# David Cahen

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 511<br>papers | 36,625<br>citations | 2675<br>95<br>h-index | 4228<br>174<br>g-index |
| 553<br>all docs | 553<br>docs citations | 553<br>times ranked | 27440<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Hybrid organicâ€"inorganic perovskites: low-cost semiconductors with intriguing charge-transport properties. Nature Reviews Materials, 2016, 1, . | 48.7 | 1,173 |
| 2 | How Important Is the Organic Part of Lead Halide Perovskite Photovoltaic Cells? Efficient CsPbBr<sub>3</sub> Cells. Journal of Physical Chemistry Letters, 2015, 6, 2452-2456. | 4.6 | 938 |
| 3 | Cesium Enhances Long-Term Stability of Lead Bromide Perovskite-Based Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 167-172. | 4.6 | 833 |
| 4 | Comparison of Electronic Transport Measurements on Organic Molecules. Advanced Materials, 2003, 15, 1881-1890. | 21.0 | 823 |
| 5 | Photovoltaic solar cell technologies: analysing the state of the art. Nature Reviews Materials, 2019, 4, 269-285. | 48.7 | 727 |
| 6 | Nature of Photovoltaic Action in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2000, 104, 2053-2059. | 2.6 | 688 |
| 7 | Electron Energetics at Surfaces and Interfaces: Concepts and Experiments. Advanced Materials, 2003, 15, 271-277. | 21.0 | 637 |
| 8 | Interface energetics in organo-metal halide perovskite-based photovoltaic cells. Energy and Environmental Science, 2014, 7, 1377. | 30.8 | 624 |
| 9 | Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2004, 108, 8106-8118. | 2.6 | 584 |
| 10 | Why Lead Methylammonium Tri-Iodide Perovskite-Based Solar Cells Require a Mesoporous Electron Transporting Scaffold (but Not Necessarily a Hole Conductor). Nano Letters, 2014, 14, 1000-1004. | 9.1 | 533 |
| 11 | Elucidating the charge carrier separation and working mechanism of CH3NH3PbI3â^'xClx perovskite solar cells. Nature Communications, 2014, 5, 3461. | 12.8 | 511 |
| 12 | High Open-Circuit Voltage Solar Cells Based on Organicâ€"Inorganic Lead Bromide Perovskite. Journal of Physical Chemistry Letters, 2013, 4, 897-902. | 4.6 | 486 |
| 13 | Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324. | 11.2 | 482 |
| 14 | Photoelectrochemical energy conversion and storage using polycrystalline chalcogenide electrodes. Nature, 1976, 261, 403-404. | 27.8 | 435 |
| 15 | Rain on Methylammonium Lead Iodide Based Perovskites: Possible Environmental Effects of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1543-1547. | 4.6 | 428 |
| 16 | Halide Perovskites: Is It All about the Interfaces?. Chemical Reviews, 2019, 119, 3349-3417. | 47.7 | 404 |
| 17 | Crystallization of Methyl Ammonium Lead Halide Perovskites: Implications for Photovoltaic Applications. Journal of the American Chemical Society, 2014, 136, 13249-13256. | 13.7 | 388 |
| 18 | Preparation of Single-Phase Films of CH<sub>3</sub>NH<sub>3</sub>Pb(I<sub>1â€"<i>x</i></sub>Br<sub><i>x</i></sub>)<sub>3</sub> with Sharp Optical Band Edges. Journal of Physical Chemistry Letters, 2014, 5, 2501-2505. | 4.6 | 385 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Hybrid Organicâ€“Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112. | 21.0 | 372 |
| 20 | Chemical bath deposited CdS/CdSe-sensitized porous TiO2 solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 306-313. | 3.9 | 368 |
| 21 | Chloride Inclusion and Hole Transport Material Doping to Improve Methyl Ammonium Lead Bromide Perovskite-Based High Open-Circuit Voltage Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 429-433. | 4.6 | 342 |
| 22 | Tungsten trioxide as a photoanode for a photoelectrochemical cell (PEC). Nature, 1976, 260, 312-313. | 27.8 | 341 |
