Tak W Kee

List of Publications by Year
in descending order

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Version: 2024-02-01

66 papers	3,588 citations	201674 27 h-index	133252 59 g-index
72 all docs	72 docs citations	72 times ranked	5806 citing authors

#	Article	IF	Citations
1	What Next for Singlet Fission in Photovoltaics? The Fate of Triplet and Triplet-Pair Excitons. Journal of Physical Chemistry C, 2022, 126, 5369-5377.	3.1	19
2	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
3	Optical Properties of the Atomically Precise C₄ Core [Au₉(PPh₃)₈]³⁺ Cluster Probed by Transient Absorption Spectroscopy and Time-Dependent Density Functional Theory. Journal of Physical Chemistry C, 2021, 125, 2033-2044.	3.1	8
4	Dual Laser Study of Nonâ€Degenerate Two Wavelength Upconversion Demonstrated in Sensitizerâ€Free NaYF₄:Pr Nanoparticles. Advanced Optical Materials, 2021, 9, 2001903.	7.3	8
5	Characterization of the ultrafast spectral diffusion and vibronic coherence of TIPS-pentacene using 2D electronic spectroscopy. Journal of Chemical Physics, 2021, 155, 014302.	3.0	10
6	Nanoparticle Size-Dependent Singlet Fission and Exciton Dynamics in Amorphous TIPS-Pentacene. Journal of Physical Chemistry C, 2021, 125, 21559-21570.	3.1	7
7	Two-Dimensional Electronic Spectroscopy Using Rotating Optical Flats. Journal of Physical Chemistry A, 2020, 124, 1053-1061.	2.5	4
8	Organizing Crystalline Functionalized Pentacene Using Periodicity of Poly(Vinyl Alcohol). Journal of Physical Chemistry Letters, 2020, 11, 516-523.	4.6	6
9	Anisotropic Triplet Exciton Diffusion in Crystalline Functionalized Pentacene. Journal of Physical Chemistry C, 2020, 124, 23541-23550.	3.1	13
10	Transient Energy Reservoir in 2D Perovskites. Advanced Optical Materials, 2019, 7, 1900971.	7.3	46
11	Perovskites: Triggering the Passivation Effect of Potassium Doping in Mixedâ€Cation Mixedâ€Halide Perovskite by Light Illumination (Adv. Energy Mater. 24/2019). Advanced Energy Materials, 2019, 9, 1970093.	19.5	1
12	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
13	Triggering the Passivation Effect of Potassium Doping in Mixedâ€Cation Mixedâ€Halide Perovskite by Light Illumination. Advanced Energy Materials, 2019, 9, 1901016.	19.5	109
14	Controlling the Efficiency of Singlet Fission in TIPS-Pentacene/Polymer Composite Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 5813-5825.	3.1	24
15	Endothermic singlet fission is hindered by excimer formation. Nature Chemistry, 2018, 10, 305-310.	13.6	130
16	Emission Decay Pathways Sensitive to Circular Polarization of Excitation. Journal of Physical Chemistry C, 2018, 122, 23910-23916.	3.1	7
17	Low-Bandgap Conjugated Polymer Dots for Near-Infrared Fluorescence Imaging. ACS Applied Nano Materials, 2018, 1, 4801-4808.	5.0	19
18	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. Nature Communications, 2017, 8, 14120.	12.8	330

