

Haining Tian

List of Publications by Year in descending order

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citations

57631

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95
docs citations

95
times ranked

6695
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenothiazine derivatives for efficient organic dye-sensitized solar cells. <i>Chemical Communications</i> , 2007, , 3741.	2.2	446
2	Effect of Different Dye Baths and Dye-Structures on the Performance of Dye-Sensitized Solar Cells Based on Triphenylamine Dyes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11023-11033.	1.5	432
3	Carbazole-Based Hole-Transport Materials for Efficient Solid-State Dye-Sensitized Solar Cells and Perovskite Solar Cells. <i>Advanced Materials</i> , 2014, 26, 6629-6634.	11.1	369
4	Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2007, 19, 4007-4015.	3.2	302
5	Highly Efficient CdS Quantum Dot-Sensitized Solar Cells Based on a Modified Polysulfide Electrolyte. <i>Journal of the American Chemical Society</i> , 2011, 133, 8458-8460.	6.6	257
6	Organic Redox Couples and Organic Counter Electrode for Efficient Organic Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 9413-9422.	6.6	227
7	An experimental and theoretical study of an efficient polymer nano-photocatalyst for hydrogen evolution. <i>Energy and Environmental Science</i> , 2017, 10, 1372-1376.	15.6	192
8	Organic Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12306-12310.	7.2	191
9	Tetrahydroquinoline dyes with different spacers for organic dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 295-300.	2.0	170
10	Two Novel Carbazole Dyes for Dye-Sensitized Solar Cells with Open-Circuit Voltages up to 1 V Based on Br ⁺ /Br ₃ ⁺ Electrolytes. <i>Organic Letters</i> , 2009, 11, 5542-5545.	2.4	166
11	Solar cells sensitized with type-II ZnSe/CdS core/shell colloidal quantum dots. <i>Chemical Communications</i> , 2011, 47, 1536-1538.	2.2	161
12	Tuning of phenoxazine chromophores for efficient organic dye-sensitized solar cells. <i>Chemical Communications</i> , 2009, , 6288.	2.2	156
13	A metal-free "black dye" for panchromatic dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2009, 2, 674.	15.6	153
14	Initial Light Soaking Treatment Enables Hole Transport Material to Outperform Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 7378-7385.	6.6	138
15	Iodine-free redox couples for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 10592.	6.7	137
16	Influence of Triple Bonds as "Spacer Units in Metal-Free Organic Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11305-11313.	1.5	134
17	Effect of different electron donating groups on the performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2010, 84, 62-68.	2.0	132
18	A Triphenylamine Dye Model for the Study of Intramolecular Energy Transfer and Charge Transfer in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2008, 18, 3461-3468.	7.8	131

#	ARTICLE	IF	CITATIONS
19	Efficient near infrared Dye-Sensitized Solar Cells with lateral anchoring group for dye-sensitized solar cells. <i>Chemical Communications</i> , 2009, , 4031.	2.2	112
20	Efficient Organic Dye-Sensitized Solar Cells Based on an Iodine-Free Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7328-7331.	7.2	112
21	Convergent/Divergent Synthesis of a Linker-Variety Series of Dyes for Dye-Sensitized Solar Cells Based on the D35 Donor. <i>Advanced Energy Materials</i> , 2013, 3, 1647-1656.	10.2	103
22	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. <i>Journal of Materials Chemistry</i> , 2012, 22, 16709.	6.7	101
23	From NiMoO ₄ to $\hat{\Gamma}^3$ -NiOOH: Detecting the Active Catalyst Phase by Time Resolved <i>in Situ</i> and <i>Operando</i> Raman Spectroscopy. <i>ACS Nano</i> , 2021, 15, 13504-13515.	7.3	93
24	High conductivity Ag-based metal organic complexes as dopant-free hole-transport materials for perovskite solar cells with high fill factors. <i>Chemical Science</i> , 2016, 7, 2633-2638.	3.7	89
25	Panchromatic Ternary Polymer Dots Involving Sub-Picosecond Energy and Charge Transfer for Efficient and Stable Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 2875-2885.	6.6	87
26	Modifying organic phenoxazine dyes for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 12462.	6.7	79
27	Photoinduced intramolecular charge-transfer state in thiophene- π -conjugated donor-acceptor molecules. <i>Journal of Molecular Structure</i> , 2008, 876, 102-109.	1.8	72
28	Molecular Catalyst Immobilized Photocathodes for Water/Proton and Carbon Dioxide Reduction. <i>ChemSusChem</i> , 2015, 8, 3746-3759.	3.6	72
29	Revisiting the Limiting Factors for Overall Water-Splitting on Organic Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16278-16293.	7.2	72
30	Dynamics and Photochemical H ₂ Evolution of Dye-NiO Photocathodes with a Biomimetic FeFe-Catalyst. <i>ACS Energy Letters</i> , 2016, 1, 1106-1111.	8.8	70
31	Solid-State Perovskite-Sensitized p-Type Mesoporous Nickel Oxide Solar Cells. <i>ChemSusChem</i> , 2014, 7, 2150-2153.	3.6	69
32	Efficient solid state dye-sensitized solar cells based on an oligomer hole transport material and an organic dye. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14467.	5.2	67
33	Insights into the Mechanism of a Covalently Linked Organic Dye-Cobaloxime Catalyst System for Dye-Sensitized Solar Fuel Devices. <i>ChemSusChem</i> , 2017, 10, 2480-2495.	3.6	65
34	Wave-Function Engineering of CdSe/CdS Core/Shell Quantum Dots for Enhanced Electron Transfer to a TiO ₂ Substrate. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15184-15189.	1.5	60
35	Enhancement of p-Type Dye-Sensitized Solar Cell Performance by Supramolecular Assembly of Electron Donor and Acceptor. <i>Scientific Reports</i> , 2014, 4, 4282.	1.6	59
36	Integrated Design of Organic Hole Transport Materials for Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401185.	10.2	59

