Gary Hodes

List of Publications by Year
in descending order

183 papers	22,671 citations	10986 71 h-index	8167 148 g-index
190 all docs	190 docs citations	190 times ranked	20248 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 CsPbBr₃ 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	Perovskite-Based Solar Cells. Science, 2013, 342, 317-318.	12.6	731
5	Nature of Photovoltaic Action in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2000, 104, 2053-2059.	2.6	688
6	Interface energetics in organo-metal halide perovskite-based photovoltaic cells. Energy and Environmental Science, 2014, 7, 1377.	30.8	624
7	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
8	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
9	Comparison of Dye- and Semiconductor-Sensitized Porous Nanocrystalline Liquid Junction Solar Cells. Journal of Physical Chemistry C, 2008, 112, 17778-17787.	3.1	521
10	Elucidating the charge carrier separation and working mechanism of CH3NH3PbI3âˆ'xClx perovskite solar cells. Nature Communications, 2014, 5, 3461.	12.8	511
11	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
12	Quantum size effects in the study of chemical solution deposition mechanisms of semiconductor films. The Journal of Physical Chemistry, 1994, 98, 5338-5346.	2.9	442
13	Photoelectrochemical energy conversion and storage using polycrystalline chalcogenide electrodes. Nature, 1976, 261, 403-404.	27.8	435
14	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
15	Allâ€Inorganic CsPbX₃ Perovskite Solar Cells: Progress and Prospects. Angewandte Chemie - International Edition, 2019, 58, 15596-15618.	13.8	425
16	Crystallization of Methyl Ammonium Lead Halide Perovskites: Implications for Photovoltaic Applications. Journal of the American Chemical Society, 2014, 136, 13249-13256.	13.7	388
17	Hybrid Organicâ€"Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112.	21.0	372
18	Chemical bath deposited CdS/CdSe-sensitized porous TiO2 solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 306-313.	3.9	368

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19	Size-Selected Zinc Sulfide Nanocrystallites:â€‰ Synthesis, Structure, and Optical Studies. Chemistry of Materials, 2000, 12, 1018-1024.	6.7	361
20	Sb₂S₃-Sensitized Nanoporous TiO₂ Solar Cells. Journal of Physical Chemistry C, 2009, 113, 4254-4256.	3.1	353
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	Electrocatalytic Electrodes for the Polysulfide Redox System. Journal of the Electrochemical Society, 1980, 127, 544-549.	2.9	329
25	Low-Temperature Solution-Grown CsPbBr₃ Single Crystals and Their Characterization. Crystal Growth and Design, 2016, 16, 5717-5725.	3.0	329
26	Stability of CdTe/CdS thin-film solar cells. Solar Energy Materials and Solar Cells, 2000, 62, 295-325.	6.2	315
27	Inorganic Hole Conducting Layers for Perovskite-Based Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1748-1753.	4.6	307
28	Three-dimensional quantum-size effect in chemically deposited cadmium selenide films. Physical Review B, 1987, 36, 4215-4221.	3.2	302
29	Sb₂S₃-Based Mesoscopic Solar Cell using an Organic Hole Conductor. Journal of Physical Chemistry Letters, 2010, 1, 1524-1527.	4.6	285
30	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. Nature Communications, 2018, 9, 3301.	12.8	271
31	Mechanical properties of APbX3 (A = Cs or CH3NH3; X= I or Br) perovskite single crystals. MRS Communications, 2015, 5, 623-629.	1.8	270
32	CsSnBr₃, A Lead-Free Halide Perovskite for Long-Term Solar Cell Application: Insights on SnF₂ Addition. ACS Energy Letters, 2016, 1, 1028-1033.	17.4	259
33	Tetragonal CH ₃ NH ₃ PbI ₃ is ferroelectric. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5504-E5512.	7.1	240
34	What Remains Unexplained about the Properties of Halide Perovskites?. Advanced Materials, 2018, 30, e1800691.	21.0	231
35	Semiconductor and ceramic nanoparticle films deposited by chemical bath deposition. Physical Chemistry Chemical Physics, 2007, 9, 2181.	2.8	228
36	Are Mobilities in Hybrid Organicâ€“Inorganic Halide Perovskites Actually â€œHighâ€?. Journal of Physical Chemistry Letters, 2015, 6, 4754-4757.	4.6	197