| 23 | Valence and Conduction Band Densities of States of Metal Halide Perovskites: A Combined Experimentalâ€“Theoretical Study. Journal of Physical Chemistry Letters, 2016, 7, 2722-2729. | 4.6 | 333 |
| 24 | Surface Photovoltage Spectroscopy of Dye-Sensitized Solar Cells with TiO2, Nb2O5, and SrTiO3Nanocrystalline Photoanodes:Â Indication for Electron Injection from Higher Excited Dye States. Journal of Physical Chemistry B, 2001, 105, 6347-6352. | 2.6 | 332 |
| 25 | Molecular control over Au/GaAs diodes. Nature, 2000, 404, 166-168. | 27.8 | 331 |
| 26 | Electrocatalytic Electrodes for the Polysulfide Redox System. Journal of the Electrochemical Society, 1980, 127, 544-549. | 2.9 | 329 |
| 27 | Low-Temperature Solution-Grown CsPbBr<sub>3</sub> Single Crystals and Their Characterization. Crystal Growth and Design, 2016, 16, 5717-5725. | 3.0 | 329 |
| 28 | Molecular Adjustment of the Electronic Properties of Nanoporous Electrodes in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 18907-18913. | 2.6 | 327 |
| 29 | Effects of Sodium on Polycrystalline Cu(In,Ga)Se2 and Its Solar Cell Performance. Advanced Materials, 1998, 10, 31-36. | 21.0 | 319 |
| 30 | Stability of CdTe/CdS thin-film solar cells. Solar Energy Materials and Solar Cells, 2000, 62, 295-325. | 6.2 | 315 |
| 31 | Energetics of molecular interfaces. Materials Today, 2005, 8, 32-41. | 14.2 | 312 |
| 32 | Molecular Engineering of Semiconductor Surfaces and Devices. Accounts of Chemical Research, 2002, 35, 121-128. | 15.6 | 304 |
| 33 | Large-Area, Ensemble Molecular Electronics: Motivation and Challenges. Chemical Reviews, 2017, 117, 4248-4286. | 47.7 | 298 |
| 34 | Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. Nature Communications, 2018, 9, 3301. | 12.8 | 271 |
| 35 | Mechanical properties of APbX3 (A = Cs or CH3NH3; X= I or Br) perovskite single crystals. MRS Communications, 2015, 5, 623-629. | 1.8 | 270 |
| 36 | CsSnBr<sub>3</sub>, A Lead-Free Halide Perovskite for Long-Term Solar Cell Application: Insights on SnF<sub>2</sub> Addition. ACS Energy Letters, 2016, 1, 1028-1033. | 17.4 | 259 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Nanocrystalline Mesoporous Strontium Titanate as Photoelectrode Material for Photosensitized Solar Devices:â€‰ Increasing Photovoltage through Flatband Potential Engineering. Journal of Physical Chemistry B, 1999, 103, 9328-9332. | 2.6 | 258 |
| 38 | A model for the successful growth of polycrystalline films of CuInSe2 by multisource physical vacuum evaporation. Advanced Materials, 1993, 5, 114-119. | 21.0 | 254 |
| 39 | Tetragonal CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> is ferroelectric. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5504-E5512. | 7.1 | 240 |
| 40 | Stability Issues of Cu(In,Ga)Se2-Based Solar Cells. Journal of Physical Chemistry B, 2000, 104, 4849-4862. | 2.6 | 235 |
| 41 | What Remains Unexplained about the Properties of Halide Perovskites?. Advanced Materials, 2018, 30, e1800691. | 21.0 | 231 |
| 42 | Molecules on Si: Electronics with Chemistry. Advanced Materials, 2010, 22, 140-159. | 21.0 | 207 |
| 43 | Are Mobilities in Hybrid Organicâ€“Inorganic Halide Perovskites Actually â€œHighâ€?. Journal of Physical Chemistry Letters, 2015, 6, 4754-4757. | 4.6 | 197 |
| 44 | Molecular Control over Semiconductor Surface Electronic Properties:Â Dicarboxylic Acids on CdTe, CdSe, GaAs, and InP. Journal of the American Chemical Society, 1999, 121, 10545-10553. | 13.7 | 185 |
| 45 | Chemical Modification of Semiconductor Surfaces for Molecular Electronics. Chemical Reviews, 2017, 117, 4624-4666. | 47.7 | 181 |
| 46 | Protein bioelectronics: a review of what we do and do not know. Reports on Progress in Physics, 2018, 81, 026601. | 20.1 | 180 |
