Haining Tian

List of Publications by Year in Descending Order

84 papers	5,594 citations	39 h-index	74 g-index
95 ext. papers	6,124 ext. citations	9.8 avg, IF	5.74 L-index

#	Paper	IF	Citations
84	Hydroxyl-Decorated Diiron Complex as a [FeFe]-Hydrogenase Active Site Model Complex: Light-Driven Photocatalytic Activity and Heterogenization on Ethylene-Bridged Periodic Mesoporous Organosilica. *Catalysts*, **2022**, 12, 254	4	0
83	Nanotechnology for catalysis and solar energy conversion. *Nanotechnology*, **2021**, 32, 042003	3.4	24
82	In Situ Preparation and Immobilization of Semiconducting Polymer Dots on Microbeads for Efficient and Stable Photocatalytic Hydrogen Evolution. *ACS Applied Energy Materials*, **2021**, 4, 4308-4312	6.1	1
81	Ultrafast Dynamics in Cu-Deficient CuInS2 Quantum Dots: Sub-Bandgap Transitions and Self-Assembled Molecular Catalysts. *Journal of Physical Chemistry C*, **2021**, 125, 14751-14764	3.8	1
80	Panchromatic Ternary Polymer Dots Involving Sub-Picosecond Energy and Charge Transfer for Efficient and Stable Photocatalytic Hydrogen Evolution. *Journal of the American Chemical Society*, **2021**, 143, 2875-2885	16.4	31
79	From NiMoO to □NiOOH: Detecting the Active Catalyst Phase by Time Resolved and Raman Spectroscopy. *ACS Nano*, **2021**,	16.7	10
78	Catalytic systems mimicking the [FeFe]-hydrogenase active site for visible-light-driven hydrogen production. *Coordination Chemistry Reviews*, **2021**, 448, 214172	23.2	8
77	Small Organic Molecule Based on Benzothiadiazole for Electrocatalytic Hydrogen Production. *Journal of the American Chemical Society*, **2021**,	16.4	5
76	Towards sustainable and efficient p-type metal oxide semiconductor materials in dye-sensitised photocathodes for solar energy conversion. *Physical Chemistry Chemical Physics*, **2020**, 22, 13850-13861	3.6	15
75	Understanding the Performance of NiO Photocathodes with Alkyl-Derivatized Cobalt Catalysts and a Push-Pull Dye. *ACS Applied Materials & Interfaces*, **2020**, 12, 31372-31381	9.5	7
74	Carbon Dots and [FeFe] Hydrogenase Biohybrid Assemblies for Efficient Light-Driven Hydrogen Evolution. *ACS Catalysis*, **2020**, 10, 9943-9952	13.1	19
73	Revisiting the Limiting Factors for Overall Water-Splitting on Organic Photocatalysts. *Angewandte Chemie*, **2020**, 132, 16418	3.6	
72	Revisiting the Limiting Factors for Overall Water-Splitting on Organic Photocatalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 16278-16293	16.4	30
71	Using Surface Amide Couplings to Assemble Photocathodes for Solar Fuel Production Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 4501-4509	9.5	9
70	Understanding the Role of Surface States on Mesoporous NiO Films. *Journal of the American Chemical Society*, **2020**, 142, 18668-18678	16.4	11
69	Mechanistic Insights into Solid-State p-Type Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2019**, 123, 26151-26160	3.8	1
68	Hollow polymer dots: nature-mimicking architecture for efficient photocatalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 4797-4803	13	38

