Juan Bisquert

List of Publications by Year in Descending Order

418 papers	45,317 citations	106 h-index	204 g-index
440 ext. papers	48,482 ext. citations	8 avg, IF	7.92 L-index

#	Paper	IF	Citations
418	Ionic/Electronic Conduction and Capacitance of Halide Perovskite Materials **2022**, 173-213		
417	Enhancing the Electronic Properties and Stability of High-Efficiency Tin-Lead Mixed Halide Perovskite Solar Cells via Doping Engineering.. *Journal of Physical Chemistry Letters*, **2022**, 13, 3130-3137	6.4	3
416	Hopf bifurcations in electrochemical, neuronal, and semiconductor systems analysis by impedance spectroscopy. *Applied Physics Reviews*, **2022**, 9, 011318	17.3	6
415	Chemical Inductor.. *Journal of the American Chemical Society*, **2022**,	16.4	10
414	Physical Model for the Current−Voltage Hysteresis and Impedance of Halide Perovskite Memristors. *ACS Energy Letters*, **2022**, 7, 1214-1222	20.1	10
413	Dynamic Instability and Time Domain Response of a Model Halide Perovskite Memristor for Artificial Neurons.. *Journal of Physical Chemistry Letters*, **2022**, 3789-3795	6.4	6
412	Limited information of impedance spectroscopy about electronic diffusion transport: The case of perovskite solar cells. *APL Materials*, **2022**, 10, 051104	5.7	1
411	A Frequency Domain Analysis of the Excitability and Bifurcations of the FitzHugh-Nagumo Neuron Model. *Journal of Physical Chemistry Letters*, **2021**, 12, 11005-11013	6.4	8
410	Impedance Spectroscopy of Metal Halide Perovskite Solar Cells from the Perspective of Equivalent Circuits. *Chemical Reviews*, **2021**, 121, 14430-14484	68.1	23
409	High-Efficiency Digital Inkjet-Printed Non-Fullerene Polymer Blends Using Non-Halogenated Solvents. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000086	1.6	6
408	Extracting Charge Carrier Diffusion Parameters in Perovskite Solar Cells with Light Modulated Techniques. *ACS Energy Letters*, **2021**, 6, 2248-2255	20.1	7
407	Unprecedented solar water splitting of dendritic nanostructured Bi2O3 films by combined oxygen vacancy formation and Na2MoO4 doping. *International Journal of Hydrogen Energy*, **2021**,	6.7	3
406	High-Efficiency Lead-Free Wide Band Gap Perovskite Solar Cells via Guanidinium Bromide Incorporation. *ACS Applied Energy Materials*, **2021**, 4, 5615-5624	6.1	4
405	Recycled Photons Traveling Several Millimeters in Waveguides Based on CsPbBr3 Perovskite Nanocrystals. *Advanced Optical Materials*, **2021**, 9, 2100807	8.1	3
404	Locating the Frequency of Turnover in Thin-Film Diffusion Impedance. *Journal of Physical Chemistry C*, **2021**, 125, 15737-15741	3.8	2
403	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. *ACS Applied Energy Materials*, **2021**, 4, 1078-1084	6.1	6
402	Spectral properties of the dynamic state transition in metal halide perovskite-based memristor exhibiting negative capacitance. *Applied Physics Letters*, **2021**, 118, 073501	3.4	11

401	Unique Curve for the Radiative Photovoltage Deficit Caused by the Urbach Tail. *Journal of Physical Chemistry Letters*, **2021**, 12, 7840-7845	6.4	4
400	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	6.4	13
399	Impedance Spectroscopy Dynamics of Biological Neural Elements: From Memristors to Neurons and Synapses. *Journal of Physical Chemistry B*, **2021**, 125, 9934-9949	3.4	11
398	Highly porous TiNi anodes for electrochemical oxidations. *Sustainable Energy and Fuels*, **2020**, 4, 4003-4007	5.8	
397	In Situ Spectroscopic Ellipsometry for Thermochromic CsPbI3 Phase Evolution Portfolio. *Journal of Physical Chemistry C*, **2020**, 124, 8008-8014	3.8	8
396	Removing Instability-Caused Low-Frequency Features in Small Perturbation Spectra of Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2020**, 124, 15793-15799	3.8	9
395	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesden-Popper Perovskites for Non-volatile Memories. *Journal of Physical Chemistry Letters*, **2020**, 11, 463-470	6.4	44
394	Intensity-Modulated Photocurrent Spectroscopy for Solar Energy Conversion Devices: What Does a Negative Value Mean?. *ACS Energy Letters*, **2020**, 5, 187-191	20.1	10
393	Progress in Perovskite Photocatalysis. *ACS Energy Letters*, **2020**, 5, 2602-2604	20.1	36
392	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	6.4	38
391	TiO Nanotubes for Solar Water Splitting: Vacuum Annealing and Zr Doping Enhance Water Oxidation Kinetics. *ACS Omega*, **2019**, 4, 16095-16102	3.9	13
390	Impedance spectroscopy of perovskite/contact interface: Beneficial chemical reactivity effect. *Journal of Chemical Physics*, **2019**, 151, 124201	3.9	21
389	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	6.4	26
388	Intensity-Modulated Photocurrent Spectroscopy and Its Application to Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2019**, 123, 24995-25014	3.8	32
387	Photocurrents in crystal-amorphous hybrid stannous oxide/alumina binary nanofibers. *Journal of the American Ceramic Society*, **2019**, 102, 6337-6348	3.8	11
386	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	35.4	112
385	Suppressing H2 Evolution and Promoting Selective CO2 Electroreduction to CO at Low Overpotentials by Alloying Au with Pd. *ACS Catalysis*, **2019**, 9, 3527-3536	13.1	42
384	Electronic Effects Determine the Selectivity of Planar Au-Cu Bimetallic Thin Films for Electrochemical CO Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 16546-16555	9.5	47

383	The Periodic Table. *Journal of Physical Chemistry A*, **2019**, 123, 5837-5848	2.8	1
382	The JPC Periodic Table. *Journal of Physical Chemistry C*, **2019**, 123, 17063-17074	3.8	1
381	The JPC Periodic Table. *Journal of Physical Chemistry Letters*, **2019**, 10, 4051-4062	6.4	1
380	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	13	36
379	Crystalline Clear or Not: Beneficial and Harmful Effects of Water in Perovskite Solar Cells. *ChemPhysChem*, **2019**, 20, 2587-2599	3.2	19
378	Perovskite Solar Cell Modeling Using Light- and Voltage-Modulated Techniques. *Journal of Physical Chemistry C*, **2019**, 123, 6444-6449	3.8	37
377	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	20.1	24
376	JPCL: A Dynamic Journal with a Global Reach. *Journal of Physical Chemistry Letters*, **2019**, 10, 113-114	6.4	
375	Tailoring Crystal Structure of FA0.83Cs0.17PbI3 Perovskite Through Guanidinium Doping for Enhanced Performance and Tunable Hysteresis of Planar Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1806479	15.6	64
374	Switching Off Hysteresis in Perovskite Solar Cells by Fine-Tuning Energy Levels of Extraction Layers. *Advanced Energy Materials*, **2018**, 8, 1703376	21.8	36
373	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. *Scientific Reports*, **2018**, 8, 2482	4.9	45
372	Device Physics of Hybrid Perovskite Solar cells: Theory and Experiment. *Advanced Energy Materials*, **2018**, 8, 1702772	21.8	138
371	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	9.5	8
370	Analysis of the Influence of Selective Contact Heterojunctions on the Performance of Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 13920-13925	3.8	16
369	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. *Joule*, **2018**, 2, 788-798	27.8	147
368	Impedance Spectroscopy in Molecular Devices. *Green Chemistry and Sustainable Technology*, **2018**, 353-384	1	4
367	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	3.8	33
366	Semiconductor Fe2O3 Hematite Fabricated Electrode for Sensitive Detection of Phenolic Pollutants. *ChemistrySelect*, **2018**, 3, 12169-12174	1.8	2