| 47 | Making contact: Connecting molecules electrically to the macroscopic world. Progress in Surface Science, 2008, 83, 217-261. | 8.3 | 179 |
| 48 | How SnF<sub>2</sub> Impacts the Material Properties of Lead-Free Tin Perovskites. Journal of Physical Chemistry C, 2018, 122, 13926-13936. | 3.1 | 179 |
| 49 | How Polycrystalline Devices Can Outperform Single-Crystal Ones: Thin Film CdTe/CdS Solar Cells. Advanced Materials, 2004, 16, 879-883. | 21.0 | 176 |
| 50 | Electronic Transport via Proteins. Advanced Materials, 2014, 26, 7142-7161. | 21.0 | 175 |
| 51 | Oxygenation and air-annealing effects on the electronic properties of Cu(In,Ga)Se2 films and devices. Journal of Applied Physics, 1999, 86, 497-505. | 2.5 | 174 |
| 52 | Defect chemical explanation for the effect of air anneal on CdS/CuInSe2solar cell performance. Applied Physics Letters, 1989, 54, 558-560. | 3.3 | 173 |
| 53 | Temperature-Dependent Optical Band Gap in CsPbBr<sub>3</sub>, MAPbBr<sub>3</sub>, and FAPbBr<sub>3</sub> Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 2490-2496. | 4.6 | 173 |
| 54 | The Importance of Chemical Bonding to the Contact for Tunneling through Alkyl Chains. Journal of Physical Chemistry B, 2002, 106, 10432-10439. | 2.6 | 169 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Photovoltaic efficiency limits and material disorder. Energy and Environmental Science, 2012, 5, 6022. | 30.8 | 166 |
| 56 | Stone Tools, Toolkits, and Human Behavior in Prehistory [and Comments and Reply]. Current Anthropology, 1979, 20, 661-683. | 1.6 | 165 |
| 57 | Understanding the Beneficial Role of Grain Boundaries in Polycrystalline Solar Cells from Single-Grain-Boundary Scanning Probe Microscopy. Advanced Functional Materials, 2006, 16, 649-660. | 14.9 | 165 |
| 58 | The Cooperative Molecular Field Effect. Advanced Functional Materials, 2005, 15, 1571-1578. | 14.9 | 164 |
| 59 | Photoacoustic measurements of photosynthetic activities in whole leaves. Photochemistry and gas exchange. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 679, 452-465. | 1.0 | 162 |
| 60 | Subsurface movements of stone artefacts and their implications for the prehistory of Central Africa. Nature, 1977, 266, 812-815. | 27.8 | 159 |
| 61 | Proteins as Electronic Materials: Electron Transport through Solid-State Protein Monolayer Junctions. Journal of the American Chemical Society, 2010, 132, 4131-4140. | 13.7 | 156 |
| 62 | Guide for the perplexed to the Shockleyâ€“Queisser model for solar cells. Nature Photonics, 2019, 13, 501-505. | 31.4 | 153 |
| 63 | High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organicâ€“Inorganic Perovskite Solar Cells. ACS Applied Materials &amp; Interfaces, 2016, 8, 31491-31499. | 8.0 | 151 |
| 64 | Effects of Light and Electron Beam Irradiation on Halide Perovskites and Their Solar Cells. Accounts of Chemical Research, 2016, 49, 347-354. | 15.6 | 150 |
| 65 | Selfâ€Healing Inside APbBr<sub>3</sub> Halide Perovskite Crystals. Advanced Materials, 2018, 30, 1706273. | 21.0 | 149 |
| 66 | Molecules and Electronic Materials. Advanced Materials, 2002, 14, 789. | 21.0 | 148 |
| 67 | Xâ€ray photoelectron and Auger electron spectroscopic analysis of surface treatments and electrochemical decomposition of CuInSe2photoelectrodes. Journal of Applied Physics, 1985, 57, 4761-4771. | 2.5 | 145 |
| 68 | Perovskite cells roll forward. Nature Photonics, 2014, 8, 87-88. | 31.4 | 142 |
| 69 | Photoacoustic detection of photosynthetic oxygen evolution from leaves. Quantitative analysis by phase and amplitude measurements. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 724, 433-446. | 1.0 | 139 |
