

David Cahen

List of Publications by Year in Descending Order

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

490
papers

31,111
citations

89
h-index

161
g-index

553
ext. papers

33,835
ext. citations

9.7
avg, IF

7.46
L-index

#	Paper	IF	Citations
490	Prospect of making XPS a high-throughput analytical method illustrated for a Cu Ni O combinatorial material library.. <i>RSC Advances</i> , 2022 , 12, 7996-8002	3.7	0
489	Halide perovskite dynamics at work: Large cations at 2D-on-3D interfaces are mobile.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2114740119	11.5	1
488	New Pb-Free Stable SnTe Solid Solution Halide Perovskites Fabricated by Spray Deposition. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3638-3646	6.1	1
487	Direct Probing of Gap States and Their Passivation in Halide Perovskites by High-Sensitivity, Variable Energy Ultraviolet Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5217-5225	3.8	4
486	Inelastic Electron Tunneling Spectroscopic Analysis of Bias-Induced Structural Changes in a Solid-State Protein Junction. <i>Small</i> , 2021 , 17, e2008218	11	3
485	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. <i>Advanced Materials</i> , 2021 , 33, e2102822	24	0
484	Conformation-dependent charge transport through short peptides. <i>Nanoscale</i> , 2021 , 13, 3002-3009	7.7	1
483	The pursuit of stability in halide perovskites: the monovalent cation and the key for surface and bulk self-healing. <i>Materials Horizons</i> , 2021 , 8, 1570-1586	14.4	5
482	Reply to Ideal solar cell efficiencies. <i>Nature Photonics</i> , 2021 , 15, 165-166	33.9	4
481	What Can We Learn from Protein-Based Electron Transport Junctions?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11598-11603	6.4	4
480	Coherent Electron Transport across a 3 nm Bioelectronic Junction Made of Multi-Heme Proteins. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9766-9774	6.4	19
479	Single-Crystal Growth and Thermal Stability of (CH ₃ NH ₃) _{1-x} CsxPbBr ₃ . <i>Crystal Growth and Design</i> , 2020 , 20, 4366-4374	3.5	3
478	Solid-State Protein Junctions: Cross-Laboratory Study Shows Preservation of Mechanism at Varying Electronic Coupling. <i>IScience</i> , 2020 , 23, 101099	6.1	19
477	Defects in halide perovskites: The lattice as a boojum?. <i>MRS Bulletin</i> , 2020 , 45, 478-484	3.2	11
476	Pin-Hole-Free, Homogeneous, Pure CsPbBr ₃ Films on Flat Substrates by Simple Spin-Coating Modification. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	4
475	Temperature-Dependent Optical Band Gap in CsPbBr ₃ , MAPbBr ₃ , and FAPbBr Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2490-2496	6.4	68
474	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. <i>Applied Physics Letters</i> , 2020 , 116, 100501	3.4	16

