Gary Hodes

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178 papers	19,296 citations	68 h-index	137 g-index
190 ext. papers	20,995 ext. citations	10.1 avg, IF	7.22 L-index

#	Paper	IF	Citations
178	Hybrid organic-inorganic perovskites: low-cost semiconductors with intriguing charge-transport properties. *Nature Reviews Materials*, **2016**, 1,	73.3	912
177	How Important Is the Organic Part of Lead Halide Perovskite Photovoltaic Cells? Efficient CsPbBr3 Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 2452-6	6.4	771
176	Cesium Enhances Long-Term Stability of Lead Bromide Perovskite-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 167-72	6.4	665
175	Applied physics. Perovskite-based solar cells. *Science*, **2013**, 342, 317-8	33.3	628
174	Nature of Photovoltaic Action in Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2000**, 104, 2053-2059	3.4	625
173	Interface energetics in organo-metal halide perovskite-based photovoltaic cells. *Energy and Environmental Science*, **2014**, 7, 1377	35.4	554
172	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2004**, 108, 8106-8118	3.4	539
171	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, 1000-4	11.5	505
170	Comparison of Dye- and Semiconductor-Sensitized Porous Nanocrystalline Liquid Junction Solar Cells. *Journal of Physical Chemistry C*, **2008**, 112, 17778-17787	3.8	500
169	Elucidating the charge carrier separation and working mechanism of CH3NH3PbI(3-x)Cl(x) perovskite solar cells. *Nature Communications*, **2014**, 5, 3461	17.4	461
168	High Open-Circuit Voltage Solar Cells Based on Organic-Inorganic Lead Bromide Perovskite. *Journal of Physical Chemistry Letters*, **2013**, 4, 897-902	6.4	438
167	Quantum size effects in the study of chemical solution deposition mechanisms of semiconductor films. *The Journal of Physical Chemistry*, **1994**, 98, 5338-5346		408
166	Photoelectrochemical energy conversion and storage using polycrystalline chalcogenide electrodes. *Nature*, **1976**, 261, 403-404	50.4	371
165	Chemical bath deposited CdS/CdSe-sensitized porous TiO2 solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 181, 306-313	4.7	351
164	Crystallization of methyl ammonium lead halide perovskites: implications for photovoltaic applications. *Journal of the American Chemical Society*, **2014**, 136, 13249-56	16.4	345
163	Size-Selected Zinc Sulfide Nanocrystallites: Synthesis, Structure, and Optical Studies. *Chemistry of Materials*, **2000**, 12, 1018-1024	9.6	326
162	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. *Advanced Materials*, **2015**, 27, 5102-12	24	325

161	Rain on Methylammonium Lead Iodide Based Perovskites: Possible Environmental Effects of Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 1543-7	6.4	323
160	Sb2S3-Sensitized Nanoporous TiO2 Solar Cells. *Journal of Physical Chemistry C*, **2009**, 113, 4254-4256	3.8	317
159	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, 429-33	6.4	309
158	Tungsten trioxide as a photoanode for a photoelectrochemical cell (PEC). *Nature*, **1976**, 260, 312-313	50.4	306
157	Electrocatalytic Electrodes for the Polysulfide Redox System. *Journal of the Electrochemical Society*, **1980**, 127, 544-549	3.9	302
156	Inorganic Hole Conducting Layers for Perovskite-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 1748-53	6.4	275
155	All-Inorganic CsPbX Perovskite Solar Cells: Progress and Prospects. *Angewandte Chemie - International Edition*, **2019**, 58, 15596-15618	16.4	272
154	Three-dimensional quantum-size effect in chemically deposited cadmium selenide films. *Physical Review B*, **1987**, 36, 4215-4221	3.3	272
153	Stability of CdTe/CdS thin-film solar cells. *Solar Energy Materials and Solar Cells*, **2000**, 62, 295-325	6.4	266
152	Valence and Conduction Band Densities of States of Metal Halide Perovskites: A Combined Experimental-Theoretical Study. *Journal of Physical Chemistry Letters*, **2016**, 7, 2722-9	6.4	264
151	Sb2S3-Based Mesoscopic Solar Cell using an Organic Hole Conductor. *Journal of Physical Chemistry Letters*, **2010**, 1, 1524-1527	6.4	261
150	Low-Temperature Solution-Grown CsPbBr3 Single Crystals and Their Characterization. *Crystal Growth and Design*, **2016**, 16, 5717-5725	3.5	256
149	Mechanical properties of APbX3 (A = Cs or CH3NH3; X= I or Br) perovskite single crystals. *MRS Communications*, **2015**, 5, 623-629	2.7	195
148	Semiconductor and ceramic nanoparticle films deposited by chemical bath deposition. *Physical Chemistry Chemical Physics*, **2007**, 9, 2181-96	3.6	191
147	Chemical Solution Deposition Of Semiconductor Films		189
146	Tetragonal CHNHPbI is ferroelectric. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5504-E5512	11.5	187
145	CsSnBr3, A Lead-Free Halide Perovskite for Long-Term Solar Cell Application: Insights on SnF2 Addition. *ACS Energy Letters*, **2016**, 1, 1028-1033	20.1	187
144	What Remains Unexplained about the Properties of Halide Perovskites?. *Advanced Materials*, **2018**, 30, e1800691	24	174

