

# Timothy A Su

## List of Publications by Year in descending order

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33  
papers

2,380  
citations

279487

23  
h-index

414034

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical principles of single-molecule electronics. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	442
2	Collisions in a noncentral field: A variational and trajectory investigation of ion-dipole capture. <i>Journal of Chemical Physics</i> , 1980, 72, 2641-2655.	1.2	266
3	Comprehensive suppression of single-molecule conductance using destructive F <sub>0</sub> -interference. <i>Nature</i> , 2018, 558, 415-419.	13.7	256
4	Multiple transition states in unimolecular reactions: A transition state switching model. Application to the C <sub>4</sub> H <sub>8</sub> + system. <i>Journal of Chemical Physics</i> , 1981, 74, 2228-2246.	1.2	181
5	Stereoelectronic switching in single-molecule junctions. <i>Nature Chemistry</i> , 2015, 7, 215-220.	6.6	176
6	Chemiluminescent Probes for Activity-Based Sensing of Formaldehyde Released from Folate Degradation in Living Mice. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7508-7512.	7.2	150
7	Ion-polar molecule collisions. Conservation of angular momentum in the average dipole orientation theory. The AADO theory. <i>Journal of Chemical Physics</i> , 1978, 69, 2243-2250.	1.2	115
8	Silane and Germane Molecular Electronics. <i>Accounts of Chemical Research</i> , 2017, 50, 1088-1095.	7.6	96
9	Electric Field Breakdown in Single Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2015, 137, 5028-5033.	6.6	67
10	Chemiluminescent Probes for Activity-Based Sensing of Formaldehyde Released from Folate Degradation in Living Mice. <i>Angewandte Chemie</i> , 2018, 130, 7630-7634.	1.6	60
11	Caged luciferins for bioluminescent activity-based sensing. <i>Current Opinion in Biotechnology</i> , 2019, 60, 198-204.	3.3	47
12	Single-Molecule Conductance in Atomically Precise Germanium Wires. <i>Journal of the American Chemical Society</i> , 2015, 137, 12400-12405.	6.6	43
13	Effects of Copper Chelation on BRAFV600E Positive Colon Carcinoma Cells. <i>Cancers</i> , 2019, 11, 659.	1.7	43
14	Silicon Ring Strain Creates High-Conductance Pathways in Single-Molecule Circuits. <i>Journal of the American Chemical Society</i> , 2013, 135, 18331-18334.	6.6	42
15	A Modular Ionophore Platform for Liver-Directed Copper Supplementation in Cells and Animals. <i>Journal of the American Chemical Society</i> , 2018, 140, 13764-13774.	6.6	40
16	Evaluating atomic components in fluorene wires. <i>Chemical Science</i> , 2014, 5, 1561.	3.7	38
17	Theory of ion-polar molecule collisions. Kinetic energy dependence of ion-polar molecule reactions: CH <sub>3</sub> OH <sup>+</sup> + CH <sub>3</sub> OH <sup>+</sup> → CH <sub>3</sub> OH <sub>2</sub> <sup>+</sup> + CH <sub>3</sub> O. <i>Journal of Chemical Physics</i> , 1973, 58, 5175-5176.	1.2	33
18	Extreme Conductance Suppression in Molecular Siloxanes. <i>Journal of the American Chemical Society</i> , 2017, 139, 10212-10215.	6.6	33

#	ARTICLE	IF	CITATIONS
19	Electron Transfer Dynamics of Triphenylamine Dyes Bound to TiO <sub>2</sub> Nanoparticles from Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6990-6997.	1.5	29
20	Mechanism for Si-Si Bond Rupture in Single Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2016, 138, 16159-16164.	6.6	29
21	Permethylated Silanes Introduce Destructive Quantum Interference in Saturated Silanes. <i>Journal of the American Chemical Society</i> , 2019, 141, 15471-15476.	6.6	28
22	Tuning Conductance in Single-Molecule Wires. <i>Journal of the American Chemical Society</i> , 2016, 138, 7791-7795.	6.6	27
23	Large Variations in the Single-Molecule Conductance of Cyclic and Bicyclic Silanes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15080-15088.	6.6	27
24	Ion-polar molecule collisions: Nonreactive collisions of Cl <sup>-</sup> with dichloroethylene and difluorobenzene. <i>Journal of Chemical Physics</i> , 1974, 60, 4897-4899.	1.2	25
25	Conformations of cyclopentasilane stereoisomers control molecular junction conductance. <i>Chemical Science</i> , 2016, 7, 5657-5662.	3.7	24
26	Silver Makes Better Electrical Contacts to Thiol-Terminated Silanes than Gold. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14145-14148.	7.2	19
27	Chemical Anthropomorphism: Acting Out General Chemistry Concepts in Social Media Videos Facilitates Student-Centered Learning and Public Engagement. <i>Journal of Chemical Education</i> , 2021, 98, 1283-1289.	1.1	15
28	Ion velocity distributions in an ICR spectrometer and their effect on measured rate constants. <i>Journal of Chemical Physics</i> , 1976, 65, 990-997.	1.2	8
29	Single-cluster electronics. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9643-9659.	1.3	8
30	Conjugated organosilanes at the nexus of single-molecule electronics and imaging. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11605-11618.	2.7	6
31	Conductivity in Porous 2D Materials Made Crystal Clear. <i>ACS Central Science</i> , 2020, 6, 11-13.	5.3	5
32	Silver Makes Better Electrical Contacts to Thiol-Terminated Silanes than Gold. <i>Angewandte Chemie</i> , 2017, 129, 14333-14336.	1.6	2
33	Selective Functionalization of Siladmantane and Its Ensuing Optical Effects. <i>Angewandte Chemie</i> , 0, , .	1.6	0