Gary Hodes

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1340133/gary-hodes-publications-by-year.pdf
Version: 2024-04-10

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Direct Probing of Gap States and Their Passivation in Halide Perovskites by High-Sensitivity, Variable Energy Ultraviolet Photoelectron Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 5217-5225	3.8	4
177	Response to Comment on "Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals": Measure What is Measurable, and Make Measurable What is Not So: Discrepancies between Proton Diffusion in Halide Perovskite Single Crystals and Thin Films. *Advanced Materials*, **2021**, 33, e2102822	24	0
176	Single-Crystal Growth and Thermal Stability of $(CH_3NH_3)_{1-x}Cs_xPbBr_3$. *Crystal Growth and Design*, **2020**, 20, 4366-4374	3.5	3
175	Defects in halide perovskites: The lattice as a boojum?. *MRS Bulletin*, **2020**, 45, 478-484	3.2	11
174	Impact of SnF Addition on the Chemical and Electronic Surface Structure of CsSnBr. *ACS Applied Materials & Interfaces*, **2020**, 12, 12353-12361	9.5	22
173	Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals. *Advanced Materials*, **2020**, 32, e2002467	24	20
172	Halide Diffusion in $MAPbX_3$: Limits to Topotaxy for Halide Exchange in Perovskites. *Chemistry of Materials*, **2020**, 32, 4223-4231	9.6	11
171	Deep Defect States in Wide-Band-Gap ABX_3 Halide Perovskites. *ACS Energy Letters*, **2019**, 4, 1150-1157	20.1	40
170	Anorganische $CsPbX_3$-Perowskit-Solarzellen: Fortschritte und Perspektiven. *Angewandte Chemie*, **2019**, 131, 15742-15765	3.6	15
169	All-Inorganic CsPbX Perovskite Solar Cells: Progress and Prospects. *Angewandte Chemie - International Edition*, **2019**, 58, 15596-15618	16.4	272
168	Effect of SnF_2 concentration on the optoelectronic and PV cell properties of $CsSnBr_3$. *SN Applied Sciences*, **2019**, 1, 1	1.8	5
167	What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. *ACS Energy Letters*, **2019**, 4, 1-7	20.1	58
166	How SnF_2 Impacts the Material Properties of Lead-Free Tin Perovskites. *Journal of Physical Chemistry C*, **2018**, 122, 13926-13936	3.8	126
165	Self-Healing Inside APbBr Halide Perovskite Crystals. *Advanced Materials*, **2018**, 30, 1706273	24	99
164	What Remains Unexplained about the Properties of Halide Perovskites?. *Advanced Materials*, **2018**, 30, e1800691	24	174
163	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. *Nature Communications*, **2018**, 9, 3301	17.4	173
162	Control over Self-Doping in High Band Gap Perovskite Films. *Advanced Energy Materials*, **2018**, 8, 1800398	21.8	17

161	On the influence of multiple cations on the in-gap states and phototransport properties of iodide-based halide perovskites. *Physical Chemistry Chemical Physics*, **2018**, 20, 24444-24452	3.6	18
160	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
159	Electronic structure of the CsPbBr3/polytriarylamine (PTAA) system. *Journal of Applied Physics*, **2017**, 121, 035304	2.5	74
158	Type-inversion as a working mechanism of high voltage MAPbBr(Cl)-based halide perovskite solar cells. *Physical Chemistry Chemical Physics*, **2017**, 19, 5753-5762	3.6	18
157	Tetragonal CHNHPbI is ferroelectric. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5504-E5512	11.5	187
156	What Is the Mechanism of MAPbI3 p-Doping by I2? Insights from Optoelectronic Properties. *ACS Energy Letters*, **2017**, 2, 2408-2414	20.1	58
155	Metal to Halide Perovskite (HaP): An Alternative Route to HaP Coating, Directly from Pb(0) or Sn(0) Films. *Chemistry of Materials*, **2017**, 29, 8620-8629	9.6	9
