Juan Bisquert

List of Publications by Year
in descending order

432 papers	51,762 citations	1046 113 h-index	1568 217 g-index
440 all docs	440 docs citations	440 times ranked	32110 citing authors

#	Article	IF	Citations
1	Interpretation of Mottâ€“Schottky plots of photoanodes for water splitting. Chemical Science, 2022, 13, 4828-4837.	7.4	24
2	Enhancing the Electronic Properties and Stability of High-Efficiency Tinâ€“Lead Mixed Halide Perovskite Solar Cells via Doping Engineering. Journal of Physical Chemistry Letters, 2022, 13, 3130-3137.	4.6	12
3	Hopf bifurcations in electrochemical, neuronal, and semiconductor systems analysis by impedance spectroscopy. Applied Physics Reviews, 2022, 9, .	11.3	26
4	Chemical Inductor. Journal of the American Chemical Society, 2022, 144, 5996-6009.	13.7	49
5	Physical Model for the Currentâ€“Voltage Hysteresis and Impedance of Halide Perovskite Memristors. ACS Energy Letters, 2022, 7, 1214-1222.	17.4	47
6	Dynamic Instability and Time Domain Response of a Model Halide Perovskite Memristor for Artificial Neurons. Journal of Physical Chemistry Letters, 2022, 13, 3789-3795.	4.6	26
7	Limited information of impedance spectroscopy about electronic diffusion transport: The case of perovskite solar cells. APL Materials, 2022, 10, .	5.1	8
8	Negative Transient Spikes in Halide Perovskites. ACS Energy Letters, 2022, 7, 2602-2610.	17.4	22
9	Improved solar water splitting performance of BiVO4 photoanode by the synergistic effect of Zr-Mo co-doping and FeOOH Co-catalyst layer. Materials Letters, 2022, 325, 132799.	2.6	5
10	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. ACS Applied Energy Materials, 2021, 4, 1078-1084.	5.1	9
11	Spectral properties of the dynamic state transition in metal halide perovskite-based memristor exhibiting negative capacitance. Applied Physics Letters, 2021, 118, .	3.3	33
12	Highâ€Efficiency Digital Inkjetâ€Printed Nonâ€Fullerene Polymer Blends Using Nonâ€Halogenated Solvents. Advanced Energy and Sustainability Research, 2021, 2, 2000086.	5.8	16
13	Extracting in Situ Charge Carrier Diffusion Parameters in Perovskite Solar Cells with Light Modulated Techniques. ACS Energy Letters, 2021, 6, 2248-2255.	17.4	28
14	Unprecedented solar water splitting of dendritic nanostructured Bi2O3 films by combined oxygen vacancy formation and Na2MoO4 doping. International Journal of Hydrogen Energy, 2021, 46, 23702-23714.	7.1	11
15	High-Efficiency Lead-Free Wide Band Gap Perovskite Solar Cells via Guanidinium Bromide Incorporation. ACS Applied Energy Materials, 2021, 4, 5615-5624.	5.1	19
16	Recycled Photons Traveling Several Millimeters in Waveguides Based on CsPbBr₃ Perovskite Nanocrystals. Advanced Optical Materials, 2021, 9, 2100807.	7.3	7
17	Locating the Frequency of Turnover in Thin-Film Diffusion Impedance. Journal of Physical Chemistry C, 2021, 125, 15737-15741.	3.1	10
18	Theory of Hysteresis in Halide Perovskites by Integration of the Equivalent Circuit. ACS Physical Chemistry Au, 2021, 1, 25-44.	4.0	35

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19	Unique Curve for the Radiative Photovoltage Deficit Caused by the Urbach Tail. Journal of Physical Chemistry Letters, 2021, 12, 7840-7845.	4.6	9
20	From Frequency Domain to Time Transient Methods for Halide Perovskite Solar Cells: The Connections of IMPS, IMVS, TPC, and TPV. Journal of Physical Chemistry Letters, 2021, 12, 7964-7971.	4.6	34
21	Impedance Spectroscopy Dynamics of Biological Neural Elements: From Memristors to Neurons and Synapses. Journal of Physical Chemistry B, 2021, 125, 9934-9949.	2.6	32
22	A Frequency Domain Analysis of the Excitability and Bifurcations of the FitzHughâ€“Nagumo Neuron Model. Journal of Physical Chemistry Letters, 2021, 12, 11005-11013.	4.6	18
