David Cahen

List of Publications by Year
in descending order

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511
papers

36,625
citations

2675

95
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4228

174
g-index

553
all docs

553
docs citations

553
times ranked

27440
citing authors

#	Article	IF	Citations
1	In Operando, Photovoltaic, and Microscopic Evaluation of Recombination Centers in Halide Perovskite-Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 34171-34179.	8.0	4
2	Prospect of making XPS a high-throughput analytical method illustrated for a Cu_{<i>x</i>}Ni_{1â^’<i>x</i>}O_{<i>y</i>} combinatorial material library. RSC Advances, 2022, 12, 7996-8002.	3.6	5
3	2D Pbâ€Halide Perovskites Can Selfâ€Heal Photodamage Better than 3D Ones. Advanced Functional Materials, 2022, 32, .	14.9	11
4	Halide perovskite dynamics at work: Large cations at 2D-on-3D interfaces are mobile. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114740119.	7.1	19
5	New Pb-Free Stable Snâ€"Ge Solid Solution Halide Perovskites Fabricated by Spray Deposition. ACS Applied Energy Materials, 2022, 5, 3638-3646.	5.1	20
6	Light-induced beneficial ion accumulation for high-performance quasi-2D perovskite solar cells. Energy and Environmental Science, 2022, 15, 2499-2507.	30.8	18
7	Surface Interactions of Oxygen Suffice to Pâ€Dope the Halide Perovskites. Advanced Materials Interfaces, 2022, 9, .	3.7	2
8	Lead Sequestration from Halide Perovskite Solar Cells with a Low-Cost Thiol-Containing Encapsulant. ACS Applied Materials & Interfaces, 2022, 14, 29766-29772.	8.0	10
9	Conformation-dependent charge transport through short peptides. Nanoscale, 2021, 13, 3002-3009.	5.6	18
10	The pursuit of stability in halide perovskites: the monovalent cation and the key for surface and bulk self-healing. Materials Horizons, 2021, 8, 1570-1586.	12.2	29
11	Reply to â€˜Ideal solar cell efficienciesâ€™. Nature Photonics, 2021, 15, 165-166.	31.4	7
12	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
13	Inelastic Electron Tunneling Spectroscopic Analysis of Biasâ€Induced Structural Changes in a Solidâ€State Protein Junction. Small, 2021, 17, e2008218.	10.0	5
14	Response to Comment on â€œEppur si Muove: Proton Diffusion in Halide Perovskite Single Crystalsâ€ 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.	21.0	4
15	Electronic Transport Through Organophosphonate-Grafted Bacteriorhodopsin Films on Titanium Nitride. , 2021, , .		2
16	Are Defects in Lead-Halide Perovskites Healed, Tolerated, or Both?. ACS Energy Letters, 2021, 6, 4108-4114.	17.4	31
17	What Can We Learn from Protein-Based Electron Transport Junctions?. Journal of Physical Chemistry Letters, 2021, 12, 11598-11603.	4.6	18
18	Electrochemical reduction of CO ₂ : Twoâ€•or threeâ€electrode configuration. International Journal of Energy Research, 2020, 44, 548-559.	4.5	13

