dimensional Bromide Perovskites: Influences of Spacer Cations. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2955-2964.	2.1	50
68	Polarons in Halide Perovskites: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3271-3286.	2.1	110
69	Methylammonium Lead Tribromide Single Crystal Detectors towards Robust Gammaâ€“Ray Photon Sensing. <i>Advanced Optical Materials</i> , 2020, 8, 2000233.	3.6	18
70	Photoexcited energy relaxation and vibronic couplings in ĩ€-conjugated carbon nanorings. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15321-15332.	1.3	4
71	Graphics Processing Unit-Accelerated Semiempirical Born Oppenheimer Molecular Dynamics Using PyTorch. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4951-4962.	2.3	24
72	NEXMD Software Package for Nonadiabatic Excited State Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5771-5783.	2.3	56

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73	Analytic model of electron transport through and over non-linear barriers. <i>Journal of Applied Physics</i> , 2020, 127, 235301.	1.1	16
74	Non-adiabatic Excited-State Molecular Dynamics: Theory and Applications for Modeling Photophysics in Extended Molecular Materials. <i>Chemical Reviews</i> , 2020, 120, 2215-2287.	23.0	231
75	Critical Role of Organic Spacers for Bright 2D Layered Perovskites Light-Emitting Diodes. <i>Advanced Science</i> , 2020, 7, 1903202.	5.6	39
76	Multifunctional Cellulose Nanocrystals as a High-Efficient Polysulfide Stopper for Practical Li <sup>+</sup> S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17592-17601.	4.0	22
77	Hidden Fine Structure of Quantum Defects Revealed by Single Carbon Nanotube Magneto-Photoluminescence. <i>ACS Nano</i> , 2020, 14, 3451-3460.	7.3	14
78	Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide Perovskites. <i>Chemistry of Materials</i> , 2020, 32, 1854-1863.	3.2	46
79	The working principle of hybrid perovskite gamma-ray photon counter. <i>Materials Today</i> , 2020, 37, 27-34.	8.3	22
80	A sensitive and robust thin-film x-ray detector using 2D layered perovskite diodes. <i>Science Advances</i> , 2020, 6, eaay0815.	4.7	153
81	Vibronic Quantum Beating between Electronic Excited States in a Heterodimer. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3992-4001.	1.2	12
82	Experimental and theoretical study of energy transfer in a chromophore triad: What makes modeling dynamics successful?. <i>Journal of Chemical Physics</i> , 2020, 153, 244114.	1.2	8
83	Photoexcitation dynamics in perylene diimide dimers. <i>Journal of Chemical Physics</i> , 2020, 153, 244117.	1.2	8
84	(Invited) Controlling Defect-State Emission in Covalently Functionalized Single-Walled Carbon Nanotubes: A Theoretical Perspective. <i>ECS Meeting Abstracts</i> , 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 Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5000-5007.	2.1	60
87	Tuning Optical Properties of Conjugated Molecules by Lewis Acids: Insights from Electronic Structure Modeling. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4632-4638.	2.1	14
88	Approaching coupled cluster accuracy with a general-purpose neural network potential through transfer learning. <i>Nature Communications</i> , 2019, 10, 2903.	5.8	399
89	Non-adiabatic molecular dynamics of molecules in the presence of strong light-matter interactions. <i>Journal of Chemical Physics</i> , 2019, 151, 154109.	1.2	24
90	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. <i>Nano Letters</i> , 2019, 19, 8732-8740.	4.5	41

