

# Ming Lee Tang

## List of Publications by Year in descending order

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65  
papers

6,173  
citations

81839

39  
h-index

98753

67  
g-index

67  
all docs

67  
docs citations

67  
times ranked

8160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoantenna-enhanced gas sensing in a single tailored nanofocus. <i>Nature Materials</i> , 2011, 10, 631-636.	13.3	863
2	Halogenated Materials as Organic Semiconductors. <i>Chemistry of Materials</i> , 2011, 23, 446-455.	3.2	489
3	Molecular Cobalt Pentapyridine Catalysts for Generating Hydrogen from Water. <i>Journal of the American Chemical Society</i> , 2011, 133, 9212-9215.	6.6	397
4	Chlorination: A General Route toward Electron Transport in Organic Semiconductors. <i>Journal of the American Chemical Society</i> , 2009, 131, 3733-3740.	6.6	334
5	Hybrid Moleculeâ€“Nanocrystal Photon Upconversion Across the Visible and Near-Infrared. <i>Nano Letters</i> , 2015, 15, 5552-5557.	4.5	284
6	Ambipolar, High Performance, Acene-Based Organic Thin Film Transistors. <i>Journal of the American Chemical Society</i> , 2008, 130, 6064-6065.	6.6	256
7	Correlating Carrier Type with Frontier Molecular Orbital Energy Levels in Organic Thin Film Transistors of Functionalized Acene Derivatives. <i>Journal of the American Chemical Society</i> , 2009, 131, 5264-5273.	6.6	221
8	High-Performance Organic Semiconductors:Â Asymmetric Linear Acenes Containing Sulphur. <i>Journal of the American Chemical Society</i> , 2006, 128, 16002-16003.	6.6	209
9	Structural and Electronic Study of an Amorphous MoS <sub>3</sub> Hydrogenâ€“Generation Catalyst on a Quantumâ€“Controlled Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10203-10207.	7.2	158
10	Thin Film Structure of Triisopropylsilylethynylâ€“Functionalized Pentacene and Tetraceno[2,3â€“b]thiophene from Grazing Incidence Xâ€“Ray Diffraction. <i>Advanced Materials</i> , 2011, 23, 127-131.	11.1	146
11	Efficient Infrared-to-Visible Upconversion with Subsolar Irradiance. <i>Nano Letters</i> , 2016, 16, 7169-7175.	4.5	140
12	Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. <i>Nature</i> , 2020, 587, 594-599.	13.7	135
13	Designing Transmitter Ligands That Mediate Energy Transfer between Semiconductor Nanocrystals and Molecules. <i>Journal of the American Chemical Society</i> , 2017, 139, 9412-9418.	6.6	130
14	Observations of Shape-Dependent Hydrogen Uptake Trajectories from Single Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 13220-13223.	6.6	116
15	Synthesis of Acenaphthyl and Phenanthrene Based Fused-Aromatic Thienopyrazine Co-Polymers for Photovoltaic and Thin Film Transistor Applications. <i>Chemistry of Materials</i> , 2009, 21, 3618-3628.	3.2	109
16	CdS/ZnS coreâ€“shell nanocrystal photosensitizers for visible to UV upconversion. <i>Chemical Science</i> , 2017, 8, 5488-5496.	3.7	98
17	Pentaceno[2,3-b]thiophene, a Hexacene Analogue for Organic Thin Film Transistors. <i>Journal of the American Chemical Society</i> , 2009, 131, 882-883.	6.6	90
18	Nanocrystal Size and Quantum Yield in the Upconversion of Green to Violet Light with CdSe and Anthracene Derivatives. <i>Chemistry of Materials</i> , 2015, 27, 7503-7507.	3.2	90