473	Origin of the anomalous Pb-Br bond dynamics in formamidinium lead bromide perovskites. <i>Physical Review B</i> , 2020 , 101,	3.3	7
472	Impact of SnF Addition on the Chemical and Electronic Surface Structure of CsSnBr. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12353-12361	9.5	22
471	Electrochemical reduction of CO ₂ : Two- or three-electrode configuration. <i>International Journal of Energy Research</i> , 2020 , 44, 548-559	4.5	6
470	FTO Darkening Rate as a Qualitative, High-Throughput Mapping Method for Screening Li-Ionic Conduction in Thin Solid Electrolytes. <i>ACS Combinatorial Science</i> , 2020 , 22, 18-24	3.9	2
469	Solid-State Electron Transport via the Protein Azurin is Temperature-Independent Down to 4 K. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 144-151	6.4	17
468	Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals. <i>Advanced Materials</i> , 2020 , 32, e2002467	20.1	40
467	Two-dimensional perovskite solar cells with high luminescence and ultra-low open-circuit voltage deficit. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22175-22180	13	6
466	Effect of Low Pressure on Tetragonal to Cubic Phase Transition of Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1473-1476	6.4	5
465	Protein Binding and Orientation Matter: Bias-Induced Conductance Switching in a Mutated Azurin Junction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19217-19225	16.4	8
464	Minimum doping densities for p-n junctions. <i>Nature Energy</i> , 2020 , 5, 973-975	62.3	8
463	Halide Diffusion in MAPbX ₃ : Limits to Topotaxy for Halide Exchange in Perovskites. <i>Chemistry of Materials</i> , 2020 , 32, 4223-4231	9.6	11
462	Ultrafast Charge Carrier Relaxation in Inorganic Halide Perovskite Single Crystals Probed by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5414-5421	6.4	7
461	A Solid-State Protein Junction Serves as a Bias-Induced Current Switch. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11852-11859	16.4	21
460	Deep Defect States in Wide-Band-Gap ABX ₃ Halide Perovskites. <i>ACS Energy Letters</i> , 2019 , 4, 1150-1157	20.1	40
459	Photovoltaic solar cell technologies: analysing the state of the art. <i>Nature Reviews Materials</i> , 2019 , 4, 269-285	73.3	430
458	Innenrücktitelbild: A Solid-State Protein Junction Serves as a Bias-Induced Current Switch (Angew. Chem. 34/2019). <i>Angewandte Chemie</i> , 2019 , 131, 12049-12049	3.6	
457	When defects become dynamic in halide perovskites: a new window on materials?. <i>Materials Horizons</i> , 2019 , 6, 1297-1305	14.4	40
456	A Solid-State Protein Junction Serves as a Bias-Induced Current Switch. <i>Angewandte Chemie</i> , 2019 , 131, 11978-11985	3.6	

455	Halide Perovskites: Is It All about the Interfaces?. <i>Chemical Reviews</i> , 2019 , 119, 3349-3417	68.1	287
454	Unprecedented efficient electron transport across Au nanoparticles with up to 25-nm insulating SiO ₂ -shells. <i>Scientific Reports</i> , 2019 , 9, 18336	4.9	6
453	Backbone-Constrained Peptides: Temperature and Secondary Structure Affect Solid-State Electron Transport. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10951-10958	3.4	1
452	What Limits the Open-Circuit Voltage of Bromide Perovskite-Based Solar Cells?. <i>ACS Energy Letters</i> , 2019 , 4, 1-7	20.1	58
451	How SnF ₂ Impacts the Material Properties of Lead-Free Tin Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13926-13936	3.8	126
450	Synergistic Effect of Charge Generation and Separation in Epitaxially Grown BiOCl/BiS Nano-Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15304-15313	9.5	64
449	Electronic structure of dipeptides in the gas-phase and as an adsorbed monolayer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6860-6867	3.6	8
448	Effect of Internal Heteroatoms on Level Alignment at Metal/Molecular Monolayer/Si Interfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3312-3325	3.8	6
447	Self-Healing Inside APbBr Halide Perovskite Crystals. <i>Advanced Materials</i> , 2018 , 30, 1706273	24	99
446	Protein bioelectronics: a review of what we do and do not know. <i>Reports on Progress in Physics</i> , 2018 , 81, 026601	14.4	123
445	Tunneling explains efficient electron transport via protein junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E4577-E4583	11.5	53
444	What Remains Unexplained about the Properties of Halide Perovskites?. <i>Advanced Materials</i> , 2018 , 30, e1800691	24	174
443	Direct evidence for heme-assisted solid-state electronic conduction in multi-heme -type cytochromes. <i>Chemical Science</i> , 2018 , 9, 7304-7310	9.4	27
442	Revisiting Electrochemical Reduction of CO ₂ on Cu Electrode: Where Do We Stand about the Intermediates?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18528-18536	3.8	20
441	Understanding how excess lead iodide precursor improves halide perovskite solar cell performance. <i>Nature Communications</i> , 2018 , 9, 3301	17.4	173
440	Control over Self-Doping in High Band Gap Perovskite Films. <i>Advanced Energy Materials</i> , 2018 , 8, 1800398	1.8	17
439	Transistor configuration yields energy level control in protein-based junctions. <i>Nanoscale</i> , 2018 , 10, 21712-21720	12.7	10
438	Plasmonics Yields Efficient Electron Transport via Assembly of Shell-Insulated Au Nanoparticles. <i>Science</i> , 2018 , 361, 213-221	6.1	22

