

Hai-Lung Dai

List of Publications by Year in descending order

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98
papers

2,466
citations

201674

27
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243625

44
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104
all docs

104
docs citations

104
times ranked

2268
citing authors

#	ARTICLE	IF	CITATIONS
1	Ag nanoplatelets as efficient photosensitizers for TiO ₂ nanorods. Journal of Chemical Physics, 2022, 156, 024703.	3.0	2
2	Indole Facilitates Antimicrobial Uptake in Bacteria. ACS Infectious Diseases, 2022, 8, 1124-1133.	3.8	9
3	Ultrathin Films of Pentacene on Ag(111): Charge-Transfer Bonding and Interadsorbate Interactions. Journal of Physical Chemistry C, 2021, 125, 3385-3395.	3.1	3
4	Silica-coating-assisted nitridation of TiO ₂ nanoparticles and their photothermal property. Nano Research, 2021, 14, 3228-3233.	10.4	9
5	Influence of Solvent on Dye-Sensitized Solar Cell Efficiency: What is so Special About Acetonitrile?. Particle and Particle Systems Characterization, 2021, 38, 2000220.	2.3	12
6	Determination of bacterial surface charge density via saturation of adsorbed ions. Biophysical Journal, 2021, 120, 2461-2470.	0.5	44
7	Control of Chemical Reactions through Coherent Excitation of Eigenlevels: A Demonstration via Vibronic Coupling in SO ₂ . Journal of Physical Chemistry A, 2021, 125, 9065-9070.	2.5	2
8	Molecule-Membrane Interactions in Biological Cells Studied with Second Harmonic Light Scattering. Chemistry - an Asian Journal, 2020, 15, 200-213.	3.3	14
9	Carrier recombination of organic-inorganic 3D halide perovskite single crystals. Chinese Journal of Chemical Physics, 2020, 33, 252-257.	1.3	2
10	Fabrication of Anisotropic Silver Nanoplatelets on the Surface of TiO ₂ Fibers for Enhanced Photocatalysis of a Chemical Warfare Agent Simulant, Methyl Paraoxon. Journal of Physical Chemistry C, 2019, 123, 19579-19587.	3.1	16
11	Collisional Energy Transfer from Vibrationally Excited Hydrogen Isocyanide. Journal of Physical Chemistry A, 2019, 123, 6927-6936.	2.5	4
12	Anisotropic Singlet Fission in Single Crystalline Hexacene. Science, 2019, 19, 1079-1089.	4.1	16
13	Influence of molecular structure on passive membrane transport: A case study by second harmonic light scattering. Journal of Chemical Physics, 2019, 150, 104705.	3.0	26
14	Spatially Resolved Membrane Transport in a Single Cell Imaged by Second Harmonic Light Scattering. Biochemistry, 2019, 58, 1841-1844.	2.5	27
15	Carboxylic Anchoring Dye <i>p</i> -Ethyl Red Does Not Adsorb Directly onto TiO ₂ Particles in Protic Solvents. Journal of Physical Chemistry C, 2019, 123, 8265-8272.	3.1	11
16	Publications of Hai-Lung Dai. Journal of Physical Chemistry A, 2019, 123, 10472-10479.	2.5	0
17	Azithromycin-Induced Changes to Bacterial Membrane Properties Monitored <i>in Vitro</i> by Second-Harmonic Light Scattering. ACS Medicinal Chemistry Letters, 2018, 9, 569-574.	2.8	37
18	Electron injection from a carboxylic anchoring dye to TiO ₂ nanoparticles in aprotic solvents. Chemical Physics, 2018, 512, 93-97.	1.9	10

