Li-Kang Chu

List of Publications by Year
in descending order

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53	1,196	516561 16	395590 33
papers	citations	h-index	g-index

54	54	54	1539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Molecular Design Based on Thermally Activated Delayed Fluorescence for Highly Efficient Organic Light Emitting Diodes. Journal of the American Chemical Society, 2016, 138, 628-634.	6.6	365
2	Molecular Design of Highly Efficient Thermally Activated Delayed Fluorescence Hosts for Blue Phosphorescent and Fluorescent Organic Light-Emitting Diodes. Chemistry of Materials, 2017, 29, 1527-1537.	3.2	85
3	Highly efficient orange and deep-red organic light emitting diodes with long operational lifetimes using carbazoleâ€“quinoline based bipolar host materials. Journal of Materials Chemistry C, 2014, 2, 6183-6191.	2.7	79
4	A high triplet energy, high thermal stability oxadiazole derivative as the electron transporter for highly efficient red, green and blue phosphorescent OLEDs. Journal of Materials Chemistry C, 2015, 3, 1491-1496.	2.7	61
5	Bacteriorhodopsin-based photo-electrochemical cell. Biosensors and Bioelectronics, 2010, 26, 620-626.	5.3	58
6	Plasmonic Field Enhancement of the Bacteriorhodopsin Photocurrent during Its Proton Pump Photocycle. Journal of the American Chemical Society, 2010, 132, 7250-7251.	6.6	40
7	Development of a Dinitrosyl Iron Complex Molecular Catalyst into a Hydrogen Evolution Cathode. Angewandte Chemie - International Edition, 2015, 54, 14824-14829.	7.2	32
8	Transient infrared spectra of CH3SOO and CH3SO observed with a step-scan Fourier-transform spectrometer. Journal of Chemical Physics, 2010, 133, 184303.	1.2	30
9	Infrared absorption of CH3SO2 detected with time-resolved Fourier-transform spectroscopy. Journal of Chemical Physics, 2006, 124, 244301.	1.2	27
10	Infrared absorption of gaseous CH3OO detected with a step-scan Fourier-transform spectrometer. Journal of Chemical Physics, 2007, 127, 234318.	1.2	26
11	Quantifying the photothermal efficiency of gold nanoparticles using tryptophan as an in situ fluorescent thermometer. Physical Chemistry Chemical Physics, 2015, 17, 17090-17100.	1.3	26
12	Transient Infrared Absorption Spectra of Reaction Intermediates Detected with a Stepâ€scan Fourierâ€transform Infrared Spectrometer. Journal of the Chinese Chemical Society, 2014, 61, 47-58.	0.8	24
13	Tuning the Photocycle Kinetics of Bacteriorhodopsin in Lipid Nanodiscs. Biophysical Journal, 2015, 109, 1899-1906.	0.2	24
14	Detection of ClSO with time-resolved Fourier-transform infrared absorption spectroscopy. Journal of Chemical Physics, 2004, 120, 3179-3184.	1.2	21
15	Differentiating the protein dynamics using fluorescence evolution of tryptophan residue(s): A comparative study of bovine and human serum albumins upon temperature jump. Chemical Physics Letters, 2021, 781, 138998.	1.2	20
16	On the Mechanism of the Plasmonic Field Enhancement of the Solar-to-Electric Energy Conversion by the Other Photosynthetic System in Nature (Bacteriorhodopsin): Kinetic and Spectroscopic Study. Journal of Physical Chemistry C, 2010, 114, 15358-15363.	1.5	17
17	Gaseous infrared spectra of the simplest geminal diol CH₂(OH)₂ and the isotopic analogues in the hydration of formaldehyde. Physical Chemistry Chemical Physics, 2021, 23, 14699-14705.	1.3	17
18	Effects of Surfactants on the Purple Membrane and Bacteriorhodopsin: Solubilization or Aggregation?. Journal of Physical Chemistry B, 2013, 117, 6241-6249.	1.2	16

