

James Durrant

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#	Paper	IF	Citations
503	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene:fullerene solar cells. <i>Nature Materials</i> , 2006 , 5, 197-203	27	2097
502	Charge photogeneration in organic solar cells. <i>Chemical Reviews</i> , 2010 , 110, 6736-67	68.1	1760
501	Artificial photosynthesis for solar water-splitting. <i>Nature Photonics</i> , 2012 , 6, 511-518	33.9	1484
500	Control of charge recombination dynamics in dye sensitized solar cells by the use of conformally deposited metal oxide blocking layers. <i>Journal of the American Chemical Society</i> , 2003 , 125, 475-82	16.4	967
499	High-efficiency and air-stable P3HT-based polymer solar cells with a new non-fullerene acceptor. <i>Nature Communications</i> , 2016 , 7, 11585	17.4	903
498	Thieno[3,2-b]thiophene-diketopyrrolopyrrole-containing polymers for high-performance organic field-effect transistors and organic photovoltaic devices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3272-5	16.4	809
497	Reducing the efficiency-stability-cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. <i>Nature Materials</i> , 2017 , 16, 363-369	27	807
496	Mechanism of photocatalytic water splitting in TiO ₂ . Reaction of water with photoholes, importance of charge carrier dynamics, and evidence for four-hole chemistry. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13885-91	16.4	743
495	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 20056-20062		736
494	Light and oxygen induced degradation limits the operational stability of methylammonium lead triiodide perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 1655-1660	35.4	621
493	Degradation of organic solar cells due to air exposure. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 3520-3530	6.4	593
492	Parameters Influencing Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 538-547	3.4	582
491	Charge carrier formation in polythiophene/fullerene blend films studied by transient absorption spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3030-42	16.4	576
490	Device annealing effect in organic solar cells with blends of regioregular poly(3-hexylthiophene) and soluble fullerene. <i>Applied Physics Letters</i> , 2005 , 86, 063502	3.4	543
489	Parameters influencing the efficiency of electron injection in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4808-18	16.4	534
488	Electron Transfer Dynamics in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 3381-3399	9.6	525
487	Hybrid polymer/zinc oxide photovoltaic devices with vertically oriented ZnO nanorods and an amphiphilic molecular interface layer. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7635-9	3.4	492

486	Nanocrystalline dye-sensitized solar cells having maximum performance. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 1-18	6.8	479
485	The role of cobalt phosphate in enhancing the photocatalytic activity of $\alpha\text{-Fe}_2\text{O}_3$ toward water oxidation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14868-71	16.4	477
484	Charge separation versus recombination in dye-sensitized nanocrystalline solar cells: the minimization of kinetic redundancy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3456-62	16.4	456
483	Influence of the TiCl_4 Treatment on Nanocrystalline TiO_2 Films in Dye-Sensitized Solar Cells. 2. Charge Density, Band Edge Shifts, and Quantification of Recombination Losses at Short Circuit. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14001-14010	3.8	444
482	Experimental determination of the rate law for charge carrier decay in a polythiophene: Fullerene solar cell. <i>Applied Physics Letters</i> , 2008 , 92, 093311	3.4	428
481	Reduced voltage losses yield 10% efficient fullerene free organic solar cells with >1 V open circuit voltages. <i>Energy and Environmental Science</i> , 2016 , 9, 3783-3793	35.4	425
480	Kinetic and energetic paradigms for dye-sensitized solar cells: moving from the ideal to the real. <i>Accounts of Chemical Research</i> , 2009 , 42, 1799-808	24.3	415
479	A rhodanine flanked nonfullerene acceptor for solution-processed organic photovoltaics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 898-904	16.4	407
478	Electron Injection and Recombination in Dye Sensitized Nanocrystalline Titanium Dioxide Films: A Comparison of Ruthenium Bipyridyl and Porphyrin Sensitizer Dyes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1198-1205	3.4	401
477	Fullerene crystallisation as a key driver of charge separation in polymer/fullerene bulk heterojunction solar cells. <i>Chemical Science</i> , 2012 , 3, 485-492	9.4	391
476	Charge transport versus recombination in dye-sensitized solar cells employing nanocrystalline TiO_2 and SnO_2 films. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12525-33	3.4	365
475	Bimolecular recombination losses in polythiophene: Fullerene solar cells. <i>Physical Review B</i> , 2008 , 78,	3.3	364
474	Dynamics of photogenerated holes in surface modified $\alpha\text{-Fe}_2\text{O}_3$ photoanodes for solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15640-5	11.5	362
473	Charge carrier trapping, recombination and transfer in hematite ($\alpha\text{-Fe}_2\text{O}_3$) water splitting photoanodes. <i>Chemical Science</i> , 2013 , 4, 2724	9.4	362
472	Trap-limited recombination in dye-sensitized nanocrystalline metal oxide electrodes. <i>Physical Review B</i> , 2001 , 63,	3.3	357
471	Recombination dynamics as a key determinant of open circuit voltage in organic bulk heterojunction solar cells: a comparison of four different donor polymers. <i>Advanced Materials</i> , 2010 , 22, 4987-92	24	343
470	Dye-Sensitized Nanocrystalline Solar Cells Employing a Polymer Electrolyte. <i>Advanced Materials</i> , 2001 , 13, 826-830	24	338
469	Back electron-hole recombination in hematite photoanodes for water splitting. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2564-74	16.4	329