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37	How SnF₂ Impacts the Material Properties of Lead-Free Tin Perovskites. Journal of Physical Chemistry C, 2018, 122, 13926-13936.	3.1	179
38	High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organicâ€“Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 31491-31499.	8.0	151
39	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
40	Selfâ€Healing Inside APbBr₃ Halide Perovskite Crystals. Advanced Materials, 2018, 30, 1706273.	21.0	149
41	Molecules and Electronic Materials. Advanced Materials, 2002, 14, 789.	21.0	148
42	A thin-film polycrystalline photoelectrochemical cell with 8% solar conversion efficiency. Nature, 1980, 285, 29-30.	27.8	146
43	Perovskite cells roll forward. Nature Photonics, 2014, 8, 87-88.	31.4	142
44	A light-variation insensitive high efficiency solar cell. Nature, 1987, 326, 863-864.	27.8	138
45	Quantum Size Effects in Chemically Deposited, Nanocrystalline Lead Selenide Films. The Journal of Physical Chemistry, 1995, 99, 16442-16448.	2.9	118
46	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI₃ Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16399-16411.	3.1	118
47	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
48	Chemical Solution Deposition of Lead Selenide Films: A Mechanistic and Structural Study. Chemistry of Materials, 1995, 7, 1243-1256.	6.7	110
49	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.	6.7	107
50	Painted, Polycrystalline Thin Film Photoelectrodes for Photoelectrochemical Solar Cells. Journal of the Electrochemical Society, 1980, 127, 2252-2254.	2.9	99
51	All-Solid-State, Semiconductor-Sensitized Nanoporous Solar Cells. Accounts of Chemical Research, 2012, 45, 705-713.	15.6	99
52	Understanding the Implication of Carrier Diffusion Length in Photovoltaic Cells. Journal of Physical Chemistry Letters, 2015, 6, 4090-4092.	4.6	98
53	Epitaxial electrodeposition of cadmium selenide nanocrystals on gold. Langmuir, 1992, 8, 749-752.	3.5	97
54	Fabrication and characterization of ZnO nanowires/CdSe/CuSCN eta-solar cell. Comptes Rendus Chimie, 2006, 9, 717-729.	0.5	97

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55	The Silver Chloride Photoanode in Photoelectrochemical Water Splitting. Journal of Physical Chemistry B, 2002, 106, 12764-12775.	2.6	95
56	Electronic structure of the CsPbBr3/polytriarylamine (PTAA) system. Journal of Applied Physics, 2017, 121, .	2.5	93
57	Electroplated CuInS2 and CuInSe2 layers: Preparation and physical and photovoltaic characterization. Thin Solid Films, 1985, 128, 93-106.	1.8	91
58	Light-Induced Increase of Electron Diffusion Length in a pâ€“n Junction Type CH₃NH₃PbBr₃ Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2015, 6, 2469-2476.	4.6	91
59	Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 2408-2413.	4.6	90
60	Energy level tunneling spectroscopy and single electron charging in individual CdSe quantum dots. Applied Physics Letters, 1999, 75, 1751-1753.	3.3	87
61	Room-temperature conductance spectroscopy of CdSe quantum dots using a modified scanning force microscope. Physical Review B, 1995, 52, R17017-R17020.	3.2	84
62	Numerical analysis of aqueous polysulfide solutions and its application to cadmium chalcogenide/polysulfide photoelectrochemical solar cells. Inorganic Chemistry, 1986, 25, 2486-2489.	4.0	83
63	Sizeâ€Quantized Nanocrystalline Semiconductor Films. Israel Journal of Chemistry, 1993, 33, 95-106.	2.3	82
64	Impedance Spectroscopic Indication for Solid State Electrochemical Reaction in (CH₃NH₃)PbI₃ Films. Journal of Physical Chemistry Letters, 2016, 7, 191-197.	4.6	81
65	Effective Bandgap Lowering of CdS Deposited by Successive Ionic Layer Adsorption and Reaction. Journal of Physical Chemistry C, 2013, 117, 1611-1620.	3.1	79
66	Size Quantization in Electrodeposited CdTe Nanocrystalline Films. Journal of Physical Chemistry B, 1997, 101, 2685-2690.	2.6	77
67	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
68	Electroplated cadmium chalcogenide layers: Characterization and use in photoelectrochemical solar cells. Thin Solid Films, 1982, 90, 433-438.	1.8	76
69	Conversion of Single Crystalline PbI₂ to CH₃NH₃PbI₃: Structural Relations and Transformation Dynamics. Chemistry of Materials, 2016, 28, 6501-6510.	6.7	76
70	Photoelectrochemical Energy Conversion and Storage: The Polycrystalline Cell with Different Storage Modes. Journal of the Electrochemical Society, 1977, 124, 532-534.	2.9	74
71	Photoelectrochemical Cell Measurements: Getting the Basics Right. Journal of Physical Chemistry Letters, 2012, 3, 1208-1213.	4.6	74
72	Electrochemical, solid state, photochemical and technological aspects of photoelectrochemical energy converters. Nature, 1976, 263, 97-100.	27.8	72