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37	Chemical and Physical Reduction of High Valence Ni States in Mesoporous NiO Film for Solar Cell Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33470-33477.	4.0	58
38	Anthraquinone dyes as photosensitizers for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1863-1871.	3.0	57
39	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. <i>Advanced Energy Materials</i> , 2015, 5, 1402340.	10.2	57
40	Hollow polymer dots: nature-mimicking architecture for efficient photocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4797-4803.	5.2	57
41	Development of an organic redox couple and organic dyes for aqueous dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 9752.	15.6	55
42	A thiolate/disulfide ionic liquid electrolyte for organic dye-sensitized solar cells based on Pt-free counter electrodes. <i>Chemical Communications</i> , 2011, 47, 10124.	2.2	54
43	Organic Polymer Dots as Photocatalysts for Visible Light-Driven Hydrogen Generation. <i>Angewandte Chemie</i> , 2016, 128, 12494-12498.	1.6	49
44	Solid state p-type dye-sensitized solar cells: concept, experiment and mechanism. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5080-5085.	1.3	48
45	Carbon Dots and [FeFe] Hydrogenase Biohybrid Assemblies for Efficient Light-Driven Hydrogen Evolution. <i>ACS Catalysis</i> , 2020, 10, 9943-9952.	5.5	46
46	Nanotechnology for catalysis and solar energy conversion. <i>Nanotechnology</i> , 2021, 32, 042003.	1.3	44
47	Type-II colloidal quantum dot sensitized solar cells with a thiourea based organic redox couple. <i>Journal of Materials Chemistry</i> , 2012, 22, 6032.	6.7	41
48	Catalytic systems mimicking the [FeFe]-hydrogenase active site for visible-light-driven hydrogen production. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214172.	9.5	38
49	Covalently linking CuInS ₂ quantum dots with a Re catalyst by click reaction for photocatalytic CO ₂ reduction. <i>Dalton Transactions</i> , 2018, 47, 10775-10783.	1.6	37
50	Solution-processed nanoporous NiO-dye-ZnO photocathodes: Toward efficient and stable solid-state p-type dye-sensitized solar cells and dye-sensitized photoelectrosynthesis cells. <i>Nano Energy</i> , 2019, 55, 59-64.	8.2	36
51	A Double-Band Tandem Organic Dye-Sensitized Solar Cell with an Efficiency of 11.5%. <i>ChemSusChem</i> , 2011, 4, 609-612.	3.6	33
52	Immobilization of a cobalt catalyst on fullerene in molecular devices for water reduction. <i>Chemical Communications</i> , 2015, 51, 11508-11511.	2.2	32
53	Unravelling in-situ formation of highly active mixed metal oxide CuInO ₂ nanoparticles during CO ₂ electroreduction. <i>Nano Energy</i> , 2018, 49, 40-50.	8.2	30
54	Understanding the Role of Surface States on Mesoporous NiO Films. <i>Journal of the American Chemical Society</i> , 2020, 142, 18668-18678.	6.6	30

