Tung-Chun Lee

List of Publications by Year
in descending order

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50 papers	3,934 citations	236925 25 h-index	189892 50 g-index
54 all docs	54 docs citations	54 times ranked	5955 citing authors

#	Article	IF	Citations
1	SERS biosensors based on cucurbituril-mediated nanoaggregates for wastewater-based epidemiology. TrAC - Trends in Analytical Chemistry, 2022, 146, 116485.	11.4	21
2	Diffusional microfluidics for protein analysis. TrAC - Trends in Analytical Chemistry, 2022, 146, 116508.	11.4	2
3	Supramolecular gating of guest release from cucurbit[7]uril using de novo design. Npj Computational Materials, 2022, 8, .	8.7	9
4	Modulating the reaction pathway of phenyl diazonium ions using hostâ€“guest complexation with cucurbit[7]uril. Chemical Communications, 2022, 58, 3617-3620.	4.1	6
5	Supramolecular Hydrogels: Design Strategies and Contemporary Biomedical Applications. Chemistry - an Asian Journal, 2022, 17, e202200081.	3.3	34
6	Rapid Estimation of Binding Constants for Cucurbit[8]uril Ternary Complexes Using Electrochemistry. Analytical Chemistry, 2021, 93, 4223-4230.	6.5	6
7	SERS multiplexing of methylxanthine drug isomers via hostâ€“guest size matching and machine learning. Journal of Materials Chemistry C, 2021, 9, 12624-12632.	5.5	15
8	Enhanced Efficiency and Stability of Planar Perovskite Solar Cells Using a Dual Electron Transport Layer of Gold Nanoparticles Embedded in Anatase TiO₂ Films. ACS Applied Energy Materials, 2020, 3, 9568-9575.	5.1	28
9	Dual-triggered nanoaggregates of cucurbit[7]uril and gold nanoparticles for multi-spectroscopic quantification of creatinine in urinalysis. Journal of Materials Chemistry C, 2020, 8, 7051-7058.	5.5	16
10	Supramolecular Catalysis of m-Xylene Isomerization by Cucurbiturils: Transition State Stabilization, Vibrational Coupling, and Dynamic Binding Equilibrium. Journal of Physical Chemistry C, 2020, 124, 11469-11479.	3.1	11
11	Synthesis of star-shaped polyzwitterions with adjustable UCST and fast responsiveness by a facile RAFT polymerization. Polymer Chemistry, 2020, 11, 3162-3168.	3.9	14
12	Effect of end-groups on sulfobetaine homopolymers with the tunable upper critical solution temperature (UCST). European Polymer Journal, 2020, 132, 109704.	5.4	15
13	Quantitative SERS Detection of Uric Acid via Formation of Precise Plasmonic Nanojunctions within Aggregates of Gold Nanoparticles and Cucurbit[n]uril. Journal of Visualized Experiments, 2020, , .	0.3	1
14	Ultrahigh binding affinity of a hydrocarbon guest inside cucurbit[7]uril enhanced by strong hostâ€“guest charge matching. Physical Chemistry Chemical Physics, 2019, 21, 14521-14529.	2.8	19
15	Recent advances in gold nanoparticles for biomedical applications: from hybrid structures to multi-functionality. Journal of Materials Chemistry B, 2019, 7, 3480-3496.	5.8	115
16	Selective Detection of Nitroexplosives Using Molecular Recognition within Self-Assembled Plasmonic Nanojunctions. Journal of Physical Chemistry C, 2019, 123, 15769-15776.	3.1	31
17	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. Chemical Communications, 2019, 55, 5495-5498.	4.1	11
18	Artificial molecular and nanostructures for advanced nanomachinery. Chemical Communications, 2018, 54, 4075-4090.	4.1	18