67	A heavy metal-free CuInS quantum dot sensitized NiO photocathode with a Re molecular catalyst for photoelectrochemical CO reduction. *Chemical Communications*, **2019**, 55, 7918-7921	5.8	12
66	An Indacenodithieno[3,2-b]thiophene-Based Organic Dye for Solid-State p-Type Dye-Sensitized Solar Cells. *ChemSusChem*, **2019**, 12, 3243-3248	8.3	8
65	Solid-state p-type dye-sensitized solar cells: progress, potential applications and challenges. *Sustainable Energy and Fuels*, **2019**, 3, 888-898	5.8	13
64	Solution-processed nanoporous NiO-dye-ZnO photocathodes: Toward efficient and stable solid-state p-type dye-sensitized solar cells and dye-sensitized photoelectrosynthesis cells. *Nano Energy*, **2019**, 55, 59-64	17.1	25
63	Unravelling in-situ formation of highly active mixed metal oxide CuInO2 nanoparticles during CO2 electroreduction. *Nano Energy*, **2018**, 49, 40-50	17.1	16
62	Hydrogen evolution by a photoelectrochemical cell based on a Cu2O-ZnO-[FeFe] hydrogenase electrode. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 366, 27-33	4.7	8
61	Solid state p-type dye sensitized NiO-dye-TiO core-shell solar cells. *Chemical Communications*, **2018**, 54, 3739-3742	5.8	20
60	Liquid Dye-Sensitized Solar Cells. *Green Chemistry and Sustainable Technology*, **2018**, 109-149	1.1	5
59	Covalently linking CuInS quantum dots with a Re catalyst by click reaction for photocatalytic CO reduction. *Dalton Transactions*, **2018**, 47, 10775-10783	4.3	19
58	Direct evidence of catalyst reduction on dye and catalyst co-sensitized NiO photocathodes by mid-infrared transient absorption spectroscopy. *Chemical Science*, **2018**, 9, 4983-4991	9.4	19
57	An experimental and theoretical study of an efficient polymer nano-photocatalyst for hydrogen evolution. *Energy and Environmental Science*, **2017**, 10, 1372-1376	35.4	138
56	Chemical and Physical Reduction of High Valence Ni States in Mesoporous NiO Film for Solar Cell Application. *ACS Applied Materials & Interfaces*, **2017**, 9, 33470-33477	9.5	49
55	Insights into the Mechanism of a Covalently Linked Organic Dye-Cobaloxime Catalyst System for Dye-Sensitized Solar Fuel Devices. *ChemSusChem*, **2017**, 10, 2480-2495	8.3	57
54	Facile electrochemical synthesis of anatase nano-architectured titanium dioxide films with reversible superhydrophilic behavior. *Journal of Industrial and Engineering Chemistry*, **2017**, 46, 203-211	6.3	11
53	In-situ evaluation of dye adsorption on TiO2using QCM. *EPJ Photovoltaics*, **2017**, 8, 80401	0.7	
52	Ultrafast dye regeneration in a core-shell NiO-dye-TiO mesoporous film. *Physical Chemistry Chemical Physics*, **2017**, 20, 36-40	3.6	15
51	Dynamics and Photochemical H2 Evolution of Dye∣NiO Photocathodes with a Biomimetic FeFe-Catalyst. *ACS Energy Letters*, **2016**, 1, 1106-1111	20.1	61
50	High conductivity Ag-based metal organic complexes as dopant-free hole-transport materials for perovskite solar cells with high fill factors. *Chemical Science*, **2016**, 7, 2633-2638	9.4	78

49	A study of oligothiophene–acceptor dyes in p-type dye-sensitized solar cells. *RSC Advances*, **2016**, 6, 18165-18177	3.7	19
48	Solid state p-type dye-sensitized solar cells: concept, experiment and mechanism. *Physical Chemistry Chemical Physics*, **2016**, 18, 5080-5	3.6	39
47	Organic Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Generation. *Angewandte Chemie - International Edition*, **2016**, 55, 12306-10	16.4	140
46	Organic Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Generation. *Angewandte Chemie*, **2016**, 128, 12494-12498	3.6	39
45	1,1,2,2-Tetrachloroethane (TeCA) as a Solvent Additive for Organic Hole Transport Materials and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1402340	21.8	53
44	Integrated Design of Organic Hole Transport Materials for Efficient Solid-State Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1401185	21.8	51
43	Molecular Catalyst Immobilized Photocathodes for Water/Proton and Carbon Dioxide Reduction. *ChemSusChem*, **2015**, 8, 3746-59	8.3	63
42	Immobilization of a cobalt catalyst on fullerene in molecular devices for water reduction. *Chemical Communications*, **2015**, 51, 11508-11	5.8	25
41	Dipicolinic acid: a strong anchoring group with tunable redox and spectral behavior for stable dye-sensitized solar cells. *Chemical Communications*, **2015**, 51, 3858-61	5.8	23
40	Enhancement of p-type dye-sensitized solar cell performance by supramolecular assembly of electron donor and acceptor. *Scientific Reports*, **2014**, 4, 4282	4.9	50
39	Solid-state perovskite-sensitized p-type mesoporous nickel oxide solar cells. *ChemSusChem*, **2014**, 7, 2150-3	8.3	66
38	Triphenylamine groups improve blocking behavior of phenoxazine dyes in cobalt-electrolyte-based dye-sensitized solar cells. *ChemPhysChem*, **2014**, 15, 3476-83	3.2	15
37	Aggregation and Electrolyte Composition Effects on the Efficiency of Dye-Sensitized Solar Cells. A Case of a Near-Infrared Absorbing Dye for Tandem Cells. *Journal of Physical Chemistry C*, **2014**, 118, 194-205	3.8	19
36	Carbazole-based hole-transport materials for efficient solid-state dye-sensitized solar cells and perovskite solar cells. *Advanced Materials*, **2014**, 26, 6629-34	24	320
35	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. *Nano*, **2014**, 09, 1440005	1.1	5
34	Convergent/Divergent Synthesis of a Linker-Varied Series of Dyes for Dye-Sensitized Solar Cells Based on the D35 Donor. *Advanced Energy Materials*, **2013**, 3, 1647-1656	21.8	88
33	Efficient solid state dye-sensitized solar cells based on an oligomer hole transport material and an organic dye. *Journal of Materials Chemistry A*, **2013**, 1, 14467	13	62
32	Initial light soaking treatment enables hole transport material to outperform spiro-OMeTAD in solid-state dye-sensitized solar cells. *Journal of the American Chemical Society*, **2013**, 135, 7378-85	16.4	126

