

# Tarek A Kandiel

## List of Publications by Year in descending order

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38  
papers

2,326  
citations

279798

23  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3602  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailored Titanium Dioxide Nanomaterials: Anatase Nanoparticles and Brookite Nanorods as Highly Active Photocatalysts. <i>Chemistry of Materials</i> , 2010, 22, 2050-2060.	6.7	394
2	Brookite versus anatase TiO <sub>2</sub> photocatalysts: phase transformations and photocatalytic activities. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 602-609.	2.9	188
3	Photocatalytic Activities of Different Well-defined Single Crystal TiO <sub>2</sub> Surfaces: Anatase versus Rutile. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2461-2465.	4.6	164
4	A Facile Surface Passivation of Hematite Photoanodes with TiO <sub>2</sub> Overlayers for Efficient Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24053-24062.	8.0	164
5	Enhanced Photoelectrochemical Water Oxidation on Nanostructured Hematite Photoanodes via p-CaFe <sub>2</sub> O <sub>4</sub> /n-Fe <sub>2</sub> O <sub>3</sub> Heterojunction Formation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5864-5871.	3.1	130
6	Bi <sub>2</sub> WO <sub>6</sub> Inverse Opals: Facile Fabrication and Efficient Visible-Light-Driven Photocatalytic and Photoelectrochemical Water-Splitting Activity. <i>Small</i> , 2011, 7, 2714-2720.	10.0	119
7	Photonic efficiency and mechanism of photocatalytic molecular hydrogen production over platinized titanium dioxide from aqueous methanol solutions. <i>Catalysis Today</i> , 2011, 161, 196-201.	4.4	115
8	Long-term investigation of the photocatalytic hydrogen production on platinized TiO <sub>2</sub> : an isotopic study. <i>Energy and Environmental Science</i> , 2014, 7, 1420.	30.8	102
9	Direct Synthesis of Photocatalytically Active Rutile TiO <sub>2</sub> Nanorods Partly Decorated with Anatase Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4909-4915.	3.1	93
10	Enhanced photocatalytic production of molecular hydrogen on TiO <sub>2</sub> modified with Pt-polypyrrole nanocomposites. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 683-690.	2.9	88
11	Mesoporous TiO <sub>2</sub> nanostructures: a route to minimize Pt loading on titania photocatalysts for hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20155.	2.8	81
12	Novel (and better?) titania-based photocatalysts: Brookite nanorods and mesoporous structures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 216, 183-193.	3.9	78
13	Solvent-free hydrothermal synthesis of anatase TiO <sub>2</sub> nanoparticles with enhanced photocatalytic hydrogen production activity. <i>Applied Catalysis A: General</i> , 2013, 466, 32-37.	4.3	62
14	Structure-Activity Relationships of Hierarchical Three-Dimensional Electrodes with Photosystem II for Semiartificial Photosynthesis. <i>Nano Letters</i> , 2019, 19, 1844-1850.	9.1	61
15	Photocatalytic and photoelectrochemical oxidation mechanisms of methanol on TiO <sub>2</sub> in aqueous solution. <i>Applied Surface Science</i> , 2014, 319, 44-49.	6.1	47
16	Mechanisms of Photocatalytic Molecular Hydrogen and Molecular Oxygen Evolution over La-Doped NaTaO <sub>3</sub> Particles: Effect of Different Cocatalysts and Their Specific Activity. <i>ACS Catalysis</i> , 2018, 8, 2313-2325.	11.2	46
17	Iron-incorporated NiS/Ni(OH) <sub>2</sub> composite as an efficient electrocatalyst for hydrogen evolution reaction from water in a neutral medium. <i>Applied Catalysis A: General</i> , 2019, 586, 117226.	4.3	39
18	Enhancing the photocatalytic activity of TiO <sub>2</sub> by pH control: a case study for the degradation of EDTA. <i>Catalysis Science and Technology</i> , 2013, 3, 3216.	4.1	37