| 70 | Importance of Monolayer Quality for Interpreting Current Transport through Organic Molecules:Â Alkyls on Oxide-Free Si. Langmuir, 2006, 22, 6915-6922. | 3.5 | 136 |
| 71 | Contacting Organic Molecules by Soft Methods: Towards Molecule-Based Electronic Devices. Accounts of Chemical Research, 2008, 41, 359-366. | 15.6 | 126 |
| 72 | How Do Electronic Carriers Cross Si-Bound Alkyl Monolayers?. Physical Review Letters, 2005, 95, 266807. | 7.8 | 124 |

| # | ARTICLE | IF | CITATIONS |
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| 73 | What is the Barrier for Tunneling Through Alkyl Monolayers? Results from n- and p-Siâ€“Alkyl/Hg Junctions. Advanced Materials, 2007, 19, 445-450. | 21.0 | 122 |
| 74 | Assessing Possibilities and Limits for Solar Cells. Advanced Materials, 2011, 23, 2870-2876. | 21.0 | 122 |
| 75 | Phase segregation, Cu migration and junction formation in Cu(In,ÂGa)Se2. EPJ Applied Physics, 1999, 6, 131-139. | 0.7 | 121 |
| 76 | Proteins as Solid-State Electronic Conductors. Accounts of Chemical Research, 2010, 43, 945-953. | 15.6 | 118 |
| 77 | Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI<sub>3</sub> Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16399-16411. | 3.1 | 118 |
| 78 | Copper sulfide as a light absorber in wet-chemical synthesized extremely thin absorber (ETA) solar cells. Energy and Environmental Science, 2009, 2, 220-223. | 30.8 | 111 |
| 79 | How organic molecules can control electronic devices. Trends in Biotechnology, 2002, 20, 22-29. | 9.3 | 106 |
| 80 | Hybrids of Organic Molecules and Flat, Oxide-Free Silicon: High-Density Monolayers, Electronic Properties, and Functionalization. Langmuir, 2012, 28, 9920-9929. | 3.5 | 105 |
| 81 | Effect of Moleculeâˆ’Metal Electronic Coupling on Through-Bond Hole Tunneling across Metalâˆ’Organic Monolayerâˆ’Semiconductor Junctions. Journal of the American Chemical Society, 2002, 124, 2886-2887. | 13.7 | 104 |
| 82 | Current routes in polycrystalline CuInSe2 and Cu(In,Ga)Se2 films. Solar Energy Materials and Solar Cells, 2007, 91, 85-90. | 6.2 | 104 |
| 83 | Cu(In,Ga)Se2 Solar Cells: Device Stability Based on Chemical Flexibility. Advanced Materials, 1999, 11, 957-961. | 21.0 | 103 |
| 84 | Electron Tunneling at the TiO2/Substrate Interface Can Determine Dye-Sensitized Solar Cell Performance. Journal of Physical Chemistry B, 2004, 108, 17946-17951. | 2.6 | 103 |
| 85 | Electronic structure of Si(111)-bound alkyl monolayers: Theory and experiment. Physical Review B, 2006, 74, . | 3.2 | 103 |
| 86 | Controlling Semiconductor/Metal Junction Barriers by Incomplete, Nonideal Molecular Monolayers. Journal of the American Chemical Society, 2006, 128, 6854-6869. | 13.7 | 102 |
| 87 | Soft Contact Deposition onto Molecularly Modified GaAs. Thin Metal Film Flotation: Principles and Electrical Effects. Advanced Functional Materials, 2002, 12, 795-807. | 14.9 | 101 |
| 88 | Updated Assessment of Possibilities and Limits for Solar Cells. Advanced Materials, 2014, 26, 1622-1628. | 21.0 | 101 |
| 89 | Electronic Transport via Homopeptides: The Role of Side Chains and Secondary Structure. Journal of the American Chemical Society, 2015, 137, 9617-9626. | 13.7 | 101 |
| 90 | The Dependence of Electron Transfer Efficiency on the Conformational Order in Organic Monolayers. Science, 1994, 263, 948-950. | 12.6 | 100 |

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|---|---|---|---|
| 91 | Painted, Polycrystalline Thin Film Photoelectrodes for Photoelectrochemical Solar Cells. Journal of the Electrochemical Society, 1980, 127, 2252-2254. | 2.9 | 99 |
| 92 | All-Solid-State, Semiconductor-Sensitized Nanoporous Solar Cells. Accounts of Chemical Research, 2012, 45, 705-713. | 15.6 | 99 |