23	Impedance Spectroscopy of Metal Halide Perovskite Solar Cells from the Perspective of Equivalent Circuits. Chemical Reviews, 2021, 121, 14430-14484.	47.7	121
24	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesdenâ€“Popper Perovskites for Non-volatile Memories. Journal of Physical Chemistry Letters, 2020, 11, 463-470.	4.6	90
25	Intensity-Modulated Photocurrent Spectroscopy for Solar Energy Conversion Devices: What Does a Negative Value Mean?. ACS Energy Letters, 2020, 5, 187-191.	17.4	23
26	Progress in Perovskite Photocatalysis. ACS Energy Letters, 2020, 5, 2602-2604.	17.4	83
27	Beyond Impedance Spectroscopy of Perovskite Solar Cells: Insights from the Spectral Correlation of the Electrooptical Frequency Techniques. Journal of Physical Chemistry Letters, 2020, 11, 8654-8659.	4.6	76
28	Highly porous Tiâ€“Ni anodes for electrochemical oxidations. Sustainable Energy and Fuels, 2020, 4, 4003-4007.	4.9	1
29	In Situ Spectroscopic Ellipsometry for Thermochromic CsPbI₃ Phase Evolution Portfolio. Journal of Physical Chemistry C, 2020, 124, 8008-8014.	3.1	11
30	Removing Instability-Caused Low-Frequency Features in Small Perturbation Spectra of Perovskite Solar Cells. Journal of Physical Chemistry C, 2020, 124, 15793-15799.	3.1	13
31	The JPC Periodic Table. Journal of Physical Chemistry A, 2019, 123, 5837-5848.	2.5	2
32	The JPC Periodic Table. Journal of Physical Chemistry B, 2019, 123, 5973-5984.	2.6	1
33	The JPC Periodic Table. Journal of Physical Chemistry C, 2019, 123, 17063-17074.	3.1	1
34	The JPC Periodic Table. Journal of Physical Chemistry Letters, 2019, 10, 4051-4062.	4.6	2
35	Potassium ions as a kinetic controller in ionic double layers for hysteresis-free perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 18807-18815.	10.3	54
36	Crystalline Clear or Not: Beneficial and Harmful Effects of Water in Perovskite Solar Cells. ChemPhysChem, 2019, 20, 2587-2599.	2.1	22

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37	Hybrid Assemblies for Lightâ€Energy Conversion. ChemPhysChem, 2019, 20, 2579-2579.	2.1	1
38	TiO₂ Nanotubes for Solar Water Splitting: Vacuum Annealing and Zr Doping Enhance Water Oxidation Kinetics. ACS Omega, 2019, 4, 16095-16102.	3.5	24
39	Impedance spectroscopy of perovskite/contact interface: Beneficial chemical reactivity effect. Journal of Chemical Physics, 2019, 151, 124201.	3.0	34
40	Understanding the Improvement in the Stability of a Self-Assembled Multiple-Quantum Well Perovskite Light-Emitting Diode. Journal of Physical Chemistry Letters, 2019, 10, 6857-6864.	4.6	42
41	Intensity-Modulated Photocurrent Spectroscopy and Its Application to Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 24995-25014.	3.1	52
42	Photocurrents in crystalâ€amorphous hybrid stannous oxide/alumina binary nanofibers. Journal of the American Ceramic Society, 2019, 102, 6337-6348.	3.8	13
43	Kinetic and material properties of interfaces governing slow response and long timescale phenomena in perovskite solar cells. Energy and Environmental Science, 2019, 12, 2054-2079.	30.8	158
44	Suppressing H₂ Evolution and Promoting Selective CO₂ Electroreduction to CO at Low Overpotentials by Alloying Au with Pd. ACS Catalysis, 2019, 9, 3527-3536.	11.2	79
45	Electronic Effects Determine the Selectivity of Planar Auâ€“Cu Bimetallic Thin Films for Electrochemical CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 16546-16555.	8.0	71
46	Perovskite Solar Cell Modeling Using Light- and Voltage-Modulated Techniques. Journal of Physical Chemistry C, 2019, 123, 6444-6449.	3.1	61