365	Unravelling the role of vacancies in lead halide perovskite through electrical switching of photoluminescence. *Nature Communications*, **2018**, 9, 5113	17.4	129
364	Insight into Photon Recycling in Perovskite Semiconductors from the Concept of Photon Diffusion. *Physical Review Applied*, **2018**, 10,	4.3	12
363	Top Selected Papers in the Physical Chemistry of Energy Materials 2016-2017. *Journal of Physical Chemistry Letters*, **2018**, 9, 5897-5905	6.4	
362	Quantum dot-sensitized solar cells. *Chemical Society Reviews*, **2018**, 47, 7659-7702	58.5	243
361	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	3.8	5
360	Effects of Frequency Dependence of the External Quantum Efficiency of Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2018**, 9, 3099-3104	6.4	36
359	Quantification of Ionic Diffusion in Lead Halide Perovskite Single Crystals. *ACS Energy Letters*, **2018**, 3, 1477-1481	20.1	84
358	Advances and Obstacles on Perovskite Solar Cell Research from Material Properties to Photovoltaic Function. *ACS Energy Letters*, **2017**, 2, 520-523	20.1	35
357	Changes from Bulk to Surface Recombination Mechanisms between Pristine and Cycled Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 681-688	20.1	99
356	Surface Polarization Model for the Dynamic Hysteresis of Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2017**, 8, 915-921	6.4	95
355	Lead-Free Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 904-905	20.1	121
354	Perovskite semiconductors for photoelectrochemical water splitting applications. *Current Opinion in Electrochemistry*, **2017**, 2, 144-147	7.2	24
353	Effects of Ion Distributions on Charge Collection in Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 1450-1453	20.1	36
352	Hydrazine sensors development based on a glassy carbon electrode modified with a nanostructured TiO2 films by electrochemical approach. *Mikrochimica Acta*, **2017**, 184, 2123-2129	5.8	45
351	Photovoltage Behavior in Perovskite Solar Cells under Light-Soaking Showing Photoinduced Interfacial Changes. *ACS Energy Letters*, **2017**, 2, 950-956	20.1	72
350	Inductive Loop in the Impedance Response of Perovskite Solar Cells Explained by Surface Polarization Model. *Journal of Physical Chemistry Letters*, **2017**, 8, 1402-1406	6.4	96
349	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	9.5	14
348	The JPCL New Year's Editorial. *Journal of Physical Chemistry Letters*, **2017**, 8, 41	6.4	

347	Investigating the Consistency of Models for Water Splitting Systems by Light and Voltage Modulated Techniques. *Journal of Physical Chemistry Letters*, **2017**, 8, 172-180	6.4	36
346	Guanidinium thiocyanate selective Ostwald ripening induced large grain for high performance perovskite solar cells. *Nano Energy*, **2017**, 41, 476-487	17.1	124
345	Real-Time Observation of Iodide Ion Migration in Methylammonium Lead Halide Perovskites. *Small*, **2017**, 13, 1701711	11	113
344	Perspective Collections in the Limelight. *Journal of Physical Chemistry Letters*, **2017**, 8, 5239-5239	6.4	
343	In the Limelight. *Journal of Physical Chemistry Letters*, **2017**, 8, 3925-3925	6.4	
342	Tunable hysteresis effect for perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 2383-2391	33.4	135
341	Theory of Light-Modulated Emission Spectroscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 3673-3677	4	2
340	In the Limelight. *Journal of Physical Chemistry Letters*, **2017**, 8, 3718-3719	6.4	
339	In the Limelight: Perspective Collections on Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 5688-5688	6.4	
338	Toward High-Temperature Stability of PTB7-Based Bulk Heterojunction Solar Cells: Impact of Fullerene Size and Solvent Additive. *Advanced Energy Materials*, **2017**, 7, 1601486	21.8	46
337	Overcoming Charge Collection Limitation at Solid/Liquid Interface by a Controllable Crystal Deficient Overlayer. *Advanced Energy Materials*, **2017**, 7, 1600923	21.8	51
336	Space-Charge-Limited Transport **2017**, 117-130		
335	Impedance and Capacitance Spectroscopies **2017**, 131-158		
334	Diffusion Transport **2017**, 21-34		
333	Drift-Diffusion Transport **2017**, 35-58		
332	Transport in Disordered Media **2017**, 59-92		
331	Carrier Injection and Drift Transport **2017**, 1-19		
330	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	13	73

329	Cooperative Catalytic Effect of ZrO and ⊞Fe O Nanoparticles on BiVO Photoanodes for Enhanced Photoelectrochemical Water Splitting. *ChemSusChem*, **2016**, 9, 2779-2783	8.3	27
328	Distinction between Capacitive and Noncapacitive Hysteretic Currents in Operation and Degradation of Perovskite Solar Cells. *ACS Energy Letters*, **2016**, 1, 683-688	20.1	70
327	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. *Journal of Physical Chemistry Letters*, **2016**, 7, 5105-5113	6.4	284
326	Impedance Characteristics of Hybrid Organometal Halide Perovskite Solar Cells **2016**, 163-199		8
325	Dynamic Phenomena at Perovskite/Electron-Selective Contact Interface as Interpreted from Photovoltage Decays. *CheM*, **2016**, 1, 776-789	16.2	124
324	Light-Induced Space-Charge Accumulation Zone as Photovoltaic Mechanism in Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 525-8	6.4	194
323	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	3.8	12
322	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. *Electrochimica Acta*, **2016**, 187, 249-255	6.7	60
321	Room temperature stable ClPrNTf2 ionic liquid utilizing for chemical sensor development. *Journal of Organometallic Chemistry*, **2016**, 811, 74-80	2.3	4
320	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 218-24	16.7	357
319	Chapter 3:Characterization of Capacitance, Transport and Recombination Parameters in Hybrid Perovskite and Organic Solar Cells. *RSC Energy and Environment Series*, **2016**, 57-106	0.6	7
318	Ionic Reactivity at Contacts and Aging of Methylammonium Lead Triiodide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1502246	21.8	225
317	Understanding the synergistic effect of WO3-BiVO4 heterostructures by impedance spectroscopy. *Physical Chemistry Chemical Physics*, **2016**, 18, 9255-61	3.6	35
316	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	3.8	333
315	Co3O4 Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study. *Journal of Physical Chemistry C*, **2016**, 120, 9053-9060	3.8	21
314	Trends of Scientific Publication. *Journal of Physical Chemistry Letters*, **2016**, 7, 1703	6.4	0
313	Analysis of Photoelectrochemical Systems by Impedance Spectroscopy **2016**, 281-321		5
312	Origin of high open-circuit voltage in solid state dye-sensitized solar cells employing polymer electrolyte. *Nano Energy*, **2016**, 28, 455-461	17.1	19

311	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. *Physics Reports*, **2016**, 653, 1-40	27.7	112
310	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11. *Journal of Physical Chemistry Letters*, **2016**, 7, 3103-11	6.4	154
309	Combinatorial Investigation and Modelling of MoO3 Hole-Selective Contact in TiO2|Co3O4|MoO3 All-Oxide Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1500405	4.6	37
308	Toward Stable Solar Hydrogen Generation Using Organic Photoelectrochemical Cells. *Journal of Physical Chemistry C*, **2015**, 119, 6488-6494	3.8	54
307	Science in the Age of Digital Networking. *Journal of Physical Chemistry Letters*, **2015**, 6, 2900-1	6.4	
306	Modulating the interaction between gold and TiO2 nanowires for enhanced solar driven photoelectrocatalytic hydrogen generation. *Physical Chemistry Chemical Physics*, **2015**, 17, 19371-8	3.6	13
305	Capacitive Dark Currents, Hysteresis, and Electrode Polarization in Lead Halide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 1645-52	6.4	371
304	Polarization Switching and Light-Enhanced Piezoelectricity in Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2015**, 6, 1408-13	6.4	165
303	Boosting power conversion efficiencies of quantum-dot-sensitized solar cells beyond 8% by recombination control. *Journal of the American Chemical Society*, **2015**, 137, 5602-9	16.4	330
302	A high-capacity Li[Ni0.8Co0.06Mn0.14]O2 positive electrode with a dual concentration gradient for next-generation lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 22183-22190	13	74
301	Surface Modification of TiO2 Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 25741-7	9.5	27
300	Interfacial band-edge energetics for solar fuels production. *Energy and Environmental Science*, **2015**, 8, 2851-2862	35.4	134
299	Amorphous TiO2 Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. *Chemistry of Materials*, **2015**, 27, 8398-8405	9.6	184
298	Enhanced Carrier Transport Distance in Colloidal PbS Quantum-Dot-Based Solar Cells Using ZnO Nanowires. *Journal of Physical Chemistry C*, **2015**, 119, 27265-27274	3.8	57
297	Control of I-V hysteresis in CH3NH3PbI3 perovskite solar cell. *Journal of Physical Chemistry Letters*, **2015**, 6, 4633-9	6.4	379
296	Shelf Life Degradation of Bulk Heterojunction Solar Cells: Intrinsic Evolution of Charge Transfer Complex. *Advanced Energy Materials*, **2015**, 5, 1401997	21.8	28
295	Nanoscale mapping by electron energy-loss spectroscopy reveals evolution of organic solar cell contact selectivity. *Organic Electronics*, **2015**, 16, 227-233	3.5	24
294	Temperature Effects on the Photovoltaic Performance of Planar Structure Perovskite Solar Cells. *Chemistry Letters*, **2015**, 44, 1557-1559	1.7	67