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55	Adsorption geometry, molecular interaction, and charge transfer of triphenylamine-based dye on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2010, 133, 224704.	1.2	28
56	Towards sustainable and efficient p-type metal oxide semiconductor materials in dye-sensitized photocathodes for solar energy conversion. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13850-13861.	1.3	28
57	Dipicolinic acid: a strong anchoring group with tunable redox and spectral behavior for stable dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 3858-3861.	2.2	26
58	Small Organic Molecule Based on Benzothiadiazole for Electrocatalytic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2021, 143, 21229-21233.	6.6	25
59	Tetrathiafulvalene as a one-electron iodine-free organic redox mediator in electrolytes for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 1083-1087.	1.7	24
60	Solid state p-type dye sensitized NiO@“dye”TiO ₂ core-shell solar cells. <i>Chemical Communications</i> , 2018, 54, 3739-3742.	2.2	24
61	Aggregation and Electrolyte Composition Effects on the Efficiency of Dye-Sensitized Solar Cells. A Case of a Near-Infrared Absorbing Dye for Tandem Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 194-205.	1.5	23
62	Solid-state p-type dye-sensitized solar cells: progress, potential applications and challenges. <i>Sustainable Energy and Fuels</i> , 2019, 3, 888-898.	2.5	22
63	A study of oligothiophene-acceptor dyes in p-type dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 18165-18177.	1.7	21
64	Direct evidence of catalyst reduction on dye and catalyst co-sensitized NiO photocathodes by mid-infrared transient absorption spectroscopy. <i>Chemical Science</i> , 2018, 9, 4983-4991.	3.7	21
65	A heavy metal-free CuInS ₂ quantum dot sensitized NiO photocathode with a Re molecular catalyst for photoelectrochemical CO ₂ reduction. <i>Chemical Communications</i> , 2019, 55, 7918-7921.	2.2	21
66	Ultrafast dye regeneration in a core-shell NiO@“dye”TiO ₂ mesoporous film. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 36-40.	1.3	18
67	Triphenylamine Groups Improve Blocking Behavior of Phenoxazine Dyes in Cobalt-Electrolyte-Based Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2014, 15, 3476-3483.	1.0	17
68	Pure Organic Redox Couple for Quantum-Dot-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2011, 17, 6330-6333.	1.7	16
69	Understanding the Performance of NiO Photocathodes with Alkyl-Derivatized Cobalt Catalysts and a Push-Pull Dye. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31372-31381.	4.0	16
70	Hydrogen evolution by a photoelectrochemical cell based on a Cu ₂ O-ZnO-[FeFe] hydrogenase electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 366, 27-33.	2.0	15
71	Efficient Generation of Hydrogen Peroxide and Formate by an Organic Polymer Dots Photocatalyst in Alkaline Conditions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
72	Facile electrochemical synthesis of anatase nano-architected titanium dioxide films with reversible superhydrophilic behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 203-211.	2.9	14

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73	An Indacenodithieno[3,2-b]thiophene-Based Organic Dye for Solid-State p-Type Dye-Sensitized Solar Cells. ChemSusChem, 2019, 12, 3243-3248.	3.6	13
74	Using Surface Amide Couplings to Assemble Photocathodes for Solar Fuel Production Applications. ACS Applied Materials & Interfaces, 2020, 12, 4501-4509.	4.0	11
75	Quantum Rod-Sensitized Solar Cells. ChemSusChem, 2011, 4, 1741-1744.	3.6	10
76	Revisiting the Limiting Factors for Overall Water-Splitting on Organic Photocatalysts. Angewandte Chemie, 2020, 132, 16418-16433.	1.6	9
77	Ultrafast Dynamics in Cu-Deficient CuInS ₂ Quantum Dots: Sub-Bandgap Transitions and Self-Assembled Molecular Catalysts. Journal of Physical Chemistry C, 2021, 125, 14751-14764.	1.5	9
78	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. Nano, 2014, 09, 1440005.	0.5	7
79	Liquid Dye-Sensitized Solar Cells. Green Chemistry and Sustainable Technology, 2018, , 109-149.	0.4	5
80	Efficient Generation of Hydrogen Peroxide and Formate by an Organic Polymer Dots Photocatalyst in Alkaline Conditions. Angewandte Chemie, 2022, 134, .	1.6	5
81	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.	1.6	4
82	Mechanistic Insights into Solid-State p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2019, 123, 26151-26160.	1.5	3
83	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.	2.5	3
84	Organic Photovoltaics and Dye-Sensitized Solar Cells. , 2013, , 567-605.		2
85	Preparation of polymer nano-photocatalysts by using triton X-100 to improve performance of photocatalytic hydrogen generation. Advanced Materials Letters, 2018, 9, 326-330.	0.3	1
86	Dye-Sensitized Solar Cells: 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 (Adv.) Tj ETQq0 0 0 rgt /Overclock 10 Tf		
87	In-situ evaluation of dye adsorption on TiO ₂ using QCM. EPJ Photovoltaics, 2017, 8, 80401.	0.8	0