47	Ionic Effect Enhances Light Emission and the Photovoltage of Methylammonium Lead Bromide Perovskite Solar Cells by Reduced Surface Recombination. ACS Energy Letters, 2019, 4, 741-746.	17.4	39
48	JPCL: A Dynamic Journal with a Global Reach. Journal of Physical Chemistry Letters, 2019, 10, 113-114.	4.6	0
49	Tailoring Crystal Structure of FA_{0.83}Cs_{0.17}PbI₃ Perovskite Through Guanidinium Doping for Enhanced Performance and Tunable Hysteresis of Planar Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1806479.	14.9	87
50	Switching Off Hysteresis in Perovskite Solar Cells by Fineâ€Tuning Energy Levels of Extraction Layers. Advanced Energy Materials, 2018, 8, 1703376.	19.5	46
51	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. Scientific Reports, 2018, 8, 2482.	3.3	62
52	Device Physics of Hybrid Perovskite Solar cells: Theory and Experiment. Advanced Energy Materials, 2018, 8, 1702772.	19.5	186
53	Imidazolium Iodide-Doped PEDOT Nanofibers as Conductive Catalysts for Highly Efficient Solid-State Dye-Sensitized Solar Cells Employing Polymer Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 2537-2545.	8.0	9
54	Editorial: 2017 in Perspective. Journal of Physical Chemistry Letters, 2018, 9, 138-140.	4.6	0

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55	Analysis of the Influence of Selective Contact Heterojunctions on the Performance of Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 13920-13925.	3.1	20
56	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. Joule, 2018, 2, 788-798.	24.0	187
57	Impedance Spectroscopy in Molecular Devices. Green Chemistry and Sustainable Technology, 2018, , 353-384.	0.7	4
58	Semiconductor Î±â€Fe₂O₃ Hematite Fabricated Electrode for Sensitive Detection of Phenolic Pollutants. ChemistrySelect, 2018, 3, 12169-12174.	1.5	4
59	Unravelling the role of vacancies in lead halide perovskite through electrical switching of photoluminescence. Nature Communications, 2018, 9, 5113.	12.8	196
60	Insight into Photon Recycling in Perovskite Semiconductors from the Concept of Photon Diffusion. Physical Review Applied, 2018, 10, .	3.8	20
61	Top Selected Papers in the Physical Chemistry of Energy Materials 2016â€“2017. Journal of Physical Chemistry Letters, 2018, 9, 5897-5905.	4.6	0
62	Quantum dot-sensitized solar cells. Chemical Society Reviews, 2018, 47, 7659-7702.	38.1	344
63	Crystalline-Size Dependence of Dual Emission Peak on Hybrid Organic Lead-Iodide Perovskite Films at Low Temperatures. Journal of Physical Chemistry C, 2018, 122, 22717-22727.	3.1	7
64	Effects of Frequency Dependence of the External Quantum Efficiency of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 3099-3104.	4.6	59
65	Quantification of Ionic Diffusion in Lead Halide Perovskite Single Crystals. ACS Energy Letters, 2018, 3, 1477-1481.	17.4	123
66	Enhancing the Optical Absorption and Interfacial Properties of BiVO₄ with Ag₃PO₄ Nanoparticles for Efficient Water Splitting. Journal of Physical Chemistry C, 2018, 122, 11608-11615.	3.1	44
67	Advances and Obstacles on Perovskite Solar Cell Research from Material Properties to Photovoltaic Function. ACS Energy Letters, 2017, 2, 520-523.	17.4	38
68	Changes from Bulk to Surface Recombination Mechanisms between Pristine and Cycled Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 681-688.	17.4	122
69	Surface Polarization Model for the Dynamic Hysteresis of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2017, 8, 915-921.	4.6	122
70	Lead-Free Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 904-905.	17.4	158
71	Perovskite semiconductors for photoelectrochemical water splitting applications. Current Opinion in Electrochemistry, 2017, 2, 144-147.	4.8	37
72	Effects of Ion Distributions on Charge Collection in Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1450-1453.	17.4	45