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19	UV Photolysis of Pyrazine and the Production of Hydrogen Isocyanide. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9001-9013.	2.5	6
20	Super Bright Luminescent Metallic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4155-4159.	4.6	13
21	External Stimuli Responsive 2D Charge Transfer Polymers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600769.	3.7	7
22	Modeling Photosensitized Secondary Organic Aerosol Formation in Laboratory and Ambient Aerosols. <i>Environmental Science & Technology</i> , 2017, 51, 7496-7501.	10.0	31
23	Dynamics of the triplet-pair state reveals the likely coexistence of coherent and incoherent singlet fission in crystalline hexacene. <i>Nature Chemistry</i> , 2017, 9, 341-346.	13.6	155
24	Is Photolytic Production a Viable Source of HCN and HNC in Astrophysical Environments? A Laboratory-based Feasibility Study of Methyl Cyanofornate. <i>Astrophysical Journal</i> , 2017, 849, 15.	4.5	18
25	Single-Molecule Fluorescence Resonance Energy Transfer Studies of β -Amyloid Clusters in Physiological Solutions. <i>World Scientific Lecture and Course Notes in Chemistry</i> , 2017, , 297-311.	0.2	0
26	Effects of Molecular Structure and Solvent Polarity on Adsorption of Carboxylic Anchoring Dyes onto TiO_2 Particles in Aprotic Solvents. <i>Langmuir</i> , 2017, 33, 7036-7042.	3.5	19
27	Label-Free Optical Method for Quantifying Molecular Transport Across Cellular Membranes In Vitro. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3406-3411.	4.6	34
28	Large cross section for super energy transfer from hyperthermal atoms to ambient molecules. <i>Physical Review A</i> , 2016, 93, .	2.5	14
29	Photoactivated Production of Secondary Organic Species from Isoprene in Aqueous Systems. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9042-9048.	2.5	23
30	Note: Reconstructing interferograms improves spectral SNR. <i>Journal of Chemical Physics</i> , 2016, 145, 036101.	3.0	6
31	Observation of Organic Molecules at the Aerosol Surface. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2294-2297.	4.6	21
32	Solution-Processed Molecular Opto-Ferroic Crystals. <i>Chemistry of Materials</i> , 2016, 28, 2441-2448.	6.7	10
33	Spectral reconstruction analysis for enhancing signal-to-noise in time-resolved spectroscopies. <i>Journal of Chemical Physics</i> , 2015, 143, 124204.	3.0	9
34	Solid state transformation of the crystalline monohydrate $(\text{CH}_3\text{NH}_3)\text{PbI}_3(\text{H}_2\text{O})$ to the $(\text{CH}_3\text{NH}_3)\text{PbI}_3$ perovskite. <i>Chemical Communications</i> , 2015, 51, 11290-11292.	4.1	51
35	Adsorption and transport of charged vs. neutral hydrophobic molecules at the membrane of murine erythroleukemia (MEL) cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 127, 122-129.	5.0	39
36	Adsorption of Anionic Thiols on Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5454-5461.	3.1	25

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37	Chemically Induced Changes to Membrane Permeability in Living Cells Probed with Nonlinear Light Scattering. <i>Biochemistry</i> , 2015, 54, 4427-4430.	2.5	33
38	Gram ⁺ Stain Does Not Cross the Bacterial Cytoplasmic Membrane. <i>ACS Chemical Biology</i> , 2015, 10, 1711-1717.	3.4	51
39	Polarized Absorption in Crystalline Pentacene: Theory vs Experiment. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22137-22147.	3.1	98
40	Chemical Activation through Super Energy Transfer Collisions. <i>Journal of the American Chemical Society</i> , 2014, 136, 1682-1685.	13.7	28
41	Real-time molecular uptake and membrane-specific transport in living cells by optical microscopy and nonlinear light scattering. <i>Chemical Physics Letters</i> , 2014, 605-606, 158-163.	2.6	30
42	Second Harmonic Light Scattering from the Surface of Colloidal Objects: Theory and Applications. <i>Langmuir</i> , 2014, 30, 2588-2599.	3.5	66
43	New Paradigms for Educating Chemistry Professionals in a Globalized World. <i>ACS Symposium Series</i> , 2014, , 199-204.	0.5	0
44	Real-Time Observation of Molecular Transport across Biological Membranes with Non-Linear Optical Spectroscopy and Fluorescence Microscopy. <i>Biophysical Journal</i> , 2013, 104, 23a.	0.5	1
45	The lowest quartet-state of the ketyenyl (HCCO) radical: Collision-induced intersystem crossing and the ν_1 vibrational mode. <i>Chemical Physics</i> , 2013, 422, 290-296.	1.9	20
46	Time-Resolved Molecular Transport across Living Cell Membranes. <i>Biophysical Journal</i> , 2013, 104, 139-145.	0.5	78
47	Collisional Energy Transfer from Highly Vibrationally Excited Radicals Is Very Efficient. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 23-29.	4.6	13
48	Photolysis (193 nm) of SO ₂ : Nascent Product Energy Distribution Examined through IR Emission. <i>Journal of Physical Chemistry A</i> , 2012, 116, 166-173.	2.5	14
49	The Effect of Composition, Morphology, and Susceptibility on Nonlinear Light Scattering from Metallic and Dielectric Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2877-2881.	4.6	40
50	Activation of Thiols at a Silver Nanoparticle Surface. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6622-6625.	13.8	90
51	Communication: Reactions and adsorption at the surface of silver nanoparticles probed by second harmonic generation. <i>Journal of Chemical Physics</i> , 2011, 134, 041104.	3.0	54
52	The Effect of Particle Size in Second Harmonic Generation from the Surface of Spherical Colloidal Particles. II: The Nonlinear Rayleigh-Debye Model. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4302-4308.	3.1	59
53	Strong combination-band IR emission from highly vibrationally excited acetylene. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2915.	2.8	14
54	Photodissociation of vinyl cyanide at 193 nm: Nascent product distributions of the molecular elimination channels. <i>Journal of Chemical Physics</i> , 2009, 130, 044307.	3.0	33

