

# Assaf Y Anderson

## List of Publications by Year in descending order

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39  
papers

2,655  
citations

257450

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docs citations

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times ranked

3616  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | All-Oxide Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3755-3764.   | 4.6  | 263       |
| 2  | Interpretation of Optoelectronic Transient and Charge Extraction Measurements in Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2013, 25, 1881-1922.   | 21.0 | 262       |
| 3  | Structure/Function Relationships in Dyes for Solar Energy Conversion: A Two-Atom Change in Dye Structure and the Mechanism for Its Effect on Cell Voltage. <i>Journal of the American Chemical Society</i> , 2009, 131, 3541-3548.                                  | 13.7 | 221       |
| 4  | Electron Injection Efficiency and Diffusion Length in Dye-Sensitized Solar Cells Derived from Incident Photon Conversion Efficiency Measurements. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1126-1136.  | 3.1  | 205       |
| 5  | Quantifying Regeneration in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2439-2447.  | 3.1  | 203       |
| 6  | Water-Based Electrolytes for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2010, 22, 4505-4509.   | 21.0 | 156       |
| 7  | TiO <sub>2</sub> /Cu <sub>2</sub> O all-oxide heterojunction solar cells produced by spray pyrolysis. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 549-556.   | 6.2  | 155       |
| 8  | Simulation and measurement of complete dye sensitised solar cells: including the influence of trapping, electrolyte, oxidised dyes and light intensity on steady state and transient device behaviour. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5798. | 2.8  | 115       |
| 9  | Re-evaluation of Recombination Losses in Dye-Sensitized Cells: The Failure of Dynamic Relaxation Methods to Correctly Predict Diffusion Length in Nanoporous Photoelectrodes. <i>Nano Letters</i> , 2009, 9, 3532-3538.   | 9.1  | 88        |
| 10 | Thin Film Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401007.   | 19.5 | 86        |
| 11 | Simultaneous Transient Absorption and Transient Electrical Measurements on Operating Dye-Sensitized Solar Cells: Elucidating the Intermediates in Iodide Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1953-1958.                                  | 3.1  | 85        |
| 12 | Quantum Efficiency and Bandgap Analysis for Combinatorial Photovoltaics: Sorting Activity of Cu <sup>+</sup> O Compounds in All-Oxide Device Libraries. <i>ACS Combinatorial Science</i> , 2014, 16, 53-65.   | 3.8  | 83        |
| 13 | Effect of Mg doping on Cu <sub>2</sub> O thin films and their behavior on the TiO <sub>2</sub> /Cu <sub>2</sub> O heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 27-36.   | 6.2  | 73        |
| 14 | Factors controlling charge recombination under dark and light conditions in dye sensitised solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3547-3558.   | 2.8  | 68        |
| 15 | The Mechanism of Iodine Reduction by TiO <sub>2</sub> Electrons and the Kinetics of Recombination in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1980-1984.   | 4.6  | 64        |
| 16 | Open Circuit Potential Build-Up in Perovskite Solar Cells from Dark Conditions to 1 Sun. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4640-4645.   | 4.6  | 48        |
| 17 | Combinatorial Investigation and Modelling of MoO <sub>3</sub> Hole-Selective Contact in TiO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> /MoO <sub>3</sub> All-Oxide Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500405.                          | 3.7  | 48        |
| 18 | 2000 hours photostability testing of dye sensitised solar cells using a cobalt bipyridine electrolyte. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4751-4757.  | 10.3 | 43        |