468	Current understanding and challenges of solar-driven hydrogen generation using polymeric photocatalysts. <i>Nature Energy</i> , 2019 , 4, 746-760	62.3	326
467	Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films under Externally Applied Bias. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1745-1749	3.4	309
466	Time-Resolved Spectroscopic Investigation of Charge Trapping in Carbon Nitrides Photocatalysts for Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5216-5224	16.4	307
465	Molecular control of recombination dynamics in dye-sensitized nanocrystalline TiO ₂ films: free energy vs distance dependence. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5225-33	16.4	305
464	Solution-Processed Organic Solar Cells. <i>MRS Bulletin</i> , 2008 , 33, 670-675	3.2	303
463	Reversible colorimetric probes for mercury sensing. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12351-6	16.4	298
462	Catalysis of recombination and its limitation on open circuit voltage for dye sensitized photovoltaic cells using phthalocyanine dyes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2906-7	16.4	296
461	Long-lived charge separated states in nanostructured semiconductor photoelectrodes for the production of solar fuels. <i>Chemical Society Reviews</i> , 2013 , 42, 2281-93	58.5	260
460	Dynamics of photogenerated holes in undoped BiVO ₄ photoanodes for solar water oxidation. <i>Chemical Science</i> , 2014 , 5, 2964-2973	9.4	253
459	Free Energy Control of Charge Photogeneration in Polythiophene/Fullerene Solar Cells: The Influence of Thermal Annealing on P3HT/PCBM Blends. <i>Advanced Functional Materials</i> , 2008 , 18, 4029-4035	15.6	247
458	Immobilisation and bioelectrochemistry of proteins on nanoporous TiO ₂ and ZnO films. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 517, 20-27	4.1	246
457	Hybrid polymer/metal oxide solar cells based on ZnO columnar structures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2088		244
456	Charge-density-based analysis of the current-voltage response of polythiophene/fullerene photovoltaic devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16448-52	11.5	243
455	Alkyl chain barriers for kinetic optimization in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16376-83	16.4	243
454	Dye Dependent Regeneration Dynamics in Dye Sensitized Nanocrystalline Solar Cells: Evidence for the Formation of a Ruthenium Bipyridyl Cation/Iodide Intermediate. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6561-6567	3.8	241
453	Towards optimisation of electron transfer processes in dye sensitised solar cells. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1247-1257	23.2	239
452	Dye-sensitised semiconductors modified with molecular catalysts for light-driven H ₂ production. <i>Chemical Society Reviews</i> , 2016 , 45, 9-23	58.5	238
451	Dynamics of photogenerated holes in nanocrystalline α -Fe ₂ O ₃ electrodes for water oxidation probed by transient absorption spectroscopy. <i>Chemical Communications</i> , 2011 , 47, 716-8	5.8	234

