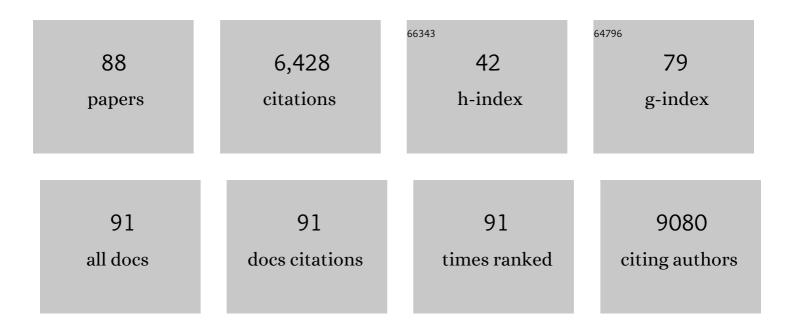
Fang-Xing Xiao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Polymerâ€Mediated Electron Tunneling Towards Solar Water Oxidation. Advanced Functional Materials, 2022, 32, 2106338.	14.9	29
2	Fine tuning of charge motion over homogeneous transient metal chalcogenides heterostructured photoanodes for photoelectrochemical water splitting. Chemical Engineering Journal, 2022, 433, 133641.	12.7	13
3	Unleashing non-conjugated polymers as charge relay mediators. Chemical Science, 2022, 13, 497-509.	7.4	17
4	Ultrathin carbon interim layer encapsulation for constructing pÂâ^'Ân heterojunction photoanode towards photoelectrochemical water splitting. Catalysis Communications, 2022, 162, 106399.	3.3	7
5	Tuning atomically precise metal nanocluster mediated photoelectrocatalysis <i>via</i> a non-conjugated polymer. Journal of Materials Chemistry A, 2022, 10, 4032-4042.	10.3	39
6	Stabilizing atomically precise metal nanoclusters as simultaneous charge relay mediators and photosensitizers. Journal of Materials Chemistry A, 2022, 10, 7006-7012.	10.3	29
7	Atomically Precise Metal Nanocluster-Mediated Photocatalysis. ACS Catalysis, 2022, 12, 4216-4226.	11.2	29
8	Precisely Modulating the Photosensitization Efficiency of Transition-Metal Chalcogenide Quantum Dots toward Solar Water Oxidation. Inorganic Chemistry, 2022, 61, 1188-1194.	4.0	5
9	Precise interface modulation cascade enables unidirectional charge transport. Journal of Catalysis, 2022, 410, 31-41.	6.2	2
10	Unleashing Insulating Polymer as Charge Transport Cascade Mediator. Advanced Functional Materials, 2022, 32, .	14.9	30
11	An Overview of Solar-Driven Photoelectrochemical CO ₂ Conversion to Chemical Fuels. ACS Catalysis, 2022, 12, 9023-9057.	11.2	51
12	Intercalating ultrathin polymer interim layer for charge transfer cascade towards solar-powered selective organic transformation. Journal of Catalysis, 2021, 399, 150-161.	6.2	6
13	Electron tunneling through interim ligand layers towards photoredox selective organic transformation. Journal of Catalysis, 2021, 400, 28-39.	6.2	8
14	MXene-motivated accelerated charge transfer over TMCs quantum dots for solar-powered photoreduction catalysis. Journal of Catalysis, 2021, 404, 56-66.	6.2	18
15	Solar-Powered Photocatalysis and Photoelectrocatalysis over Atomically Precise Metal Nanoclusters. Journal of Physical Chemistry C, 2021, 125, 22421-22428.	3.1	15
16	Charge Transport Surmounting Hierarchical Ligand Confinement toward Multifarious Photoredox Catalysis. Inorganic Chemistry, 2020, 59, 1364-1375.	4.0	11
17	Precise Tuning of Coordination Positions for Transition-Metal Ions via Layer-by-Layer Assembly To Enhance Solar Hydrogen Production. ACS Applied Materials & Interfaces, 2020, 12, 4373-4384.	8.0	44
18	Branched polymer-incorporated multi-layered heterostructured photoanode: precisely tuning directional charge transfer toward solar water oxidation. Journal of Materials Chemistry A, 2020, 8, 177-189.	10.3	65

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19	Maneuvering Intrinsic Instability of Metal Nanoclusters for Boosted Solar-Powered Hydrogen Production. Journal of Physical Chemistry Letters, 2020, 11, 9138-9143.	4.6	38
20	Unlocking photoredox selective organic transformation over metal-free 2D transition metal chalcogenides-MXene heterostructures. Journal of Catalysis, 2020, 391, 485-496.	6.2	30
21	All-in-one: branched macromolecule-protected metal nanocrystals as integrated charge separation/motion centers for enhanced photocatalytic selective organic transformations. Journal of Materials Chemistry A, 2020, 8, 16392-16404.	10.3	41
22	Confinement of Quantum Dots in between Monolayered Graphene Nanosheets for Arousing Boosted Multifarious Photoredox Selective Organic Transformation. Inorganic Chemistry, 2020, 59, 16654-16664.	4.0	4
23	Selective organic transformation over a self-assembled all-solid-state Z-scheme core–shell photoredox system. Journal of Materials Chemistry A, 2020, 8, 20151-20161.	10.3	29