154	Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 2007-2013	20.1	47
153	How to Avoid Artifacts in Surface Photovoltage Measurements: A Case Study with Halide Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 2941-2943	6.4	8
152	Conversion of Single Crystalline PbI2 to CH3NH3PbI3: Structural Relations and Transformation Dynamics. *Chemistry of Materials*, **2016**, 28, 6501-6510	9.6	58
151	Low-Temperature Solution-Grown CsPbBr3 Single Crystals and Their Characterization. *Crystal Growth and Design*, **2016**, 16, 5717-5725	3.5	256
150	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI3 Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 16399-16411	3.8	106
149	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
148	Interface Modification by Simple Organic Salts Improves Performance of Planar Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600506	4.6	5
147	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
146	Hybrid organic–inorganic perovskites: low-cost semiconductors with intriguing charge-transport properties. *Nature Reviews Materials*, **2016**, 1,	73.3	912
145	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
144	Band Diagram and Effects of the KSCN Treatment in TiO2/Sb2S3/CuSCN ETA Cells. *Journal of Physical Chemistry C*, **2016**, 120, 31-41	3.8	29

143	Cesium Enhances Long-Term Stability of Lead Bromide Perovskite-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 167-72	6.4	665
142	Impedance Spectroscopic Indication for Solid State Electrochemical Reaction in (CH3NH3)PbI3 Films. *Journal of Physical Chemistry Letters*, **2016**, 7, 191-7	6.4	71
141	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
140	CH3NH3PbBr3 is not pyroelectric, excluding ferroelectric-enhanced photovoltaic performance. *APL Materials*, **2016**, 4, 051101	5.7	35
139	Mobility-Lifetime Products in MAPbI Films. *Journal of Physical Chemistry Letters*, **2016**, 7, 5219-5226	6.4	51
138	Perovskite Solar Cells: Do We Know What We Do Not Know?. *Journal of Physical Chemistry Letters*, **2015**, 6, 279-82	6.4	65
137	Light-Induced Increase of Electron Diffusion Length in a p-n Junction Type CH3NH3PbBr3 Perovskite Solar Cell. *Journal of Physical Chemistry Letters*, **2015**, 6, 2469-76	6.4	75
136	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
135	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
134	Understanding the Implication of Carrier Diffusion Length in Photovoltaic Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 4090-2	6.4	69
133	Thiophene-modified perylenediimide as hole transporting material in hybrid lead bromide perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20305-20312	13	21
132	Are Mobilities in Hybrid Organic-Inorganic Halide Perovskites Actually "High"?. *Journal of Physical Chemistry Letters*, **2015**, 6, 4754-7	6.4	167
131	Mechanical properties of APbX3 (A = Cs or CH3NH3; X= I or Br) perovskite single crystals. *MRS Communications*, **2015**, 5, 623-629	2.7	195
130	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. *Advanced Materials*, **2015**, 27, 5102-12	24	325
129	Surface Oxidation as a Cause of High Open-Circuit Voltage in CdSe ETA Solar Cells. *Advanced Materials Interfaces*, **2015**, 2, 1400346	4.6	8
128	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
127	Inorganic Hole Conducting Layers for Perovskite-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 1748-53	6.4	275
126	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

125	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