293	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. *Advanced Materials* , **2015**, 27, 6157-62	24	67
292	Consistent formulation of the crossover from density to velocity dependent recombination in organic solar cells. *Applied Physics Letters*, **2015**, 107, 073301	3.4	5
291	Defect migration in methylammonium lead iodide and its role in perovskite solar cell operation. *Energy and Environmental Science*, **2015**, 8, 2118-2127	35.4	1003
290	Impact of Capacitive Effect and Ion Migration on the Hysteretic Behavior of Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 4693-700	6.4	285
289	Band engineering in core/shell ZnTe/CdSe for photovoltage and efficiency enhancement in exciplex quantum dot sensitized solar cells. *ACS Nano*, **2015**, 9, 908-15	16.7	211
288	Classification of solar cells according to mechanisms of charge separation and charge collection. *Physical Chemistry Chemical Physics*, **2015**, 17, 4007-14	3.6	78
287	High reduction of interfacial charge recombination in colloidal quantum dot solar cells by metal oxide surface passivation. *Nanoscale*, **2015**, 7, 5446-56	7.7	72
286	Cooperative kinetics of depolarization in CH3NH3PbI3 perovskite solar cells. *Energy and Environmental Science*, **2015**, 8, 910-915	35.4	102
285	Controlled carbon nitride growth on surfaces for hydrogen evolution electrodes. *Angewandte Chemie - International Edition*, **2014**, 53, 3654-8	16.4	170
284	Titanium dioxide nanomaterials for photovoltaic applications. *Chemical Reviews*, **2014**, 114, 10095-130	68.1	567
283	Controlled Carbon Nitride Growth on Surfaces for Hydrogen Evolution Electrodes. *Angewandte Chemie*, **2014**, 126, 3728-3732	3.6	100
282	Relaxation of Electron Carriers in the Density of States of Nanocrystalline TiO2. *Journal of Physical Chemistry Letters*, **2014**, 5, 689-94	6.4	37
281	Low-temperature processed electron collection layers of graphene/TiO2 nanocomposites in thin film perovskite solar cells. *Nano Letters*, **2014**, 14, 724-30	11.5	917
280	Diffusion□Recombination Impedance Model for Solar Cells with Disorder and Nonlinear Recombination. *ChemElectroChem*, **2014**, 1, 289-296	4.3	93
279	Theory of Impedance Spectroscopy of Ambipolar Solar Cells with Trap-Mediated Recombination. *Journal of Physical Chemistry C*, **2014**, 118, 16574-16580	3.8	24
278	Energy Diagram of Semiconductor/Electrolyte Junctions. *Journal of Physical Chemistry Letters*, **2014** , 5, 205-7	6.4	43
277	General working principles of CH3NH3PbX3 perovskite solar cells. *Nano Letters*, **2014**, 14, 888-93	11.5	696
276	Germanium coating boosts lithium uptake in Si nanotube battery anodes. *Physical Chemistry Chemical Physics*, **2014**, 16, 17930-5	3.6	29

275	Probing Lithiation Kinetics of Carbon-Coated ZnFe2O4 Nanoparticle Battery Anodes. *Journal of Physical Chemistry C*, **2014**, 118, 6069-6076	3.8	59
274	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, 16629-41	3.6	46
273	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. *Journal of Physical Chemistry C*, **2014**, 118, 29599-29607	3.8	45
272	New iridium complex as additive to the spiro-OMeTAD in perovskite solar cells with enhanced stability. *APL Materials*, **2014**, 2, 081507	5.7	55
271	Electrical field profile and doping in planar lead halide perovskite solar cells. *Applied Physics Letters*, **2014**, 105, 133902	3.4	151
270	Chemical Effects of Tin Oxide Nanoparticles in Polymer Electrolytes-Based Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16510-16517	3.8	52
269	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	8.9	41
268	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	3.8	160
267	Interplay of Optical, Morphological, and Electronic Effects of ZnO Optical Spacers in Highly Efficient Polymer Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400805	21.8	69
266	Photon Up-Conversion with Lanthanide-Doped Oxide Particles for Solar H2 Generation. *Journal of Physical Chemistry C*, **2014**, 118, 11279-11284	3.8	33
265	Photoinduced Giant Dielectric Constant in Lead Halide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 2390-4	6.4	551
264	A perspective on the production of dye-sensitized solar modules. *Energy and Environmental Science*, **2014**, 7, 3952-3981	35.4	325
263	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. *Advanced Functional Materials*, **2014**, 24, 7681-7688	15.6	258
262	Organic photoelectrochemical cells with quantitative photocarrier conversion. *Energy and Environmental Science*, **2014**, 7, 3666-3673	35.4	51
261	Charge separation in organic photovoltaic cells. *Organic Electronics*, **2014**, 15, 1043-1049	3.5	14
260	High-efficiency "green" quantum dot solar cells. *Journal of the American Chemical Society*, **2014**, 136, 9203-10	16.4	502
259	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. *Journal of Physical Chemistry Letters*, **2014**, 5, 2357-63	6.4	556
258	Device modeling of dye-sensitized solar cells. *Topics in Current Chemistry*, **2014**, 352, 325-95		22

257	EFFECT OF THE CHROMOPHORES STRUCTURES ON THE PERFORMANCE OF SOLID-STATE DYE SENSITIZED SOLAR CELLS. *Nano*, **2014**, 09, 1440005	1.1	5
256	Charge separation at disordered semiconductor heterojunctions from random walk numerical simulations. *Physical Chemistry Chemical Physics*, **2014**, 16, 4082-91	3.6	10
255	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, 16456-62	3.6	74
254	Mechanism of carrier accumulation in perovskite thin-absorber solar cells. *Nature Communications*, **2013**, 4, 2242	17.4	702
253	Selective contacts drive charge extraction in quantum dot solids via asymmetry in carrier transfer kinetics. *Nature Communications*, **2013**, 4, 2272	17.4	49
252	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica core□shell nanoparticles in a TiO2 photoanode. *Journal of Materials Chemistry A*, **2013**, 1, 12627	13	24
251	Core/shell colloidal quantum dot exciplex states for the development of highly efficient quantum-dot-sensitized solar cells. *Journal of the American Chemical Society*, **2013**, 135, 15913-22	16.4	379
250	Energy Band Alignment between Anatase and Rutile TiO2. *Journal of Physical Chemistry Letters*, **2013**, 4, 4182-4187	6.4	184
249	Amorphous Iron Oxyhydroxide Nanosheets: Synthesis, Li Storage, and Conversion Reaction Kinetics. *Journal of Physical Chemistry C*, **2013**, 117, 17462-17469	3.8	24
248	A star-shaped sensitizer based on thienylenevinylene for dye-sensitized solar cells. *Tetrahedron Letters*, **2013**, 54, 431-435	2	5
247	Nano-Enabled Photovoltaics. Progress in Materials and Methodologies. *Journal of Physical Chemistry Letters*, **2013**, 4, 1051-2	6.4	7
246	Elucidating Operating Modes of Bulk-Heterojunction Solar Cells from Impedance Spectroscopy Analysis. *Journal of Physical Chemistry Letters*, **2013**, 4, 877-86	6.4	101
245	Effect of Organic and Inorganic Passivation in Quantum-Dot-Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2013**, 4, 1519-25	6.4	90
244	Molecular Electronic Coupling Controls Charge Recombination Kinetics in Organic Solar Cells of Low Bandgap Diketopyrrolopyrrole, Carbazole, and Thiophene Polymers. *Journal of Physical Chemistry C*, **2013**, 117, 8719-8726	3.8	11
243	Properties of chromophores determining recombination at the TiO2-dye-electrolyte interface. *Langmuir*, **2013**, 29, 8773-81	4	39
242	Three dimensional-TiO(2) nanotube array photoanode architectures assembled on a thin hollow nanofibrous backbone and their performance in quantum dot-sensitized solar cells. *Chemical Communications*, **2013**, 49, 2810-2	5.8	45
241	Interpretation of Cyclic Voltammetry Measurements of Thin Semiconductor Films for Solar Fuel Applications. *Journal of Physical Chemistry Letters*, **2013**, 4, 1334-9	6.4	54
240	Interpretation of Diffusion and Recombination in Nanostructured and Energy-Disordered Materials by Stochastic Quasiequilibrium Simulation. *Journal of Physical Chemistry C*, **2013**, 117, 16275-16289	3.8	35