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19	Effects of the Terminal Aromatic Residues on Polyproline Conformation: Thermodynamic and Kinetic Studies. Journal of Physical Chemistry B, 2015, 119, 15796-15806.	1.2	15
20	Highly Efficient Transfer of 7TM Membrane Protein from Native Membrane to Covalently Circularized Nanodisc. Scientific Reports, 2018, 8, 13501.	1.6	14
21	Lipids influence the proton pump activity of photosynthetic protein embedded in nanodiscs. RSC Advances, 2016, 6, 88300-88305.	1.7	12
22	The Î½7, Î½8, and Î½11 bands of propynal, C2HCHO, in the 650cmâ¯1 region. Journal of Molecular Spectroscopy, 2008, 252, 230-238.	0.4	11
23	Infrared absorption of C6H5SO2 detected with time-resolved Fourier-transform spectroscopy. Journal of Chemical Physics, 2007, 126, 134311.	1.2	10
24	Kinetics of the Mâ€intermediate in the Photocycle of Bacteriorhodopsin upon Chemical Modification with Surfactants. Photochemistry and Photobiology, 2010, 86, 316-323.	1.3	10
25	Electrodeposited-film electrodes derived from a precursor dinitrosyl iron complex for electrocatalytic water splitting. Dalton Transactions, 2018, 47, 7128-7134.	1.6	10
26	Using SiO₂-Coated Gold Nanorods as Temperature Jump Photothermal Convertors Coupled with a Confocal Fluorescent Thermometer to Study Protein Unfolding Kinetics: A Case of Bovine Serum Albumin. Journal of Physical Chemistry C, 2017, 121, 14981-14989.	1.5	9
27	Rapid preparation of gaseous methanediol (CH₂(OH)₂). Chemical Communications, 2022, 58, 4208-4210.	2.2	9
28	Infrared absorption of gaseous ClCS detected with time-resolved Fourier-transform spectroscopy. Journal of Chemical Physics, 2007, 126, 174310.	1.2	8
29	Bacteriorhodopsin Oâ€state Photocycle Kinetics: A Surfactant Study. Photochemistry and Photobiology, 2010, 86, 70-76.	1.3	8
30	Photochemistry of a Dual-Bacteriorhodopsin System in Haloarcula marismortui: HmbRI and HmbRII. Journal of Physical Chemistry B, 2014, 118, 7290-7301.	1.2	8
31	Monitoring the Transient Thermal Infrared Emission of Gold Nanoparticles upon Photoexcitation with a Step-Scan Fourier-Transform Spectrometer. Journal of Physical Chemistry C, 2017, 121, 878-885.	1.5	8
32	Infrared absorption of gaseous c-ClCOOH and t-ClCOOH recorded with a step-scan Fourier-transform spectrometer. Journal of Chemical Physics, 2009, 130, 174304.	1.2	7
33	Spatially and temporally-resolved tryptophan fluorescence thermometry for monitoring the photothermal processes of gold nanorod suspensions. Sensors and Actuators B: Chemical, 2018, 255, 1285-1290.	4.0	7
34	Does Tetrahydrofuran (THF) Behave like a Solvent or a Reactant in the Photolysis of Thionyl Chloride (Cl₂SO) in Cyclohexane? A Transient Infrared Difference Study. Journal of Physical Chemistry A, 2018, 122, 5401-5408.	1.1	7
35	Study of the reactive excited-state dynamics of delipidated bacteriorhodopsin upon surfactant treatments. Chemical Physics Letters, 2012, 539-540, 151-156.	1.2	6
36	Distance-Dependent Excited-State Electron Transfer from Tryptophan to Gold Nanoparticles through Polyproline Helices. Journal of Physical Chemistry C, 2017, 121, 4882-4890.	1.5	6