124	Morphology-, synthesis- and doping-independent tuning of ZnO work function using phenylphosphonates. *Physical Chemistry Chemical Physics*, **2014**, 16, 8310-9	3.6	36
123	Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 2408-13	6.4	75
122	Higher Open Circuit Voltage and Reduced UV-Induced Reverse Current in ZnO-Based Solar Cells by a Chemically Modified Blocking Layer. *Journal of Physical Chemistry C*, **2014**, 118, 16884-16891	3.8	10
121	Crystallization of methyl ammonium lead halide perovskites: implications for photovoltaic applications. *Journal of the American Chemical Society*, **2014**, 136, 13249-56	16.4	345
120	Two stage chemical bath deposition of MoO3 nanorod films. *RSC Advances*, **2014**, 4, 53694-53700	3.7	18
119	Interface energetics in organo-metal halide perovskite-based photovoltaic cells. *Energy and Environmental Science*, **2014**, 7, 1377	35.4	554
118	Applied physics. Perovskite-based solar cells. *Science*, **2013**, 342, 317-8	33.3	628
117	Effective Bandgap Lowering of CdS Deposited by Successive Ionic Layer Adsorption and Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 1611-1620	3.8	70
116	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
115	Band alignment in partial and complete ZnO/ZnS/CdS/CuSCN extremely thin absorber cells: an X-ray photoelectron spectroscopy study. *ACS Applied Materials & Interfaces*, **2013**, 5, 5156-64	9.5	14
114	All-solid-state, semiconductor-sensitized nanoporous solar cells. *Accounts of Chemical Research*, **2012**, 45, 705-13	24.3	91
113	Photoelectrochemical Cell Measurements: Getting the Basics Right. *Journal of Physical Chemistry Letters*, **2012**, 3, 1208-13	6.4	63
112	Energetics of CdSe Quantum Dots Adsorbed on TiO2. *Journal of Physical Chemistry C*, **2011**, 115, 13236-13241	3.8	30
111	Band Alignment and Internal Field Mapping in Solar Cells. *Journal of Physical Chemistry Letters*, **2011**, 2, 2872-2876	6.4	30
110	Chemical bath deposition of CdS highly-textured, columnar films. *Thin Solid Films*, **2011**, 519, 6388-6393	2.2	3
109	Effect of glass dissolution on the solution deposition of ZnO films and its exploitation for deposition of Zn silicates. *Journal of the American Chemical Society*, **2010**, 132, 309-14	16.4	11
108	Effect of Sb Ions on the Morphology of Chemical Bath-Deposited ZnO Films and Application to Nanoporous Solar Cells. *Crystal Growth and Design*, **2010**, 10, 4442-4448	3.5	12

107	Uniform Coating of Light-Absorbing Semiconductors by Chemical Bath Deposition on Sulfide-Treated ZnO Nanorods. *Journal of Physical Chemistry C*, **2010**, 114, 13092-13097	3.8	40
106	Influence of Selective Nucleation on the One Step Chemical Bath Deposition of CdS/ZnO and CdS/ZnS Composite Films. *Chemistry of Materials*, **2010**, 22, 5483-5491	9.6	23
105	Sb2S3-Based Mesoscopic Solar Cell using an Organic Hole Conductor. *Journal of Physical Chemistry Letters*, **2010**, 1, 1524-1527	6.4	261
104	Electrodeposition and chemical bath deposition of functional nanomaterials. *MRS Bulletin*, **2010**, 35, 743-750	3.2	32
103	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
102	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
101	Nanocrystalline Solar Cells. *Frontiers of Nanoscience*, **2009**, 232-269	0.7	4
100	Sb2S3-Sensitized Nanoporous TiO2 Solar Cells. *Journal of Physical Chemistry C*, **2009**, 113, 4254-4256	3.8	317
99	Reproducible Chemical Bath Deposition of ZnO by a One-Step Method: The Importance of Contaminants in Nucleation. *Chemistry of Materials*, **2008**, 20, 4542-4544	9.6	41
98	PHOTOELECTROCHEMICAL STORAGE CELLS. *Series on Photoconversion of Solar Energy*, **2008**, 591-632		0
