

# Sivan Refaely-Abramson

## List of Publications by Year in descending order

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36  
papers

3,430  
citations

257450

24  
h-index

361022

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37  
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37  
docs citations

37  
times ranked

3705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitation Gaps of Finite-Sized Systems from Optimally Tuned Range-Separated Hybrid Functionals. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1515-1531.	5.3	765
2	Fundamental and excitation gaps in molecules of relevance for organic photovoltaics from an optimally tuned range-separated hybrid functional. <i>Physical Review B</i> , 2011, 84, .	3.2	281
3	Gap renormalization of molecular crystals from density-functional theory. <i>Physical Review B</i> , 2013, 88, .	3.2	239
4	Quasiparticle Spectra from a Nonempirical Optimally Tuned Range-Separated Hybrid Density Functional. <i>Physical Review Letters</i> , 2012, 109, 226405.	7.8	236
5	Solid-state optical absorption from optimally tuned time-dependent range-separated hybrid density functional theory. <i>Physical Review B</i> , 2015, 92, .	3.2	210
6	Identifying substitutional oxygen as a prolific point defect in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2019, 10, 3382.	12.8	196
7	Outer-valence Electron Spectra of Prototypical Aromatic Heterocycles from an Optimally Tuned Range-Separated Hybrid Functional. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1934-1952.	5.3	128
8	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer $WS_{2-x}$ <i>Physical Review Letters</i> , 2019, 123, 076801.	7.8	120
9	Theory of Chirality Induced Spin Selectivity: Progress and Challenges. <i>Advanced Materials</i> , 2022, 34, e2106629.	21.0	119
10	Defect-Induced Modification of Low-Lying Excitons and Valley Selectivity in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2018, 121, 167402.	7.8	109
11	Electronic Transport via Homopeptides: The Role of Side Chains and Secondary Structure. <i>Journal of the American Chemical Society</i> , 2015, 137, 9617-9626.	13.7	101
12	The role of chalcogen vacancies for atomic defect emission in MoS <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 3822.	12.8	94
13	How Substitutional Point Defects in Two-Dimensional WS <sub>2</sub> Induce Charge Localization, Spin-Orbit Splitting, and Strain. <i>ACS Nano</i> , 2019, 13, 10520-10534.	14.6	86
14	Cold denaturation induces inversion of dipole and spin transfer in chiral peptide monolayers. <i>Nature Communications</i> , 2016, 7, 10744.	12.8	83
15	Tuning electronic transport via hepta-alanine peptides junction by tryptophan doping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10785-10790.	7.1	77
16	Experimental and theoretical electronic structure of quinacridone. <i>Physical Review B</i> , 2014, 90, .	3.2	70
17	Long-Lived Correlated Triplet Pairs in a $\pi$ -Stacked Crystalline Pentacene Derivative. <i>Journal of the American Chemical Society</i> , 2018, 140, 2326-2335.	13.7	68
18	Energy level alignment at molecule-metal interfaces from an optimally tuned range-separated hybrid functional. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	59

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19	Origins of Singlet Fission in Solid Pentacene from an <i>ab initio</i> Green's Function Approach. <i>Physical Review Letters</i> , 2017, 119, 267401.	7.8	55
20	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2021, 15, 8780-8789.	14.6	52
21	Quantitative Prediction of Optical Absorption in Molecular Solids from an Optimally Tuned Screened Range-Separated Hybrid Functional. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2919-2929.	5.3	51
22	Simultaneous Determination of Structures, Vibrations, and Frontier Orbital Energies from a Self-Consistent Range-Separated Hybrid Functional. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2734-2741.	4.6	49
23	Optical absorption of interlayer excitons in transition-metal dichalcogenide heterostructures. <i>Science</i> , 2022, 376, 406-410.	12.6	42
24	Probing Charge Transport through Peptide Bonds. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 763-767.	4.6	38
25	Quantum Phase Transitions of Trilayer Excitons in Atomically Thin Heterostructures. <i>Physical Review Letters</i> , 2020, 125, 255301.	7.8	21
26	Signatures of Dimensionality and Symmetry in Exciton Band Structure: Consequences for Exciton Dynamics and Transport. <i>Nano Letters</i> , 2021, 21, 7644-7650.	9.1	21
27	Anisotropic 2D excitons unveiled in organic-inorganic quantum wells. <i>Materials Horizons</i> , 2021, 8, 197-208.	12.2	17
28	First-Principles Approach to the Conductance of Covalently Bound Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6379-6387.	3.1	10
29	Electronic structure of dipeptides in the gas-phase and as an adsorbed monolayer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6860-6867.	2.8	9
30	Bright excitonic multiplexing mediated by dark exciton transition in two-dimensional TMDCs at room temperature. <i>Materials Horizons</i> , 2022, 9, 1089-1098.	12.2	8
31	Mixed excitonic nature in water-oxidized $\text{BiVO}_4$ surfaces with defects. <i>Physical Review Materials</i> , 2022, 6, .	12.4	7
32	Layer-Dependent Quasiparticle Electronic Structure of the P3HT:PCBM Interface from a First-Principles Substrate Screening GW Approach. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13592-13601.	3.1	4
33	Identifying Hidden Intracell Symmetries in Molecular Crystals and Their Impact for Multiexciton Generation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 747-753.	4.6	3
34	Exciton Modulation in Perylene-Based Molecular Crystals Upon Formation of a Metal-Organic Interface From Many-Body Perturbation Theory. <i>Frontiers in Chemistry</i> , 2021, 9, 743391.	3.6	2
35	From exciton dispersion to exciton dynamics in functional materials. , 0, , .		0
36	Excited-State Properties of Perylene-Based Organic-Inorganic Interfaces from First Principles. , 0, , .		0