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37	Tier-0 protein dynamics of bovine serum albumin: A kinetics and energetics study of the collective domain motions. Chemical Physics Letters, 2021, 762, 138102.	1.2	6
38	Solvent Isotope Effect on the Dark Adaptation of Bacteriorhodopsin in Purple Membrane: Viewpoints of Kinetics and Thermodynamics. Journal of Physical Chemistry B, 2014, 118, 2662-2669.	1.2	5
39	Modeling of photocurrent kinetics upon pulsed photoexcitation of photosynthetic proteins: A case of bacteriorhodopsin. Bioelectrochemistry, 2014, 99, 1-7.	2.4	5
40	Extracting the protein dynamics of bovine serum albumin in the native condition using confocal fluorescent temperature jump. Journal of Applied Physics, 2019, 125, 084701.	1.1	5
41	Radiative Relaxation of Gold Nanorods Coated with Mesoporous Silica with Different Porosities upon Nanosecond Photoexcitation Monitored by Time-Resolved Infrared Emission Spectroscopy. ACS Applied Materials & Interfaces, 2021, 13, 60018-60026.	4.0	5
42	Radiative Cooling of Surface-Modified Gold Nanorods upon Pulsed Infrared Photoexcitation. Journal of Physical Chemistry Letters, 2018, 9, 5110-5115.	2.1	4
43	Influence of Lipid Compositions in the Events of Retinal Schiff Base of Bacteriorhodopsin Embedded in Covalently Circularized Nanodiscs: Thermal Isomerization, Photoisomerization, and Deprotonation. Journal of Physical Chemistry B, 2019, 123, 9123-9133.	1.2	4
44	Photochemistry of Bacteriorhodopsin with Various Oligomeric Statuses in Controlled Membrane Mimicking Environments: A Spectroscopic Study from Femtoseconds to Milliseconds. Journal of Physical Chemistry B, 2019, 123, 2032-2039.	1.2	4
45	Infrared Spectroscopic and Kinetic Characterization on the Photolysis of Nitrite in Alcohol-Containing Aqueous Solutions. Journal of Physical Chemistry A, 2020, 124, 3904-3914.	1.1	4
46	Protein dynamics of human serum albumin at hypothermic temperatures investigated by temperature jump. Physical Chemistry Chemical Physics, 2022, 24, 11079-11085.	1.3	3
47	Thermographic Detection and Analysis of the Temporal and Spatial Evolution of Temperature upon Optical Heating of Gold Nanorod Assembly Immobilized in Agar. ACS Omega, 2018, 3, 16960-16968.	1.6	2
48	Time-resolved Infrared Characterization on the Photolysis of Roussin's Red Phenyl Ester in Different Solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 406, 113032.	2.0	2
49	Influence of the thickness of silica layer on the radiative relaxation of <scp>AuNR</scp>@<scp>SiO₂</scp> coreâ€“shell nanostructures upon photoexcitation. Journal of the Chinese Chemical Society, 2022, 69, 73-81.	0.8	2
50	Roles of functional lipids in bacteriorhodopsin photocycle in various delipidated purple membranes. Biophysical Journal, 2022, 121, 1789-1798.	0.2	2
51	Analyzing a steady-state phenomenon using an ensemble of sequential transient events: A proof of concept on photocurrent of bacteriorhodopsin upon continuous photoexcitation. Journal of Applied Physics, 2014, 116, 144701.	1.1	0
52	Wavelength-dependent photocycle activity of xanthorhodopsin in the visible region. Biochemistry and Biophysics Reports, 2016, 7, 347-352.	0.7	0
53	Reply to â€œComment on â€˜Does Tetrahydrofuran (THF) Behave like a Solvent or a Reactant in the Photolysis of Thionyl Chloride (Cl2SO) in Cyclohexane? A Transient Infrared Difference Studyâ€™â€• Journal of Physical Chemistry A, 2019, 123, 7895-7895.	1.1	0