97	Defect-Dominated Charge Transport in Si-Supported CdSe Nanoparticle Films. *Journal of Physical Chemistry C*, **2008**, 112, 6564-6570	3.8	15
96	Chemical bath deposition of single-phase (Pb,Cd)S solid solutions. *Thin Solid Films*, **2008**, 517, 737-744	2.2	28
95	Comparison of Dye- and Semiconductor-Sensitized Porous Nanocrystalline Liquid Junction Solar Cells. *Journal of Physical Chemistry C*, **2008**, 112, 17778-17787	3.8	500
94	Effects of Solution pH and Surface Chemistry on the Postdeposition Growth of Chemical Bath Deposited PbSe Nanocrystalline Films. *Chemistry of Materials*, **2007**, 19, 879-888	9.6	27
93	Semiconductor and ceramic nanoparticle films deposited by chemical bath deposition. *Physical Chemistry Chemical Physics*, **2007**, 9, 2181-96	3.6	191
92	Fabrication and characterization of ZnO nanowires/CdSe/CuSCN eta-solar cell. *Comptes Rendus Chimie*, **2006**, 9, 717-729	2.7	92
91	Chemically resolved photovoltage measurements in CdSe nanoparticle films. *Journal of Physical Chemistry B*, **2006**, 110, 25508-13	3.4	30
90	Chemical bath deposited CdS/CdSe-sensitized porous TiO2 solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 181, 306-313	4.7	351

89	Electrochemical Preparation of H[sub 2]S and H[sub 2]Se. *Journal of the Electrochemical Society*, **2005**, 152, D35	3.9	12
88	Variable Optical Properties and Effective Porosity of CdSe Nanocrystalline Films Electrodeposited from Selenosulfate Solutions. *Journal of the Electrochemical Society*, **2005**, 152, G917	3.9	20
87	Internal field switching in CdSe quantum dot films on Si. *Journal of Physical Chemistry B*, **2005**, 109, 182-7	3.4	9
86	Charge overlap interaction in quantum dot films: time dependence and suppression by cyanide adsorption. *Journal of Physical Chemistry B*, **2005**, 109, 7214-9	3.4	20
85	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. *ChemInform*, **2004**, 35, no		1
84	Nanocrystalline CdSe Formation by Direct Reaction between Cd Ions and Selenosulfate Solution. *Chemistry of Materials*, **2004**, 16, 2740-2744	9.6	51
83	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
82	Factors Affecting the Stability of CdTe/CdS Solar Cells Deduced from Stress Tests at Elevated Temperature. *Advanced Functional Materials*, **2003**, 13, 289-299	15.6	62
81	Shape Control in Electrodeposited, Epitaxial CdSe Nanocrystals on (111) Gold. *Journal of Physical Chemistry B*, **2003**, 107, 2174-2179	3.4	10
80	Molecules and Electronic Materials. *Advanced Materials*, **2002**, 14, 789	24	140
79	Reversible adsorption-enhanced quantum confinement in semiconductor quantum dots. *Applied Physics Letters*, **2002**, 81, 5045-5047	3.4	37
78	Formation and Characterization of Electroless-Deposited NiTe[sub 2] Back Contacts to CdTe /CdS Thin-Film Solar Cells. *Journal of the Electrochemical Society*, **2002**, 149, G147	3.9	17
77	The Silver Chloride Photoanode in Photoelectrochemical Water Splitting. *Journal of Physical Chemistry B*, **2002**, 106, 12764-12775	3.4	87
76	Electroless Ni and NiTe2 ohmic contacts for CdTe/CdS PV cells. *Thin Solid Films*, **2001**, 387, 155-157	2.2	29
75	Preparation and Surface Structure of Nanocrystalline Cadmium Sulfide (Sulfoselenide) Precipitated from Dimethyl Sulfoxide Solutions. *Chemistry of Materials*, **2001**, 13, 2272-2280	9.6	51
74	Identification of surface states on individual CdSe quantum dots by room-temperature conductance spectroscopy. *Physical Review B*, **2001**, 63,	3.3	43
73	Stability of CdTe/CdS thin-film solar cells. *Solar Energy Materials and Solar Cells*, **2000**, 62, 295-325	6.4	266