437	Interface Electrostatics Dictates the Electron Transport via Bioelectronic Junctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41599-41607	9.5	14
436	On the influence of multiple cations on the in-gap states and phototransport properties of iodide-based halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24444-24452	3.6	18
435	Can fluorine-doped tin Oxide, FTO, be more like indium-doped tin oxide, ITO? Reducing FTO surface roughness by introducing additional SnO ₂ coating. <i>MRS Communications</i> , 2018 , 8, 1358-1362	2.7	11
434	Protein Electronics: Chemical Modulation of Contacts Control Energy Level Alignment in Gold-Azurin-Gold Junctions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13317-13326	16.4	35
433	Can we use time-resolved measurements to get steady-state transport data for halide perovskites?. <i>Journal of Applied Physics</i> , 2018 , 124, 103103	2.5	32
432	CsPbBr and CH ₃ NH ₃ PbBr promote visible-light photo-reactivity. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16847-16852	3.6	2
431	Electronic structure of the CsPbBr ₃ /polytriarylamine (PTAA) system. <i>Journal of Applied Physics</i> , 2017 , 121, 035304	2.5	74
430	Type-inversion as a working mechanism of high voltage MAPbBr(Cl)-based halide perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5753-5762	3.6	18
429	Chemical Modification of Semiconductor Surfaces for Molecular Electronics. <i>Chemical Reviews</i> , 2017 , 117, 4624-4666	68.1	139
428	Large-Area, Ensemble Molecular Electronics: Motivation and Challenges. <i>Chemical Reviews</i> , 2017 , 117, 4248-4286	68.1	221
427	Tetragonal CH ₃ NH ₃ PbI ₃ is ferroelectric. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5504-E5512	11.5	187
426	New insights into the nanostructure of innovative thin film solar cells gained by positron annihilation spectroscopy. <i>Journal of Physics: Conference Series</i> , 2017 , 791, 012021	0.3	1
425	Self-Repairing Energy Materials: Sine Qua Non for a Sustainable Future. <i>Accounts of Chemical Research</i> , 2017 , 50, 573-576	24.3	15
424	Laplace current deep level transient spectroscopy measurements of defect states in methylammonium lead bromide single crystals. <i>Journal of Applied Physics</i> , 2017 , 122, 145701	2.5	39
423	What Is the Mechanism of MAPbI ₃ p-Doping by I ₂ ? Insights from Optoelectronic Properties. <i>ACS Energy Letters</i> , 2017 , 2, 2408-2414	20.1	58
422	Metal to Halide Perovskite (HaP): An Alternative Route to HaP Coating, Directly from Pb(0) or Sn(0) Films. <i>Chemistry of Materials</i> , 2017 , 29, 8620-8629	9.6	9
421	Deleterious Effect of Negative Capacitance on the Performance of Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 2007-2013	20.1	47
420	Conversion of Single Crystalline PbI ₂ to CH ₃ NH ₃ PbI ₃ : Structural Relations and Transformation Dynamics. <i>Chemistry of Materials</i> , 2016 , 28, 6501-6510	9.6	58