239	Water Oxidation at Hematite Photoelectrodes with an Iridium-Based Catalyst. *Journal of Physical Chemistry C*, **2013**, 117, 3826-3833	3.8	121
238	Quantum Dot Based Heterostructures for Unassisted Photoelectrochemical Hydrogen Generation. *Advanced Energy Materials*, **2013**, 3, 176-182	21.8	90
237	Design and characterization of alkoxy-wrapped push-pull porphyrins for dye-sensitized solar cells. *Chemical Communications*, **2012**, 48, 4368-70	5.8	104
236	Enhanced diffusion through porous nanoparticle optical multilayers. *Journal of Materials Chemistry*, **2012**, 22, 1751-1757		22
235	Interfacial engineering of quantum dot-sensitized TiO2 fibrous electrodes for futuristic photoanodes in photovoltaic applications. *Journal of Materials Chemistry*, **2012**, 22, 14228		28
234	The combination of a polymer-carbon composite electrode with a high-absorptivity ruthenium dye achieves an efficient dye-sensitized solar cell based on a thiolate-disulfide redox couple. *Physical Chemistry Chemical Physics*, **2012**, 14, 7131-6	3.6	31
233	Recombination in Organic Bulk Heterojunction Solar Cells: Small Dependence of Interfacial Charge Transfer Kinetics on Fullerene Affinity. *Journal of Physical Chemistry Letters*, **2012**, 3, 1386-92	6.4	32
232	Electrochemical and photoelectrochemical investigation of water oxidation with hematite electrodes. *Energy and Environmental Science*, **2012**, 5, 7626	35.4	388
231	Diffusion-Recombination Determines Collected Current and Voltage in Polymer:Fullerene Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 16925-16933	3.8	45
230	How the charge-neutrality level of interface states controls energy level alignment in cathode contacts of organic bulk-heterojunction solar cells. *ACS Nano*, **2012**, 6, 3453-60	16.7	104
229	From flat to nanostructured photovoltaics: balance between thickness of the absorber and charge screening in sensitized solar cells. *ACS Nano*, **2012**, 6, 873-80	16.7	156
228	Photoelectrochemical and impedance spectroscopic investigation of water oxidation with "Co-Pi"-coated hematite electrodes. *Journal of the American Chemical Society*, **2012**, 134, 16693-700	16.4	536
227	Carrier density and interfacial kinetics of mesoporous TiO2 in aqueous electrolyte determined by impedance spectroscopy. *Journal of Electroanalytical Chemistry*, **2012**, 668, 119-125	4.1	51
226	Photocurrent enhancement in dye-sensitized photovoltaic devices with titania–graphene composite electrodes. *Journal of Electroanalytical Chemistry*, **2012**, 683, 43-46	4.1	46
225	Equivalent Circuit of Electrons and Holes in Thin Semiconductor Films for Photoelectrochemical Water Splitting Applications. *Journal of Physical Chemistry Letters*, **2012**, 3, 2517-22	6.4	116
224	Air-stable and efficient inorganic-organic heterojunction solar cells using PbS colloidal quantum dots co-capped by 1-dodecanethiol and oleic acid. *Physical Chemistry Chemical Physics*, **2012**, 14, 14999-5002	3.6	34
223	Sb2S3-Sensitized Photoelectrochemical Cells: Open Circuit Voltage Enhancement through the Introduction of Poly-3-hexylthiophene Interlayer. *Journal of Physical Chemistry C*, **2012**, 116, 20717-20721	3.8	42
222	Hole Transport and Recombination in All-Solid Sb2S3-Sensitized TiO2 Solar Cells Using CuSCN As Hole Transporter. *Journal of Physical Chemistry C*, **2012**, 116, 1579-1587	3.8	162

221	Water oxidation at hematite photoelectrodes: the role of surface states. *Journal of the American Chemical Society*, **2012**, 134, 4294-302	16.4	722
220	Effects of Morphology on the Functionality of Organic Electronic Devices. *Journal of Physical Chemistry Letters*, **2012**, 3, 1515-6	6.4	5
219	Features of Capacitance and Mobility of Injected Carriers in Organic Layers Measured by Impedance Spectroscopy. *Israel Journal of Chemistry*, **2012**, 52, 519-528	3.4	8
218	Photoanodes based on nanostructured WO3 for water splitting. *ChemPhysChem*, **2012**, 13, 3025-34	3.2	89
217	Photovoltaic efficiency limits and material disorder. *Energy and Environmental Science*, **2012**, 5, 6022	35.4	134
216	Fluorine Treatment of TiO2 for Enhancing Quantum Dot Sensitized Solar Cell Performance. *Journal of Physical Chemistry C*, **2011**, 115, 14400-14407	3.8	99
215	Dye versus Quantum Dots in Sensitized Solar Cells: Participation of Quantum Dot Absorber in the Recombination Process. *Journal of Physical Chemistry Letters*, **2011**, 2, 3032-3035	6.4	134
214	A sulfide/polysulfide-based ionic liquid electrolyte for quantum dot-sensitized solar cells. *Journal of the American Chemical Society*, **2011**, 133, 20156-9	16.4	143
213	Origin of efficiency enhancement in Nb2O5 coated titanium dioxide nanorod based dye sensitized solar cells. *Energy and Environmental Science*, **2011**, 4, 3414	35.4	71
212	SiO2 Aerogel Templated, Porous TiO2 Photoanodes for Enhanced Performance in Dye-Sensitized Solar Cells Containing a Ni(III)/(IV) Bis(dicarbollide) Shuttle. *Journal of Physical Chemistry C*, **2011**, 115, 11257-11264	3.8	36
211	Dye sensitized solar cells using non-aggregated silicon phthalocyanines. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 1004-1010	1.8	32
210	A variable series resistance mechanism to explain the negative capacitance observed in impedance spectroscopy measurements of nanostructured solar cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 4679-85	3.6	46
209	High Open Circuit Voltage Quantum Dot Sensitized Solar Cells Manufactured with ZnO Nanowire Arrays and Si/ZnO Branched Hierarchical Structures. *Journal of Physical Chemistry Letters*, **2011**, 2, 1984-1990	6.4	68
208	Role of ZnO Electron-Selective Layers in Regular and Inverted Bulk Heterojunction Solar Cells. *Journal of Physical Chemistry Letters*, **2011**, 2, 407-411	6.4	114
207	Platinum-coated nanostructured oxides for active catalytic electrodes. *Catalysis Communications*, **2011**, 14, 58-61	3.2	4
206	Comparative activities of daptomycin and several agents against staphylococcal blood isolates. Glycopeptide tolerance. *Diagnostic Microbiology and Infectious Disease*, **2011**, 70, 373-9	2.9	16
205	Joint Photophysical and Electrical Analyses on the Influence of Conjugation Order in D-π-A Photosensitizers of Mesoscopic Titania Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 14425-14430	3.8	35
204	Modeling and characterization of extremely thin absorber (eta) solar cells based on ZnO nanowires. *Physical Chemistry Chemical Physics*, **2011**, 13, 7162-9	3.6	42