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73	Perovskite Solar Cells: Do We Know What We Do Not Know?. Journal of Physical Chemistry Letters, 2015, 6, 279-282.	4.6	71
74	What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. ACS Energy Letters, 2019, 4, 1-7.	17.4	71
75	Electrodeposition of CuInSe2 and CuInS2 films. Solar Cells, 1986, 16, 245-254.	0.6	70
76	What Is the Mechanism of MAPbI₃ p-Doping by I₂? Insights from Optoelectronic Properties. ACS Energy Letters, 2017, 2, 2408-2414.	17.4	68
77	Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2007-2013.	17.4	65
78	Photo-electrochemical energy conversion: electrocatalytic sulphur electrodes. Journal of Applied Electrochemistry, 1977, 7, 181-182.	2.9	64
79	High efficiencynâ€Cd(Se,Te)/S=photoelectrochemical cell resulting from solution chemistry control. Applied Physics Letters, 1985, 46, 608-610.	3.3	64
80	Preparation of CuInSe2 and CuInS2 films by reactive annealing in H2Se OR H2S. Solar Cells, 1987, 21, 215-224.	0.6	64
81	S/Se Substitution in Polycrystalline CdSe Photoelectrodes: Photoelectrochemical Energy Conversion. Journal of the Electrochemical Society, 1978, 125, 1623-1628.	2.9	63
82	Electrodeposited quantum dots. Surface Science, 1994, 311, L633-L640.	1.9	60
83	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
84	Band diagram of the polycrystalline CdS/Cu(In,Ga)Se2 heterojunction. Applied Physics Letters, 1995, 67, 1405-1407.	3.3	58
85	Electrodeposited Quantum Dots. 3. Interfacial Factors Controlling the Morphology, Size, and Epitaxy. The Journal of Physical Chemistry, 1996, 100, 2220-2228.	2.9	57
86	Nanocrystalline CdSe Formation by Direct Reaction between Cd Ions and Selenosulfate Solution. Chemistry of Materials, 2004, 16, 2740-2744.	6.7	55
87	Mobilityâ€“Lifetime Products in MAPbI₃ Films. Journal of Physical Chemistry Letters, 2016, 7, 5219-5226.	4.6	55
88	Preparation and Surface Structure of Nanocrystalline Cadmium Sulfide (Sulfoselenide) Precipitated from Dimethyl Sulfoxide Solutions. Chemistry of Materials, 2001, 13, 2272-2280.	6.7	54
89	Deep Defect States in Wide-Band-Gap ABX₃ Halide Perovskites. ACS Energy Letters, 2019, 4, 1150-1157.	17.4	54
90	Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals. Advanced Materials, 2020, 32, e2002467.	21.0	50