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19	Surface States Mediate Triplet Energy Transfer in Nanocrystal- <i>Acene Composite Systems</i> . <i>Journal of the American Chemical Society</i> , 2018, 140, 7543-7553.	6.6	88
20	Achieving spin-triplet exciton transfer between silicon and molecular acceptors for photon upconversion. <i>Nature Chemistry</i> , 2020, 12, 137-144.	6.6	85
21	Distance-Dependent Triplet Energy Transfer between CdSe Nanocrystals and Surface Bound Anthracene. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1955-1959.	2.1	82
22	New indolo[3,2- <i>b</i> ]carbazole derivatives for field-effect transistor applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 2921.	6.7	80
23	Triplet Energy Transfer from PbS(Se) Nanocrystals to Rubrene: the Relationship between the Upconversion Quantum Yield and Size. <i>Advanced Functional Materials</i> , 2016, 26, 6091-6097.	7.8	74
24	Ligand enhanced upconversion of near-infrared photons with nanocrystal light absorbers. <i>Chemical Science</i> , 2016, 7, 4101-4104.	3.7	74
25	PbS/CdS Core-Shell Quantum Dots Suppress Charge Transfer and Enhance Triplet Transfer. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16583-16587.	7.2	74
26	Correlating Molecular Structure to Field-Effect Mobility: The Investigation of Side-Chain Functionality in Phenylene-Thiophene Oligomers and Their Application in Field Effect Transistors. <i>Chemistry of Materials</i> , 2007, 19, 2342-2351.	3.2	69
27	Fabrication and Evaluation of Solution-Processed Reduced Graphene Oxide Electrodes for p- and n-Channel Bottom-Contact Organic Thin-Film Transistors. <i>ACS Nano</i> , 2010, 4, 6343-6352.	7.3	69
28	Trialkylsilylethynyl-Functionalized Tetraceno[2,3- <i>b</i> ]thiophene and Anthra[2,3- <i>b</i> ]thiophene Organic Transistors. <i>Chemistry of Materials</i> , 2008, 20, 4669-4676.	3.2	66
29	Transistor and solar cell performance of donor-acceptor low bandgap copolymers bearing an acenaphtho[1,2- <i>b</i> ]thieno[3,4- <i>e</i> ]pyrazine (ACTP) motif. <i>Journal of Materials Chemistry</i> , 2009, 19, 591-593.	6.7	66
30	Thin Film Structure of Tetraceno[2,3- <i>b</i> ]thiophene Characterized by Grazing Incidence X-ray Scattering and Near-Edge X-ray Absorption Fine Structure Analysis. <i>Journal of the American Chemical Society</i> , 2008, 130, 3502-3508.	6.6	65
31	Influence of Molecular Structure and Film Properties on the Water-Stability and Sensor Characteristics of Organic Transistors. <i>Chemistry of Materials</i> , 2008, 20, 7332-7338.	3.2	64
32	Semiconductor Nanocrystal Light Absorbers for Photon Upconversion. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6198-6206.	2.1	62
33	Enhancement in open circuit voltage through a cascade-type energy band structure. <i>Applied Physics Letters</i> , 2007, 91, 223508.	1.5	60
34	Enhanced Near-Infrared-to-Visible Upconversion by Synthetic Control of PbS Nanocrystal Triplet Photosensitizers. <i>Journal of the American Chemical Society</i> , 2019, 141, 9769-9772.	6.6	50
35	Anthradithiophene-Containing Copolymers for Thin-Film Transistors and Photovoltaic Cells. <i>Macromolecules</i> , 2010, 43, 6361-6367.	2.2	49
36	Anthracene Diphosphate Ligands for CdSe Quantum Dots; Molecular Design for Efficient Upconversion. <i>Chemistry of Materials</i> , 2020, 32, 1461-1466.	3.2	46