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|----|---|-----|-----------|
| 19 | One-step synthesis of crystalline Mn <sub>2</sub> O <sub>3</sub> thin film by ultrasonic spray pyrolysis. <i>Thin Solid Films</i> , 2016, 615, 261-264.   | 1.8 | 41        |
| 20 | Data Mining and Machine Learning Tools for Combinatorial Material Science of All-oxide Photovoltaic Cells. <i>Molecular Informatics</i> , 2015, 34, 367-379.  | 2.5 | 39        |
| 21 | Near-infrared absorbing squaraine dye with extended $\pi$ conjugation for dye-sensitized solar cells. <i>Renewable Energy</i> , 2013, 60, 672-678.  | 8.9 | 34        |
| 22 | New insight into the regeneration kinetics of organic dye sensitised solar cells. <i>Chemical Communications</i> , 2012, 48, 2406.  | 4.1 | 32        |
| 23 | Universal Work Function of Metal Oxides Exposed to Air. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802058.  | 3.7 | 29        |
| 24 | Efficient dye regeneration in solid-state dye-sensitized solar cells fabricated with melt processed hole conductors. <i>Organic Electronics</i> , 2012, 13, 23-30.  | 2.6 | 28        |
| 25 | Hot Electron-Based Solid State TiO <sub>2</sub>   Ag Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500789.  | 3.7 | 26        |
| 26 | Utilizing Pulsed Laser Deposition Lateral Inhomogeneity as a Tool in Combinatorial Material Science. <i>ACS Combinatorial Science</i> , 2015, 17, 209-216.  | 3.8 | 22        |
| 27 | Co <sub>3</sub> O <sub>4</sub> Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9053-9060.                   | 3.1 | 22        |
| 28 | Effect of Spinel Inversion on (Co <sub>x</sub> Fe <sub>1-x</sub> ) <sub>3</sub> O <sub>4</sub> All-oxide Solar Cell Performance. <i>Energy Technology</i> , 2016, 4, 809-815.                             | 3.8 | 16        |
| 29 | Four-point probe electrical resistivity scanning system for large area conductivity and activation energy mapping. <i>Review of Scientific Instruments</i> , 2014, 85, 055103.                            | 1.3 | 15        |
| 30 | A combined computational and experimental investigation of Mg doped $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 781-791.                         | 2.8 | 15        |
| 31 | Solid state ITO   Au-NPs   TiO <sub>2</sub> plasmonic based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 254-259.  | 6.2 | 12        |
| 32 | How Transparent Oxides Gain Some Color: Discovery of a CeNiO <sub>3</sub> Reduced Bandgap Phase As an Absorber for Photovoltaics. <i>ACS Combinatorial Science</i> , 2018, 20, 366-376.                   | 3.8 | 12        |
| 33 | Process-Function Data Mining for the Discovery of Solid-State Iron-Oxide PV. <i>ACS Combinatorial Science</i> , 2017, 19, 755-762.  | 3.8 | 9         |
| 34 | Oxygen concentration as a combinatorial parameter: The effect of continuous oxygen vacancy variation on SnO <sub>2</sub> layer conductivity. <i>Materials Chemistry and Physics</i> , 2018, 208, 289-293. | 4.0 | 9         |
| 35 | High-throughput Electrical Potential Depth-profiling in Air. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700136.   | 3.7 | 5         |
| 36 | Electron-Hybridization-Induced Enhancement of Photoactivity in Indium-Doped Co <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2016, 120, 28983-28991.                             | 3.1 | 4         |

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|----|---|-----|-----------|
| 37 | Direct observation of patterned self-assembled monolayers and bilayers on silica-on-silicon surfaces. Optical Materials Express, 2015, 5, 149.  | 3.0 | 1         |
| 38 | Thin-Film Photovoltaics: Combinatorial Investigation and Modelling of $\text{MoO}_3$ Hole-Selective Contact in $\text{TiO}_2$   $\text{Co}_3\text{O}_4$   $\text{MoO}_3$ All-Oxide Solar Cells (Adv. Mater. Interfaces 1/2016). Advanced Materials Interfaces, 2016, 3, . | 3.7 | 1         |
| 39 | Plasmonic Hot Electrons Photovoltaics via Spontaneous Templating. , 2016, , .   |     | 0         |