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55	The Effect of Particle Size in Second Harmonic Generation from the Surface of Spherical Colloidal Particles. I: Experimental Observations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4758-4762.	2.5	73
56	Vibrational Modes of the Vinyl and Deuterated Vinyl Radicals. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8857-8870.	2.5	23
57	Signal-to-noise enhancement in time-resolved IR emission spectra through two-dimensional correlation analysis. <i>Journal of Molecular Structure</i> , 2008, 883-884, 242-248.	3.6	5
58	Tetracene Monolayer and Multilayer Thin Films on Ag(111): π -Substrate-Adsorbate Charge-Transfer Bonding and Inter-Adsorbate Interaction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4696-4703.	3.1	19
59	The $\hat{1}/2$ CH stretching mode of the ketylenyl (HCCO) radical. <i>Journal of Chemical Physics</i> , 2008, 128, 064313.	3.0	19
60	Adsorption at a Carbon Black Microparticle Surface in Aqueous Colloids Probed by Optical Second-Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8708-8715.	3.1	40
61	Quantum State-Resolved Collision Relaxation of Highly Vibrationally Excited SO ₂ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 9632-9639.	2.5	4
62	Adsorbate-substrate bonding and the growth of naphthalene thin films on Ag(111). <i>Surface Science</i> , 2007, 601, 2307-2314.	1.9	11
63	Photochemistry of Vinyl Chloride Physisorbed on Ag(111) through Molecular Anion Formation Induced by Substrate Electron Attachment. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10374-10382.	2.6	5
64	Structure and Growth of Thin Films of Aniline on Silver: Nucleation and Premelting of Nanocrystallites, Porosity, and Crystallization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23424-23432.	2.6	2
65	Probing Molecules Adsorbed at the Surface of Nanometer Colloidal Particles by Optical Second-Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23000-23003.	2.6	54
66	Adsorption Energies, Inter-adsorbate Interactions, and the Two Binding Sites within Monolayer Benzene on Ag(111). <i>Journal of Physical Chemistry B</i> , 2006, 110, 19973-19978.	2.6	50
67	Collision Relaxation of Highly Vibrationally Excited SO ₂ by CO in A Supersonic Beam. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 25-31.	1.4	2
68	Time-Resolved FTIR Emission Spectroscopy of Transient Radicals. <i>Journal of the Chinese Chemical Society</i> , 2005, 52, 677-686.	1.4	7
69	Aniline on Ag(111): Adsorption configuration, adsorbate-substrate bond, and inter-adsorbate interactions. <i>Surface Science</i> , 2005, 589, 42-51.	1.9	18
70	Two-dimensional cross-spectral correlation analysis and its application to time-resolved Fourier transform emission spectra of transient radicals. <i>Journal of Chemical Physics</i> , 2005, 123, 184104.	3.0	13
71	Adsorption of a Cationic Dye Molecule on Polystyrene Microspheres in Colloids: Effect of Surface Charge and Composition Probed by Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4646-4653.	2.6	76
72	Physisorption on a metal surface probed by surface state resonant second harmonic generation. <i>Surface Science</i> , 2004, 565, 27-36.	1.9	16

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91	Collisional Energy Transfer of Highly Vibrationally Excited Molecules: The Role of Long-Range Interaction and Intramolecular Vibronic Coupling. ACS Symposium Series, 1997, , 266-274.	0.5	5
92	Probing Structure, Spectroscopy, Kinetics, and Dynamics on Metal Surfaces by Optical Second Harmonic Generation. Journal of the Chinese Chemical Society, 1995, 42, 461-469.	1.4	2
93	DISPERSED AND STIMULATED EMISSION STUDIES OF THE EXCITED VIBRATIONAL LEVELS OF A TRANSIENT MOLECULE: SINGLET METHYLENE. Advanced Series in Physical Chemistry, 1995, , 183-221.	1.5	1
94	TIME-RESOLVED DIODE LASER IR REFLECTION-ABSORPTION SPECTROSCOPY. Advanced Series in Physical Chemistry, 1995, , 243-274.	1.5	1
95	VIBRATIONAL SPECTROSCOPY AND DYNAMICS BY STIMULATED EMISSION PUMPING. Advances in Multi-photon Processes and Spectroscopy, 1991, , 169-236.	0.6	0
96	Imaging Molecular Transport Through the Membrane of a Living Cell. SSRN Electronic Journal, 0, , .	0.4	1
97	Quantitative Modeling of Electron Dynamics and the Effect of Diffusion in Photosensitized Semiconductor Nanocomposites. Accounts of Chemical Research, 0, , .	15.6	1
98	Nonlinear Light Scattering from Buried Interfaces: Fundamentals and Applications. ACS Symposium Series, 0, , 173-198.	0.5	0