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73	Hydrazine sensors development based on a glassy carbon electrode modified with a nanostructured TiO2 films by electrochemical approach. Mikrochimica Acta, 2017, 184, 2123-2129.	5.0	53
74	Photovoltage Behavior in Perovskite Solar Cells under Light-Soaking Showing Photoinduced Interfacial Changes. ACS Energy Letters, 2017, 2, 950-956.	17.4	83
75	Outstanding Reviewers for Energy & Environmental Science in 2016. Energy and Environmental Science, 2017, 10, 845-845.	30.8	0
76	Inductive Loop in the Impedance Response of Perovskite Solar Cells Explained by Surface Polarization Model. Journal of Physical Chemistry Letters, 2017, 8, 1402-1406.	4.6	129
77	Triumphing over Charge Transfer Limitations of PEDOT Nanofiber Reduction Catalyst by 1,2-Ethanedithiol Doping for Quantum Dot Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 1877-1884.	8.0	15
78	The JPCL New Yearâ€™s Editorial. Journal of Physical Chemistry Letters, 2017, 8, 41-41.	4.6	0
79	Investigating the Consistency of Models for Water Splitting Systems by Light and Voltage Modulated Techniques. Journal of Physical Chemistry Letters, 2017, 8, 172-180.	4.6	45
80	Guanidinium thiocyanate selective Ostwald ripening induced large grain for high performance perovskite solar cells. Nano Energy, 2017, 41, 476-487.	16.0	184
81	Realâ€Time Observation of Iodide Ion Migration in Methylammonium Lead Halide Perovskites. Small, 2017, 13, 1701711.	10.0	148
82	Perspective Collections in the Limelight. Journal of Physical Chemistry Letters, 2017, 8, 5239-5239.	4.6	0
83	In the Limelight. Journal of Physical Chemistry Letters, 2017, 8, 3925-3925.	4.6	0
84	Tunable hysteresis effect for perovskite solar cells. Energy and Environmental Science, 2017, 10, 2383-2391.	30.8	188
85	Theory of Light-Modulated Emission Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 3673-3677.	4.6	3
86	In the Limelight. Journal of Physical Chemistry Letters, 2017, 8, 3718-3719.	4.6	0
87	In the Limelight: Perspective Collections on Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 5688-5688.	4.6	0
88	Toward Highâ€Temperature Stability of PTB7â€Based Bulk Heterojunction Solar Cells: Impact of Fullerene Size and Solvent Additive. Advanced Energy Materials, 2017, 7, 1601486.	19.5	53
89	Overcoming Charge Collection Limitation at Solid/Liquid Interface by a Controllable Crystal Deficient Overlayer. Advanced Energy Materials, 2017, 7, 1600923.	19.5	61
90	Space-Charge-Limited Transport. , 2017, , 117-130.		0

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91	Impedance and Capacitance Spectroscopies. , 2017, , 131-158.		0
92	Drift-Diffusion Transport. , 2017, , 35-58.		0
93	Carrier Injection and Drift Transport. , 2017, , 1-19.		0
94	Ionic Reactivity at Contacts and Aging of Methylammonium Lead Triiodide Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1502246.	19.5	281
95	Understanding the synergistic effect of WO3â€“BiVO4 heterostructures by impedance spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 9255-9261.	2.8	41
96	Properties of Contact and Bulk Impedances in Hybrid Lead Halide Perovskite Solar Cells Including Inductive Loop Elements. Journal of Physical Chemistry C, 2016, 120, 8023-8032.	3.1	407
97	Co₃O₄ Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study. Journal of Physical Chemistry C, 2016, 120, 9053-9060.	3.1	22
98	Trends of Scientific Publication. Journal of Physical Chemistry Letters, 2016, 7, 1703-1703.	4.6	1
99	Analysis of Photoelectrochemical Systems by Impedance Spectroscopy. , 2016, , 281-321.		9
100	Origin of high open-circuit voltage in solid state dye-sensitized solar cells employing polymer electrolyte. Nano Energy, 2016, 28, 455-461.	16.0	24