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37	Measurement of Interlayer Screening Length of Layered Graphene by Plasmonic Nanostructure Resonances. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22211-22217.	1.5	44
38	Structure Property Relationships: Asymmetric Oligofluorene Thiophene Molecules for Organic TFTs. <i>Chemistry of Materials</i> , 2006, 18, 6250-6257.	3.2	40
39	Dynamics of Energy Transfer from CdSe Nanocrystals to Triplet States of Anthracene Ligand Molecules. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5883-5889.	1.5	39
40	Triplet transport in thin films: fundamentals and applications. <i>Chemical Communications</i> , 2017, 53, 4429-4440.	2.2	38
41	Functionalized Asymmetric Linear Acenes for High Performance Organic Semiconductors. <i>Advanced Functional Materials</i> , 2008, 18, 1579-1585.	7.8	37
42	Complementary Lock and Key Ligand Binding of a Triplet Transmitter to a Nanocrystal Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5598-5602.	7.2	37
43	Microstructure of Oligofluorene Asymmetric Derivatives in Organic Thin Film Transistors. <i>Chemistry of Materials</i> , 2008, 20, 2763-2772.	3.2	35
44	Observation of Multiple, Identical Binding Sites in the Exchange of Carboxylic Acid Ligands with CdS Nanocrystals.. <i>Nano Letters</i> , 2014, 14, 3382-3387.	4.5	35
45	Midgap States in PbS Quantum Dots Induced by Cd and Zn Enhance Photon Upconversion. <i>ACS Energy Letters</i> , 2018, 3, 767-772.	8.8	34
46	Mechanistic Understanding and Rational Design of Quantum Dot/Mediator Interfaces for Efficient Photon Upconversion. <i>Accounts of Chemical Research</i> , 2021, 54, 70-80.	7.6	34
47	ZnS Shells Enhance Triplet Energy Transfer from CdSe Nanocrystals for Photon Upconversion. <i>ACS Photonics</i> , 2018, 5, 3089-3096.	3.2	31
48	On the efficacy of anthracene isomers for triplet transmission from CdSe nanocrystals. <i>Chemical Communications</i> , 2017, 53, 1241-1244.	2.2	28
49	Evolution from Tunneling to Hopping Mediated Triplet Energy Transfer from Quantum Dots to Molecules. <i>Journal of the American Chemical Society</i> , 2020, 142, 17581-17588.	6.6	28
50	Tuning the Quantum Dot (QD)/Mediator Interface for Optimal Efficiency of QD-Sensitized Near-Infrared-to-Visible Photon Upconversion Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36558-36567.	4.0	25
51	Synthesis of regioregular pentacene-containing conjugated polymers. <i>Journal of Materials Chemistry</i> , 2011, 21, 7078.	6.7	19
52	Bidirectional triplet exciton transfer between silicon nanocrystals and perylene. <i>Chemical Science</i> , 2021, 12, 6737-6746.	3.7	19
53	On the size-dependence of CdSe nanocrystals for photon upconversion with anthracene. <i>Journal of Chemical Physics</i> , 2020, 153, 114702.	1.2	15
54	PbS/CdS Core Shell Quantum Dots Suppress Charge Transfer and Enhance Triplet Transfer. <i>Angewandte Chemie</i> , 2017, 129, 16810-16814.	1.6	11

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55	Airâ€Stable Silicon Nanocrystalâ€Based Photon Upconversion. <i>Advanced Optical Materials</i> , 2021, 9, 2100453.	3.6	11
56	2,9-Dibromopentacene: Synthesis and the role of substituent and symmetry on solid-state order. <i>Synthetic Metals</i> , 2010, 160, 2447-2451.	2.1	10
57	Complementary Lockâ€andâ€Key Ligand Binding of a Triplet Transmitter to a Nanocrystal Photosensitizer. <i>Angewandte Chemie</i> , 2017, 129, 5690-5694.	1.6	10
58	Primary amines enhance triplet energy transfer from both the band edge and trap state from CdSe nanocrystals. <i>Journal of Chemical Physics</i> , 2019, 151, 174701.	1.2	10
59	Ligand Binding to Distinct Sites on Nanocrystals Affecting Energy and Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1709-1713.	2.1	9
60	Quantifying the Ligand-Induced Triplet Energy Transfer Barrier in a Quantum Dot-Based Upconversion System. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3002-3007.	2.1	8
61	CdSe nanocrystal sensitized photon upconverting film. <i>RSC Advances</i> , 2021, 11, 31042-31046.	1.7	7
62	Surface Fluorination for Controlling the PbS Quantum Dot Bandgap and Band Offset. <i>Chemistry of Materials</i> , 2018, 30, 4943-4948.	3.2	6
63	Spin-coated fluorinated PbS QD superlattice thin film with high hole mobility. <i>Nanoscale</i> , 2020, 12, 11174-11181.	2.8	5
64	Low temperature radical initiated hydrosilylation of silicon quantum dots. <i>Faraday Discussions</i> , 2020, 222, 190-200.	1.6	3
65	Synthetic Control of Isolated, Single Functional Groups on Silica Surfaces. <i>Langmuir</i> , 2014, 30, 7098-7103.	1.6	1