450	A multimer model for P680, the primary electron donor of photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 4798-802	11.5	232
449	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102	33.3	231
448	Slow charge recombination in dye-sensitized solar cells (DSSC) using Al ₂ O ₃ coated nanoporous TiO ₂ films. <i>Chemical Communications</i> , 2002 , 1464-5	5.8	229
447	Activation energies for the rate-limiting step in water photooxidation by nanostructured Fe ₂ O ₃ and TiO ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 10134-40	16.4	225
446	Ambipolar Charge Transport in Films of Methanofullerene and Poly(phenylenevinylene)/Methanofullerene Blends. <i>Advanced Functional Materials</i> , 2005 , 15, 1171-1182	15.6	220
445	Structure/function relationships in dyes for solar energy conversion: a two-atom change in dye structure and the mechanism for its effect on cell voltage. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3541-8	16.4	218
444	Insights from Transient Optoelectronic Analyses on the Open-Circuit Voltage of Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1465-78	6.4	216
443	Supramolecular control of charge transfer in dye-sensitized nanocrystalline TiO ₂ films: towards a quantitative structure-function relationship. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5740-4	16.4	216
442	Water Splitting by Nanocrystalline TiO ₂ in a Complete Photoelectrochemical Cell Exhibits Efficiencies Limited by Charge Recombination. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4208-4214	3.8	212
441	Organic Photovoltaic Devices Based on Blends of Regioregular Poly(3-hexylthiophene) and Poly(9,9-dioctylfluorene-co-benzothiadiazole). <i>Chemistry of Materials</i> , 2004 , 16, 4812-4818	9.6	211
440	Solar-Driven Reduction of Aqueous Protons Coupled to Selective Alcohol Oxidation with a Carbon Nitride-Molecular Ni Catalyst System. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9183-92	16.4	210
439	Supramolecular control of charge-transfer dynamics on dye-sensitized nanocrystalline TiO ₂ films. <i>Chemistry - A European Journal</i> , 2004 , 10, 595-602	4.8	210
438	Rate law analysis of water oxidation on a hematite surface. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6629-37	16.4	208
437	Iodide Electron Transfer Kinetics in Dye-Sensitized Nanocrystalline TiO ₂ Films. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12203-12210	3.4	206
436	Ultrafast charge carrier recombination and trapping in hematite photoanodes under applied bias. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9854-7	16.4	204
435	Materials Design Considerations for Charge Generation in Organic Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 616-630	9.6	202
434	Versatile photocatalytic systems for H ₂ generation in water based on an efficient DuBois-type nickel catalyst. <i>Journal of the American Chemical Society</i> , 2014 , 136, 356-66	16.4	199
433	Electron Injection Efficiency and Diffusion Length in Dye-Sensitized Solar Cells Derived from Incident Photon Conversion Efficiency Measurements. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1126-1136	3.8	198

432	Measuring charge transport from transient photovoltage rise times. A new tool to investigate electron transport in nanoparticle films. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17155-60	3.4	197
431	Charge generation and transport in efficient organic bulk heterojunction solar cells with a perylene acceptor. <i>Energy and Environmental Science</i> , 2014 , 7, 435-441	35.4	194
430	Synthesis, structure, and properties of [Pt(II)(diimine)(dithiolate)] dyes with 3,3', 4,4', and 5,5'-disubstituted bipyridyl: applications in dye-sensitized solar cells. <i>Inorganic Chemistry</i> , 2005 , 44, 242-501	5.1	193
429	Quantification of geminate and non-geminate recombination losses within a solution-processed small-molecule bulk heterojunction solar cell. <i>Advanced Materials</i> , 2012 , 24, 2135-41	24	192
428	Charge Recombination in Conjugated Polymer/Fullerene Blended Films Studied by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1567-1573	3.4	190
427	Charge extraction analysis of charge carrier densities in a polythiophene/fullerene solar cell: Analysis of the origin of the device dark current. <i>Applied Physics Letters</i> , 2008 , 93, 183501	3.4	182
426	Quantifying Regeneration in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2439-2447	3.47	179
425	The origin of slow electron recombination processes in dye-sensitized solar cells with alumina barrier coatings. <i>Journal of Applied Physics</i> , 2004 , 96, 6903-6907	2.5	179
424	Transient optical studies of charge recombination dynamics in a polymer/fullerene composite at room temperature. <i>Applied Physics Letters</i> , 2002 , 81, 3001-3003	3.4	179
423	Charge Separation in Solid-State Dye-Sensitized Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7445-7446	16.4	179
422	Optical dynamics of excitons in J aggregates of a carbocyanine dye. <i>Journal of Chemical Physics</i> , 1995 , 102, 6362-6370	3.9	179
421	On the Differences between Dark and Light Ideality Factor in Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2371-2376	6.4	178
420	Engineering of a novel ruthenium sensitizer and its application in dye-sensitized solar cells for conversion of sunlight into electricity. <i>Inorganic Chemistry</i> , 2005 , 44, 178-80	5.1	178
419	Protein Adsorption on Nanocrystalline TiO ₂ Films: An Immobilization Strategy for Bioanalytical Devices. <i>Analytical Chemistry</i> , 1998 , 70, 5111-3	7.8	178
418	Composition and annealing effects in polythiophene/fullerene solar cells. <i>Journal of Materials Science</i> , 2005 , 40, 1371-1376	4.3	177
417	Effects of Side Chains on Thiazolothiazole-Based Copolymer Semiconductors for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 854-860	21.8	174
416	Direct Electrochemistry and Nitric Oxide Interaction of Heme Proteins Adsorbed on Nanocrystalline Tin Oxide Electrodes. <i>Langmuir</i> , 2003 , 19, 6894-6900	4	172
415	Correlating long-lived photogenerated hole populations with photocurrent densities in hematite water oxidation photoanodes. <i>Energy and Environmental Science</i> , 2012 , 5, 6304-6312	35.4	171

