

Tak W Kee

List of Publications by Year in descending order

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66
papers

3,588
citations

201674

27
h-index

133252

59
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72
all docs

72
docs citations

72
times ranked

5806
citing authors

#	ARTICLE	IF	CITATIONS
1	The thioflavin T fluorescence assay for amyloid fibril detection can be biased by the presence of exogenous compounds. <i>FEBS Journal</i> , 2009, 276, 5960-5972.	4.7	473
2	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. <i>Nature Communications</i> , 2017, 8, 14120.	12.8	330
3	Simple approach to one-laser, broadband coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2004, 29, 2701.	3.3	289
4	Encapsulation of Curcumin in Cationic Micelles Suppresses Alkaline Hydrolysis. <i>Langmuir</i> , 2008, 24, 5672-5675.	3.5	232
5	Effective Stabilization of Curcumin by Association to Plasma Proteins: Human Serum Albumin and Fibrinogen. <i>Langmuir</i> , 2009, 25, 5773-5777.	3.5	176
6	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymer- C_{60} fullerene blends. <i>Nature Communications</i> , 2014, 5, 4933.	12.8	131
7	Endothermic singlet fission is hindered by excimer formation. <i>Nature Chemistry</i> , 2018, 10, 305-310.	13.6	130
8	Solvation Dynamics of the Hydrated Electron Depends on Its Initial Degree of Electron Delocalization. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2374-2378.	2.5	112
9	Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. <i>Advanced Energy Materials</i> , 2019, 9, 1901016.	19.5	109
10	The Role of Charge in the Surfactant-Assisted Stabilization of the Natural Product Curcumin. <i>Langmuir</i> , 2010, 26, 5520-5526.	3.5	99
11	Coarse-grained simulations of the solution-phase self-assembly of poly(3-hexylthiophene) nanostructures. <i>Nanoscale</i> , 2013, 5, 2017.	5.6	98
12	Excited-State Intramolecular Hydrogen Atom Transfer and Solvation Dynamics of the Medicinal Pigment Curcumin. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5255-5261.	2.6	97
13	Excited-State Intramolecular Hydrogen Atom Transfer of Curcumin in Surfactant Micelles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2997-3004.	2.6	87
14	A Unified Electron Transfer Model for the Different Precursors and Excited States of the Hydrated Electron. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8434-8439.	2.5	80
15	Chemical Defects in the Highly Fluorescent Conjugated Polymer Dots. <i>Langmuir</i> , 2010, 26, 17785-17789.	3.5	75
16	Solvent Effects on Vibrational Coherence and Ultrafast Reaction Dynamics in the Multicolor Pump-Probe Spectroscopy of Intervalence Electron Transfer. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10637-10644.	2.5	70
17	Femtosecond Multicolor Pump-Probe Study of Ultrafast Electron Transfer of $[(\text{NH}_3)_5\text{Ru}(\text{II})\text{CN}(\text{CN})_5]$ in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4591-4597.	2.5	64
18	Cooperative Binding and Stabilization of the Medicinal Pigment Curcumin by Diamide Linked β -Cyclodextrin Dimers: A Spectroscopic Characterization. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1268-1274.	2.6	62

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19	Ultrafast Carrier Dynamics in Methylammonium Lead Bromide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2542-2547.	3.1	54
20	Delocalizing Electrons in Water with Light. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8269-8272.	2.5	49
21	One-laser interferometric broadband coherent anti-Stokes Raman scattering. <i>Optics Express</i> , 2006, 14, 3631.	3.4	46
22	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1900971.	7.3	46
23	One-photon UV detrapping of the hydrated electron. <i>Chemical Physics Letters</i> , 2001, 342, 571-577.	2.6	44
24	Femtosecond Dynamics of Excitons and Hole-Polarons in Composite P3HT/PCBM Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4626-4633.	2.6	42
25	Photoinduced <i>cis</i> -to- <i>trans</i> Isomerization of Cyclocurcumin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10707-10714.	2.6	33
26	Femtosecond transient absorption spectroscopy of copper(ii)-curcumin complexes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13580.	2.8	33
27	Molecular-Level Details of Morphology-Dependent Exciton Migration in Poly(3-hexylthiophene) Nanostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7047-7059.	3.1	29
28	Delivery of Curcumin and Medicinal Effects of the Copper(II)-Curcumin Complexes. <i>Current Pharmaceutical Design</i> , 2013, 19, 2070-2083.	1.9	29
29	Optical Pumping of Poly(3-hexylthiophene) Singlet Excitons Induces Charge Carrier Generation. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1040-1047.	4.6	28
30	Diamide Linked β -Cyclodextrin Dimers as Molecular-Scale Delivery Systems for the Medicinal Pigment Curcumin to Prostate Cancer Cells. <i>Molecular Pharmaceutics</i> , 2013, 10, 4481-4490.	4.6	27
31	Femtosecond Pump-Probe and Pump-Dump-Probe Spectroscopy of Conjugated Polymers: New Insight and Opportunities. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3231-3240.	4.6	27
32	Nanoprecipitation and Spectroscopic Characterization of Curcumin-Encapsulated Polyester Nanoparticles. <i>Langmuir</i> , 2015, 31, 11419-11427.	3.5	25
33	Second-harmonic generation and two-photon-excited autofluorescence microscopy of cardiomyocytes: quantification of cell volume and myosin filaments. <i>Journal of Biomedical Optics</i> , 2008, 13, 064018.	2.6	24
34	Controlling the Efficiency of Singlet Fission in TIPS-Pentacene/Polymer Composite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5813-5825.	3.1	24
35	Density functional theory investigation of Cu(I)- and Cu(II)-curcumin complexes. <i>Journal of Computational Chemistry</i> , 2011, 32, 429-438.	3.3	22
36	Aggregation and Host-Guest Interactions in Dansyl-Substituted Poly(acrylate)s in the Presence of β -Cyclodextrin and a β -Cyclodextrin Dimer in Aqueous Solution: A UV-Vis, Fluorescence, ^1H NMR, and Rheological Study. <i>Macromolecules</i> , 2011, 44, 9782-9791.	4.8	20

