

# Hen Dotan

## List of Publications by Year in descending order

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31  
papers

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citations

331259

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395343

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docs citations

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times ranked

5401  
citing authors

#	ARTICLE	IF	CITATIONS
1	External Quantum Efficiency Spectra of BiVO <sub>4</sub> Thin Film Photoanodes under Bias Illumination. Journal of the Electrochemical Society, 2022, 169, 046513.	1.3	1
2	High Performance Core/Shell Ni/Ni(OH) <sub>2</sub> Electrospun Nanofiber Anodes for Decoupled Water Splitting. Advanced Functional Materials, 2021, 31, 2008118.	7.8	32
3	Extraction of mobile charge carrier photogeneration yield spectrum of ultrathin-film metal oxide photoanodes for solar water splitting. Nature Materials, 2021, 20, 833-840.	13.3	32
4	Effect of Doping and Excitation Wavelength on Charge Carrier Dynamics in Hematite by Time-Resolved Microwave and Terahertz Photoconductivity. Advanced Functional Materials, 2020, 30, 1901590.	7.8	25
5	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. Joule, 2020, 4, 448-471.	11.7	91
6	Decoupled hydrogen and oxygen evolution by a two-step electrochemical-chemical cycle for efficient overall water splitting. Nature Energy, 2019, 4, 786-795.	19.8	296
7	Empirical Analysis of the Photoelectrochemical Impedance Response of Hematite Photoanodes for Water Photo-oxidation. Journal of Physical Chemistry Letters, 2018, 9, 1466-1472.	2.1	19
8	The Spatial Collection Efficiency of Charge Carriers in Photovoltaic and Photoelectrochemical Cells. Joule, 2018, 2, 210-224.	11.7	36
9	Implementing Strong Interference in Ultrathin Film Top Absorbers for Tandem Solar Cells. ACS Photonics, 2018, 5, 5068-5078.	3.2	19
10	Two-site H <sub>2</sub> O <sub>2</sub> photo-oxidation on haematite photoanodes. Nature Communications, 2018, 9, 4060.	5.8	22
11	Film Flip and Transfer Process to Enhance Light Harvesting in Ultrathin Absorber Films on Specular Back-Reflectors. Advanced Materials, 2018, 30, 1802781.	11.1	12
12	Influence of Ti Doping Levels on the Photoelectrochemical Properties of Thin-Film Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Photoanodes. Journal of Physical Chemistry C, 2017, 121, 4206-4213.	1.5	51
13	Photoelectrochemical water splitting in separate oxygen and hydrogen cells. Nature Materials, 2017, 16, 646-651.	13.3	418
14	Beating the Efficiency of Photovoltaics-Powered Electrolysis with Tandem Cell Photoelectrolysis. ACS Energy Letters, 2017, 2, 45-51.	8.8	73
15	Magnetic states at the surface of $\text{Fe}^{\pm}$ thin films doped with Ti, Zn, or Sn. Physical Review B, 2017, 96, ...	1.1	15
16	Wavelength Dependent Photocurrent of Hematite Photoanodes: Reassessing the Hole Collection Length. Journal of Physical Chemistry C, 2017, 121, 28287-28292.	1.5	15
17	Nano Gold Rush: On the Origin of the Photocurrent Enhancement in Hematite Photoanodes Decorated with Gold Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 15042-15051.	1.5	15
18	Effect of Orientation on Bulk and Surface Properties of Sn-doped Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Heteroepitaxial Thin Film Photoanodes. Journal of Physical Chemistry C, 2016, 120, 28961-28970.	1.5	35

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19	High Solar Flux Concentration Water Splitting with Hematite ( $\text{Fe}_2\text{O}_3$ ) Photoanodes. <i>Advanced Energy Materials</i> , 2016, 6, 1500817.	10.2	72
20	Empirical in operando analysis of the charge carrier dynamics in hematite photoanodes by PEIS, IMPS and IMVS. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23438-23457.	1.3	131
21	Heterogeneous Doping to Improve the Performance of Thin-Film Hematite Photoanodes for Solar Water Splitting. <i>ACS Energy Letters</i> , 2016, 1, 827-833.	8.8	59
22	Hybrid bio-photo-electro-chemical cells for solar water splitting. <i>Nature Communications</i> , 2016, 7, 12552.	5.8	74
23	Rigorous substrate cleaning process for reproducible thin film hematite ( $\text{Fe}_2\text{O}_3$ ) photoanodes. <i>Journal of Materials Research</i> , 2016, 31, 1565-1573.	1.2	28
24	Heteroepitaxial hematite photoanodes as a model system for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3052-3060.	5.2	30
25	Systematic comparison of different dopants in thin film hematite ( $\text{Fe}_2\text{O}_3$ ) photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3091-3099.	5.2	112
26	The Photosystem II D1-K238E mutation enhances electrical current production using cyanobacterial thylakoid membranes in a bio-photoelectrochemical cell. <i>Photosynthesis Research</i> , 2015, 126, 161-169.	1.6	23
27	On the Solar to Hydrogen Conversion Efficiency of Photoelectrodes for Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3330-3334.	2.1	128
28	Resonant light trapping in ultrathin films for water splitting. <i>Nature Materials</i> , 2013, 12, 158-164.	13.3	309
29	Identifying champion nanostructures for solar water-splitting. <i>Nature Materials</i> , 2013, 12, 842-849.	13.3	527
30	Enhancement in the Performance of Ultrathin Hematite Photoanode for Water Splitting by an Oxide Underlayer. <i>Advanced Materials</i> , 2012, 24, 2699-2702.	11.1	271
31	Probing the photoelectrochemical properties of hematite ( $\text{Fe}_2\text{O}_3$ ) electrodes using hydrogen peroxide as a hole scavenger. <i>Energy and Environmental Science</i> , 2011, 4, 958-964.	15.6	933