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19	FTO Darkening Rate as a Qualitative, High-Throughput Mapping Method for Screening Li-Ionic Conduction in Thin Solid Electrolytes. ACS Combinatorial Science, 2020, 22, 18-24.	3.8	4
20	Solid-State Electron Transport via the Protein Azurin is Temperature-Independent Down to 4 K. Journal of Physical Chemistry Letters, 2020, 11, 144-151.	4.6	28
21	Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals. Advanced Materials, 2020, 32, e2002467.	21.0	50
22	Two-dimensional perovskite solar cells with high luminescence and ultra-low open-circuit voltage deficit. Journal of Materials Chemistry A, 2020, 8, 22175-22180.	10.3	9
23	Effect of Low Pressure on Tetragonal to Cubic Phase Transition of Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 1473-1476.	4.6	8
24	Protein Binding and Orientation Matter: Bias-Induced Conductance Switching in a Mutated Azurin Junction. Journal of the American Chemical Society, 2020, 142, 19217-19225.	13.7	18
25	Minimum doping densities for pâ€“n junctions. Nature Energy, 2020, 5, 973-975.	39.5	18
26	Coherent Electron Transport across a 3 nm Bioelectronic Junction Made of Multi-Heme Proteins. Journal of Physical Chemistry Letters, 2020, 11, 9766-9774.	4.6	42
27	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
28	Solid-State Protein Junctions: Cross-Laboratory Study Shows Preservation of Mechanism at Varying Electronic Coupling. IScience, 2020, 23, 101099.	4.1	30
29	Defects in halide perovskites: The lattice as a boojum?. MRS Bulletin, 2020, 45, 478-484.	3.5	20
30	Pin-Hole-Free, Homogeneous, Pure CsPbBr3 Films on Flat Substrates by Simple Spin-Coating Modification. Frontiers in Energy Research, 2020, 8, .	2.3	5
31	Temperature-Dependent Optical Band Gap in CsPbBr₃, MAPbBr₃, and FAPbBr₃ Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 2490-2496.	4.6	173
32	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. Applied Physics Letters, 2020, 116, .	3.3	28
33	Origin of the anomalous Pb-Br bond dynamics in formamidinium lead bromide perovskites. Physical Review B, 2020, 101, .	3.2	14
34	Impact of SnF₂ Addition on the Chemical and Electronic Surface Structure of CsSnBr₃. ACS Applied Materials & Interfaces, 2020, 12, 12353-12361.	8.0	35
35	Halide Diffusion in MAPbX₃: Limits to Topotaxy for Halide Exchange in Perovskites. Chemistry of Materials, 2020, 32, 4223-4231.	6.7	18
36	Probing electron-phonon couplings in halide perovskites crystals by temperature-dependent ultrafast two-dimensional electronic spectroscopy. , 2020, , .		0

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37	InnenrÃ¼cktitelbild: A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch (Angew.) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	0
38	Guide for the perplexed to the Shockleyâ€“Queisser model for solar cells. Nature Photonics, 2019, 13, 501-505.	31.4	153
39	When defects become â€˜dynamicâ€™: halide perovskites: a new window on materials?. Materials Horizons, 2019, 6, 1297-1305.	12.2	55
40	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie, 2019, 131, 11978-11985.	2.0	1
41	Ultrafast Charge Carrier Relaxation in Inorganic Halide Perovskite Single Crystals Probed by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 5414-5421.	4.6	16
42	A Solidâ€State Protein Junction Serves as a Biasâ€Induced Current Switch. Angewandte Chemie - International Edition, 2019, 58, 11852-11859.	13.8	26
43	Deep Defect States in Wide-Band-Gap ABX₃ Halide Perovskites. ACS Energy Letters, 2019, 4, 1150-1157.	17.4	54
44	Photovoltaic solar cell technologies: analysing the state of the art. Nature Reviews Materials, 2019, 4, 269-285.	48.7	727
45	Halide Perovskites: Is It All about the Interfaces?. Chemical Reviews, 2019, 119, 3349-3417.	47.7	404
46	Unprecedented efficient electron transport across Au nanoparticles with up to 25-nm insulating SiO2-shells. Scientific Reports, 2019, 9, 18336.	3.3	9
47	Backbone-Constrained Peptides: Temperature and Secondary Structure Affect Solid-State Electron Transport. Journal of Physical Chemistry B, 2019, 123, 10951-10958.	2.6	5
48	What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. ACS Energy Letters, 2019, 4, 1-7.	17.4	71
49	How SnF₂ Impacts the Material Properties of Lead-Free Tin Perovskites. Journal of Physical Chemistry C, 2018, 122, 13926-13936.	3.1	179
50	Synergistic Effect of Charge Generation and Separation in Epitaxially Grown BiOCl/Bi₂S₃ Nano-Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 15304-15313.	8.0	95
51	Electronic structure of dipeptides in the gas-phase and as an adsorbed monolayer. Physical Chemistry Chemical Physics, 2018, 20, 6860-6867.	2.8	9
52	Effect of Internal Heteroatoms on Level Alignment at Metal/Molecular Monolayer/Si Interfaces. Journal of Physical Chemistry C, 2018, 122, 3312-3325.	3.1	7
53	Selfâ€Healing Inside APbBr₃ Halide Perovskite Crystals. Advanced Materials, 2018, 30, 1706273.	21.0	149
54	Protein bioelectronics: a review of what we do and do not know. Reports on Progress in Physics, 2018, 81, 026601.	20.1	180