72	Nature of Photovoltaic Action in Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2000**, 104, 2053-2059	3.4	625

71	Size-Selected Zinc Sulfide Nanocrystallites: Synthesis, Structure, and Optical Studies. *Chemistry of Materials*, **2000**, 12, 1018-1024	9.6	326
70	Electrochemical Deposition of ZnSe and (Zn,Cd)Se Films from Nonaqueous Solutions. *Journal of the Electrochemical Society*, **2000**, 147, 1825	3.9	29
69	Energy level tunneling spectroscopy and single electron charging in individual CdSe quantum dots. *Applied Physics Letters*, **1999**, 75, 1751-1753	3.4	82
68	Photoelectrochemical Charge Transfer Properties of Electrodeposited CdSe Quantum Dots. *Journal of Physical Chemistry B*, **1999**, 103, 4943-4948	3.4	21
67	Synthesis of Semiconductor Quantum Particles in Matrices of Thin Films and Crystals of □Alkanedicarboxylate Salts. *Advanced Materials*, **1998**, 10, 121-125	24	18
66	Superlattices of Semiconductor Quantum-Size Lead Sulfide Particles Prepared by Topotactic Gas□Solid Reaction. *Advanced Materials*, **1998**, 10, 657-661	24	21
65	Size-quantized CdS films in thin film CuInS2 solar cells. *Applied Physics Letters*, **1998**, 73, 3135-3137	3.4	34
64	Electrodeposited Quantum Dots. 6. Epitaxial Size Control in Cd(Se, Te) Nanocrystals on {111} Gold. *Israel Journal of Chemistry*, **1997**, 37, 303-313	3.4	5
63	Nanostructure and size quantization in chemical solution deposited semiconductor films. *Studies in Surface Science and Catalysis*, **1997**, 297-320	1.8	9
62	Size Quantization in Electrodeposited CdTe Nanocrystalline Films. *Journal of Physical Chemistry B*, **1997**, 101, 2685-2690	3.4	68
61	Electrodeposited quantum dots: Coherent nanocrystalline cdse on oriented polycrystalline au films. *Advanced Materials*, **1997**, 9, 236-238	24	16
60	Electrodeposited Quantum Dots. 3. Interfacial Factors Controlling the Morphology, Size, and Epitaxy. *The Journal of Physical Chemistry*, **1996**, 100, 2220-2228		51
59	Electrodeposited quantum dots IV. Epitaxial short-range order in amorphous semiconductor nanostructures. *Surface Science*, **1996**, 350, 277-284	1.8	16
58	Epitaxial size control by mismatch tuning in electrodeposited Cd(Se, Te) quantum dots on {111} gold. *Advanced Materials*, **1996**, 8, 631-633	24	27
57	Room-temperature conductance spectroscopy of CdSe quantum dots using a modified scanning force microscope. *Physical Review B*, **1995**, 52, 17017-17020	3.3	75
56	Band diagram of the polycrystalline CdS/Cu(In,Ga)Se2 heterojunction. *Applied Physics Letters*, **1995**, 67, 1405-1407	3.4	52
55	Chemical Solution Deposition of Lead Selenide Films: A Mechanistic and Structural Study. *Chemistry of Materials*, **1995**, 7, 1243-1256	9.6	95
54	Quantum Size Effects in Chemically Deposited, Nanocrystalline Lead Selenide Films. *The Journal of Physical Chemistry*, **1995**, 99, 16442-16448		107

(1986-1995)

53	Cation Electrolytic Modification of n - WSe2 / Aqueous Polyiodide Photoelectrochemistry. *Journal of the Electrochemical Society*, **1995**, 142, 840-844	3.9	8
52	Quantum size effects in the study of chemical solution deposition mechanisms of semiconductor films. *The Journal of Physical Chemistry*, **1994**, 98, 5338-5346		408
51	Electrodeposited quantum dots. *Surface Science*, **1994**, 311, L633-L640	1.8	51
50	Size-Quantized Nanocrystalline Semiconductor Films. *Israel Journal of Chemistry*, **1993**, 33, 95-106	3.4	71
49	Cross-sectional transmission electron microscopy of thin film polycrystalline semiconductors by conventional microtomy. *Thin Solid Films*, **1993**, 227, 18-23	2.2	3