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19	Biocompatible pH-responsive nanoparticles with a core-anchored multilayer shell of triblock copolymers for enhanced cancer therapy. Journal of Materials Chemistry B, 2017, 5, 4421-4425.	5.8	64
20	An annealing-free aqueous-processed anatase TiO₂ compact layer for efficient planar heterojunction perovskite solar cells. Chemical Communications, 2017, 53, 10882-10885.	4.1	31
21	Corrosionâ€Protected Hybrid Nanoparticles. Advanced Science, 2017, 4, 1700234.	11.2	20
22	Hybrid Nanoparticles: Corrosionâ€Protected Hybrid Nanoparticles (Adv. Sci. 12/2017). Advanced Science, 2017, 4, 1770059.	11.2	0
23	Active Nanorheology with Plasmonics. Nano Letters, 2016, 16, 4887-4894.	9.1	57
24	Dispersion and shape engineered plasmonic nanosensors. Nature Communications, 2016, 7, 11331.	12.8	154
25	Utilising inorganic nanocarriers for gene delivery. Biomaterials Science, 2016, 4, 70-86.	5.4	297
26	Frontispiece: Dynamic Inclusion Complexes of Metal Nanoparticles Inside Nanocups. Angewandte Chemie - International Edition, 2015, 54, .	13.8	0
27	Selectable Nanopattern Arrays for Nanolithographic Imprint and Etchâ€Mask Applications. Advanced Science, 2015, 2, 1500016.	11.2	14
28	Frontispiz: Dynamic Inclusion Complexes of Metal Nanoparticles Inside Nanocups. Angewandte Chemie, 2015, 127, n/a-n/a.	2.0	0
29	Dynamic Inclusion Complexes of Metal Nanoparticles Inside Nanocups. Angewandte Chemie - International Edition, 2015, 54, 6730-6734.	13.8	15
30	Multi-functional fluorescent carbon dots with antibacterial and gene delivery properties. RSC Advances, 2015, 5, 46817-46822.	3.6	242
31	Swimming by reciprocal motion at low Reynolds number. Nature Communications, 2014, 5, 5119.	12.8	349
32	Supramolecular polymeric peptide amphiphile vesicles for the encapsulation of basic fibroblast growth factor. Chemical Communications, 2014, 50, 3033-3035.	4.1	68
33	Chiral Nanomagnets. ACS Photonics, 2014, 1, 1231-1236.	6.6	70
34	Nanohelices by shadow growth. Nanoscale, 2014, 6, 9457-9466.	5.6	105
35	Self-Propelling Nanomotors in the Presence of Strong Brownian Forces. Nano Letters, 2014, 14, 2407-2412.	9.1	257
36	Chemistry inside molecular containers in the gas phase. Nature Chemistry, 2013, 5, 376-382.	13.6	144

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37	Hybrid nanocolloids with programmed three-dimensional shape and material composition. Nature Materials, 2013, 12, 802-807.	27.5	432
38	Gene Delivery by Functional Inorganic Nanocarriers. Recent Patents on DNA & Gene Sequences, 2012, 6, 108-114.	0.7	16
39	CHAPTER 8. Hydrogels for Biomedical Applications. Monographs in Supramolecular Chemistry, 2012, , 167-209.	0.2	3
40	Triply Triggered Doxorubicin Release From Supramolecular Nanocontainers. Biomacromolecules, 2012, 13, 84-91.	5.4	174
41	Supramolecular Peptide Amphiphile Vesicles through Hostâ€“Guest Complexation. Angewandte Chemie - International Edition, 2012, 51, 9633-9637.	13.8	191
42	Triggered insulin release studies of triply responsive supramolecular micelles. Polymer Chemistry, 2012, 3, 3180.	3.9	80
43	Direct Visualization of Symmetry Breaking During Janus Nanoparticle Formation. Small, 2012, 8, 2698-2703.	10.0	18
44	A Facile Synthesis of Dynamic Supramolecular Aggregates of Cucurbit[n]uril (n=5â€“8) Capped with Gold Nanoparticles in Aqueous Media. Chemistry - A European Journal, 2012, 18, 1628-1633.	3.3	79
45	Supramolecular gold nanoparticleâ€“polymer composites formed in water with cucurbit[8]uril. Chemical Communications, 2011, 47, 164-166.	4.1	89
46	Precise Subnanometer Plasmonic Junctions for SERS within Gold Nanoparticle Assemblies Using Cucurbit[n]uril â€œGlueâ€• ACS Nano, 2011, 5, 3878-3887.	14.6	322
47	Raman and SERS spectroscopy of cucurbit[n]urils. Physical Chemistry Chemical Physics, 2010, 12, 10429.	2.8	71
48	Formation of dynamic aggregates in water by cucurbit[5]uril capped with gold nanoparticles. Chemical Communications, 2010, 46, 2438.	4.1	124
49	Polymerâ€Mediated Dispersion of Gold Nanoparticles: Using Supramolecular Moieties on the Periphery. Advanced Materials, 2009, 21, 3937-3940.	21.0	29
50	Platinum tungsten oxide (Ptâ€“WO3) nanoparticles: their preparation in glycol and electrocatalytic properties. Journal of Experimental Nanoscience, 2006, 1, 113-123.	2.4	10