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55	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
56	What Remains Unexplained about the Properties of Halide Perovskites?. Advanced Materials, 2018, 30, e1800691.	21.0	231
57	Transistor configuration yields energy level control in protein-based junctions. Nanoscale, 2018, 10, 21712-21720.	5.6	24
58	Plasmonics Yields Efficient Electron Transport via Assembly of Shell-Insulated Au Nanoparticles. IScience, 2018, 8, 213-221.	4.1	27
59	Interface Electrostatics Dictates the Electron Transport via Bioelectronic Junctions. ACS Applied Materials & Interfaces, 2018, 10, 41599-41607.	8.0	18
60	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
61	Can fluorine-doped tin Oxide, FTO, be more like indium-doped tin oxide, ITO? Reducing FTO surface roughness by introducing additional SnO2 coating. MRS Communications, 2018, 8, 1358-1362.	1.8	15
62	Protein Electronics: Chemical Modulation of Contacts Control Energy Level Alignment in Gold-Azurin-Gold Junctions. Journal of the American Chemical Society, 2018, 140, 13317-13326.	13.7	53
63	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
64	CsPbBr₃ and CH₃NH₃PbBr₃ promote visible-light photo-reactivity. Physical Chemistry Chemical Physics, 2018, 20, 16847-16852.	2.8	4
65	Direct evidence for heme-assisted solid-state electronic conduction in multi-heme<i>c</i>-type cytochromes. Chemical Science, 2018, 9, 7304-7310.	7.4	39
66	Revisiting Electrochemical Reduction of CO₂ on Cu Electrode: Where Do We Stand about the Intermediates?. Journal of Physical Chemistry C, 2018, 122, 18528-18536.	3.1	32
67	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. Nature Communications, 2018, 9, 3301.	12.8	271
68	Control over Selfâ€Doping in High Band Gap Perovskite Films. Advanced Energy Materials, 2018, 8, 1800398.	19.5	23
69	Electronic structure of the CsPbBr3/polytriarylamine (PTAA) system. Journal of Applied Physics, 2017, 121, .	2.5	93
70	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
71	Chemical Modification of Semiconductor Surfaces for Molecular Electronics. Chemical Reviews, 2017, 117, 4624-4666.	47.7	181
72	Large-Area, Ensemble Molecular Electronics: Motivation and Challenges. Chemical Reviews, 2017, 117, 4248-4286.	47.7	298