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19	Origin of the Excited-State Absorption Spectrum of Polythiophene. Journal of Physical Chemistry Letters, 2017, 8, 2806-2811.	4.6	18
20	Observation of Hot Carriers Existing in Ag₂S Nanoparticles and Its Implication on Solar Cell Application. Journal of Physical Chemistry C, 2016, 120, 10199-10205.	3.1	11
21	Excited-state dynamics of the medicinal pigment curcumin in a hydrogel. Physical Chemistry Chemical Physics, 2016, 18, 28125-28133.	2.8	12
22	A Robust Strategy for â€œLivingâ€•Growth of Lead Sulfide Quantum Dots. ChemNanoMat, 2016, 2, 49-53.	2.8	4
23	Generation of Fluorescent and Stable Conjugated Polymer Nanoparticles with Hydrophobically Modified Poly(acrylate)s. Macromolecules, 2016, 49, 8530-8539.	4.8	6
24	Terahertz Signal Classification Based on Geometric Algebra. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 793-802.	3.1	10
25	Ultrafast Carrier Dynamics in Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry C, 2016, 120, 2542-2547.	3.1	54
26	Molecular-Level Details of Morphology-Dependent Exciton Migration in Poly(3-hexylthiophene) Nanostructures. Journal of Physical Chemistry C, 2015, 119, 7047-7059.	3.1	29
27	Ultrafast charge generation and relaxation dynamics in methylammonium lead bromide perovskites. , 2015, , .		0
28	Ultrafast transient absorption study of hot carrier dynamics in hafnium nitride and zirconium nitride. , 2015, , .		0
29	Nanoprecipitation and Spectroscopic Characterization of Curcumin-Encapsulated Polyester Nanoparticles. Langmuir, 2015, 31, 11419-11427.	3.5	25
30	Femtosecond Transient Absorption Spectroscopy of the Medicinal Agent Curcumin in Diamide Linked Î³-Cyclodextrin Dimers. Journal of Physical Chemistry B, 2015, 119, 2425-2433.	2.6	5
31	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymerâ€“fullerene blends. Nature Communications, 2014, 5, 4933.	12.8	131
32	Optical Pumping of Poly(3-hexylthiophene) Singlet Excitons Induces Charge Carrier Generation. Journal of Physical Chemistry Letters, 2014, 5, 1040-1047.	4.6	28
33	The Capture and Stabilization of Curcumin Using Hydrophobically Modified Polyacrylate Aggregates and Hydrogels. Journal of Physical Chemistry B, 2014, 118, 9515-9523.	2.6	14
34	Femtosecond Pumpâ€“Pushâ€“Probe and Pumpâ€“Dumpâ€“Probe Spectroscopy of Conjugated Polymers: New Insight and Opportunities. Journal of Physical Chemistry Letters, 2014, 5, 3231-3240.	4.6	27
35	Molecular Basis of Binding and Stability of Curcumin in Diamide-Linked Î³-Cyclodextrin Dimers. Journal of Physical Chemistry B, 2013, 117, 12375-12382.	2.6	18
36	Femtosecond Dynamics of Excitons and Hole-Polarons in Composite P3HT/PCBM Nanoparticles. Journal of Physical Chemistry B, 2013, 117, 4626-4633.	2.6	42