24	Unexpected Boosted Solar Water Oxidation by Nonconjugated Polymer-Mediated Tandem Charge Transfer. Journal of the American Chemical Society, 2020, 142, 21899-21912.	13.7	59
25	Layer-by-Layer Self-Assembly of Metal/Metal Oxide Superstructures: Self-Etching Enables Boosted Photoredox Catalysis. Inorganic Chemistry, 2020, 59, 4129-4139.	4.0	12
26	Modulating charge migration in photoredox organic transformation <i>via</i> exquisite interface engineering. Journal of Materials Chemistry A, 2020, 8, 8360-8375.	10.3	31
27	Partially Self-Transformed Transition-Metal Chalcogenide Interim Layer: Motivating Charge Transport Cascade for Solar Hydrogen Evolution. Inorganic Chemistry, 2020, 59, 2562-2574.	4.0	24
28	Probing the Advantageous Photosensitization Effect of Metal Nanoclusters over Plasmonic Metal Nanocrystals in Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2020, 124, 4989-4998.	3.1	40
29	General Layer-by-Layer Assembly of Multilayered Photoanodes: Triggering Tandem Charge Transport toward Photoelectrochemical Water Oxidation. Inorganic Chemistry, 2020, 59, 7325-7334.	4.0	18
30	Self-transformation of ultra-small gold nanoclusters to gold nanocrystals toward boosted photoreduction catalysis. Chemical Communications, 2019, 55, 10591-10594.	4.1	28
31	Self-assembly of graphene-encapsulated antimony sulfide nanocomposites for photoredox catalysis: boosting charge transfer <i>via</i> interface configuration modulation. New Journal of Chemistry, 2019, 43, 13837-13849.	2.8	6
32	General self-assembly of metal/metal chalcogenide heterostructures initiated by a surface linker: modulating tunable charge flow toward versatile photoredox catalysis. Journal of Materials Chemistry A, 2019, 7, 21182-21194.	10.3	40
33	Modulating Unidirectional Charge Transfer via in Situ Etching-Accompanied Layer-By-Layer Self-Assembly toward Multifarious Photoredox Catalysis. Journal of Physical Chemistry C, 2019, 123, 28066-28080.	3.1	14
34	Charge transfer modulation in layer-by-layer-assembled multilayered photoanodes for solar water oxidation. Journal of Materials Chemistry A, 2019, 7, 22487-22499.	10.3	39
35	Nanoporous 2D semiconductors encapsulated by quantum-sized graphitic carbon nitride: tuning directional photoinduced charge transfer <i>via</i> nano-architecture modulation. Catalysis Science and Technology, 2019, 9, 672-687.	4.1	19
36	Regulating spatial charge transfer over intrinsically ultrathin-carbon-encapsulated photoanodes toward solar water splitting. Journal of Materials Chemistry A, 2019, 7, 2741-2753.	10.3	96

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37	Electrochemically anodized one-dimensional semiconductors: a fruitful platform for solar energy conversion. JPhys Energy, 2019, 1, 022002.	5.3	20
38	Stimulating Charge Transfer Over Quantum Dots via Ligand-Triggered Layer-by-Layer Assembly toward Multifarious Photoredox Organic Transformation. Journal of Physical Chemistry C, 2019, 123, 9721-9734.	3.1	41
39	Cascade charge transfer mediated by <i>in situ</i> interface modulation toward solar hydrogen production. Journal of Materials Chemistry A, 2019, 7, 8938-8951.	10.3	57
40	Ligand-Triggered Tunable Charge Transfer toward Multifarious Photoreduction Catalysis. Journal of Physical Chemistry C, 2019, 123, 4701-4714.	3.1	41
41	Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. Small Methods, 2018, 2, 1800001.	8.6	70
42	Plasmonâ€Dictated Photoâ€Electrochemical Water Splitting for Solarâ€toâ€Chemical Energy Conversion: Current Status and Future Perspectives. Advanced Materials Interfaces, 2018, 5, 1701098.	3.7	92
43	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. Journal of Materials Chemistry A, 2018, 6, 1700-1713.	10.3	99
44	Graphene quantum dots (GQDs) and its derivatives for multifarious photocatalysis and photocetalysis. Catalysis Today, 2018, 315, 171-183.	4.4	135
45	Plasmon-induced photoelectrochemical water oxidation enabled by <i>in situ</i> layer-by-layer construction of cascade charge transfer channel in multilayered photoanode. Journal of Materials Chemistry A, 2018, 6, 24686-24692.	10.3	62