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73	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
74	New insights into the nanostructure of innovative thin film solar cells gained by positron annihilation spectroscopy. Journal of Physics: Conference Series, 2017, 791, 012021.	0.4	1
75	Self-Repairing Energy Materials: <i>Sine Qua Non</i> for a Sustainable Future. Accounts of Chemical Research, 2017, 50, 573-576.	15.6	18
76	Laplace current deep level transient spectroscopy measurements of defect states in methylammonium lead bromide single crystals. Journal of Applied Physics, 2017, 122, .	2.5	50
77	What Is the Mechanism of MAPbI₃ p-Doping by I₂? Insights from Optoelectronic Properties. ACS Energy Letters, 2017, 2, 2408-2414.	17.4	68
78	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
79	Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2007-2013.	17.4	65
80	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
81	CH3NH3PbBr3 is not pyroelectric, excluding ferroelectric-enhanced photovoltaic performance. APL Materials, 2016, 4, .	5.1	42
82	Mobilityâ€“Lifetime Products in MAPbI₃ Films. Journal of Physical Chemistry Letters, 2016, 7, 5219-5226.	4.6	55
83	Electron transport via a soluble photochromic photoreceptor. Physical Chemistry Chemical Physics, 2016, 18, 25671-25675.	2.8	5
84	Making the science of interfaces work for semiconductor electronics. Journal Physics D: Applied Physics, 2016, 49, 391001.	2.8	2
85	Conversion of Single Crystalline PbI₂ to CH₃NH₃PbI₃: Structural Relations and Transformation Dynamics. Chemistry of Materials, 2016, 28, 6501-6510.	6.7	76
86	Low-Temperature Solution-Grown CsPbBr₃ Single Crystals and Their Characterization. Crystal Growth and Design, 2016, 16, 5717-5725.	3.0	329
87	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
88	Advances in Perovskite Solar Cells. Advanced Science, 2016, 3, 1500324.	11.2	482
89	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI₃ Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16399-16411.	3.1	118
90	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

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91	Interface Modification by Simple Organic Salts Improves Performance of Planar Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600506.	3.7	6
92	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
93	Hybrid organicâ€”inorganic perovskites: low-cost semiconductors with intriguing charge-transport properties. Nature Reviews Materials, 2016, 1, .	48.7	1,173
94	Making the sustainable energy colloquy quantitative and accessible to all. MRS Energy & Sustainability, 2016, 3, 1.	3.0	0
95	The Big Pictureâ€“Accepting Diverse Views on Energy and Sustainability. MRS Energy & Sustainability, 2016, 3, 1.	3.0	1
96	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
97	Towards nanometer-spaced silicon contacts to proteins. Nanotechnology, 2016, 27, 115302.	2.6	12
98	Cesium Enhances Long-Term Stability of Lead Bromide Perovskite-Based Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 167-172.	4.6	833
99	Impedance Spectroscopic Indication for Solid State Electrochemical Reaction in (CH₃NH₃)PbI₃ Films. Journal of Physical Chemistry Letters, 2016, 7, 191-197.	4.6	81
100	Mechanical properties of APbX3 (A = Cs or CH3NH3; X= I or Br) perovskite single crystals. MRS Communications, 2015, 5, 623-629.	1.8	270
101	Protein Electronic Conductors: Heminâ€“Substrate Bonding Dictates Transport Mechanism and Efficiency across Myoglobin. Angewandte Chemie, 2015, 127, 12556-12560.	2.0	2
102	Hybrid Organicâ€“Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112.	21.0	372
103	Protein Electronic Conductors: Heminâ€“Substrate Bonding Dictates Transport Mechanism and Efficiency across Myoglobin. Angewandte Chemie - International Edition, 2015, 54, 12379-12383.	13.8	13
104	Perovskite Solar Cells: Do We Know What We Do Not Know?. Journal of Physical Chemistry Letters, 2015, 6, 279-282.	4.6	71
105	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
106	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
107	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
108	Electron Transfer Proteins as Electronic Conductors: Significance of the Metal and Its Binding Site in the Blue Cu Protein, Azurin. Advanced Science, 2015, 2, 1400026.	11.2	39