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91	Identification of surface states on individual CdSe quantum dots by room-temperature conductance spectroscopy. Physical Review B, 2001, 63, .	3.2	49
92	Reproducible Chemical Bath Deposition of ZnO by a One-Step Method: The Importance of â€œContaminantsâ€•in Nucleation. Chemistry of Materials, 2008, 20, 4542-4544.	6.7	45
93	Uniform Coating of Light-Absorbing Semiconductors by Chemical Bath Deposition on Sulfide-Treated ZnO Nanorods. Journal of Physical Chemistry C, 2010, 114, 13092-13097.	3.1	44
94	Photoelectrochemistry of the CuInS2/Sn2âˆ’ system. Solar Energy Materials and Solar Cells, 1981, 4, 169-177.	0.4	43
95	Ternary Chalcogenideâ€Based Photoelectrochemical Cells: IV . Further Characterization of the Polysulfide Systems. Journal of the Electrochemical Society, 1985, 132, 1062-1070.	2.9	43
96	Electrodeposition of Cuî—¸Inî—¸S layers and their photoelectrochemical characterization. Solar Energy Materials and Solar Cells, 1984, 10, 41-45.	0.4	42
97	CH3NH3PbBr3 is not pyroelectric, excluding ferroelectric-enhanced photovoltaic performance. APL Materials, 2016, 4, .	5.1	42
98	Size-quantized CdS films in thin film CuInS2 solar cells. Applied Physics Letters, 1998, 73, 3135-3137.	3.3	41
99	Reversible adsorption-enhanced quantum confinement in semiconductor quantum dots. Applied Physics Letters, 2002, 81, 5045-5047.	3.3	41
100	Morphology-, synthesis- and doping-independent tuning of ZnO work function using phenylphosphonates. Physical Chemistry Chemical Physics, 2014, 16, 8310.	2.8	40
101	Band Diagram and Effects of the KSCN Treatment in TiO₂/Sb₂S₃/CuSCN ETA Cells. Journal of Physical Chemistry C, 2016, 120, 31-41.	3.1	39
102	Can we use <i>time-resolved</i> measurements to get <i>steady-state</i> transport data for halide perovskites?. Journal of Applied Physics, 2018, 124, .	2.5	39
103	Impact of SnF₂ Addition on the Chemical and Electronic Surface Structure of CsSnBr₃. ACS Applied Materials & Interfaces, 2020, 12, 12353-12361.	8.0	35
104	Electrodeposition and chemical bath deposition of functional nanomaterials. MRS Bulletin, 2010, 35, 743-750.	3.5	35
105	Electroless Ni and NiTe2 ohmic contacts for CdTe/CdS PV cells. Thin Solid Films, 2001, 387, 155-157.	1.8	34
106	Chemical bath deposition of single-phase (Pb,Cd)S solid solutions. Thin Solid Films, 2008, 517, 737-744.	1.8	34
107	Effect of Surface Etching and Morphology on the Stability of CdSeâ€‰/â€‰â€‰Sâ€‰ x â€‰=â€‰ Photoelectrochemical Cells. Journal of the Electrochemical Society, 1981, 128, 2325-2330.	2.9	33
108	Epitaxial size control by mismatch tuning in electrodeposited Cd(Se, Te) quantum dots on {111} gold. Advanced Materials, 1996, 8, 631-633.	21.0	32