203	Porphyrin Dyes with High Injection and Low Recombination for Highly Efficient Mesoscopic Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 10898-10902	3.8	77
202	On Voltage, Photovoltage, and Photocurrent in Bulk Heterojunction Organic Solar Cells. *Journal of Physical Chemistry Letters*, **2011**, 2, 1950-1964	6.4	139
201	Characterization of nanostructured hybrid and organic solar cells by impedance spectroscopy. *Physical Chemistry Chemical Physics*, **2011**, 13, 9083-118	3.6	985
200	Temperature dependence of open-circuit voltage and recombination processes in polymer fullerene based solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 2131-2135	6.4	47
199	Trap origin of field-dependent mobility of the carrier transport in organic layers. *Solid-State Electronics*, **2011**, 55, 1-4	1.7	19
198	Operating Modes of Sandwiched Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2011**, 21, 1581-1586	15.6	145
197	PEDOT Nanotube Arrays as High Performing Counter Electrodes for Dye Sensitized Solar Cells. Study of the Interactions Among Electrolytes and Counter Electrodes. *Advanced Energy Materials*, **2011**, 1, 781-784	21.8	137
196	Current-Voltage Characteristics of Bulk Heterojunction Organic Solar Cells: Connection Between Light and Dark Curves. *Advanced Energy Materials*, **2011**, 1, 1073-1078	21.8	64
195	Triplication of the photocurrent in dye solar cells by increasing the elongation of the π-conjugation in Zn-porphyrin sensitizers. *ChemPhysChem*, **2011**, 12, 961-5	3.2	31
194	Dilemmas of dye-sensitized solar cells. *ChemPhysChem*, **2011**, 12, 1633-6	3.2	67
193	Identifying charge and mass transfer resistances of an oxygen reducing biocathode. *Energy and Environmental Science*, **2011**, 4, 5035	35.4	88
192	Doping saturation in dye-sensitized solar cells based on ZnO:Ga nanostructured photoanodes. *Electrochimica Acta*, **2011**, 56, 6503-6509	6.7	30
191	Interpretation of trap-limited mobility in space-charge limited current in organic layers with exponential density of traps. *Journal of Applied Physics*, **2011**, 110, 043705	2.5	24
190	Energy transfer versus charge separation in hybrid systems of semiconductor quantum dots and Ru-dyes as potential co-sensitizers of TiO2-based solar cells. *Journal of Applied Physics*, **2011**, 110, 014314	2.5	41
189	Energetic factors governing injection, regeneration and recombination in dye solar cells with phthalocyanine sensitizers. *Energy and Environmental Science*, **2010**, 3, 1985	35.4	121
188	Determination of the Electron Diffusion Length in Dye-Sensitized Solar Cells by Random Walk Simulation: Compensation Effects and Voltage Dependence. *Journal of Physical Chemistry C*, **2010**, 114, 8552-8558	3.8	65
187	Design of injection and recombination in quantum dot sensitized solar cells. *Journal of the American Chemical Society*, **2010**, 132, 6834-9	16.4	241
186	Modeling high-efficiency quantum dot sensitized solar cells. *ACS Nano*, **2010**, 4, 5783-90	16.7	574

185	Influence of the Intermediate Density-of-States Occupancy on Open-Circuit Voltage of Bulk Heterojunction Solar Cells with Different Fullerene Acceptors. *Journal of Physical Chemistry Letters*, **2010**, 1, 2566-2571	6.4	126
184	Quantification of the Effects of Recombination and Injection in the Performance of Dye-Sensitized Solar Cells Based on N-Substituted Carbazole Dyes. *Journal of Physical Chemistry C*, **2010**, 114, 19840-19848	3.8	108
183	Charge transfer kinetics in CdSe quantum dot sensitized solar cells. *Physical Chemistry Chemical Physics*, **2010**, 12, 2819-21	3.6	43
182	Fast Regeneration of CdSe Quantum Dots by Ru Dye in Sensitized TiO2 Electrodes. *Journal of Physical Chemistry C*, **2010**, 114, 6755-6761	3.8	43
181	Analysis of AC permittivity response measured in an ionic glass: a comparison between iso and non-iso thermal conditions. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2010**, 17, 1164-1171	2.3	1
180	Simulation of Steady-State Characteristics of Dye-Sensitized Solar Cells and the Interpretation of the Diffusion Length. *Journal of Physical Chemistry Letters*, **2010**, 1, 450-456	6.4	278
179	Open-circuit voltage limit caused by recombination through tail states in bulk heterojunction polymer-fullerene solar cells. *Applied Physics Letters*, **2010**, 96, 113301	3.4	167
178	Breakthroughs in the Development of Semiconductor-Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2010**, 1, 3046-3052	6.4	435
177	Direct Correlation between Ultrafast Injection and Photoanode Performance in Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 22352-22360	3.8	92
176	Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2010**, 94, 366-375	6.4	283
175	Influence of Electron Solvation at the Surface of Nanostructured Semiconductors on the Electronic Density of States. *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 1581-1586	3.8	1
174	Influence of cysteine adsorption on the performance of CdSe quantum dots sensitized solar cells. *Materials Chemistry and Physics*, **2010**, 124, 709-712	4.4	20
173	Bandgap modulation in efficient n-thiophene absorbers for dye solar cell sensitization. *ChemPhysChem*, **2010**, 11, 245-50	3.2	33
172	Theory of the impedance of charge transfer via surface states in dye-sensitized solar cells. *Journal of Electroanalytical Chemistry*, **2010**, 646, 43-51	4.1	85
171	Doping-induced broadening of the hole density-of-states in conducting polymers. *Electrochimica Acta*, **2010**, 55, 6123-6127	6.7	18
170	Nanoscale interaction between CdSe or CdTe nanocrystals and molecular dyes fostering or hindering directional charge separation. *Small*, **2010**, 6, 221-5	11	58
169	Surgical site infection due to Aeromonas species: report of nine cases and literature review. *Scandinavian Journal of Infectious Diseases*, **2009**, 41, 164-70		18
168	Impedance spectroscopy study of solid-state dye-sensitized solar cells with varying Spiro-OMeTAD concentration. *Materials Research Society Symposia Proceedings*, **2009**, 1211, 1		

167	Relaxation of photogenerated carriers in P3HT:PCBM organic blends. *ChemSusChem*, **2009**, 2, 314-20	8.3	24
166	Perimeter leakage current in polymer light emitting diodes. *Current Applied Physics*, **2009**, 9, 414-416	2.6	17
165	Trap-limited mobility in space-charge limited current in organic layers. *Organic Electronics*, **2009**, 10, 305-312	3.5	44
164	Recombination in quantum dot sensitized solar cells. *Accounts of Chemical Research*, **2009**, 42, 1848-57	24.3	706
163	Improving the performance of colloidal quantum-dot-sensitized solar cells. *Nanotechnology*, **2009**, 20, 295204	3.4	358
162	Impedance spectroscopy of thin-film CdTe/CdS solar cells under varied illumination. *Journal of Applied Physics*, **2009**, 106, 044507	2.5	52
161	Impedance spectroscopy characterisation of highly efficient silicon solar cells under different light illumination intensities. *Energy and Environmental Science*, **2009**, 2, 678	35.4	196
160	Kinetics of interface state-limited hole injection in □naphthylphenylbiphenyl diamine (□NPD) thin layers. *Synthetic Metals*, **2009**, 159, 480-486	3.6	12
159	Near-IR sensitization of wide band gap oxide semiconductor by axially anchored Si-naphthalocyanines. *Energy and Environmental Science*, **2009**, 2, 529	35.4	55
158	Electron Lifetime in Dye-Sensitized Solar Cells: Theory and Interpretation of Measurements. *Journal of Physical Chemistry C*, **2009**, 113, 17278-17290	3.8	650
157	Electron transport in dye-sensitized solar cells based on ZnO nanotubes: evidence for highly efficient charge collection and exceptionally rapid dynamics. *Journal of Physical Chemistry A*, **2009**, 113, 4015-21	2.8	240
156	Surface Passivation of Nanoporous TiO2 via Atomic Layer Deposition of ZrO2 for Solid-State Dye-Sensitized Solar Cell Applications. *Journal of Physical Chemistry C*, **2009**, 113, 18385-18390	3.8	137
155	Electron transport and recombination in solid-state dye solar cell with spiro-OMeTAD as hole conductor. *Journal of the American Chemical Society*, **2009**, 131, 558-62	16.4	386
154	CdSe Quantum Dot-Sensitized TiO2 Electrodes: Effect of Quantum Dot Coverage and Mode of Attachment. *Journal of Physical Chemistry C*, **2009**, 113, 4208-4214	3.8	306
153	Localized versus delocalized states: Photoluminescence from electrochemically synthesized ZnO nanowires. *Journal of Applied Physics*, **2009**, 106, 054304	2.5	31
152	Random walk numerical simulation for hopping transport at finite carrier concentrations: diffusion coefficient and transport energy concept. *Physical Chemistry Chemical Physics*, **2009**, 11, 10359-67	3.6	53
151	Physical electrochemistry of nanostructured devices. *Physical Chemistry Chemical Physics*, **2008**, 10, 49-72	3.6	191
150	Factors determining the photovoltaic performance of a CdSe quantum dot sensitized solar cell: the role of the linker molecule and of the counter electrode. *Nanotechnology*, **2008**, 19, 424007	3.4	225