101	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. Physics Reports, 2016, 653, 1-40.	25.6	166
102	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11%. Journal of Physical Chemistry Letters, 2016, 7, 3103-3111.	4.6	169
103	Combinatorial Investigation and Modelling of MoO₃ Holeâ€Selective Contact in TiO₂|Co₃O₄|MoO₃ Allâ€Oxide Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500405.	3.7	48
104	Cooperative Catalytic Effect of ZrO₂ and Î±â€Fe₂O₃ Nanoparticles on BiVO₄ Photoanodes for Enhanced Photoelectrochemical Water Splitting. ChemSusChem, 2016, 9, 2779-2783.	6.8	42
105	Distinction between Capacitive and Noncapacitive Hysteretic Currents in Operation and Degradation of Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 683-688.	17.4	79
106	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. Journal of Physical Chemistry Letters, 2016, 7, 5105-5113.	4.6	346
107	Impedance Characteristics of Hybrid Organometal Halide Perovskite Solar Cells. , 2016, , 163-199.		9
108	Dynamic Phenomena at Perovskite/Electron-Selective Contact Interface as Interpreted from Photovoltage Decays. CheM, 2016, 1, 776-789.	11.7	153

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109	Light-Induced Space-Charge Accumulation Zone as Photovoltaic Mechanism in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 525-528.	4.6	243
110	Electron-Transfer Kinetics through Interfaces between Electron-Transport and Ion-Transport Layers in Solid-State Dye-Sensitized Solar Cells Utilizing Solid Polymer Electrolyte. Journal of Physical Chemistry C, 2016, 120, 2494-2500.	3.1	13
111	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. Electrochimica Acta, 2016, 187, 249-255.	5.2	79
112	Room temperature stable ClPrNTf2 ionic liquid utilizing for chemical sensor development. Journal of Organometallic Chemistry, 2016, 811, 74-80.	1.8	4
113	Consolidation and Expansion of Perovskite Solar Cell Research. Journal of Physical Chemistry Letters, 2016, 7, 775-775.	4.6	5
114	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. ACS Nano, 2016, 10, 218-224.	14.6	427
115	Charge transfer processes at the semiconductor/electrolyte interface for solar fuel production: insight from impedance spectroscopy. Journal of Materials Chemistry A, 2016, 4, 2873-2879.	10.3	94
116	Characterization of Capacitance, Transport and Recombination Parameters in Hybrid Perovskite and Organic Solar Cells. RSC Energy and Environment Series, 2016, , 57-106.	0.5	9
117	Temperature Effects on the Photovoltaic Performance of Planar Structure Perovskite Solar Cells. Chemistry Letters, 2015, 44, 1557-1559.	1.3	83
118	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. Advanced Materials, 2015, 27, 6157-6162.	21.0	83
119	Consistent formulation of the crossover from density to velocity dependent recombination in organic solar cells. Applied Physics Letters, 2015, 107, 073301.	3.3	6
120	Defect migration in methylammonium lead iodide and its role in perovskite solar cell operation. Energy and Environmental Science, 2015, 8, 2118-2127.	30.8	1,278
121	Impact of Capacitive Effect and Ion Migration on the Hysteretic Behavior of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 4693-4700.	4.6	335
122	Band Engineering in Core/Shell ZnTe/CdSe for Photovoltage and Efficiency Enhancement in Exciplex Quantum Dot Sensitized Solar Cells. ACS Nano, 2015, 9, 908-915.	14.6	241
123	Classification of solar cells according to mechanisms of charge separation and charge collection. Physical Chemistry Chemical Physics, 2015, 17, 4007-4014.	2.8	102
124	High reduction of interfacial charge recombination in colloidal quantum dot solar cells by metal oxide surface passivation. Nanoscale, 2015, 7, 5446-5456.	5.6	82