48	Epitaxial electrodeposition of cadmium selenide nanocrystals on gold. *Langmuir*, **1992**, 8, 749-752	4	86
47	Room-temperature electrochemical reduction of YBa2Cu3O7 □. Solid-state and solution chemical results. *Journal of Materials Chemistry*, **1991**, 1, 339-346		7
46	Electron Microscopy of CuInSe2 polycrystalline films. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1990**, 48, 704-705		
45	Aggregate structure in CuBSe2/Mo films (B=In,Ga): Its relation to their electrical activity. *Journal of Applied Physics*, **1989**, 66, 3554-3559	2.5	13
44	Polyiodide-treated n-WSe2/Au Schottky junctions. *Applied Physics Letters*, **1989**, 54, 2085-2087	3.4	17
43	Controlled room-temperature reduction of YBa2Cu3O7□: A synthetic route to metastable superconducting phases. *Materials Letters*, **1989**, 7, 411-414	3.3	10
42	Electrochemical preparation and properties of oxygen deficient YBa2Cu3O7□. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1457-1458	1.3	5
41	Preparation of CuInSe2 and CuInS2 films by reactive annealing in H2Se OR H2S. *Solar Cells*, **1987**, 21, 215-224		58
40	Three-dimensional quantum-size effect in chemically deposited cadmium selenide films. *Physical Review B*, **1987**, 36, 4215-4221	3.3	272
39	A light-variation insensitive high efficiency solar cell. *Nature*, **1987**, 326, 863-864	50.4	123
38	Electrodeposition of CuInSe2 and CuInS2 films. *Solar Cells*, **1986**, 16, 245-254		62
37	Thermodynamic Stability of II□VI Semiconductor-Polysulfide Photoelectrochemical Systems. *Journal of the Electrochemical Society*, **1986**, 133, 2177-2180	3.9	11
36	Numerical analysis of aqueous polysulfide solutions and its application to cadmium chalcogenide/polysulfide photoelectrochemical solar cells. *Inorganic Chemistry*, **1986**, 25, 2486-2489	5.1	70

35	The High Aqueous Solubility of K 2 S and Its Effect on Bulk and Photoelectrochemical Characteristics of Cd (SeTe) / S x = Cells: I . Polysulfide Variation at Constant Sulfur/Sulfide Ratio. *Journal of the Electrochemical Society*, **1986**, 133, 272-277	3.9	14
34	Recent progress at the Weizmann Institute in the photoelectrochemistry of cadmium chalcogenides and CuIn Chalcogenides. *Journal of Photochemistry and Photobiology*, **1985**, 29, 243-256		10
33	Electroplated CuInS2 and CuInSe2 layers: Preparation and physical and photovoltaic characterization. *Thin Solid Films*, **1985**, 128, 93-106	2.2	82
32	Slurry painted CuInS2 and CuIn5S8 layers: Preparation and photoelectrochemical characterization. *Solar Energy Materials and Solar Cells*, **1985**, 12, 211-219		21
31	High efficiency n-Cd(Se,Te)/S=photoelectrochemical cell resulting from solution chemistry control. *Applied Physics Letters*, **1985**, 46, 608-610	3.4	56
30	Ternary Chalcogenide-Based Photoelectrochemical Cells: IV . Further Characterization of the Polysulfide Systems. *Journal of the Electrochemical Society*, **1985**, 132, 1062-1070	3.9	36
29	Electrodeposited layers of CuInS2, CuIn5S8 and CuInSe2. *Progress in Crystal Growth and Characterization*, **1984**, 10, 345-351		13
28	The structure and composition of the CdSe-(Oxidized titanium) interface: An investigation by transmission electron microscopy and electron diffraction. *Thin Solid Films*, **1984**, 112, 349-358	2.2	1
27	Electrodeposition of Cu?In?S layers and their photoelectrochemical characterization. *Solar Energy Materials and Solar Cells*, **1984**, 10, 41-45		38
26	Ternary chalcogenide-based photoelectrochemical cells III. n-CuIn5S8/aqueous polysulfide. *Solar Energy Materials and Solar Cells*, **1984**, 11, 57-74		25