419	Low-Temperature Solution-Grown CsPbBr ₃ Single Crystals and Their Characterization. <i>Crystal Growth and Design</i> , 2016 , 16, 5717-5725	3.5	256
418	Tuning electronic transport via hepta-alanine peptides junction by tryptophan doping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10785-90	11.5	57
417	Advances in Perovskite Solar Cells. <i>Advanced Science</i> , 2016 , 3, 1500324	13.6	397
416	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI ₃ Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16399-16411	3.8	106
415	High-Work-Function Molybdenum Oxide Hole Extraction Contacts in Hybrid Organic-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31491-31499	9.5	116
414	Interface Modification by Simple Organic Salts Improves Performance of Planar Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600506	4.6	5
413	CsSnBr ₃ , A Lead-Free Halide Perovskite for Long-Term Solar Cell Application: Insights on SnF ₂ Addition. <i>ACS Energy Letters</i> , 2016 , 1, 1028-1033	20.1	187
412	Hybrid organic/inorganic perovskites: low-cost semiconductors with intriguing charge-transport properties. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	912
411	Effects of Light and Electron Beam Irradiation on Halide Perovskites and Their Solar Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 347-54	24.3	117
410	Towards nanometer-spaced silicon contacts to proteins. <i>Nanotechnology</i> , 2016 , 27, 115302	3.4	11
409	Cesium Enhances Long-Term Stability of Lead Bromide Perovskite-Based Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 167-72	6.4	665
408	Impedance Spectroscopic Indication for Solid State Electrochemical Reaction in (CH ₃ NH ₃)PbI ₃ Films. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 191-7	6.4	71
407	Valence and Conduction Band Densities of States of Metal Halide Perovskites: A Combined Experimental-Theoretical Study. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2722-9	6.4	264
406	CH ₃ NH ₃ PbBr ₃ is not pyroelectric, excluding ferroelectric-enhanced photovoltaic performance. <i>APL Materials</i> , 2016 , 4, 051101	5.7	35
405	Mobility-Lifetime Products in MAPbI Films. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5219-5226	6.4	51
404	Electron transport via a soluble photochromic photoreceptor. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25671-25675	3.6	3
403	Making the science of interfaces work for semiconductor electronics. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 391001	3	2
402	Perovskite Solar Cells: Do We Know What We Do Not Know?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 279-82	6.4	65

401	Electronic Transport via Homopeptides: The Role of Side Chains and Secondary Structure. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9617-26	16.4	81
400	Light-Induced Increase of Electron Diffusion Length in a p-n Junction Type CH ₃ NH ₃ PbBr ₃ Perovskite Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2469-76	6.4	75
399	How Important Is the Organic Part of Lead Halide Perovskite Photovoltaic Cells? Efficient CsPbBr ₃ Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2452-6	6.4	771
398	Electron Transfer Proteins as Electronic Conductors: Significance of the Metal and Its Binding Site in the Blue Cu Protein, Azurin. <i>Advanced Science</i> , 2015 , 2, 1400026	13.6	26
397	Rain on Methylammonium Lead Iodide Based Perovskites: Possible Environmental Effects of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1543-7	6.4	323
396	Insights into Solid-State Electron Transport through Proteins from Inelastic Tunneling Spectroscopy: The Case of Azurin. <i>ACS Nano</i> , 2015 , 9, 9955-63	16.7	43
395	Thiophene-modified perylenediimide as hole transporting material in hybrid lead bromide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20305-20312	13	21
394	Mode-selective vibrational modulation of charge transport in organic electronic devices. <i>Nature Communications</i> , 2015 , 6, 7880	17.4	61
393	Conjugated Cofactor Enables Efficient Temperature-Independent Electronic Transport Across ~6 nm Long Halorhodopsin. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11226-9	16.4	21
392	Effect of binding group on hybridization across the silicon/aromatic-monolayer interface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 204, 149-158	1.7	7
391	Are Mobilities in Hybrid Organic-Inorganic Halide Perovskites Actually "High"?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4754-7	6.4	167
390	Mechanical properties of APbX ₃ (A = Cs or CH ₃ NH ₃ ; X= I or Br) perovskite single crystals. <i>MRS Communications</i> , 2015 , 5, 623-629	2.7	195
389	Protein Electronic Conductors: Hemin-Substrate Bonding Dictates Transport Mechanism and Efficiency across Myoglobin. <i>Angewandte Chemie</i> , 2015 , 127, 12556-12560	3.6	1
388	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015 , 27, 5102-12	24	325
387	Protein electronic conductors: hemin-substrate bonding dictates transport mechanism and efficiency across myoglobin. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12379-83	16.4	11
386	Ultrafast Optical Control of Charge Dynamics in Organic and Hybrid Electronic Nanodevices. <i>Springer Proceedings in Physics</i> , 2015 , 675-678	0.2	
385	Elucidating the charge carrier separation and working mechanism of CH ₃ NH ₃ PbI _(3-x) Cl _(x) perovskite solar cells. <i>Nature Communications</i> , 2014 , 5, 3461	17.4	461
384	Updated assessment of possibilities and limits for solar cells. <i>Advanced Materials</i> , 2014 , 26, 1622-8	24	90