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91	Halide Perovskite High- <i>k</i> Field Effect Transistors with Dynamically Reconfigurable Ambipolarity. , 2019, 1, 633-640.		29
92	Mod( <i>n</i> - <i>m</i> ,3) Dependence of Defect-State Emission Bands in Aryl-Functionalized Carbon Nanotubes. Nano Letters, 2019, 19, 8503-8509.	4.5	22
93	Numerical tests of coherence-corrected surface hopping methods using a donor-bridge-acceptor model system. Journal of Chemical Physics, 2019, 150, 194104.	1.2	17
94	Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 3516-3524.	2.1	33
95	Ground-State Geometry and Vibrations of Polyphenylenevinylene Oligomers. Journal of Physical Chemistry Letters, 2019, 10, 3232-3239.	2.1	14
96	Optical Effects of Divalent Functionalization of Carbon Nanotubes. Chemistry of Materials, 2019, 31, 6950-6961.	3.2	33
97	Intrinsic limits of defect-state photoluminescence dynamics in functionalized carbon nanotubes. Nanoscale, 2019, 11, 9125-9132.	2.8	17
98	Photoinduced non-adiabatic energy transfer pathways in dendrimer building blocks. Journal of Chemical Physics, 2019, 150, 124301.	1.2	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 Tunable photochemical Reactions. ECS Meeting Abstracts, 2019, , .	0.0	0
101	(Invited) Modeling Insights into Optical Properties of Functionalized Carbon Nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	0
102	Solution-processed 2D layered perovskites for high-sensitivity X-ray detector. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a224-a224.	0.0	0
103	Density of States Broadening in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskites Understood from ab Initio Molecular Dynamics Simulations. ACS Energy Letters, 2018, 3, 787-793.	8.8	28
104	Composite Nature of Layered Hybrid Perovskites: Assessment on Quantum and Dielectric Confinements and Band Alignment. ACS Nano, 2018, 12, 3321-3332.	7.3	146
105	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. Angewandte Chemie - International Edition, 2018, 57, 4585-4589.	7.2	25
106	Correction Scheme for Comparison of Computed and Experimental Optical Transition Energies in Functionalized Single-Walled Carbon Nanotubes. Journal of Physical Chemistry Letters, 2018, 9, 2460-2468.	2.1	21
107	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. Science, 2018, 360, 67-70.	6.0	554
108	Extended Lagrangian Excited State Molecular Dynamics. Journal of Chemical Theory and Computation, 2018, 14, 799-806.	2.3	8

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109	Stable Light-Emitting Diodes Using Phase-Pure Ruddlesden-Popper Layered Perovskites. <i>Advanced Materials</i> , 2018, 30, 1704217.	11.1	258
110	Lowest-Energy Crystalline Polymorphs of P3HT. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9141-9151.	1.5	18
111	Ab initio study of two-dimensional PdPS as an ideal light harvester and promising catalyst for hydrogen evolution reaction. <i>Materials Today Energy</i> , 2018, 7, 136-140.	2.5	24
112	Design principles from multiscale simulations to predict nanostructure in self-assembling ionic liquids. <i>Faraday Discussions</i> , 2018, 206, 159-181.	1.6	9
113	Critical Role of Interface and Crystallinity on the Performance and Photostability of Perovskite Solar Cell on Nickel Oxide. <i>Advanced Materials</i> , 2018, 30, 1703879.	11.1	198
114	The crucial role of a spacer material on the efficiency of charge transfer processes in organic donor-acceptor junction solar cells. <i>Nanoscale</i> , 2018, 10, 451-459.	2.8	5
115	Exciton Localization and Optical Emission in Aryl-Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1828-1838.	1.5	58
116	Single Crystal Microwires of $\text{p-TS(FBTTh}_2\text{)}_2$ and Their Use in the Fabrication of Field-Effect Transistors and Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1702073.	7.8	22
117	Energy transfer and spatial scrambling of an exciton in a conjugated dendrimer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29648-29660.	1.3	15
118	Dipolar and charged localized excitons in carbon nanotubes. <i>Physical Review B</i> , 2018, 98, .	1.1	9
119	Interlayer-Decoupled Sc-Based Mxene with High Carrier Mobility and Strong Light-Harvesting Ability. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6915-6920.	2.1	49
120	NEXMD Modeling of Photoisomerization Dynamics of 4-Styrylquinoline. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9403-9411.	1.1	10
121	Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7130-7136.	2.1	52
122	Let Digons be Bygones: The Fate of Excitons in Curved $\pi$ -Systems. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7123-7129.	2.1	14
123	Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. <i>Nature Chemistry</i> , 2018, 10, 1089-1095.	6.6	78
124	Site-Specific Photodecomposition in Conjugated Energetic Materials. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6055-6061.	1.1	8
125	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	5.8	129
126	Transferable Dynamic Molecular Charge Assignment Using Deep Neural Networks. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4687-4698.	2.3	81