143	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. *Nature Communications*, **2018**, 9, 3301	17.4	173
142	Are Mobilities in Hybrid Organic-Inorganic Halide Perovskites Actually "High"?. *Journal of Physical Chemistry Letters*, **2015**, 6, 4754-7	6.4	167
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138	A light-variation insensitive high efficiency solar cell. *Nature*, **1987**, 326, 863-864	50.4	123
137	Effects of Light and Electron Beam Irradiation on Halide Perovskites and Their Solar Cells. *Accounts of Chemical Research*, **2016**, 49, 347-54	24.3	117
136	High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organic-Inorganic Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 31491-31499	9.5	116
135	Quantum Size Effects in Chemically Deposited, Nanocrystalline Lead Selenide Films. *The Journal of Physical Chemistry*, **1995**, 99, 16442-16448		107
134	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI3 Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 16399-16411	3.8	106
133	Copper sulfide as a light absorber in wet-chemical synthesized extremely thin absorber (ETA) solar cells. *Energy and Environmental Science*, **2009**, 2, 220-223	35.4	100
132	Self-Healing Inside APbBr Halide Perovskite Crystals. *Advanced Materials*, **2018**, 30, 1706273	24	99
131	Reliable chemical bath deposition of ZnO films with controllable morphology from ethanolamine-based solutions using KMnO4 substrate activation. *Journal of Materials Chemistry*, **2009**, 19, 3847		98
130	Chemical Solution Deposition of Lead Selenide Films: A Mechanistic and Structural Study. *Chemistry of Materials*, **1995**, 7, 1243-1256	9.6	95
129	Fabrication and characterization of ZnO nanowires/CdSe/CuSCN eta-solar cell. *Comptes Rendus Chimie*, **2006**, 9, 717-729	2.7	92
128	All-solid-state, semiconductor-sensitized nanoporous solar cells. *Accounts of Chemical Research*, **2012**, 45, 705-13	24.3	91
127	Painted, Polycrystalline Thin Film Photoelectrodes for Photoelectrochemical Solar Cells. *Journal of the Electrochemical Society*, **1980**, 127, 2252-2254	3.9	91
126	The Silver Chloride Photoanode in Photoelectrochemical Water Splitting. *Journal of Physical Chemistry B*, **2002**, 106, 12764-12775	3.4	87

125	Epitaxial electrodeposition of cadmium selenide nanocrystals on gold. *Langmuir*, **1992**, 8, 749-752	4	86
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121	Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 2408-13	6.4	75
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111	Electroplated cadmium chalcogenide layers: Characterization and use in photoelectrochemical solar cells. *Thin Solid Films*, **1982**, 90, 433-438	2.2	66
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105	Photo-electrochemical energy conversion: electrocatalytic sulphur electrodes. *Journal of Applied Electrochemistry*, **1977**, 7, 181-182	2.6	61
104	Conversion of Single Crystalline PbI2 to CH3NH3PbI3: Structural Relations and Transformation Dynamics. *Chemistry of Materials*, **2016**, 28, 6501-6510	9.6	58
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78	Can we use time-resolved measurements to get steady-state transport data for halide perovskites?. *Journal of Applied Physics*, **2018**, 124, 103103	2.5	32
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75	Chemically resolved photovoltage measurements in CdSe nanoparticle films. *Journal of Physical Chemistry B*, **2006**, 110, 25508-13	3.4	30
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43	Anorganische CsPbX3-Perowskit-Solarzellen: Fortschritte und Perspektiven. *Angewandte Chemie*, **2019**, 131, 15742-15765	3.6	15
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