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109	Energetics of CdSe Quantum Dots Adsorbed on TiO₂. Journal of Physical Chemistry C, 2011, 115, 13236-13241.	3.1	32
110	Electrochemical Deposition of ZnSe and (Zn,Cd)Se Films from Nonaqueous Solutions. Journal of the Electrochemical Society, 2000, 147, 1825.	2.9	31
111	Chemically Resolved Photovoltage Measurements in CdSe Nanoparticle Filmsâ€. Journal of Physical Chemistry B, 2006, 110, 25508-25513.	2.6	31
112	Are Defects in Lead-Halide Perovskites Healed, Tolerated, or Both?. ACS Energy Letters, 2021, 6, 4108-4114.	17.4	31
113	Photoelectrochemical solar cells: Interpretation of cell performance using electrochemical determination of photoelectrode properties. Thin Solid Films, 1982, 91, 349-356.	1.8	30
114	Band Alignment and Internal Field Mapping in Solar Cells. Journal of Physical Chemistry Letters, 2011, 2, 2872-2876.	4.6	30
115	Ternary chalcogenide-based photoelectrochemical cells III. n-CuIn5S8/aqueous polysulfide. Solar Energy Materials and Solar Cells, 1984, 11, 57-74.	0.4	29
116	Photoelectrochemical Charge Transfer Properties of Electrodeposited CdSe Quantum Dots. Journal of Physical Chemistry B, 1999, 103, 4943-4948.	2.6	29
117	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.	6.7	29
118	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.	6.7	25
119	Transient photocurrents and conversion losses in polysulfide-based photoelectrochemical cells. Journal of the American Chemical Society, 1979, 101, 3969-3971.	13.7	23
120	Slurry painted CuInS2 and CuIn5S8 layers: Preparation and photoelectrochemical characterization. Solar Energy Materials and Solar Cells, 1985, 12, 211-219.	0.4	23
121	Fullerene-like nanocrystals of tungsten disulfide. Advanced Materials, 1993, 5, 386-388.	21.0	23
122	Two stage chemical bath deposition of MoO₃ nanorod films. RSC Advances, 2014, 4, 53694-53700.	3.6	23
123	Type-inversion as a working mechanism of high voltage MAPbBr₃(Cl)-based halide perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 5753-5762.	2.8	23
124	Control over Selfâ€Doping in High Band Gap Perovskite Films. Advanced Energy Materials, 2018, 8, 1800398.	19.5	23
125	Superlattices of Semiconductor Quantum-Size Lead Sulfide Particles Prepared by Topotactic Gas-Solid Reaction. Advanced Materials, 1998, 10, 657-661.	21.0	22
126	Formation and Characterization of Electroless-Deposited NiTe[sub 2] Back Contacts to CdTeâ€Š/CdS Thin-Film Solar Cells. Journal of the Electrochemical Society, 2002, 149, G147.	2.9	22

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127	Variable Optical Properties and Effective Porosity of CdSe Nanocrystalline Films Electrodeposited from Selenosulfate Solutions. Journal of the Electrochemical Society, 2005, 152, G917.	2.9	22
128	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.	2.8	22
129	Factors influencing output stability of Cd-chalcogenide/polysulfide photoelectrochemical cells. Solar Energy Materials and Solar Cells, 1981, 4, 373-381.	0.4	21
130	Cathodic current photoenhancement at mechanically damaged CdS electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 172, 155-165.	0.1	21
131	Electrodeposited quantum dots IV. Epitaxial short-range order in amorphous semiconductor nanostructures. Surface Science, 1996, 350, 277-284.	1.9	21
132	Thiophene-modified perylenediimide as hole transporting material in hybrid lead bromide perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 20305-20312.	10.3	21
133	Charge Overlap Interaction in Quantum Dot Films:Â Time Dependence and Suppression by Cyanide Adsorption. Journal of Physical Chemistry B, 2005, 109, 7214-7219.	2.6	20
134	Anorganische CsPbX₃â€Perowskitâ€Solarzellen: Fortschritte und Perspektiven. Angewandte Chemie, 2019, 131, 15742-15765.	2.0	20
135	Defects in halide perovskites: The lattice as a boojum?. MRS Bulletin, 2020, 45, 478-484.	3.5	20
136	Materials aspects of photo-electrochemical systems. Solar Energy Materials and Solar Cells, 1979, 1, 343-355.	0.4	19
137	Electrodeposited quantum dots: Coherent nanocrystalline cdse on oriented polycrystalline au films. Advanced Materials, 1997, 9, 236-238.	21.0	19
138	Synthesis of Semiconductor Quantum Particles in Matrices of Thin Films and Crystals of Î±,Ï‰-Alkanedicarboxylate Salts. Advanced Materials, 1998, 10, 121-125.	21.0	18
139	Halide Diffusion in MAPbX₃: Limits to Topotaxy for Halide Exchange in Perovskites. Chemistry of Materials, 2020, 32, 4223-4231.	6.7	18
140	The High Aqueous Solubility of â€‰Kâ€‰2â€‰Sâ€‰ and Its Effect on Bulk and Photoelectrochemical Characteristics of Cdâ€‰(â€‰SeTeâ€‰)â€‰â€‰/â€‰â€‰Sâ€‰x â€‰=â€‰ Cells: I . Polysulfide Variation at Constant Sulfur/Sulfide Ratio. Journ Electrochemical Society, 1986, 133, 272-277.	2.9	17
141	Polyiodideâ€treatednâ€WSe2/Au Schottky junctions. Applied Physics Letters, 1989, 54, 2085-2087.	3.3	17
142	Electrodeposited layers of CuInS2, CuIn5S8 and CuInSe2. Progress in Crystal Growth and Characterization, 1984, 10, 345-351.	0.8	16
143	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, 5156-5164.	8.0	16
144	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	15