125	Cooperative kinetics of depolarization in CH₃NH₃PbI₃ perovskite solar cells. Energy and Environmental Science, 2015, 8, 910-915.	30.8	116
126	Toward Stable Solar Hydrogen Generation Using Organic Photoelectrochemical Cells. Journal of Physical Chemistry C, 2015, 119, 6488-6494.	3.1	61

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127	Science in the Age of Digital Networking. Journal of Physical Chemistry Letters, 2015, 6, 2900-2901.	4.6	0
128	Modulating the interaction between gold and TiO₂nanowires for enhanced solar driven photoelectrocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2015, 17, 19371-19378.	2.8	16
129	Capacitive Dark Currents, Hysteresis, and Electrode Polarization in Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 1645-1652.	4.6	430
130	Polarization Switching and Light-Enhanced Piezoelectricity in Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 1408-1413.	4.6	189
131	Boosting Power Conversion Efficiencies of Quantum-Dot-Sensitized Solar Cells Beyond 8% by Recombination Control. Journal of the American Chemical Society, 2015, 137, 5602-5609.	13.7	367
132	A high-capacity Li[Ni_{0.8}Co_{0.06}Mn_{0.14}]O₂positive electrode with a dual concentration gradient for next-generation lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 22183-22190.	10.3	84
133	Surface Modification of TiO₂ Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 25741-25747.	8.0	29
134	Interfacial band-edge energetics for solar fuels production. Energy and Environmental Science, 2015, 8, 2851-2862.	30.8	163
135	Amorphous TiO₂ Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. Chemistry of Materials, 2015, 27, 8398-8405.	6.7	197
136	Enhanced Carrier Transport Distance in Colloidal PbS Quantum-Dot-Based Solar Cells Using ZnO Nanowires. Journal of Physical Chemistry C, 2015, 119, 27265-27274.	3.1	65
137	Control of Iâ€“V Hysteresis in CH₃NH₃PbI₃ Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2015, 6, 4633-4639.	4.6	430
138	Shelf Life Degradation of Bulk Heterojunction Solar Cells: Intrinsic Evolution of Charge Transfer Complex. Advanced Energy Materials, 2015, 5, 1401997.	19.5	32
139	Nanoscale mapping by electron energy-loss spectroscopy reveals evolution of organic solar cell contact selectivity. Organic Electronics, 2015, 16, 227-233.	2.6	25
140	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. Nano, 2014, 09, 1440005.	1.0	7
141	Charge separation at disordered semiconductor heterojunctions from random walk numerical simulations. Physical Chemistry Chemical Physics, 2014, 16, 4082.	2.8	11
142	Controlled Carbon Nitride Growth on Surfaces for Hydrogen Evolution Electrodes. Angewandte Chemie - International Edition, 2014, 53, 3654-3658.	13.8	187
143	Titanium Dioxide Nanomaterials for Photovoltaic Applications. Chemical Reviews, 2014, 114, 10095-10130.	47.7	669
144	Editorial: Hybrid Organic-Inorganic Photovoltaics. ChemPhysChem, 2014, 15, 987-989.	2.1	3

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145	Relaxation of Electron Carriers in the Density of States of Nanocrystalline TiO₂. Journal of Physical Chemistry Letters, 2014, 5, 689-694.	4.6	42
146	Low-Temperature Processed Electron Collection Layers of Graphene/TiO₂ Nanocomposites in Thin Film Perovskite Solar Cells. Nano Letters, 2014, 14, 724-730.	9.1	999
147	Diffusionâ€"Recombination Impedance Model for Solar Cells with Disorder and Nonlinear Recombination. ChemElectroChem, 2014, 1, 289-296.	3.4	105
148	Theory of Impedance Spectroscopy of Ambipolar Solar Cells with Trap-Mediated Recombination. Journal of Physical Chemistry C, 2014, 118, 16574-16580.	3.1	28