46	Insight into the charge transport correlation in Au _x clusters and graphene quantum dots deposited on TiO ₂ nanotubes for photoelectrochemical oxygen evolution. Journal of Materials Chemistry A, 2018, 6, 11154-11162.	10.3	89
47	Boosting Charge-Transfer Efficiency by Simultaneously Tuning Double Effects of Metal Nanocrystal in Z-Scheme Photocatalytic Redox System. Journal of Physical Chemistry C, 2018, 122, 12291-12306.	3.1	28
48	Mesoporous implantable Pt/SrTiO3:C,N nanocuboids delivering enhanced photocatalytic H2-production activity via plasmon-induced interfacial electron transfer. Applied Catalysis B: Environmental, 2018, 236, 338-347.	20.2	35
49	Modulation of interfacial charge transfer by self-assembly of single-layer graphene enwrapped one-dimensional semiconductors toward photoredox catalysis. Journal of Materials Chemistry A, 2017, 5, 23681-23693.	10.3	72
50	In situ etching-induced self-assembly of metal cluster decorated one-dimensional semiconductors for solar-powered water splitting: unraveling cooperative synergy by photoelectrochemical investigations. Nanoscale, 2017, 9, 17118-17132.	5.6	88
51	Self-assembly of metal/semiconductor heterostructures via ligand engineering: unravelling the synergistic dual roles of metal nanocrystals toward plasmonic photoredox catalysis. Nanoscale, 2017, 9, 16922-16936.	5.6	50
52	Elegant Z-scheme-dictated g-C ₃ N ₄ enwrapped WO ₃ superstructures: a multifarious platform for versatile photoredox catalysis. Journal of Materials Chemistry A, 2017, 5, 15601-15612.	10.3	83
53	An ambipolar azaacene as a stable photocathode for metal-free light-driven water reduction. Materials Chemistry Frontiers, 2017, 1, 495-498.	5.9	33
54	Revisiting one-dimensional TiO2 based hybrid heterostructures for heterogeneous photocatalysis: a critical review. Materials Chemistry Frontiers, 2017, 1, 231-250.	5.9	67

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55	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. Journal of Materials Chemistry A, 2016, 4, 16383-16393.	10.3	59
56	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. Scientific Reports, 2016, 6, 20142.	3.3	136
57	Ligand-triggered electrostatic self-assembly of CdS nanosheet/Au nanocrystal nanocomposites for versatile photocatalytic redox applications. Nanoscale, 2016, 8, 19161-19173.	5.6	24
58	lridium Oxideâ€Assisted Plasmonâ€Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers. Advanced Energy Materials, 2016, 6, 1501339.	19.5	111
59	Nanostructures: Iridium Oxideâ€Assisted Plasmonâ€Induced Hot Carriers: Improvement on Kinetics and Thermodynamics of Hot Carriers (Adv. Energy Mater. 8/2016). Advanced Energy Materials, 2016, 6, .	19.5	0
60	Linker-assisted assembly of 1D TiO2 nanobelts/3D CdS nanospheres hybrid heterostructure as efficient visible light photocatalyst. Applied Catalysis A: General, 2016, 521, 50-56.	4.3	23
61	Metal–Organic Frameworks as Promising Photosensitizers for Photoelectrochemical Water Splitting. Advanced Science, 2016, 3, 1500243.	11.2	100
62	Layer-by-layer assembly of versatile nanoarchitectures with diverse dimensionality: a new perspective for rational construction of multilayer assemblies. Chemical Society Reviews, 2016, 45, 3088-3121.	38.1	294
63	1D TiO2 Nanotube-Based Photocatalysts. Green Chemistry and Sustainable Technology, 2016, , 151-173.	0.7	1
64	Doping-induced structural evolution from rutile to anatase: formation of Nb-doped anatase TiO ₂ nanosheets with high photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 6926-6932.	10.3	36
65	Light-Induced In Situ Transformation of Metal Clusters to Metal Nanocrystals for Photocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 28105-28109.	8.0	59
66	Oneâ€Dimensional Hybrid Nanostructures for Heterogeneous Photocatalysis and Photoelectrocatalysis. Small, 2015, 11, 2115-2131.	10.0	213
67	Enhancement of photocatalytic properties of TiO2 nanoparticles doped with CeO2 and supported on SiO2 for phenol degradation. Applied Surface Science, 2015, 331, 17-26.	6.1	82
