Tarek A Kandiel

List of Publications by Citations

37 papers	1,906 citations	21 h-index	39 g-index
39 ext. papers	2,119 ext. citations	7.8 avg, IF	5.16 L-index

#	Paper	IF	Citations
37	Tailored Titanium Dioxide Nanomaterials: Anatase Nanoparticles and Brookite Nanorods as Highly Active Photocatalysts. *Chemistry of Materials*, **2010**, 22, 2050-2060	9.6	347
36	Brookite versus anatase TiO2 photocatalysts: phase transformations and photocatalytic activities. *Photochemical and Photobiological Sciences*, **2013**, 12, 602-9	4.2	141
35	Photocatalytic Activities of Different Well-defined Single Crystal TiO2 Surfaces: Anatase versus Rutile. *Journal of Physical Chemistry Letters*, **2011**, 2, 2461-2465	6.4	140
34	A Facile Surface Passivation of Hematite Photoanodes with TiO2 Overlayers for Efficient Solar Water Splitting. *ACS Applied Materials & Interfaces*, **2015**, 7, 24053-62	9.5	130
33	Enhanced Photoelectrochemical Water Oxidation on Nanostructured Hematite Photoanodes via p-CaFe2O4/n-Fe2O3 Heterojunction Formation. *Journal of Physical Chemistry C*, **2015**, 119, 5864-5871	3.8	107
32	Bi(2) WO(6) inverse opals: facile fabrication and efficient visible-light-driven photocatalytic and photoelectrochemical water-splitting activity. *Small*, **2011**, 7, 2714-20	11	107
31	Photonic efficiency and mechanism of photocatalytic molecular hydrogen production over platinized titanium dioxide from aqueous methanol solutions. *Catalysis Today*, **2011**, 161, 196-201	5.3	104
30	Direct Synthesis of Photocatalytically Active Rutile TiO2 Nanorods Partly Decorated with Anatase Nanoparticles. *Journal of Physical Chemistry C*, **2010**, 114, 4909-4915	3.8	88
29	Long-term investigation of the photocatalytic hydrogen production on platinized TiO2: an isotopic study. *Energy and Environmental Science*, **2014**, 7, 1420	35.4	87
28	Enhanced photocatalytic production of molecular hydrogen on TiO(2) modified with Pt-polypyrrole nanocomposites. *Photochemical and Photobiological Sciences*, **2009**, 8, 683-90	4.2	78
27	Mesoporous TiO2 nanostructures: a route to minimize Pt loading on titania photocatalysts for hydrogen production. *Physical Chemistry Chemical Physics*, **2011**, 13, 20155-61	3.6	75
26	Novel (and better?) titania-based photocatalysts: Brookite nanorods and mesoporous structures. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 216, 183-193	4.7	68
25	Solvent-free hydrothermal synthesis of anatase TiO2 nanoparticles with enhanced photocatalytic hydrogen production activity. *Applied Catalysis A: General*, **2013**, 466, 32-37	5.1	49
24	Structure-Activity Relationships of Hierarchical Three-Dimensional Electrodes with Photosystem II for Semiartificial Photosynthesis. *Nano Letters*, **2019**, 19, 1844-1850	11.5	41
23	Photocatalytic and photoelectrochemical oxidation mechanisms of methanol on TiO2 in aqueous solution. *Applied Surface Science*, **2014**, 319, 44-49	6.7	38
22	Mechanisms of Photocatalytic Molecular Hydrogen and Molecular Oxygen Evolution over La-Doped NaTaO3 Particles: Effect of Different Cocatalysts and Their Specific Activity. *ACS Catalysis*, **2018**, 8, 2313-2325	13.1	35
21	Enhancing the photocatalytic activity of TiO2 by pH control: a case study for the degradation of EDTA. *Catalysis Science and Technology*, **2013**, 3, 3216	5.5	33