383	Why lead methylammonium tri-iodide perovskite-based solar cells require a mesoporous electron transporting scaffold (but not necessarily a hole conductor). <i>Nano Letters</i> , 2014 , 14, 1000-4	11.5	505
382	Chloride Inclusion and Hole Transport Material Doping to Improve Methyl Ammonium Lead Bromide Perovskite-Based High Open-Circuit Voltage Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 429-33	6.4	309
381	Electronic transport via proteins. <i>Advanced Materials</i> , 2014 , 26, 7142-61	24	146
380	Morphology-, synthesis- and doping-independent tuning of ZnO work function using phenylphosphonates. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8310-9	3.6	36
379	Surface Photovoltage Spectroscopy Study of Organo-Lead Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2408-13	6.4	75
378	Nanoscale electron transport and photodynamics enhancement in lipid-depleted bacteriorhodopsin monomers. <i>ACS Nano</i> , 2014 , 8, 7714-22	16.7	21
377	Crystallization of methyl ammonium lead halide perovskites: implications for photovoltaic applications. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13249-56	16.4	345
376	Solid-state electron transport via cytochrome c depends on electronic coupling to electrodes and across the protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5556-61	11.5	47
375	Preparation of Single-Phase Films of CH ₃ NH ₃ Pb(I _{1-x} Br _x) ₃ with Sharp Optical Band Edges. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2501-5	6.4	347
374	Enhancing the tunability of the open-circuit voltage of hybrid photovoltaics with mixed molecular monolayers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2317-24	9.5	4
373	n-Si/Organic Inversion Layer Interfaces: A Low Temperature Deposition Method for Forming a p/n Homojunction in n-Si. <i>Advanced Energy Materials</i> , 2014 , 4, 1301724	21.8	54
372	Fabrication of reproducible, integration-compatible hybrid molecular/si electronics. <i>Small</i> , 2014 , 10, 5151-60	16.0	18
371	Odd-even effect in molecular electronic transport via an aromatic ring. <i>Langmuir</i> , 2014 , 30, 13596-605	4	29
370	Effect of chemical treatments on nm-scale electrical characteristics of polycrystalline thin film Cu(In,Ga)Se ₂ surfaces. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 500-505	6.4	20
369	Interface energetics in organo-metal halide perovskite-based photovoltaic cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1377	35.4	554
368	Effect of Molecule-Surface Reaction Mechanism on the Electronic Characteristics and Photovoltaic Performance of Molecularly Modified Si. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22351-22361	3.8	21
367	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. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17142-9	3.6	35
366	A New Route to Nondestructive Top-Contacts for Molecular Electronics on Si: Pb Evaporated on Organic Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 426-30	6.4	23

