Joel Yuen-Zhou

List of Publications by Year
in descending order

36 papers	2,304 citations	293460 24 h-index	406436 35 g-index
40 all docs	40 docs citations	40 times ranked	1396 citing authors

#	Article	IF	Citations
1	Polariton chemistry: Molecules in cavities and plasmonic media. Journal of Chemical Physics, 2022, 156, 030401.	1.2	20
2	Catalysis by Dark States in Vibropolaritonic Chemistry. Physical Review Letters, 2022, 128, 096001.	2.9	62
3	Driving chemical reactions with polariton condensates. Nature Communications, 2022, 13, 1645.	5.8	19
4	Enantioselective Topological Frequency Conversion. Journal of Physical Chemistry Letters, 2022, 13, 2434-2441.	2.1	6
5	Generalization of the Tavisâ€“Cummings model for multi-level anharmonic systems: Insights on the second excitation manifold. Journal of Chemical Physics, 2022, 156, .	1.2	16
6	Introduction to Vibropolaritons: Spectroscopy, Relaxation and Chemical Reactions. , 2022, , 517-574.		2
7	Nonequilibrium effects of cavity leakage and vibrational dissipation in thermally activated polariton chemistry. Journal of Chemical Physics, 2021, 154, 084108.	1.2	30
8	Enhanced optical nonlinearities under collective strong light-matter coupling. Physical Review A, 2021, 103, .	1.0	28
9	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	5.8	32
10	Manipulating molecules with strong coupling: harvesting triplet excitons in organic exciton microcavities. Chemical Science, 2020, 11, 343-354.	3.7	98
11	Polariton Assisted Down-Conversion of Photons via Nonadiabatic Molecular Dynamics: A Molecular Dynamical Casimir Effect. Journal of Physical Chemistry Letters, 2020, 11, 152-159.	2.1	28
12	Computational method for highly constrained molecular dynamics of rigid bodies: Coarse-grained simulation of auxetic two-dimensional protein crystals. Journal of Chemical Physics, 2020, 152, 244102.	1.2	0
13	Polaritonic normal modes in transition state theory. Journal of Chemical Physics, 2020, 152, 161101.	1.2	75
14	Intermolecular vibrational energy transfer enabled by microcavity strong lightâ€“matter coupling. Science, 2020, 368, 665-667.	6.0	131
15	Optical Activity from the Exciton Aharonovâ€“Bohm Effect: A Floquet Engineering Approach. Journal of Physical Chemistry C, 2020, 124, 4206-4214.	1.5	7
16	Resonant catalysis of thermally activated chemical reactions with vibrational polaritons. Nature Communications, 2019, 10, 4685.	5.8	144
17	Triplet harvesting in the polaritonic regime: A variational polaron approach. Journal of Chemical Physics, 2019, 151, .	1.2	50
18	State-Selective Polariton to Dark State Relaxation Dynamics. Journal of Physical Chemistry A, 2019, 123, 5918-5927.	1.1	65

#	Article	IF	Citations
19	Remote Control of Chemistry in Optical Cavities. CheM, 2019, 5, 1167-1181.	5.8	68
20	Polariton chemistry: Thinking inside the (photon) box. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5214-5216.	3.3	48
21	Polariton Chemistry: Action in the Dark. ACS Central Science, 2019, 5, 386-388.	5.3	36
22	Manipulating optical nonlinearities of molecular polaritons by delocalization. Science Advances, 2019, 5, eaax5196.	4.7	57
23	Inverting singlet and triplet excited states using strong light-matter coupling. Science Advances, 2019, 5, eaax4482.	4.7	116
24	Controlling chemistry with vibrational polaritons. , 2019, , .		0
25	Two-dimensional infrared spectroscopy of vibrational polaritons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4845-4850.	3.3	143
26	Polariton-Assisted Singlet Fission in Acene Aggregates. Journal of Physical Chemistry Letters, 2018, 9, 1951-1957.	2.1	106
27	Can Ultrastrong Coupling Change Ground-State Chemical Reactions?. ACS Photonics, 2018, 5, 167-176.	3.2	95
28	Vibronic Ground-State Degeneracies and the Berry Phase: A Continuous Symmetry Perspective. Journal of Physical Chemistry Letters, 2018, 9, 242-247.	2.1	4
29	Comment on â€˜Quantum theory of collective strong coupling of molecular vibrations with a microcavity modeâ€™. New Journal of Physics, 2018, 20, 018002.	1.2	4
30	Molecular Emission near Metal Interfaces: The Polaritonic Regime. Journal of Physical Chemistry Letters, 2018, 9, 6511-6516.	2.1	17
31	Theory for Nonlinear Spectroscopy of Vibrational Polaritons. Journal of Physical Chemistry Letters, 2018, 9, 3766-3771.	2.1	72
32	Continuous vibronic symmetries in Jahnâ€"Teller models. Journal of Physics Condensed Matter, 2018, 30, 333001.	0.7	3
33	Theory for polariton-assisted remote energy transfer. Chemical Science, 2018, 9, 6659-6669.	3.7	158
34	Polariton chemistry: controlling molecular dynamics with optical cavities. Chemical Science, 2018, 9, 6325-6339.	3.7	403
35	Plexciton Dirac points and topological modes. Nature Communications, 2016, 7, 11783.	5.8	66
36	Topologically protected excitons in porphyrin thinÂfilms. Nature Materials, 2014, 13, 1026-1032.	13.3	55