25	Cathodic current photoenhancement at mechanically damaged CdS electrodes. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1984**, 172, 155-165		19
24	Effect of photoelectrochemical etching on charge collection efficiency in CdS: An electron beam induced current study. *Journal of Applied Physics*, **1983**, 54, 4676-4678	2.5	7
23	Photoelectrochemistry of Cadmium and Other Metal Chalcogenides in Polysulfide Electrolytes **1983**, 421-465		4
22	Photoelectrochemical solar cells: Interpretation of cell performance using electrochemical determination of photoelectrode properties. *Thin Solid Films*, **1982**, 91, 349-356	2.2	29
21	Electroplated cadmium chalcogenide layers: Characterization and use in photoelectrochemical solar cells. *Thin Solid Films*, **1982**, 90, 433-438	2.2	66
20	Effect of Surface Etching and Morphology on the Stability of CdSe / S x = Photoelectrochemical Cells. *Journal of the Electrochemical Society*, **1981**, 128, 2325-2330	3.9	29
19	Factors influencing output stability of Cd-chalcogenide/polysulfide photoelectrochemical cells. *Solar Energy Materials and Solar Cells*, **1981**, 4, 373-381		19
18	Photoelectrochemistry of the CuInS2/Sn2□system. *Solar Energy Materials and Solar Cells*, **1981**, 4, 169-177		43

17	Activation analysis of forward-biased CdS-electrolyte diode. *Applied Physics Letters*, **1981**, 38, 458-460	3.4	8
16	A thin-film polycrystalline photoelectrochemical cell with 8% solar conversion efficiency. *Nature*, **1980**, 285, 29-30	50.4	135
15	Photoelectrochemistry of Hydrogenated Amorphous Silicon (a-Si:H). *Journal of the Electrochemical Society*, **1980**, 127, 1209-1211	3.9	5
14	Electrocatalytic Electrodes for the Polysulfide Redox System. *Journal of the Electrochemical Society*, **1980**, 127, 544-549	3.9	302
13	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	16.4	51
12	Painted, Polycrystalline Thin Film Photoelectrodes for Photoelectrochemical Solar Cells. *Journal of the Electrochemical Society*, **1980**, 127, 2252-2254	3.9	91
11	Materials aspects of photo-electrochemical systems. *Solar Energy Materials and Solar Cells*, **1979**, 1, 343-355		18
10	Transient photocurrents and conversion losses in polysulfide-based photoelectrochemical cells. *Journal of the American Chemical Society*, **1979**, 101, 3969-3971	16.4	21
9	S/Se Substitution in Polycrystalline CdSe Photoelectrodes: Photoelectrochemical Energy Conversion. *Journal of the Electrochemical Society*, **1978**, 125, 1623-1628	3.9	57
8	Photoelectrochemical Energy Conversion and Storage: The Polycrystalline Cell with Different Storage Modes. *Journal of the Electrochemical Society*, **1977**, 124, 532-534	3.9	69
7	Photo-electrochemical energy conversion: electrocatalytic sulphur electrodes. *Journal of Applied Electrochemistry*, **1977**, 7, 181-182	2.6	61
6	Tungsten trioxide as a photoanode for a photoelectrochemical cell (PEC). *Nature*, **1976**, 260, 312-313	50.4	306
5	Photoelectrochemical energy conversion and storage using polycrystalline chalcogenide electrodes. *Nature*, **1976**, 261, 403-404	50.4	371
4	Electrochemical, solid state, photochemical and technological aspects of photoelectrochemical energy converters. *Nature*, **1976**, 263, 97-100	50.4	62
3	Chemical Solution Deposition Of Semiconductor Films		189
2	Are Defects in Lead-Halide Perovskites Healed, Tolerated, or Both?. *ACS Energy Letters*,4108-4114	20.1	8
1	2D Pb-Halide Perovskites Can Self-Heal Photodamage Better than 3D Ones. *Advanced Functional Materials*,2113354	15.6	1