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109	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
110	Insights into Solid-State Electron Transport through Proteins from Inelastic Tunneling Spectroscopy: The Case of Azurin. ACS Nano, 2015, 9, 9955-9963.	14.6	54
111	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
112	Mode-selective vibrational modulation of charge transport in organic electronic devices. Nature Communications, 2015, 6, 7880.	12.8	72
113	Conjugated Cofactor Enables Efficient Temperature-Independent Electronic Transport Across âˆ¼6 nm Long Halorhodopsin. Journal of the American Chemical Society, 2015, 137, 11226-11229.	13.7	26
114	Effect of binding group on hybridization across the silicon/aromatic-monolayer interface. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 149-158.	1.7	8
115	Are Mobilities in Hybrid Organicâ€“Inorganic Halide Perovskites Actually â€œHighâ€?. Journal of Physical Chemistry Letters, 2015, 6, 4754-4757.	4.6	197
116	The route towards low-cost solution-processed high Voc solar cells. , 2014, , .		0
117	Oddâ€“Even Effect in Molecular Electronic Transport via an Aromatic Ring. Langmuir, 2014, 30, 13596-13605.	3.5	33
118	Effect of chemical treatments on nm-scale electrical characteristics of polycrystalline thin film Cu(In,Ga)Se2 surfaces. Solar Energy Materials and Solar Cells, 2014, 120, 500-505.	6.2	24
119	Interface energetics in organo-metal halide perovskite-based photovoltaic cells. Energy and Environmental Science, 2014, 7, 1377.	30.8	624
120	Elucidating the charge carrier separation and working mechanism of CH3NH3PbI3âˆ’xClx perovskite solar cells. Nature Communications, 2014, 5, 3461.	12.8	511
121	Updated Assessment of Possibilities and Limits for Solar Cells. Advanced Materials, 2014, 26, 1622-1628.	21.0	101
122	Perovskite cells roll forward. Nature Photonics, 2014, 8, 87-88.	31.4	142
123	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
124	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
125	Electronic Transport via Proteins. Advanced Materials, 2014, 26, 7142-7161.	21.0	175
126	Morphology-, synthesis- and doping-independent tuning of ZnO work function using phenylphosphonates. Physical Chemistry Chemical Physics, 2014, 16, 8310.	2.8	40

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127	Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 2408-2413.	4.6	90
128	Nanoscale Electron Transport and Photodynamics Enhancement in Lipid-Depleted Bacteriorhodopsin Monomers. ACS Nano, 2014, 8, 7714-7722.	14.6	24
129	Crystallization of Methyl Ammonium Lead Halide Perovskites: Implications for Photovoltaic Applications. Journal of the American Chemical Society, 2014, 136, 13249-13256.	13.7	388
130	Solid-state electron transport via cytochrome <i>c</i> depends on electronic coupling to electrodes and across the protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5556-5561.	7.1	55
131	Preparation of Single-Phase Films of CH₃NH₃Pb(I_{1â€“<i>x</i>}Br_{<i>x</i>})₃ with Sharp Optical Band Edges. Journal of Physical Chemistry Letters, 2014, 5, 2501-2505.	4.6	385
132	Enhancing the Tunability of the Open-Circuit Voltage of Hybrid Photovoltaics with Mixed Molecular Monolayers. ACS Applied Materials & Interfaces, 2014, 6, 2317-2324.	8.0	4
133	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
134	Fabrication of Reproducible, Integrationâ€Compatible Hybrid Molecular/Si Electronics. Small, 2014, 10, 5151-5160.	10.0	20
135	Effect of Moleculeâ€“Surface Reaction Mechanism on the Electronic Characteristics and Photovoltaic Performance of Molecularly Modified Si. Journal of Physical Chemistry C, 2013, 117, 22351-22361.	3.1	25
136	Redox activity distinguishes solid-state electron transport from solution-based electron transfer in a natural and artificial protein: cytochrome C and hemin-doped human serum albumin. Physical Chemistry Chemical Physics, 2013, 15, 17142.	2.8	44
137	A New Route to Nondestructive Top-Contacts for Molecular Electronics on Si: Pb Evaporated on Organic Monolayers. Journal of Physical Chemistry Letters, 2013, 4, 426-430.	4.6	27
138	40 Years of Inversion Layer Solar Cells: From MOS to Conducting Polymer/Inorganic Hybrids. IEEE Journal of Photovoltaics, 2013, 3, 1443-1459.	2.5	30
139	Mono-Fluorinated Alkyne-Derived SAMs on Oxide-Free Si(111) Surfaces: Preparation, Characterization and Tuning of the Si Workfunction. Langmuir, 2013, 29, 570-580.	3.5	36
140	O2 and organic semiconductors: Electronic effects. Organic Electronics, 2013, 14, 966-972.	2.6	40
141	The effect of structural order on solar cell parameters, as illustrated in a SiC-organic junction model. Energy and Environmental Science, 2013, 6, 3272.	30.8	8
142	Electron Transport via Cytochrome C on Siâ€“H Surfaces: Roles of Fe and Heme. Journal of the American Chemical Society, 2013, 135, 6300-6306.	13.7	35
143	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
144	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