149	Injection and Recombination in Dye-Sensitized Solar Cells with a Broadband Absorbance Metal-Free Sensitizer Based on Oligothienylvinylene. *Journal of Physical Chemistry C*, **2008**, 112, 18623-18627	3.8	19
148	Interpretation of diffusion coefficients in nanostructured materials from random walk numerical simulation. *Physical Chemistry Chemical Physics*, **2008**, 10, 4478-85	3.6	49
147	High carrier density and capacitance in TiO2 nanotube arrays induced by electrochemical doping. *Journal of the American Chemical Society*, **2008**, 130, 11312-6	16.4	343
146	Influence of the Potassium Chloride Concentration on the Physical Properties of Electrodeposited ZnO Nanowire Arrays. *Journal of Physical Chemistry C*, **2008**, 112, 16318-16323	3.8	75
145	Porosity dependence of electron percolation in nanoporous TiO2 layers. *Journal of Chemical Physics* , **2008**, 128, 064703	3.9	50
144	Dielectric losses measured in a sodium aluminosilicate glass by using electrical insulating barriers and non-isothermal experimental conditions. *Journal of Non-Crystalline Solids*, **2008**, 354, 3443-3450	3.9	6
143	Beyond the quasistatic approximation: Impedance and capacitance of an exponential distribution of traps. *Physical Review B*, **2008**, 77,	3.3	106
142	Recombination rates in heterojunction silicon solar cells analyzed by impedance spectroscopy at forward bias and under illumination. *Solar Energy Materials and Solar Cells*, **2008**, 92, 505-509	6.4	55
141	Electrodeposition and impedance spectroscopy characterization of ZnO nanowire arrays. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 2345-2350	1.6	65
140	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. *Advanced Functional Materials*, **2008**, 18, 145-150	15.6	151
139	Capacitance, spectroelectrochemistry and conductivity of polarons and bipolarons in a polydicarbazole based conducting polymer. *Journal of Electroanalytical Chemistry*, **2008**, 614, 49-60	4.1	38
138	Impedance of carrier injection at the metal–organic interface mediated by surface states in electron-only tris(8-hydroxyquinoline) aluminium (Alq3) thin layers. *Chemical Physics Letters*, **2008**, 455, 242-248	2.5	12
137	Excitons diffusion and singlet–triplet occupation at high Bose–Einstein chemical potential. *Chemical Physics Letters*, **2008**, 462, 229-233	2.5	1
136	Band unpinning and photovoltaic model for P3HT:PCBM organic bulk heterojunctions under illumination. *Chemical Physics Letters*, **2008**, 465, 57-62	2.5	105
135	Large improvement of electron extraction from CdSe quantum dots into a TiO2 thin layer by N3 dye coabsorption. *Thin Solid Films*, **2008**, 516, 6994-6998	2.2	46
134	Charge carrier mobility and lifetime of organic bulk heterojunctions analyzed by impedance spectroscopy. *Organic Electronics*, **2008**, 9, 847-851	3.5	477
133	A review of recent results on electrochemical determination of the density of electronic states of nanostructured metal-oxide semiconductors and organic hole conductors. *Inorganica Chimica Acta*, **2008**, 361, 684-698	2.7	263
132	Interpretation of electron diffusion coefficient in organic and inorganic semiconductors with broad distributions of states. *Physical Chemistry Chemical Physics*, **2008**, 10, 3175-94	3.6	162

131	Hopping Transport of Electrons in Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2007**, 111, 17163-17168	3.8	80
130	Correlation between Photovoltaic Performance and Impedance Spectroscopy of Dye-Sensitized Solar Cells Based on Ionic Liquids. *Journal of Physical Chemistry C*, **2007**, 111, 6550-6560	3.8	821
129	Photosensitization of TiO2Layers with CdSe Quantum Dots: Correlation between Light Absorption and Photoinjection. *Journal of Physical Chemistry C*, **2007**, 111, 14889-14892	3.8	85
128	The effect of ion-polymer binding on ionic diffusion in dicarbazole-based conducting polymers. *Electrochimica Acta*, **2007**, 52, 6841-6847	6.7	8
127	Interpretation of capacitance spectra and transit times of single carrier space-charge limited transport in organic layers with field-dependent mobility. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 2402-2410	1.6	11
126	Properties of the electronic density of states in TiO2 nanoparticles surrounded with aqueous electrolyte. *Journal of Solid State Electrochemistry*, **2007**, 11, 647-653	2.6	48
125	Capacitance-voltage characteristics of organic light-emitting diodes varying the cathode metal: Implications for interfacial states. *Physical Review B*, **2007**, 75,	3.3	37
124	Millisecond radiative recombination in poly(phenylene vinylene)-based light-emitting diodes from transient electroluminescence. *Journal of Applied Physics*, **2007**, 101, 114506	2.5	9
123	Dynamics of Charge Separation and Trap-Limited Electron Transport in TiO2 Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 13997-14000	3.8	66
122	Jump diffusion coefficient of different cations intercalated into amorphous WO3. *Solid State Ionics*, **2006**, 177, 1635-1637	3.3	4
121	Effect of buffer layer on minority carrier lifetime and series resistance of bifacial heterojunction silicon solar cells analyzed by impedance spectroscopy. *Thin Solid Films*, **2006**, 514, 254-257	2.2	26
120	Impedance of space-charge-limited currents in organic light-emitting diodes with double injection and strong recombination. *Journal of Applied Physics*, **2006**, 100, 084502	2.5	17
119	Impedance spectroscopy study of dye-sensitized solar cells with undoped spiro-OMeTAD as hole conductor. *Journal of Applied Physics*, **2006**, 100, 034510	2.5	54
118	Temperature dependent normal and anomalous electron diffusion in porous TiO2 studied by transient surface photovoltage. *Physical Review B*, **2006**, 73,	3.3	52
117	Effect of energy disorder in interfacial kinetics of dye-sensitized solar cells with organic hole transport material. *Journal of Physical Chemistry B*, **2006**, 110, 19406-11	3.4	66
116	Chemical capacitance of nanoporous-nanocrystalline TiO2 in a room temperature ionic liquid. *Physical Chemistry Chemical Physics*, **2006**, 8, 1827-33	3.6	91
115	An explanation of the peculiar behavior of TSDC peaks at Tg: a simple model of entropy relaxation. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2006**, 13, 1042-1048	2.3	1
114	Characteristics of high efficiency dye-sensitized solar cells. *Journal of Physical Chemistry B*, **2006**, 110, 25210-21	3.4	965

113	Implications of the negative capacitance observed at forward bias in nanocomposite and polycrystalline solar cells. *Nano Letters*, **2006**, 6, 640-50	11.5	185
112	Charge injection in organic light emitting diodes governed by interfacial states **2006**,		8
111	Determination of carrier density of ZnO nanowires by electrochemical techniques. *Applied Physics Letters*, **2006**, 89, 203117	3.4	260
110	Correlation between volume change and cell voltage variation with composition for lithium intercalated amorphous films. *Journal of Physical Chemistry B*, **2006**, 110, 4514-8	3.4	13
109	Determination of electron and hole energy levels in mesoporous nanocrystalline TiO2 solid-state dye solar cell. *Synthetic Metals*, **2006**, 156, 944-948	3.6	52
108	An explanation of the peculiar behavior of TSDC peaks at Tg: a simple model of entropy relaxation. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2006**, 13, 1042-1048	2.3	1
107	Thickness scaling of space-charge-limited currents in organic layers with field- or density-dependent mobility. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 3762-3767	1.6	19
106	Dielectric relaxation strength in ion conducting glasses caused by cluster polarization. *Chemical Physics*, **2006**, 330, 113-117	2.3	18
105	Negative capacitance caused by electron injection through interfacial states in organic light-emitting diodes. *Chemical Physics Letters*, **2006**, 422, 184-191	2.5	149
104	Continuous time random walk simulation of short-range electron transport in TiO2 layers compared with transient surface photovoltage measurements. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 182, 280-287	4.7	13
103	Three-channel transmission line impedance model for mesoscopic oxide electrodes functionalized with a conductive coating. *Journal of Physical Chemistry B*, **2006**, 110, 11284-90	3.4	99
102	Determination of spatial charge separation of diffusing electrons by transient photovoltage measurements. *Journal of Applied Physics*, **2006**, 100, 103705	2.5	48
101	Experimental evidence of a UV light-induced long-range electric field in nanostructured TiO2 thin films in contact with aqueous electrolytes. *Journal of Physical Chemistry B*, **2005**, 109, 10355-61	3.4	10
100	Photoelectrochemical behavior of nanostructured TiO(2) thin-film electrodes in contact with aqueous electrolytes containing dissolved pollutants: a model for distinguishing between direct and indirect interfacial hole transfer from photocurrent measurements. *Journal of Physical Chemistry B*, **2005**, 109, 3371-80	3.4	75
99	Illumination intensity dependence of the photovoltage in nanostructured TiO2 dye-sensitized solar cells. *Journal of Physical Chemistry B*, **2005**, 109, 15915-26	3.4	102
98	Inductive behaviour by charge-transfer and relaxation in solid-state electrochemistry. *Electrochimica Acta*, **2005**, 51, 627-640	6.7	54
97	Influence of electrolyte in transport and recombination in dye-sensitized solar cells studied by impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2005**, 87, 117-131	6.4	1034
96	Transition from ideal statistics to interactions by host distortion in the intercalation thermodynamics of Li into amorphous WO films of varying thickness. *Solid State Ionics*, **2005**, 176, 1701-1704	3.3	3