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37	Coarse-grained simulations of the solution-phase self-assembly of poly(3-hexylthiophene) nanostructures. Nanoscale, 2013, 5, 2017.	5.6	98
38	Diamide Linked Î³-Cyclodextrin Dimers as Molecular-Scale Delivery Systems for the Medicinal Pigment Curcumin to Prostate Cancer Cells. Molecular Pharmaceutics, 2013, 10, 4481-4490.	4.6	27
39	Delivery of Curcumin and Medicinal Effects of the Copper(II)-Curcumin Complexes. Current Pharmaceutical Design, 2013, 19, 2070-2083.	1.9	12
40	Delivery of Curcumin and Medicinal Effects of the Copper(II)-Curcumin Complexes. Current Pharmaceutical Design, 2013, 19, 2070-2083.	1.9	29
41	Coarse-Grained Simulations of the Effects of Chain Length, Solvent Quality, and Chemical Defects on the Solution-Phase Morphology of MEH-PPV Conjugated Polymers. Australian Journal of Chemistry, 2012, 65, 463.	0.9	8
42	Femtosecond transient absorption spectroscopy of copper(ii)â€“curcumin complexes. Physical Chemistry Chemical Physics, 2012, 14, 13580.	2.8	33
43	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
44	Photoinduced trans-to-cis Isomerization of Cyclocurcumin. Journal of Physical Chemistry B, 2011, 115, 10707-10714.	2.6	33
45	Cooperative Binding and Stabilization of the Medicinal Pigment Curcumin by Diamide Linked Î³-Cyclodextrin Dimers: A Spectroscopic Characterization. Journal of Physical Chemistry B, 2011, 115, 1268-1274.	2.6	62
46	Femtosecond Fluorescence Upconversion Investigations on the Excited-State Photophysics of Curcumin. Australian Journal of Chemistry, 2011, 64, 23.	0.9	19
47	Aggregation and Hostâ€“Guest Interactions in Dansyl-Substituted Poly(acrylate)s in the Presence of Î²-Cyclodextrin and a Î²-Cyclodextrin Dimer in Aqueous Solution: A UVâ€“Vis, Fluorescence, ¹H NMR, and Rheological Study. Macromolecules, 2011, 44, 9782-9791.	4.8	20
48	Density functional theory investigation of Cu(I)â€•and Cu(II)â€curcumin complexes. Journal of Computational Chemistry, 2011, 32, 429-438.	3.3	22
49	Excited-State Intramolecular Hydrogen Atom Transfer of Curcumin in Surfactant Micelles. Journal of Physical Chemistry B, 2010, 114, 2997-3004.	2.6	87
50	Chemical Defects in the Highly Fluorescent Conjugated Polymer Dots. Langmuir, 2010, 26, 17785-17789.	3.5	75
51	The Role of Charge in the Surfactant-Assisted Stabilization of the Natural Product Curcumin. Langmuir, 2010, 26, 5520-5526.	3.5	99
52	The thioflavin T fluorescence assay for amyloid fibril detection can be biased by the presence of exogenous compounds. FEBS Journal, 2009, 276, 5960-5972.	4.7	473
53	Excited-State Intramolecular Hydrogen Atom Transfer and Solvation Dynamics of the Medicinal Pigment Curcumin. Journal of Physical Chemistry B, 2009, 113, 5255-5261.	2.6	97
54	Effective Stabilization of Curcumin by Association to Plasma Proteins: Human Serum Albumin and Fibrinogen. Langmuir, 2009, 25, 5773-5777.	3.5	176

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55	Encapsulation of Curcumin in Cationic Micelles Suppresses Alkaline Hydrolysis. Langmuir, 2008, 24, 5672-5675.	3.5	232
56	Second-harmonic generation and two-photon-excited autofluorescence microscopy of cardiomyocytes: quantification of cell volume and myosin filaments. Journal of Biomedical Optics, 2008, 13, 064018.	2.6	24
57	One-laser interferometric broadband coherent anti-Stokes Raman scattering. Optics Express, 2006, 14, 3631.	3.4	46
58	The mechanism of electronâ€“cation geminate recombination in liquid isooctane. Chemical Physics Letters, 2005, 403, 257-261.	2.6	12
59	Pumpâ^'Probe Spectroscopy of the Hydrated Electron in Reverse Micelles. Journal of Physical Chemistry B, 2004, 108, 3474-3478.	2.6	9
60	Simple approach to one-laser, broadband coherent anti-Stokes Raman scattering microscopy. Optics Letters, 2004, 29, 2701.	3.3	289
61	Solvation Dynamics of the Hydrated Electron Depends on Its Initial Degree of Electron Delocalizationâ€. Journal of Physical Chemistry A, 2002, 106, 2374-2378.	2.5	112
62	Femtosecond Multicolor Pumpâ^'Probe Study of Ultrafast Electron Transfer of [(NH3)5RuIIINCRuII(CN)5]-in Aqueous Solution. Journal of Physical Chemistry A, 2002, 106, 4591-4597.	2.5	64
63	Delocalizing Electrons in Water with Light. Journal of Physical Chemistry A, 2001, 105, 8269-8272.	2.5	49
64	A Unified Electron Transfer Model for the Different Precursors and Excited States of the Hydrated Electron. Journal of Physical Chemistry A, 2001, 105, 8434-8439.	2.5	80
65	One-photon UV detrapping of the hydrated electron. Chemical Physics Letters, 2001, 342, 571-577.	2.6	44
66	Solvent Effects on Vibrational Coherence and Ultrafast Reaction Dynamics in the Multicolor Pumpâ^'Probe Spectroscopy of Intervalence Electron Transfer. Journal of Physical Chemistry A, 2000, 104, 10637-10644.	2.5	70