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145	Effect of Doping Density on the Charge Rearrangement and Interface Dipole at the Moleculeâ€“Silicon Interface. Journal of Physical Chemistry C, 2013, 117, 22422-22427.	3.1	13
146	Rethinking Transition Voltage Spectroscopy within a Generic Taylor Expansion View. ACS Nano, 2013, 7, 695-706.	14.6	58
147	Photocontrol of Electrical Conductance with a Nonsymmetrical Azobenzene Dithiol. Synlett, 2013, 24, 2370-2374.	1.8	11
148	Substituent Variation Drives Metal/Monolayer/Semiconductor Junctions from Strongly Rectifying to Ohmic Behavior. Advanced Materials, 2013, 25, 702-706.	21.0	33
149	Marked changes in electron transport through the blue copper protein azurin in the solid state upon deuteration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 507-512.	7.1	51
150	Molecular field effect passivation: Quinhydrone/methanol treatment of n-Si(100). Journal of Applied Physics, 2013, 113, .	2.5	19
151	Proteins as "dopable" bio-electronic materials. AIP Conference Proceedings, 2013, , .	0.4	2
152	Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. Physical Review B, 2012, 85, .	3.2	51
153	Energy limitations on materials availability. MRS Bulletin, 2012, 37, 412-416.	3.5	6
154	Ga Composition Dictates Macroscopic Photovoltaic and Nanoscopic Electrical Characteristics of Cu(In $_{1-X}$Ga$_X$)Se $_2$ Thin Films via Grain-Boundary-Type Inversion. IEEE Journal of Photovoltaics, 2012, 2, 191-195.	2.5	23
155	Hybrids of Organic Molecules and Flat, Oxide-Free Silicon: High-Density Monolayers, Electronic Properties, and Functionalization. Langmuir, 2012, 28, 9920-9929.	3.5	105
156	Structure Matters: Correlating temperature dependent electrical transport through alkyl monolayers with vibrational and photoelectron spectroscopies. Chemical Science, 2012, 3, 851-862.	7.4	43
157	A novel method for investigating electrical breakdown enhancement by nm-sized features. Nanoscale, 2012, 4, 3128.	5.6	5
158	Molecular Length, Monolayer Density, and Charge Transport: Lessons from Alâ€“AlOx/Alkylâ€“Phosphonate/Hg Junctions. Langmuir, 2012, 28, 404-415.	3.5	64
159	Doping Human Serum Albumin with Retinoate Markedly Enhances Electron Transport across the Protein. Journal of the American Chemical Society, 2012, 134, 18221-18224.	13.7	31
160	Controlling Space Charge of Oxide-Free Si by in Situ Modification of Dipolar Alkyl Monolayers. Journal of Physical Chemistry C, 2012, 116, 11434-11443.	3.1	22
161	Temperature and Force Dependence of Nanoscale Electron Transport <i>via</i> the Cu Protein Azurin. ACS Nano, 2012, 6, 10816-10824.	14.6	63
162	All-Solid-State, Semiconductor-Sensitized Nanoporous Solar Cells. Accounts of Chemical Research, 2012, 45, 705-713.	15.6	99

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163	Aluminum oxideâ€“n-Si field effect inversion layer solar cells with organic top contact. Applied Physics Letters, 2012, 101, 233901.	3.3	29
164	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
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