| 93 | Polar Ligand Adsorption Controls Semiconductor Surface Potentials. Journal of the American Chemical Society, 1994, 116, 2972-2977. | 13.7 | 98 |
| 94 | Direct evidence for grain-boundary depletion in polycrystalline CdTe from nanoscale-resolved measurements. Applied Physics Letters, 2003, 82, 556-558. | 3.3 | 98 |
| 95 | Direct evidence for diffusion and electromigration of Cu in CuInSe2. Journal of Applied Physics, 1997, 82, 4282-4285. | 2.5 | 96 |
| 96 | Interface redox engineering of Cu(In,Ga)Se 2 â€“ based solar cells: oxygen, sodium, and chemical bath effects. Thin Solid Films, 2000, 361-362, 353-359. | 1.8 | 96 |
| 97 | Direct Detection of Low-Concentration NO in Physiological Solutions by a New GaAs-Based Sensor. Chemistry - A European Journal, 2001, 7, 1743-1749. | 3.3 | 96 |
| 98 | Synergistic Effect of Charge Generation and Separation in Epitaxially Grown BiOCl/Bi<sub>2</sub>S<sub>3</sub> Nano-Heterostructure. ACS Applied Materials &amp; Interfaces, 2018, 10, 15304-15313. | 8.0 | 95 |
| 99 | Bacteriorhodopsin as an electronic conduction medium for biomolecular electronics. Chemical Society Reviews, 2008, 37, 2422. | 38.1 | 93 |
| 100 | Electronic structure of the CsPbBr3/polytriarylamine (PTAA) system. Journal of Applied Physics, 2017, 121, . | 2.5 | 93 |
| 101 | Electroplated CuInS2 and CuInSe2 layers: Preparation and physical and photovoltaic characterization. Thin Solid Films, 1985, 128, 93-106. | 1.8 | 91 |
| 102 | Room-temperature detection of mobile impurities in compound semiconductors by transient ion drift. Journal of Applied Physics, 1997, 81, 6684-6691. | 2.5 | 91 |
| 103 | Bacteriorhodopsin (bR) as an electronic conduction medium: Current transport through bR-containing monolayers. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8601-8606. | 7.1 | 91 |
| 104 | Light-Induced Increase of Electron Diffusion Length in a pâ€“n Junction Type CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2015, 6, 2469-2476. | 4.6 | 91 |
| 105 | Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 2408-2413. | 4.6 | 90 |
| 106 | Defect level identification in copper indium selenide (CuInSe2) from photoluminescence studies. Chemistry of Materials, 1990, 2, 286-293. | 6.7 | 89 |
| 107 | Simultaneous Control of Surface Potential and Wetting of Solids with Chemisorbed Multifunctional Ligands. Journal of the American Chemical Society, 1997, 119, 5720-5728. | 13.7 | 89 |
| 108 | Energy, the global challenge, and materials. Materials Today, 2008, 11, 16-20. | 14.2 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Fine Tuning of Au/SiO2/Si Diodes by Varying Interfacial Dipoles Using Molecular Monolayers. Advanced Materials, 2001, 13, 508-511. | 21.0 | 86 |
| 110 | Molecular Electronics at Metal/Semiconductor Junctions. Si Inversion by Sub-Nanometer Molecular Films. Nano Letters, 2009, 9, 2390-2394. | 9.1 | 86 |
| 111 | Molecular electronic tuning of Si surfaces. Chemical Physics Letters, 1997, 279, 270-274. | 2.6 | 84 |
| 112 | Moleculeâˆ’Metal Polarization at Rectifying GaAs Interfaces. Journal of Physical Chemistry B, 2003, 107, 6360-6376. | 2.6 | 83 |
| 113 | Controlling the Work Function of GaAs by Chemisorption of Benzoic Acid Derivatives. Journal of Physical Chemistry B, 1997, 101, 2678-2684. | 2.6 | 82 |
| 114 | Impedance Spectroscopic Indication for Solid State Electrochemical Reaction in (CH<sub>3</sub>NH<sub>3</sub>)PbI<sub>3</sub> Films. Journal of Physical Chemistry Letters, 2016, 7, 191-197. | 4.6 | 81 |
| 115 | Tunneling explains efficient electron transport via protein junctions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4577-E4583. | 7.1 | 81 |