68	TiO2 Nanotubes: Metal-Cluster-Decorated TiO2 Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications (Small 5/2015). Small, 2015, 11, 553-553.	10.0	5
69	Carbon nanotube catalysts: recent advances in synthesis, characterization and applications. Chemical Society Reviews, 2015, 44, 3295-3346.	38.1	586
70	Bridging the Gap: Electron Relay and Plasmonic Sensitization of Metal Nanocrystals for Metal Clusters. Journal of the American Chemical Society, 2015, 137, 10735-10744.	13.7	141
71	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. Science Advances, 2015, 1, e1500259.	10.3	427
72	Assembly of a CdS quantum dot–TiO ₂ nanobelt heterostructure for photocatalytic application: towards an efficient visible light photocatalyst via facile surface charge tuning. New Journal of Chemistry, 2015, 39, 279-286.	2.8	28

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73	Metal lusterâ€Decorated TiO ₂ Nanotube Arrays: A Composite Heterostructure toward Versatile Photocatalytic and Photoelectrochemical Applications. Small, 2015, 11, 554-567.	10.0	237
74	Hierarchical αâ€MnO ₂ Nanowires@Ni _{1â€x} Mn _x O _y Nanoflakes Core–Shell Nanostructures for Supercapacitors. Small, 2014, 10, 3181-3186.	10.0	118
75	Layer-by-Layer Self-Assembly of CdS Quantum Dots/Graphene Nanosheets Hybrid Films for Photoelectrochemical and Photocatalytic Applications. Journal of the American Chemical Society, 2014, 136, 1559-1569.	13.7	413
76	Self-assembly of aligned rutile@anatase TiO ₂ nanorod@CdS quantum dots ternary core–shell heterostructure: cascade electron transfer by interfacial design. Materials Horizons, 2014, 1, 259-263.	12.2	69
77	Self-assembly of a Ag nanoparticle-modified and graphene-wrapped TiO ₂ nanobelt ternary heterostructure: surface charge tuning toward efficient photocatalysis. Nanoscale, 2014, 6, 11293-11302.	5.6	64
78	Electrochemical construction of hierarchically ordered CdSe-sensitized TiO ₂ nanotube arrays: towards versatile photoelectrochemical water splitting and photoredox applications. Nanoscale, 2014, 6, 6727-6737.	5.6	85
79	Spatially branched hierarchical ZnO nanorod-TiO ₂ nanotube array heterostructures for versatile photocatalytic and photoelectrocatalytic applications: towards intimate integration of 1D–1D hybrid nanostructures. Nanoscale, 2014, 6, 14950-14961.	5.6	101
80	Revisiting the construction of graphene–CdS nanocomposites as efficient visible-light-driven photocatalysts for selective organic transformation. Journal of Materials Chemistry A, 2014, 2, 5330-5339.	10.3	59
81	Self-assembly of hierarchically ordered CdS quantum dots–TiO2 nanotube array heterostructures as efficient visible light photocatalysts for photoredox applications. Journal of Materials Chemistry A, 2013, 1, 12229.	10.3	89
82	Cleavage Enhancement of Specific Chemical Bonds in DNA by Cisplatin Radiosensitization. Journal of Physical Chemistry B, 2013, 117, 4893-4900.	2.6	34
83	Layer-by-Layer Self-Assembly Construction of Highly Ordered Metal-TiO ₂ Nanotube Arrays Heterostructures (M/TNTs, M = Au, Ag, Pt) with Tunable Catalytic Activities. Journal of Physical Chemistry C, 2012, 116, 16487-16498.	3.1	135
84	Construction of Highly Ordered ZnO–TiO ₂ Nanotube Arrays (ZnO/TNTs) Heterostructure for Photocatalytic Application. ACS Applied Materials & Interfaces, 2012, 4, 7055-7063.	8.0	294
85	Self-assembly preparation of gold nanoparticles-TiO2 nanotube arrays binary hybrid nanocomposites for photocatalytic applications. Journal of Materials Chemistry, 2012, 22, 7819.	6.7	85
86	A novel route for self-assembly of gold nanoparticle–TiO2 nanotube array (Au/TNTs) heterostructure for versatile catalytic applications: pinpoint position via hierarchically dendritic ligand. RSC Advances, 2012, 2, 12699.	3.6	10
87	A green and facile self-assembly preparation of gold nanoparticles/ZnO nanocomposite for photocatalytic and photoelectrochemical applications. Journal of Materials Chemistry, 2012, 22, 2868.	6.7	90
88	On the role of low-energy electrons in the radiosensitization of DNA by gold nanoparticles. Nanotechnology, 2011, 22, 465101.	2.6	69