20	Electronic structure and photocatalytic activity of wurtzite CuGaS nanocrystals and their Zn substitution. *Journal of Materials Chemistry A*, **2015**, 3, 8896-8904	13	32
19	Hematite photoanodes with size-controlled nanoparticles for enhanced photoelectrochemical water oxidation. *Applied Catalysis B: Environmental*, **2018**, 236, 117-124	21.8	26
18	Solvent-induced deposition of CuGaInS nanocrystals onto a titanium dioxide surface for visible-light-driven photocatalytic hydrogen production. *Applied Catalysis B: Environmental*, **2016**, 184, 264-269	21.8	24
17	Photocatalytic hydrogen production from biomass-derived compounds: a case study of citric acid. *Environmental Technology (United Kingdom)*, **2016**, 37, 2687-93	2.6	22
16	Iron-incorporated NiS/Ni(OH)2 composite as an efficient electrocatalyst for hydrogen evolution reaction from water in a neutral medium. *Applied Catalysis A: General*, **2019**, 586, 117226	5.1	19
15	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	3.8	17
14	Nano-sized quaternary CuGa2In3S8 as an efficient photocatalyst for solar hydrogen production. *ChemSusChem*, **2014**, 7, 3112-21	8.3	16
13	TiO2(B)/anatase heterostructure nanofibers decorated with anatase nanoparticles as efficient photocatalysts for methanol oxidation. *Journal of Molecular Catalysis A*, **2016**, 425, 55-60		15
12	Visible Light-Driven Photoelectrocatalytic Water Splitting Using Z-Scheme Ag-Decorated MoS/RGO/NiWO Heterostructure. *ACS Omega*, **2020**, 5, 31644-31656	3.9	9
11	Physical Insights into Band Bending in Pristine and Co-Pi-Modified BiVO Photoanodes with Dramatically Enhanced Solar Water Splitting Efficiency. *Journal of Physical Chemistry Letters*, **2020**, 11, 5015-5020	6.4	9
10	Mechanistic Investigations of Photoelectrochemical Water and Methanol Oxidation on Well-Defined TiO2 Anatase (101) and Rutile (110) Surfaces. *ACS Applied Energy Materials*, **2019**, 2, 5308-5318	6.1	9
9	Titanium Dioxide Nanoparticles and Nanostructures. *Current Inorganic Chemistry*, **2012**, 2, 94-114		9
8	New application for TiO P25 photocatalyst: A case study of photoelectrochemical sensing of nitrite ions. *Chemosphere*, **2021**, 268, 128847	8.4	9
7	Mechanistic investigation of water oxidation on hematite photoanodes using intensity-modulated photocurrent spectroscopy. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 403, 112825	4.7	5
6	Visible light driven hydrogen evolution with a noble metal free CuGa2In3S8 nanoparticle system in water. *Catalysis Science and Technology*, **2016**, 6, 6536-6541	5.5	5
5	Specificity and Synergy at the Oil–Brine Interface: New Insights from Experiments and Molecular Dynamics Simulations. *Energy & Fuels*, **2021**, 35, 14647-14657	4.1	5
4	Solar Photocatalytic Hydrogen Production: Current Status and Future Challenges. *Nanostructure Science and Technology*, **2014**, 41-74	0.9	3
3	Boosting the efficiency of water oxidation via surface states on hematite photoanodes by incorporating Bi3+ ions. *Sustainable Energy and Fuels*, **2020**, 4, 4207-4218	5.8	2

2	TiO2 Nanotubes Supported PtOx Nanoclusters with Enhanced Mass Activity for Electrocatalytic Hydrogen Evolution. *ChemCatChem*, **2020**, 12, 5411-5419	5.2	2
1	Synergy between in-situ immobilized MoS2 nanosheets and TiO2 nanotubes for efficient electrocatalytic hydrogen evolution. *International Journal of Hydrogen Energy*, **2021**, 47, 2366-2366	6.7	0