95	Observation of diffusion and tunneling recombination of dye-photoinjected electrons in ultrathin TiO2 layers by surface photovoltage transients. *Journal of Physical Chemistry B*, **2005**, 109, 14932-8	3.4	58
94	Composition Dependence of the Energy Barrier for Lithium Diffusion in Amorphous WO[sub 3]. *Electrochemical and Solid-State Letters*, **2005**, 8, J21		9
93	Calculation of electronic density of states induced by impurities in TiO2 quantum dots. *Physical Review B*, **2005**, 72,	3.3	12
92	Interpretation of a fractional diffusion equation with nonconserved probability density in terms of experimental systems with trapping or recombination. *Physical Review E*, **2005**, 72, 011109	2.4	41
91	A simple model of entropy relaxation for explaining effective activation energy behavior below the glass transition temperature. *Journal of Chemical Physics*, **2005**, 122, 094507	3.9	7
90	Simple model for ac ionic conduction in solids. *Journal of Chemical Physics*, **2005**, 122, 151101	3.9	8
89	Entropy factor in the hopping frequency for ionic conduction in oxide glasses induced by energetic clustering. *Journal of Chemical Physics*, **2005**, 123, 074504	3.9	10
88	Implications of the detailed fluctuation theorem for the sources of irreversibility in interfacial charge transfer processes. *Physical Review E*, **2005**, 72, 056115	2.4	
87	Master equation approach to the non-equilibrium negative specific heat at the glass transition. *American Journal of Physics*, **2005**, 73, 735-741	0.7	20
86	Relaxation processes in the coloration of amorphous WO3 thin films studied by combined impedance and electro-optical measurements. *Journal of Applied Physics*, **2004**, 96, 853-859	2.5	30
85	Interpretation of AC Conductivity of Lightly Doped Conducting Polymers in Terms of Hopping Conduction. *Russian Journal of Electrochemistry*, **2004**, 40, 352-358	1.2	30
84	Interpretation of the Time Constants Measured by Kinetic Techniques in Nanostructured Semiconductor Electrodes and Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2004**, 108, 2313-2322	3.4	445
83	Chemical Diffusion Coefficient of Electrons in Nanostructured Semiconductor Electrodes and Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2004**, 108, 2323-2332	3.4	155
82	Determination of rate constants for charge transfer and the distribution of semiconductor and electrolyte electronic energy levels in dye-sensitized solar cells by open-circuit photovoltage decay method. *Journal of the American Chemical Society*, **2004**, 126, 13550-9	16.4	817
81	Charging and diffusional aspects of Li+ insertion in electrochromic a-WO3. *Solid State Ionics*, **2004**, 175, 521-525	3.3	17
80	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. *ChemInform*, **2004**, 35, no		1
79	Analysis of ion diffusion and charging in electronically conducting polydicarbazole films by impedance methods. *Electrochimica Acta*, **2004**, 49, 3413-3417	6.7	20
78	Effect of reduced selectivity of contacts on the current-potential characteristics and conversion performance of solar cells. *Solar Energy Materials and Solar Cells*, **2004**, 85, 51-51	6.4	4

77	Interpretation of variations of jump diffusion coefficient of lithium intercalated into amorphous WO3 electrochromic films. *Solid State Ionics*, **2004**, 170, 123-127	3.3	20
76	Analysis of cyclic voltammograms of electrochromic a-WO3 films from voltage-dependent equilibrium capacitance measurements. *Journal of Electroanalytical Chemistry*, **2004**, 565, 329-334	4.1	21
75	Dynamic behaviour of viologen-activated nanostructured TiO2: correlation between kinetics of charging and coloration. *Electrochimica Acta*, **2004**, 49, 745-752	6.7	23
74	Electrochemical impedance spectra for the complete equivalent circuit of diffusion and reaction under steady-state recombination current. *Physical Chemistry Chemical Physics*, **2004**, 6, 2983-2988	3.6	48
73	Determination of density of electronic states using the potential dependence of electron density measured at nonzero temperatures. *Physical Review B*, **2004**, 70,	3.3	25
72	Effects of the Gaussian energy dispersion on the statistics of polarons and bipolarons in conducting polymers. *Journal of Chemical Physics*, **2004**, 120, 6726-33	3.9	54
71	The origin of slow electron recombination processes in dye-sensitized solar cells with alumina barrier coatings. *Journal of Applied Physics*, **2004**, 96, 6903-6907	2.5	179
70	Interpretation of the critical length scale determining the conductivity in ionically conducting silicate glasses. *Journal of Non-Crystalline Solids*, **2004**, 337, 272-275	3.9	9
69	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2004**, 108, 8106-8118	3.4	539
68	Comparative analysis of photovoltaic principles governing dye-sensitized solar cells and p-n junctions **2004**, 5215, 49		3
67	Frequency analysis of diffusion in 1D systems with energy and spatial disorder. *Macromolecular Symposia*, **2004**, 212, 571-574	0.8	
66	Impedance model of two-carrier space-charge limited current in organic light-emitting diodes **2004**,		5
65	Comment on Diffusion Impedance and Space Charge Capacitance in the Nanoporous Dye-Sensitized Electrochemical Solar Cell and Electronic Transport in Dye-Sensitized Nanoporous TiO2 Solar CellsComparison of Electrolyte and Solid-State Devices *Journal of Physical Chemistry B*, **2003**, 107, 13541-13543	3.4	22
64	The trap-limited diffusivity of electrons in nanoporous semiconductor networks permeated with a conductive phase. *Applied Physics A: Materials Science and Processing*, **2003**, 77, 507-514	2.6	43
63	Determination of the electron lifetime in nanocrystalline dye solar cells by open-circuit voltage decay measurements. *ChemPhysChem*, **2003**, 4, 859-64	3.2	1067
62	An explanation of anomalous diffusion patterns observed in electroactive materials by impedance methods. *ChemPhysChem*, **2003**, 4, 287-92	3.2	46
61	Electronic conductivity in nanostructured TiO2 films permeated with electrolyte. *Physica Status Solidi A*, **2003**, 196, R4-R6		93
60	Fermi Level of Surface States in TiO2 Nanoparticles. *Nano Letters*, **2003**, 3, 945-949	11.5	119