149	Energy Diagram of Semiconductor/Electrolyte Junctions. Journal of Physical Chemistry Letters, 2014, 5, 205-207.	4.6	61
150	General Working Principles of CH₃NH₃PbX₃ Perovskite Solar Cells. Nano Letters, 2014, 14, 888-893.	9.1	786
151	Germanium coating boosts lithium uptake in Si nanotube battery anodes. Physical Chemistry Chemical Physics, 2014, 16, 17930.	2.8	31
152	Probing Lithiation Kinetics of Carbon-Coated ZnFe₂O₄ Nanoparticle Battery Anodes. Journal of Physical Chemistry C, 2014, 118, 6069-6076.	3.1	62
153	Substitution of a hydroxamic acid anchor into the MK-2 dye for enhanced photovoltaic performance and water stability in a DSSC. Physical Chemistry Chemical Physics, 2014, 16, 16629-16641.	2.8	53
154	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. Journal of Physical Chemistry C, 2014, 118, 29599-29607.	3.1	56
155	New iridium complex as additive to the spiro-OMeTAD in perovskite solar cells with enhanced stability. APL Materials, 2014, 2, .	5.1	60
156	Electrical field profile and doping in planar lead halide perovskite solar cells. Applied Physics Letters, 2014, 105, .	3.3	168
157	Chemical Effects of Tin Oxide Nanoparticles in Polymer Electrolytes-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16510-16517.	3.1	56
158	Facile kinetics of Li-ion intake causes superior rate capability in multiwalled carbon nanotube@TiO2 nanocomposite battery anodes. Journal of Power Sources, 2014, 268, 397-403.	7.8	46
159	Theory of Impedance and Capacitance Spectroscopy of Solar Cells with Dielectric Relaxation, Drift-Diffusion Transport, and Recombination. Journal of Physical Chemistry C, 2014, 118, 18983-18991.	3.1	185
160	Interplay of Optical, Morphological, and Electronic Effects of ZnO Optical Spacers in Highly Efficient Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400805.	19.5	78
161	Photon Up-Conversion with Lanthanide-Doped Oxide Particles for Solar H₂ Generation. Journal of Physical Chemistry C, 2014, 118, 11279-11284.	3.1	37
162	Photoinduced Giant Dielectric Constant in Lead Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 2390-2394.	4.6	629

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163	A perspective on the production of dye-sensitized solar modules. Energy and Environmental Science, 2014, 7, 3952-3981.	30.8	381
164	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. Advanced Functional Materials, 2014, 24, 7681-7688.	14.9	289
165	Organic photoelectrochemical cells with quantitative photocarrier conversion. Energy and Environmental Science, 2014, 7, 3666-3673.	30.8	55
166	Charge separation in organic photovoltaic cells. Organic Electronics, 2014, 15, 1043-1049.	2.6	15
167	High-Efficiency â€œGreenâ€•Quantum Dot Solar Cells. Journal of the American Chemical Society, 2014, 136, 9203-9210.	13.7	547
168	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. Journal of Physical Chemistry Letters, 2014, 5, 2357-2363.	4.6	609
169	The Swift Surge of Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2013, 4, 2597-2598.	4.6	80
170	Solution-processed small molecule:fullerene bulk-heterojunction solar cells: impedance spectroscopy deduced bulk and interfacial limits to fill-factors. Physical Chemistry Chemical Physics, 2013, 15, 16456.	2.8	76
171	Solar Fuels. Photocatalytic Hydrogen Generation. Journal of Physical Chemistry C, 2013, 117, 14873-14875.	3.1	97
172	Mechanism of carrier accumulation in perovskite thin-absorber solar cells. Nature Communications, 2013, 4, 2242.	12.8	760
173	Selective contacts drive charge extraction in quantum dot solids via asymmetry in carrier transfer kinetics. Nature Communications, 2013, 4, 2272.	12.8	56
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