

Hui-Hsu Gavin Tsai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Double Proton Transfer during a Novel Tertiary β -Ketol Rearrangement in Ketol-Acid Reductoisomerase: A Water-Mediated, Metal-Catalyzed, Base-Induced Mechanism. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11893-11906.	2.6	2
2	Terpyridyl Ruthenium Complexes Functionalized with Conjugated Heterocycles for Panchromatic Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 13461-13470.	5.1	3
3	First-Principles Investigation of the Thermal Degradation Mechanisms of Methylammonium Lead Triiodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14521-14530.	3.1	5
4	Osmium sensitizer with enhanced spin-orbit coupling for panchromatic dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12361-12369.	10.3	17
5	Organocatalyzed Enantioselective Michael Addition of 2-Hydroxypyridines and β -Unsaturated α,β -Dicarbonyl Compounds. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4966-4982.	4.3	26
6	Ligand Exchange in the Synthesis of Metal-Organic Frameworks Occurs Through Acid-Catalyzed Associative Substitution. <i>Inorganic Chemistry</i> , 2019, 58, 14457-14466.	4.0	18
7	Unusually Long-Wavelength Emissions of Cyclopropanes: New Insight into C-C Bond Homolysis. <i>Chemistry - A European Journal</i> , 2018, 24, 7595-7600.	3.3	4
8	Effects of Internal Electron-Withdrawing Moieties in β -Organic Sensitizers on Photophysical Properties for DSSCs: A Computational Study. <i>ACS Omega</i> , 2018, 3, 433-445.	3.5	35
9	Long-Range Olefin Isomerization Catalyzed by Palladium(0) Nanoparticles. <i>ACS Omega</i> , 2017, 2, 698-711.	3.5	18
10	The Arginine Pairs and C-Termini of the Sso7c4 from <i>Sulfolobus solfataricus</i> Participate in Binding and Bending DNA. <i>PLoS ONE</i> , 2017, 12, e0169627.	2.5	4
11	Geometrical effects of phospholipid olefinic bonds on the structure and dynamics of membranes: A molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1234-1247.	2.6	17
12	Location and Conformation of Amyloid β (25-35) Peptide and its Sequence-Shuffled Peptides within Membranes: Implications for Aggregation and Toxicity in PC12 Cells. <i>ChemMedChem</i> , 2014, 9, 1002-1011.	3.2	19
13	Multi-step formation of a hemifusion diaphragm for vesicle fusion revealed by all-atom molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1529-1535.	2.6	17
14	Molecular mechanism of Ca^{2+} -catalyzed fusion of phospholipid micelles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2729-2738.	2.6	7
15	A Molecular Dynamics Study of the Structural and Dynamical Properties of Putative Arsenic Substituted Lipid Bilayers. <i>International Journal of Molecular Sciences</i> , 2013, 14, 7702-7715.	4.1	10
16	Molecular dynamics simulation of cation-phospholipid clustering in phospholipid bilayers: Possible role in stalk formation during membrane fusion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2742-2755.	2.6	33
17	Probing the Nature and Local Structure of Phosphonic Acid Groups Functionalized in Mesoporous Silica SBA-15. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1658-1669.	3.1	25
18	Fluorene-Containing Organic Photosensitizers for Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , 2012, 77, 832-843.	2.8	17

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19	Synthesis and solid-state NMR characterization of cubic mesoporous silica SBA-1 functionalized with sulfonic acid groups. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 86-94.	9.4	15
20	Asymmetric Synthesis of (S)-Lentiginosine by Double Aza-Michael Reaction. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4771-4773.	2.4	29
21	Folding and membrane insertion of amyloid β (25-35) peptide and its mutants: Implications for aggregation and neurotoxicity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1909-1925.	2.6	25
22	TD-DFT Study of the Excited-State Potential Energy Surfaces of 2-(2-Hydroxyphenyl)benzimidazole and its Amino Derivatives. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4065-4079.	2.5	85
23	Oxidative transformation of thiol groups to disulfide bonds in mesoporous silicas: a diagnostic reaction for probing distribution of organic functional groups. <i>New Journal of Chemistry</i> , 2009, 33, 2199.	2.8	11
24	Coupling Molecular Dynamics Simulations with Experiments for the Rational Design of Indolicidin-Analogous Antimicrobial Peptides. <i>Journal of Molecular Biology</i> , 2009, 392, 837-854.	4.2	52
25	Interplay of Hydrogenation and Dehydrogenation in Isoindoline and Indoline Isomers: A Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5278-5285.	2.5	5
26	Direct Evidence for Interactions between Acidic Functional Groups and Silanols in Cubic Mesoporous Organosilicas. <i>Journal of the American Chemical Society</i> , 2008, 130, 11566-11567.	13.7	24
27	Sequence and Structure Analysis of Parallel β Helices: Implication for Constructing Amyloid Structural Models. <i>Structure</i> , 2006, 14, 1059-1072.	3.3	40