| 116 | Can up- and down-conversion and multi-exciton generation improve photovoltaics?. Solar Energy Materials and Solar Cells, 2008, 92, 1541-1546. | 6.2 | 80 |
| 117 | Solid-State Electron Transport across Azurin: From a Temperature-Independent to a Temperature-Activated Mechanism. Journal of the American Chemical Society, 2011, 133, 2421-2423. | 13.7 | 78 |
| 118 | Factors Affecting the Stability of CdTe/CdS Solar Cells Deduced from Stress Tests at Elevated Temperature. Advanced Functional Materials, 2003, 13, 289-299. | 14.9 | 77 |
| 119 | Tuning electronic transport via hepta-alanine peptides junction by tryptophan doping. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10785-10790. | 7.1 | 77 |
| 120 | Electroplated cadmium chalcogenide layers: Characterization and use in photoelectrochemical solar cells. Thin Solid Films, 1982, 90, 433-438. | 1.8 | 76 |
| 121 | Conversion of Single Crystalline PbI<sub>2</sub> to CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>: Structural Relations and Transformation Dynamics. Chemistry of Materials, 2016, 28, 6501-6510. | 6.7 | 76 |
| 122 | Photoacoustic detection of photosynthetic activities in isolated broken chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1980, 593, 330-341. | 1.0 | 75 |
| 123 | Photoelectrochemical Energy Conversion and Storage: The Polycrystalline Cell with Different Storage Modes. Journal of the Electrochemical Society, 1977, 124, 532-534. | 2.9 | 74 |
| 124 | Free energies and enthalpies of possible gas phase and surface reactions for preparation of. Journal of Physics and Chemistry of Solids, 1992, 53, 991-1005. | 4.0 | 74 |
| 125 | Controlling the Work Function of CdSe by Chemisorption of Benzoic Acid Derivatives and Chemical Etching. The Journal of Physical Chemistry, 1995, 99, 8368-8373. | 2.9 | 73 |
| 126 | Electrochemical, solid state, photochemical and technological aspects of photoelectrochemical energy converters. Nature, 1976, 263, 97-100. | 27.8 | 72 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 127 | Mode-selective vibrational modulation of charge transport in organic electronic devices. Nature Communications, 2015, 6, 7880. | 12.8 | 72 |
| 128 | Structural and Solar Conversion Characteristics of the â€‰(â€‰Cu2Seâ€‰)â€‰ x â€‰(â€‰In2Se3â€‰)â€‰1â€‰âˆ’â€‰x Syste Electrochemical Society, 1985, 132, 1319-1327. | 2.9 | 71 |
| 129 | Perovskite Solar Cells: Do We Know What We Do Not Know?. Journal of Physical Chemistry Letters, 2015, 6, 279-282. | 4.6 | 71 |
| 130 | What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. ACS Energy Letters, 2019, 4, 1-7. | 17.4 | 71 |
| 131 | Photoacoustic determination of photovoltaic energy conversion efficiency. Applied Physics Letters, 1978, 33, 810-811. | 3.3 | 70 |
| 132 | Electrodeposition of CuInSe2 and CuInS2 films. Solar Cells, 1986, 16, 245-254. | 0.6 | 70 |
| 133 | Electrical Contacts to Organic Molecular Films by Metal Evaporation:â€‰ Effect of Contacting Details. Journal of Physical Chemistry C, 2007, 111, 2318-2329. | 3.1 | 70 |
| 134 | How Important Is the Interfacial Chemical Bond for Electron Transport through Alkyl Chain Monolayers?. Nano Letters, 2006, 6, 2873-2876. | 9.1 | 68 |
| 135 | What Is the Mechanism of MAPbI<sub>3</sub> p-Doping by I<sub>2</sub>? Insights from Optoelectronic Properties. ACS Energy Letters, 2017, 2, 2408-2414. | 17.4 | 68 |
| 136 | Photoacoustic spectroscopy of chloroplast membranes; listening to photosynthesis. FEBS Letters, 1978, 91, 339-342. | 2.8 | 67 |
| 137 | Ion migration in chalcopyrite semiconductors. The Journal of Physical Chemistry, 1992, 96, 11009-11017. | 2.9 | 67 |
| 138 | Energy Level and Band Alignment for GaAsâˆ’Alkylthiol Monolayerâˆ’Hg Junctions from Electrical Transport and Photoemission Experiments. Journal of Physical Chemistry B, 2006, 110, 14363-14371. | 2.6 | 66 |