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127	Concept of Lattice Mismatch and Emergence of Surface States in Two-dimensional Hybrid Perovskite Quantum Wells. <i>Nano Letters</i> , 2018, 18, 5603-5609.	4.5	103
128	Discovering a Transferable Charge Assignment Model Using Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4495-4501.	2.1	88
129	Modification of Optical Properties and Excited-State Dynamics by Linearizing Cyclic Paraphenylene Chromophores. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16639-16648.	1.5	12
130	Solvent- and Wavelength-Dependent Photoluminescence Relaxation Dynamics of Carbon Nanotube sp <sup>3</sup> Defect States. <i>ACS Nano</i> , 2018, 12, 8060-8070.	7.3	41
131	Plasmonic Hot-Carrier-Mediated Tunable Photochemical Reactions. <i>ACS Nano</i> , 2018, 12, 8415-8422.	7.3	75
132	Scaling law for excitons in 2D perovskite quantum wells. <i>Nature Communications</i> , 2018, 9, 2254.	5.8	559
133	Photoexcited Nonadiabatic Dynamics of Solvated Push-Pull $\pi$ -Conjugated Oligomers with the NEXMD Software. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3955-3966.	2.3	39
134	Coherent exciton-vibrational dynamics and energy transfer in conjugated organics. <i>Nature Communications</i> , 2018, 9, 2316.	5.8	71
135	An <i>ab initio</i> multiple cloning approach for the simulation of photoinduced dynamics in conjugated molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17762-17772.	1.3	26
136	Influence of $\pi$ -conjugated cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid perovskites. <i>Physical Review Materials</i> , 2018, 2, .	0.9	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. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	0.8	1
138	Molecular dynamics and charge transport in organic semiconductors: a classical approach to modeling electron transfer. <i>Chemical Science</i> , 2017, 8, 2597-2609.	3.7	13
139	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602159.	10.2	130
140	Extremely efficient internal exciton dissociation through edge states in layered 2D perovskites. <i>Science</i> , 2017, 355, 1288-1292.	6.0	830
141	Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A TD-DFT study. <i>Journal of Chemical Physics</i> , 2017, 146, 114308.	1.2	13
142	Photoinduced Intra- and Intermolecular Energy Transfer in ChlorophyllaDimer. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5331-5339.	1.2	30
143	Computational Dissection of Two-Dimensional Rectangular Titanium Mononitride TiN: Auxetics and Promises for Photocatalysis. <i>Nano Letters</i> , 2017, 17, 4466-4472.	4.5	104
144	Electronic Delocalization, Vibrational Dynamics, and Energy Transfer in Organic Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3020-3031.	2.1	59

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145	Phonon bottleneck and long-lived excited states in $\pi$ -conjugated pyrene hoop. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9478-9484.	1.3	12
146	Ultrafast Non-Förster Intramolecular Donor–Acceptor Excitation Energy Transfer. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1688-1694.	2.1	20
147	Vibrational states of nano-confined water molecules in beryl investigated by first-principles calculations and optical experiments. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30740-30748.	1.3	16
148	Low-Temperature Single Carbon Nanotube Spectroscopy of $sp^3$ Quantum Defects. <i>ACS Nano</i> , 2017, 11, 10785-10796.	7.3	79
149	Multi-exciton emission from solitary dopant states of carbon nanotubes. <i>Nanoscale</i> , 2017, 9, 16143-16148.	2.8	5
150	First-Principles Study of Fluorescence in Silver Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23875-23885.	1.5	15
151	Two-dimensional hexagonal $M_3C_2$ ( $M = Zn, Cd$ and $Hg$ ) monolayers: novel quantum spin Hall insulators and Dirac cone materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9181-9187.	2.7	34
152	Photoinduced dynamics in cycloparaphenylenes: planarization, electron–phonon coupling, localization and intra-ring migration of the electronic excitation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30914-30924.	1.3	24
153	Charge delocalization characteristics of regioregular high mobility polymers. <i>Chemical Science</i> , 2017, 8, 1146-1151.	3.7	17
154	Nonadiabatic excited-state molecular dynamics: On-the-fly limiting of essential excited states. <i>Chemical Physics</i> , 2016, 481, 84-90.	0.9	13
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