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37	Femtosecond Fluorescence Upconversion Investigations on the Excited-State Photophysics of Curcumin. <i>Australian Journal of Chemistry</i> , 2011, 64, 23.	0.9	19
38	Low-Bandgap Conjugated Polymer Dots for Near-Infrared Fluorescence Imaging. <i>ACS Applied Nano Materials</i> , 2018, 1, 4801-4808.	5.0	19
39	What Next for Singlet Fission in Photovoltaics? The Fate of Triplet and Triplet-Pair Excitons. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5369-5377.	3.1	19
40	Molecular Basis of Binding and Stability of Curcumin in Diamide-Linked β -Cyclodextrin Dimers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12375-12382.	2.6	18
41	Origin of the Excited-State Absorption Spectrum of Polythiophene. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2806-2811.	4.6	18
42	The Capture and Stabilization of Curcumin Using Hydrophobically Modified Polyacrylate Aggregates and Hydrogels. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9515-9523.	2.6	14
43	Anisotropic Triplet Exciton Diffusion in Crystalline Functionalized Pentacene. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23541-23550.	3.1	13
44	The mechanism of electron-cation geminate recombination in liquid isooctane. <i>Chemical Physics Letters</i> , 2005, 403, 257-261.	2.6	12
45	Delivery of Curcumin and Medicinal Effects of the Copper(II)-Curcumin Complexes. <i>Current Pharmaceutical Design</i> , 2013, 19, 2070-2083.	1.9	12
46	Excited-state dynamics of the medicinal pigment curcumin in a hydrogel. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28125-28133.	2.8	12
47	Observation of Hot Carriers Existing in Ag_2S Nanoparticles and Its Implication on Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10199-10205.	3.1	11
48	Terahertz Signal Classification Based on Geometric Algebra. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 793-802.	3.1	10
49	Characterization of the ultrafast spectral diffusion and vibronic coherence of TIPS-pentacene using 2D electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 155, 014302.	3.0	10
50	Pump-Probe Spectroscopy of the Hydrated Electron in Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3474-3478.	2.6	9
51	Coarse-Grained Simulations of the Effects of Chain Length, Solvent Quality, and Chemical Defects on the Solution-Phase Morphology of MEH-PPV Conjugated Polymers. <i>Australian Journal of Chemistry</i> , 2012, 65, 463.	0.9	8
52	Optical Properties of the Atomically Precise Au_4 Core $[\text{Au}_9(\text{PPh}_3)_3]_8^{3+}$ Cluster Probed by Transient Absorption Spectroscopy and Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2033-2044.	3.1	8
53	Dual Laser Study of Non-Degenerate Two Wavelength Upconversion Demonstrated in Sensitizer-Free $\text{NaYF}_4:\text{Pr}$ Nanoparticles. <i>Advanced Optical Materials</i> , 2021, 9, 2001903.	7.3	8
54	Emission Decay Pathways Sensitive to Circular Polarization of Excitation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23910-23916.	3.1	7

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55	Liberation of Charge Carriers by Optical Pumping Excitons in Poly(3-hexylthiophene) Aggregates. Journal of Physical Chemistry C, 2019, 123, 3441-3448.	3.1	7
56	Nanoparticle Size-Dependent Singlet Fission and Exciton Dynamics in Amorphous TIPS-Pentacene. Journal of Physical Chemistry C, 2021, 125, 21559-21570.	3.1	7
57	Generation of Fluorescent and Stable Conjugated Polymer Nanoparticles with Hydrophobically Modified Poly(acrylate)s. Macromolecules, 2016, 49, 8530-8539.	4.8	6
58	Organizing Crystalline Functionalized Pentacene Using Periodicity of Poly(Vinyl Alcohol). Journal of Physical Chemistry Letters, 2020, 11, 516-523.	4.6	6
59	Femtosecond Transient Absorption Spectroscopy of the Medicinal Agent Curcumin in Diamide Linked β -Cyclodextrin Dimers. Journal of Physical Chemistry B, 2015, 119, 2425-2433.	2.6	5
60	Reduction of Copper(II) to Copper(I) in the Copper-Curcumin Complex Induces Decomposition of Curcumin. Australian Journal of Chemistry, 2012, 65, 490.	0.9	4
61	A Robust Strategy for "Living" Growth of Lead Sulfide Quantum Dots. ChemNanoMat, 2016, 2, 49-53.	2.8	4
62	Two-Dimensional Electronic Spectroscopy Using Rotating Optical Flats. Journal of Physical Chemistry A, 2020, 124, 1053-1061.	2.5	4
63	Perovskites: Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination (Adv. Energy Mater. 24/2019). Advanced Energy Materials, 2019, 9, 1970093.	19.5	1
64	Multiphoton Phosphorescence of Simple Ketones by Visible-light Excitation and Its Consideration for Active Sensing in Space. Journal of Fluorescence, 2022, 32, 1051-1057.	2.5	1
65	Ultrafast charge generation and relaxation dynamics in methylammonium lead bromide perovskites. , 2015, , .		0
66	Ultrafast transient absorption study of hot carrier dynamics in hafnium nitride and zirconium nitride. , 2015, , .		0