| 139 | Stable Room-Temperature Molecular Negative Differential Resistance Based on Moleculeâˆ’Electrode Interface Chemistry. Journal of the American Chemical Society, 2004, 126, 11648-11657. | 13.7 | 65 |
| 140 | Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2007-2013. | 17.4 | 65 |
| 141 | Photo-electrochemical energy conversion: electrocatalytic sulphur electrodes. Journal of Applied Electrochemistry, 1977, 7, 181-182. | 2.9 | 64 |
| 142 | High efficiencynâ€¢Cd(Se,Te)/S=photoelectrochemical cell resulting from solution chemistry control. Applied Physics Letters, 1985, 46, 608-610. | 3.3 | 64 |
| 143 | Molecular Length, Monolayer Density, and Charge Transport: Lessons from Alâ€“AlOx/Alkylâ€“Phosphonate/Hg Junctions. Langmuir, 2012, 28, 404-415. | 3.5 | 64 |
| 144 | S/Se Substitution in Polycrystalline CdSe Photoelectrodes: Photoelectrochemical Energy Conversion. Journal of the Electrochemical Society, 1978, 125, 1623-1628. | 2.9 | 63 |

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|---|---|---|---|
| 145 | Temperature and Force Dependence of Nanoscale Electron Transport <i>via</i> the Cu Protein Azurin. ACS Nano, 2012, 6, 10816-10824. | 14.6 | 63 |
| 146 | Separating Charges at Organic Interfaces: Effects of Disorder, Hot States, and Electric Field. Journal of Physical Chemistry Letters, 2013, 4, 1707-1717. | 4.6 | 63 |
| 147 | Contacting organic molecules by metal evaporation. Physical Chemistry Chemical Physics, 2004, 6, 4538. | 2.8 | 62 |
| 148 | Molecular modification of an ionic semiconductorâ€“metal interface: ZnO/molecule/Au diodes. Applied Physics Letters, 2003, 82, 1051-1053. | 3.3 | 61 |
| 149 | nâ€Siâ€“Organic Inversion Layer Interfaces: A Low Temperature Deposition Method for Forming a pâ€“n Homojunction in nâ€Si. Advanced Energy Materials, 2014, 4, 1301724. | 19.5 | 61 |
| 150 | Platinum bronzes. IV. Preparation, crystal chemistry, and physical properties. Inorganic Chemistry, 1974, 13, 1377-1388. | 4.0 | 60 |
| 151 | Molecular control of a GaAs transistor. Chemical Physics Letters, 1998, 283, 301-306. | 2.6 | 60 |
| 152 | Voltage-Driven Changes in Molecular Dipoles Yield Negative Differential Resistance at Room Temperature We thank Prof. D. Mandler (HU Jerusalem) for making the hanging Hg drop electrode available to us, Prof. A. Shanzer and Ms. R. Lazar for synthesizing and providing the cyclic disulfide molecules, and Prof. J. M. L. Martin (all from the Organic Chemistry department, WIS), for guidance with the dipole moment calculations. We thank the Israel Science Foundation for partial support. Y.S. thanks the Clor fund f. Angewandte Chemie - International Edition, 2002, 41, 827. | 13.8 | 59 |
| 153 | Toward metal-organic insulator-semiconductor solar cells, based on molecular monolayer self-assembly on n-Si. Applied Physics Letters, 2009, 94, 043308. | 3.3 | 59 |
| 154 | Temperature-Dependent Solid-State Electron Transport through Bacteriorhodopsin: Experimental Evidence for Multiple Transport Paths through Proteins. Journal of the American Chemical Society, 2012, 134, 4169-4176. | 13.7 | 59 |
| 155 | Effect of photoelectrode crystal structure on output stability of Cd(Se,Te)/polysulfide photoelectrochemical cells. Journal of the American Chemical Society, 1980, 102, 5962-5964. | 13.7 | 58 |
| 156 | Band diagram of the polycrystalline CdS/Cu(In,Ga)Se2 heterojunction. Applied Physics Letters, 1995, 67, 1405-1407. | 3.3 | 58 |
| 157 | Rethinking Transition Voltage Spectroscopy within a Generic Taylor Expansion View. ACS Nano, 2013, 7, 695-706. | 14.6 | 58 |
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