31	Organic Photovoltaics and Dye-Sensitized Solar Cells **2013**, 567-605		1
30	Development of an organic redox couple and organic dyes for aqueous dye-sensitized solar cells. *Energy and Environmental Science*, **2012**, 5, 9752	35.4	55
29	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. *Journal of Materials Chemistry*, **2012**, 22, 16709		94
28	Tetrathiafulvalene as a one-electron iodine-free organic redox mediator in electrolytes for dye-sensitized solar cells. *RSC Advances*, **2012**, 2, 1083-1087	3.7	22
27	Type-II colloidal quantum dot sensitized solar cells with a thiourea based organic redox couple. *Journal of Materials Chemistry*, **2012**, 22, 6032		39
26	Modifying organic phenoxazine dyes for efficient dye-sensitized solar cells. *Journal of Materials Chemistry*, **2011**, 21, 12462		73
25	Highly efficient CdS quantum dot-sensitized solar cells based on a modified polysulfide electrolyte. *Journal of the American Chemical Society*, **2011**, 133, 8458-60	16.4	244
24	Organic redox couples and organic counter electrode for efficient organic dye-sensitized solar cells. *Journal of the American Chemical Society*, **2011**, 133, 9413-22	16.4	214
23	Solar cells sensitized with type-II ZnSe-CdS core/shell colloidal quantum dots. *Chemical Communications*, **2011**, 47, 1536-8	5.8	148
22	Iodine-free redox couples for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2011**, 21, 10592		129
21	A double-band tandem organic dye-sensitized solar cell with an efficiency of 11.5%. *ChemSusChem*, **2011**, 4, 609-12	8.3	33
20	Quantum rod-sensitized solar cells. *ChemSusChem*, **2011**, 4, 1741-4	8.3	8
19	Pure organic redox couple for quantum-dot-sensitized solar cells. *Chemistry - A European Journal*, **2011**, 17, 6330-3	4.8	16
18	A thiolate/disulfide ionic liquid electrolyte for organic dye-sensitized solar cells based on Pt-free counter electrodes. *Chemical Communications*, **2011**, 47, 10124-6	5.8	53
17	Wave-Function Engineering of CdSe/CdS Core/Shell Quantum Dots for Enhanced Electron Transfer to a TiO2 Substrate. *Journal of Physical Chemistry C*, **2010**, 114, 15184-15189	3.8	54
16	Influence of Triple Bonds as Spacer Units in Metal-Free Organic Dyes for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 11305-11313	3.8	123
15	Adsorption geometry, molecular interaction, and charge transfer of triphenylamine-based dye on rutile TiO2(110). *Journal of Chemical Physics*, **2010**, 133, 224704	3.9	24
14	Efficient Organic-Dye-Sensitized Solar Cells Based on an Iodine-Free Electrolyte. *Angewandte Chemie*, **2010**, 122, 7486-7489	3.6	25

13	Efficient organic-dye-sensitized solar cells based on an iodine-free electrolyte. *Angewandte Chemie - International Edition*, **2010**, 49, 7328-31	16.4	110
12	Effect of different electron donating groups on the performance of dye-sensitized solar cells. *Dyes and Pigments*, **2010**, 84, 62-68	4.6	115
11	Tuning of phenoxazine chromophores for efficient organic dye-sensitized solar cells. *Chemical Communications*, **2009**, 6288-90	5.8	144
10	Efficient near infrared D-pi-A sensitizers with lateral anchoring group for dye-sensitized solar cells. *Chemical Communications*, **2009**, 4031-3	5.8	103
9	Two novel carbazole dyes for dye-sensitized solar cells with open-circuit voltages up to 1 V based on Br(-)/Br(3)(-) electrolytes. *Organic Letters*, **2009**, 11, 5542-5	6.2	156
8	A metal-free black dye for panchromatic dye-sensitized solar cells. *Energy and Environmental Science*, **2009**, 2, 674	35.4	142
7	Effect of Different Dye Baths and Dye-Structures on the Performance of Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. *Journal of Physical Chemistry C*, **2008**, 112, 11023-11033	3.8	404
6	A Triphenylamine Dye Model for the Study of Intramolecular Energy Transfer and Charge Transfer in Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2008**, 18, 3461-3468	15.6	123
5	Photoinduced intramolecular charge-transfer state in thiophene-conjugated donoracceptor molecules. *Journal of Molecular Structure*, **2008**, 876, 102-109	3.4	68
4	Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. *Chemistry of Materials*, **2007**, 19, 4007-4015	9.6	283
3	Phenothiazine derivatives for efficient organic dye-sensitized solar cells. *Chemical Communications*, **2007**, 3741-3	5.8	408
2	Anthraquinone dyes as photosensitizers for dye-sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2007**, 91, 1863-1871	6.4	51
1	Tetrahydroquinoline dyes with different spacers for organic dye-sensitized solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 189, 295-300	4.7	162