59	Cyclic Voltammetry Studies of Nanoporous Semiconductors. Capacitive and Reactive Properties of Nanocrystalline TiO2 Electrodes in Aqueous Electrolyte. *Journal of Physical Chemistry B*, **2003**, 107, 758-768	3.4	342
58	Effect of humidity on the ac conductivity of nanoporous TiO2. *Journal of Applied Physics*, **2003**, 94, 5261	2.5	89
57	Internal Reference Electrode in Dye Sensitized Solar Cells for Three-Electrode Electrochemical Characterizations. *Journal of Physical Chemistry B*, **2003**, 107, 6022-6025	3.4	34
56	Mott-Schottky Analysis of Nanoporous Semiconductor Electrodes in Dielectric State Deposited on SnO[sub 2](F) Conducting Substrates. *Journal of the Electrochemical Society*, **2003**, 150, E293	3.9	197
55	Flatband Potential of F:SnO2 in a TiO2 Dye-Sensitized Solar Cell: An Interference Reflection Study. *Journal of Physical Chemistry B*, **2003**, 107, 9397-9403	3.4	67
54	Mobile cation concentration in ionically conducting glasses calculated by means of Mott Schottky capacitance voltage characteristics. *Journal of Non-Crystalline Solids*, **2003**, 324, 196-200	3.9	14
53	Chemical capacitance of nanostructured semiconductors: its origin and significance for nanocomposite solar cells. *Physical Chemistry Chemical Physics*, **2003**, 5, 5360	3.6	641
52	Determination of the electronic conductivity of polybithiophene films at different doping levels using in situ electrochemical impedance measurements. *Applied Physics Letters*, **2003**, 83, 2178-2180	3.4	21
51	Limitation of the mobility of charge carriers in a nanoscaled heterogeneous system by dynamical Coulomb screening. *Physical Review B*, **2003**, 68,	3.3	24
50	Fractional diffusion in the multiple-trapping regime and revision of the equivalence with the continuous-time random walk. *Physical Review Letters*, **2003**, 91, 010602	7.4	87
49	Study of the humidity effect in the electrical response of the KSbMoO6 ionic conductive ceramic at low temperature. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology* , **2002**, 90, 291-295	3.1	9
48	Anomalous diffusion of defects in rutile-titanium dioxide: correlation between ac conductivity and defect structures. *Solid State Ionics*, **2002**, 146, 367-376	3.3	8
47	Analysis of the kinetics of ion intercalation. *Electrochimica Acta*, **2002**, 47, 2435-2449	6.7	127
46	Impedance analysis of galvanostatically synthesized polypyrrole films. Correlation of ionic diffusion and capacitance parameters with the electrode morphology. *Electrochimica Acta*, **2002**, 47, 4263-4272	6.7	92
45	Analysis of the kinetics of ion intercalation. Two state model describing the coupling of solid state ion diffusion and ion binding processes. *Electrochimica Acta*, **2002**, 47, 3977-3988	6.7	106
44	Theory of the Impedance of Electron Diffusion and Recombination in a Thin Layer. *Journal of Physical Chemistry B*, **2002**, 106, 325-333	3.4	1091
43	Decoupling of Transport, Charge Storage, and Interfacial Charge Transfer in the Nanocrystalline TiO2/Electrolyte System by Impedance Methods. *Journal of Physical Chemistry B*, **2002**, 106, 334-339	3.4	261
42	Analysis of the admittance-frequency and capacitance voltage of dense SnO2?CoO-based varistor ceramics. *Journal of Applied Physics*, **2002**, 91, 6007-6014	2.5	52

41	Determination of the humidity of soil by monitoring the conductivity with indium tin oxide glass electrodes. *Applied Physics Letters*, **2002**, 80, 2785-2787	3.4	10
40	Analysis of the Mechanisms of Electron Recombination in Nanoporous TiO2 Dye-Sensitized Solar Cells. Nonequilibrium Steady-State Statistics and Interfacial Electron Transfer via Surface States. *Journal of Physical Chemistry B*, **2002**, 106, 8774-8782	3.4	243
39	Theory of the electrochemical impedance of anomalous diffusion. *Journal of Electroanalytical Chemistry*, **2001**, 499, 112-120	4.1	339
38	Switching behaviour in lightly doped polymeric porous film electrodes. Improving distributed impedance models for mixed conduction conditions. *Journal of Electroanalytical Chemistry*, **2001**, 508, 48-58	4.1	33
37	Separation of transport, charge storage and reaction processes of porous electrocatalytic IrO2 and IrO2/Nb2O5 electrodes. *Journal of Electroanalytical Chemistry*, **2001**, 508, 59-69	4.1	49
36	The effect of the cooling rate on the fictive temperature in some model glassy systems. *Journal of Chemical Physics*, **2001**, 114, 9512-9517	3.9	12
35	Anomalous transport on polymeric porous film electrodes in the dopant-induced insulator-to-conductor transition analyzed by electrochemical impedance. *Applied Physics Letters*, **2001**, 78, 1885-1887	3.4	25
34	Analysis of the power-law response in the fractal dielectric model by thermally stimulated currents and frequency spectroscopy. *Journal of Applied Physics*, **2001**, 89, 5657-5662	2.5	13
33	Analysis by thermally stimulated currents of the frequency power-law domains of the dielectric loss. *Journal Physics D: Applied Physics*, **2001**, 34, 968-975	3	4
32	Dynamic Processes in the Coloration of WO[sub 3] by Lithium Insertion. *Journal of the Electrochemical Society*, **2001**, 148, E302	3.9	40
31	Application of a distributed impedance model in the analysis of conducting polymer films. *Electrochemistry Communications*, **2000**, 2, 601-605	5.1	87
30	Nature of the Schottky-type barrier of highly dense SnO2 systems displaying nonohmic behavior. *Journal of Applied Physics*, **2000**, 88, 6545-6548	2.5	90
29	Doubling Exponent Models for the Analysis of Porous Film Electrodes by Impedance. Relaxation of TiO2Nanoporous in Aqueous Solution. *Journal of Physical Chemistry B*, **2000**, 104, 2287-2298	3.4	311
28	Influence of the boundaries in the impedance of porous film electrodes. *Physical Chemistry Chemical Physics*, **2000**, 2, 4185-4192	3.6	224
27	Effect of trap density on the dielectric response of varistor ceramics. *Solid-State Electronics*, **1999**, 43, 2123-2127	1.7	29
26	Anomalous transport effects in the impedance of porous film electrodes. *Electrochemistry Communications*, **1999**, 1, 429-435	5.1	168
25	Thermal behavior of the KSbMoO6 ionic conductive ceramic. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1999**, 63, 234-237	3.1	2
24	Theoretical models for ac impedance of finite diffusion layers exhibiting low frequency dispersion. *Journal of Electroanalytical Chemistry*, **1999**, 475, 152-163	4.1	199

23	Frequency dispersion in electrochromic devices and conducting polymer electrodes: A generalized transmission line approach. *Ionics*, **1999**, 5, 44-51	2.7	13
22	Modelling the electric potential distribution in the dark in nanoporous semiconductor electrodes. *Journal of Solid State Electrochemistry*, **1999**, 3, 337-347	2.6	93
21	Scaling properties of thermally stimulated currents in disordered systems. *Journal of Non-Crystalline Solids*, **1999**, 260, 109-115	3.9	8
20	Structural and electrical conductivity studies on rutile solid solutions [FexTi1-2xMxO2 (M=Nb, Ta)]. *Journal of Materials Science*, **1998**, 33, 4235-4238	4.3	5
19	Impedance of constant phase element (CPE)-blocked diffusion in film electrodes. *Journal of Electroanalytical Chemistry*, **1998**, 452, 229-234	4.1	329
18	The small signal AC impedance of a short pn junction diode. *Solid-State Electronics*, **1998**, 42, 939-941	1.7	6
17	Grain boundary role in the electrical properties of La1−xSrxCo0.8Fe0.2O3−δ perovskites. *Solid State Ionics*, **1998**, 107, 203-211	3.3	11
16	Complex plane analysis of pn junction forward-voltage impedance. *Electronics Letters*, **1997**, 33, 900	1.1	9
15	Digital implementation of filters for nuclear applications using the discrete wavelet transform. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 380, 376-380	1.2	5
14	Impedance spectroscopy studies of orthorhombic FeNbO4. *Journal of Materials Science*, **1996**, 31, 2043-2046	4.3	11
13	Observation of ionic thermocurrents in zirconia-based solid electrolytes. *Ionics*, **1995**, 1, 377-383	2.7	1
12	An experiment on magnetic induction pulses. *American Journal of Physics*, **1994**, 62, 702-706	0.7	9
11	Higher-order polarization on the Poincare group and the position operator. *Journal of Physics A*, **1993**, 26, 5375-5390		7
10	Symmetry and quantization: Higher-order polarization and anomalies. *Journal of Mathematical Physics*, **1992**, 33, 3087-3097	1.2	24
9	The quantum relativistic harmonic oscillator: generalized Hermite polynomials. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1991**, 156, 381-385	2.3	58
8	Dynamics on SL(2,R)tilde-(X)U(1). *Journal of Physics A*, **1990**, 23, 707-720		13
7	Oscillations of a dipole in a magnetic field: An experiment. *American Journal of Physics*, **1990**, 58, 838-843	0.7	9
6	The Physics of Solar Energy Conversion		6

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5	Nanostructured Energy Devices		4
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2	Theory of Hysteresis in Halide Perovskites by Integration of the Equivalent Circuit. *ACS Physical Chemistry Au*,		11
1	The impedance of spiking neurons coupled by time-delayed interaction. *Physica Status Solidi (A) Applications and Materials Science*,	1.6	1