Liang-Yan Hsu

List of Publications by Year in Descending Order

38 papers	617 citations	16 h-index	23 g-index
41 ext. papers	748 ext. citations	5.8 avg, IF	4.41 L-index

#	Paper	IF	Citations
38	Simple but accurate estimation of light-matter coupling strength and optical loss for a molecular emitter coupled with photonic modes. *Journal of Chemical Physics*, **2021**, 155, 134117	3.9	1
37	Theory of molecular emission power spectra. II. Angle, frequency, and distance dependence of electromagnetic environment factor of a molecular emitter in plasmonic environments. *Journal of Chemical Physics*, **2021**, 155, 074101	3.9	1
36	Can Nanocavities Significantly Enhance Resonance Energy Transfer in a Single Donor–Acceptor Pair?. *Journal of Physical Chemistry C*, **2021**, 125, 18119-18128	3.8	3
35	Coherent-to-Incoherent Transition of Molecular Fluorescence Controlled by Surface Plasmon Polaritons. *Journal of Physical Chemistry Letters*, **2020**, 11, 5948-5955	6.4	8
34	Large-Scale Inhomogeneous Fluorescence Plasmonic Silver Chips: Origin and Mechanism. *CheM*, **2020**, 6, 3396-3408	16.2	5
33	Quantum transport with electronic relaxation in electrodes: Landauer-type formulas derived from the driven Liouville-von Neumann approach. *Journal of Chemical Physics*, **2020**, 153, 044103	3.9	3
32	Controllable Frequency Dependence of Resonance Energy Transfer Coupled with Localized Surface Plasmon Polaritons. *Journal of Physical Chemistry Letters*, **2020**, 11, 6796-6804	6.4	7
31	Theory of molecular emission power spectra. I. Macroscopic quantum electrodynamics formalism. *Journal of Chemical Physics*, **2020**, 153, 184102	3.9	4
30	Electric Current Fluctuations Induced by Molecular Vibrations in the Adiabatic Limit: Molecular Dynamics-Driven Liouville von Neumann Approach. *Journal of Physical Chemistry C*, **2019**, 123, 10746-10755	3.8	2
29	Photoinduced anomalous Coulomb blockade and the role of triplet states in electron transport through an irradiated molecular transistor. II. Effects of electron-phonon coupling and vibrational relaxation. *Journal of Chemical Physics*, **2019**, 151, 054704	3.9	2
28	Quantum dynamics of a molecular emitter strongly coupled with surface plasmon polaritons: A macroscopic quantum electrodynamics approach. *Journal of Chemical Physics*, **2019**, 151, 014105	3.9	17
27	Design of Plasmon Resonance Shifts by the Galvanic Replacement Degree of Au–Ag Nanozappers. *Journal of Physical Chemistry C*, **2019**, 123, 29298-29305	3.8	1
26	Photoinduced Anomalous Coulomb Blockade and the Role of Triplet States in Electron Transport through an Irradiated Molecular Transistor. *Nano Letters*, **2018**, 18, 5015-5023	11.5	18
25	Characteristic Distance of Resonance Energy Transfer Coupled with Surface Plasmon Polaritons. *Journal of Physical Chemistry Letters*, **2018**, 9, 7032-7039	6.4	21
24	Plasmon-Coupled Resonance Energy Transfer II: Exploring the Peaks and Dips in the Electromagnetic Coupling Factor. *Journal of Physical Chemistry C*, **2018**, 122, 22650-22659	3.8	20
23	Plasmon-coupled resonance energy transfer: A real-time electrodynamics approach. *Journal of Chemical Physics*, **2017**, 146, 064109	3.9	35
22	Plasmon-Coupled Resonance Energy Transfer. *Journal of Physical Chemistry Letters*, **2017**, 8, 2357-2367	6.4	91

21	Reaction: New Insights into Molecular Electronics. *CheM*, **2017**, 3, 378-379	16.2	15
20	Entropy-based time-varying window width selection for nonlinear-type time-frequency analysis. *International Journal of Data Science and Analytics*, **2017**, 3, 231-245	2	21
19	Conductance and activation energy for electron transport in series and parallel intramolecular circuits. *Physical Chemistry Chemical Physics*, **2016**, 18, 32087-32095	3.6	11
18	Theory of molecular conductance using a modular approach. *Journal of Chemical Physics*, **2016**, 145, 234702	3.6	11
17	Coherent revival of tunneling. *Physical Review B*, **2015**, 92,	3.3	2
16	Coherent light-driven electron transport through polycyclic aromatic hydrocarbon: laser frequency, field intensity, and polarization angle dependence. *Physical Chemistry Chemical Physics*, **2015**, 17, 20617-29	3.6	6
15	Molecular series-tunneling junctions. *Journal of the American Chemical Society*, **2015**, 137, 5948-54	16.4	21
14	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. *Angewandte Chemie - International Edition*, **2015**, 54, 15734-8	16.4	41
13	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. *Angewandte Chemie*, **2015**, 127, 15960-15964	3.6	14
12	Exploring laser-driven quantum phenomena from a time-frequency analysis perspective: a comprehensive study. *Optics Express*, **2015**, 23, 30459-82	3.3	7
11	Gate Control of Artificial Single-Molecule Electric Machines. *Journal of Physical Chemistry C*, **2015**, 119, 4573-4579	3.8	5
10	Conductance of tailored molecular segments: a rudimentary assessment by Landauer formulation. *Journal of the American Chemical Society*, **2014**, 136, 1832-41	16.4	36
9	Gate Control of the Conduction Mechanism Transition from Tunneling to Thermally Activated Hopping. *Journal of Physical Chemistry Letters*, **2014**, 5, 1831-6	6.4	16
8	A new time-frequency method to reveal quantum dynamics of atomic hydrogen in intense laser pulses: Synchrosqueezing transform. *AIP Advances*, **2014**, 4, 117138	1.5	15
7	Light-driven electron transport through a molecular junction based on cross-conjugated systems. *Journal of Chemical Physics*, **2014**, 141, 124703	3.9	16
6	Single-molecule electric revolving door. *Nano Letters*, **2013**, 13, 5020-5	11.5	24
5	Single-molecule phenyl-acetylene-macrocycle-based optoelectronic switch functioning as a quantum-interference-effect transistor. *Physical Review Letters*, **2012**, 109, 186801	7.4	31
4	Transport through a mixed-valence molecular transistor in the sequential-tunneling regime: Theoretical insight from the two-site Peierls-Hubbard model. *Journal of Chemical Physics*, **2010**, 133, 144705	3.9	14

3	An investigation of quantum transport by the free-electron network model: Resonance and interference effects. *Chemical Physics*, **2009**, 355, 177-182	2.3	30
2	Charge Transport Through a Single Molecular Wire Based on Linear Multimetal Complexes: A Non-Equilibrium Green Function Approach. *Journal of Physical Chemistry C*, **2008**, 112, 10538-10541	3.8	30
1	Bandwidth, intensity, and lineshape of the transmission spectrum in the single molecular junction. *Chemical Physics Letters*, **2008**, 457, 279-283	2.5	12