365	40 Years of Inversion Layer Solar Cells: From MOS to Conducting Polymer/Inorganic Hybrids. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 1443-1459	3.7	20
364	Mono-fluorinated alkyne-derived SAMs on oxide-free Si(111) surfaces: preparation, characterization and tuning of the Si workfunction. <i>Langmuir</i> , 2013 , 29, 570-80	4	34
363	O2 and organic semiconductors: Electronic effects. <i>Organic Electronics</i> , 2013 , 14, 966-972	3.5	28
362	The effect of structural order on solar cell parameters, as illustrated in a SiC-organic junction model. <i>Energy and Environmental Science</i> , 2013 , 6, 3272	35.4	8
361	Electron transport via cytochrome c on Si-H surfaces: roles of Fe and heme. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6300-6	16.4	27
360	High Open-Circuit Voltage Solar Cells Based on Organic-Inorganic Lead Bromide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 897-902	6.4	438
359	Separating Charges at Organic Interfaces: Effects of Disorder, Hot States, and Electric Field. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1707-17	6.4	59
358	Effect of Doping Density on the Charge Rearrangement and Interface Dipole at the Molecule/Silicon Interface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22422-22427	3.8	12
357	Rethinking transition voltage spectroscopy within a generic Taylor expansion view. <i>ACS Nano</i> , 2013 , 7, 695-706	16.7	50
356	Photocontrol of Electrical Conductance with a Nonsymmetrical Azobenzene Dithiol. <i>Synlett</i> , 2013 , 24, 2370-2374	2.2	8
355	Substituent variation drives metal/monolayer/semiconductor junctions from strongly rectifying to ohmic behavior. <i>Advanced Materials</i> , 2013 , 25, 702-6	24	30
354	Marked changes in electron transport through the blue copper protein azurin in the solid state upon deuteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 507-12	11.5	46
353	Molecular field effect passivation: Quinhydrone/methanol treatment of n-Si(100). <i>Journal of Applied Physics</i> , 2013 , 113, 084909	2.5	14
352	Proteins as "dopable" bio-electronic materials 2013 ,		2
351	Chemical compositional non-uniformity and its effects on CIGS solar cell performance at the nm-scale. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 78-82	6.4	10
350	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. <i>IEEE Journal of Photovoltaics</i> , 2012 , 2, 191-195	3.7	18
349	Hybrids of organic molecules and flat, oxide-free silicon: high-density monolayers, electronic properties, and functionalization. <i>Langmuir</i> , 2012 , 28, 9920-9	4	98
348	Structure Matters: Correlating temperature dependent electrical transport through alkyl monolayers with vibrational and photoelectron spectroscopies. <i>Chemical Science</i> , 2012 , 3, 851-862	9.4	42

347	A novel method for investigating electrical breakdown enhancement by nm-sized features. <i>Nanoscale</i> , 2012 , 4, 3128-34	7.7	4
346	Molecular length, monolayer density, and charge transport: lessons from Al- AlO_x /alkyl-phosphonate/Hg junctions. <i>Langmuir</i> , 2012 , 28, 404-15	4	58
345	Doping human serum albumin with retinoate markedly enhances electron transport across the protein. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18221-4	16.4	28
344	Controlling Space Charge of Oxide-Free Si by in Situ Modification of Dipolar Alkyl Monolayers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11434-11443	3.8	21
343	Temperature and force dependence of nanoscale electron transport via the Cu protein azurin. <i>ACS Nano</i> , 2012 , 6, 10816-24	16.7	54
342	All-solid-state, semiconductor-sensitized nanoporous solar cells. <i>Accounts of Chemical Research</i> , 2012 , 45, 705-13	24.3	91
341	Aluminum oxide-Si field effect inversion layer solar cells with organic top contact. <i>Applied Physics Letters</i> , 2012 , 101, 233901	3.4	26
340	Temperature-dependent solid-state electron transport through bacteriorhodopsin: experimental evidence for multiple transport paths through proteins. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4169-76	16.4	49
339	Ambient organic molecular passivation of Si yields near-ideal, Schottky-Mott limited, junctions. <i>AIP Advances</i> , 2012 , 2, 012164	1.5	38
338	Photovoltaic efficiency limits and material disorder. <i>Energy and Environmental Science</i> , 2012 , 5, 6022	35.4	134
337	Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. <i>Physical Review B</i> , 2012 , 85,	3.3	48
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