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145	Defect-Dominated Charge Transport in Si-Supported CdSe Nanoparticle Films. Journal of Physical Chemistry C, 2008, 112, 6564-6570.	3.1	15
146	Recent progress at the Weizmann Institute in the photoelectrochemistry of cadmium chalcogenides and CuIn Chalcogenides. Journal of Photochemistry and Photobiology, 1985, 29, 243-256.	0.6	14
147	Electrochemical Preparation of H[sub 2]S and H[sub 2]Se. Journal of the Electrochemical Society, 2005, 152, D35.	2.9	14
148	Thermodynamic Stability of IIâ€"VI Semiconductorâ€Polysulfide Photoelectrochemical Systems. Journal of the Electrochemical Society, 1986, 133, 2177-2180.	2.9	12
149	Nanostructure and size quantization in chemical solution deposited semiconductor films. Studies in Surface Science and Catalysis, 1997, , 297-320.	1.5	12
150	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, 309-314.	13.7	12
151	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.	3.0	12
152	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.	6.7	12
153	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.	3.1	12
154	Shape Control in Electrodeposited, Epitaxial CdSe Nanocrystals on (111) Gold. Journal of Physical Chemistry B, 2003, 107, 2174-2179.	2.6	11
155	2D Pbâ€Halide Perovskites Can Selfâ€Heal Photodamage Better than 3D Ones. Advanced Functional Materials, 2022, 32, .	14.9	11
156	Controlled room-temperature reduction of YBa2Cu3O7âˆ'x: A synthetic route to metastable superconducting phases. Materials Letters, 1989, 7, 411-414.	2.6	10
157	Room-temperature electrochemical reduction of YBa2Cu3O7 â€"x. Solid-state and solution chemical results. Journal of Materials Chemistry, 1991, 1, 339-346.	6.7	10
158	Cation Electrolytic Modification of nâ€‰â€â€‰WSe2â€‰/â€‰Aqueousâ€‰Polyiodide Photoelectrochemistry. Journal of the Electrochemical Society, 1995, 142, 840-844.	2.9	10
159	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.	3.1	10
160	Activation analysis of forwardâ€biased CdSâ€electrolyte diode. Applied Physics Letters, 1981, 38, 458-460.	3.3	9
161	Internal Field Switching in CdSe Quantum Dot Films on Si. Journal of Physical Chemistry B, 2005, 109, 182-187.	2.6	9
162	Surface Oxidation as a Cause of High Openâ€Circuit Voltage in CdSe ETA Solar Cells. Advanced Materials Interfaces, 2015, 2, 1400346.	3.7	9

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163	How to Avoid Artifacts in Surface Photovoltage Measurements: A Case Study with Halide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2941-2943.	4.6	9
164	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	8
165	Electrodeposited Quantum Dots. 6. Epitaxial Size Control in Cd(Se, Te) Nanocrystals on {111} Gold. Israel Journal of Chemistry, 1997, 37, 303-313.	2.3	8
166	Single-Crystal Growth and Thermal Stability of (CH₃NH₃)_{1â€“<i>x</i>}Cs_{<i>x</i>}PbBr₃. Crystal Growth and Design, 2020, 20, 4366-4374.	3.0	8
167	Effect of SnF2 concentration on the optoelectronic and PV cell properties of CsSnBr3. SN Applied Sciences, 2019, 1, 1.	2.9	7
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