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19	Electronic structure and photocatalytic activity of wurtzite Cu <sup>2+</sup> Ga <sup>3+</sup> S nanocrystals and their Zn substitution. Journal of Materials Chemistry A, 2015, 3, 8896-8904.	10.3	33
20	Hematite photoanodes with size-controlled nanoparticles for enhanced photoelectrochemical water oxidation. Applied Catalysis B: Environmental, 2018, 236, 117-124.	20.2	33
21	Visible Light-Driven Photoelectrocatalytic Water Splitting Using Z-Scheme Ag-Decorated MoS <sub>2</sub> /RGO/NiWO <sub>4</sub> Heterostructure. ACS Omega, 2020, 5, 31644-31656.	3.5	29
22	Photocatalytic hydrogen production from biomass-derived compounds: a case study of citric acid. Environmental Technology (United Kingdom), 2016, 37, 2687-2693.	2.2	26
23	Solvent-induced deposition of Cu <sup>2+</sup> Ga <sup>3+</sup> In <sup>3+</sup> S nanocrystals onto a titanium dioxide surface for visible-light-driven photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2016, 184, 264-269.	20.2	26
24	Modification of Hematite Photoanode with Cobalt Based Oxygen Evolution Catalyst via Bifunctional Linker Approach for Efficient Water Splitting. Journal of Physical Chemistry C, 2016, 120, 23415-23420.	3.1	20
25	TiO <sub>2</sub> (B)/anatase heterostructure nanofibers decorated with anatase nanoparticles as efficient photocatalysts for methanol oxidation. Journal of Molecular Catalysis A, 2016, 425, 55-60.	4.8	18
26	New application for TiO <sub>2</sub> P25 photocatalyst: A case study of photoelectrochemical sensing of nitrite ions. Chemosphere, 2021, 268, 128847.	8.2	18
27	Nano-Sized Quaternary CuGa <sub>2</sub> In <sub>3</sub> S <sub>8</sub> as an Efficient Photocatalyst for Solar Hydrogen Production. ChemSusChem, 2014, 7, 3112-3121.	6.8	17
28	Physical Insights into Band Bending in Pristine and Co-Pi-Modified BiVO <sub>4</sub> Photoanodes with Dramatically Enhanced Solar Water Splitting Efficiency. Journal of Physical Chemistry Letters, 2020, 11, 5015-5020.	4.6	16
29	Mechanistic Investigations of Photoelectrochemical Water and Methanol Oxidation on Well-Defined TiO <sub>2</sub> Anatase (101) and Rutile (110) Surfaces. ACS Applied Energy Materials, 2019, 2, 5308-5318.	5.1	15
30	Specificity and Synergy at the Oil-Brine Interface: New Insights from Experiments and Molecular Dynamics Simulations. Energy & Fuels, 2021, 35, 14647-14657.	5.1	15
31	Boosting the efficiency of water oxidation <i>via</i> surface states on hematite photoanodes by incorporating Bi <sup>3+</sup> ions. Sustainable Energy and Fuels, 2020, 4, 4207-4218.	4.9	10
32	TiO <sub>2</sub> Nanotubes Supported PtO <sub>x</sub> Nanoclusters with Enhanced Mass Activity for Electrocatalytic Hydrogen Evolution. ChemCatChem, 2020, 12, 5411-5419.	3.7	9
33	Titanium Dioxide Nanoparticles and Nanostructures. Current Inorganic Chemistry, 2012, 2, 94-114.	0.2	9
34	Mechanistic investigation of water oxidation on hematite photoanodes using intensity-modulated photocurrent spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 403, 112825.	3.9	8
35	Synergy between in-situ immobilized MoS <sub>2</sub> nanosheets and TiO <sub>2</sub> nanotubes for efficient electrocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 2366-2377.	7.1	8
36	Visible light driven hydrogen evolution with a noble metal free CuGa <sub>2</sub> In <sub>3</sub> S <sub>8</sub> nanoparticle system in water. Catalysis Science and Technology, 2016, 6, 6536-6541.	4.1	5

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37	Solar Photocatalytic Hydrogen Production: Current Status and Future Challenges. Nanostructure Science and Technology, 2014, , 41-74.	0.1	3
38	Photocatalytic evolution of molecular hydrogen and oxygen over La-doped NaTaO <sub>3</sub> particles: Effect of different cocatalysts (Presentation Recording). , 2015, , .		0