4 ¹⁴	Hybrid nanocrystalline TiO ₂ solar cells with a fluorene-thiophene copolymer as a sensitizer and hole conductor. <i>Journal of Applied Physics</i> , 2004 , 95, 1473-1480	2.5	171
4 ¹³	Enhanced photocatalytic hydrogen evolution from organic semiconductor heterojunction nanoparticles. <i>Nature Materials</i> , 2020 , 19, 559-565	27	171
4 ¹²	Silaindacenodithiophene-Based Low Band Gap Polymers The Effect of Fluorine Substitution on Device Performances and Film Morphologies. <i>Advanced Functional Materials</i> , 2012 , 22, 1663-1670	15.6	170
4 ¹¹	Factors that Affect Protein Adsorption on Nanostructured Titania Films. A Novel Spectroelectrochemical Application to Sensing. <i>Langmuir</i> , 2001 , 17, 7899-7906	4	164
4 ¹⁰	Cyanide sensing with organic dyes: studies in solution and on nanostructured Al ₂ O ₃ surfaces. <i>Chemistry - A European Journal</i> , 2008 , 14, 3006-12	4.8	163
4 ⁰⁹	Modulation of the Rate of Electron Injection in Dye-Sensitized Nanocrystalline TiO ₂ Films by Externally Applied Bias. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7424-7431	3.4	162
4 ⁰⁸	Light-driven oxygen scavenging by titania/polymer nanocomposite films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 162, 253-259	4.7	161
4 ⁰⁷	On the energetic dependence of charge separation in low-band-gap polymer/fullerene blends. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18189-92	16.4	160
4 ⁰⁶	Enhancing Light Absorption and Charge Transfer Efficiency in Carbon Dots through Graphitization and Core Nitrogen Doping. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6459-6463	16.4	156
4 ⁰⁵	Multistep electron transfer processes on dye co-sensitized nanocrystalline TiO ₂ films. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5670-1	16.4	155
4 ⁰⁴	The Effect of Polymer Optoelectronic Properties on the Performance of Multilayer Hybrid Polymer/TiO ₂ Solar Cells. <i>Advanced Functional Materials</i> , 2005 , 15, 609-618	15.6	153
4 ⁰³	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 4968	17.4	153
4 ⁰²	Kinetic competition in liquid electrolyte and solid-state cyanine dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3037-3044		152
4 ⁰¹	On the role of intermixed phases in organic photovoltaic blends. <i>Energy and Environmental Science</i> , 2013 , 6, 2756	35.4	150
4 ⁰⁰	Heterogeneous colorimetric sensor for mercuric salts. <i>Chemical Communications</i> , 2004 , 362-3	5.8	150
399	Electron Transfer Dynamics in Dye Sensitized Nanocrystalline Solar Cells Using a Polymer Electrolyte. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7517-7524	3.4	148
398	Effect of hydrocarbon chain length of amphiphilic ruthenium dyes on solid-state dye-sensitized photovoltaics. <i>Nano Letters</i> , 2005 , 5, 1315-20	11.5	146
397	Photochemical energy conversion: from molecular dyads to solar cells. <i>Chemical Communications</i> , 2006 , 3279-89	5.8	146

396	Measurement of Charge-Density Dependence of Carrier Mobility in an Organic Semiconductor Blend. <i>Advanced Functional Materials</i> , 2010 , 20, 698-702	15.6	145
395	A photophysical study of PCBM thin films. <i>Chemical Physics Letters</i> , 2007 , 445, 276-280	2.5	144
394	Organic photovoltaic cells promising indoor light harvesters for self-sustainable electronics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5618-5626	13	143
393	Transient Absorption Studies of Bimolecular Recombination Dynamics in Polythiophene/Fullerene Blend Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20934-20941	3.8	142
392	Transient Optoelectronic Analysis of Charge Carrier Losses in a Selenophene/Fullerene Blend Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5947-5957	3.8	141
391	Recombination in Annealed and Nonannealed Polythiophene/Fullerene Solar Cells: Transient Photovoltage Studies versus Numerical Modeling. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1432-1436	6.4	141
390	Robust nonfullerene solar cells approaching unity external quantum efficiency enabled by suppression of geminate recombination. <i>Nature Communications</i> , 2018 , 9, 2059	17.4	141
389	Charge Photogeneration for a Series of Thiazolo-Thiazole Donor Polymers Blended with the Fullerene Electron Acceptors PCBM and ICBA. <i>Advanced Functional Materials</i> , 2013 , 23, 3286-3298	15.6	140
388	Extended conjugated microporous polymers for photocatalytic hydrogen evolution from water. <i>Chemical Communications</i> , 2016 , 52, 10008-11	5.8	139
387	Electron Collection as a Limit to Polymer:PCBM Solar Cell Efficiency: Effect of Blend Microstructure on Carrier Mobility and Device Performance in PTB7:PCBM. <i>Advanced Energy Materials</i> , 2014 , 4, 1400311	21.8	139
386	An Efficient, "Burn in" Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1701156	24	138
385	Non-Geminate Recombination as the Primary Determinant of Open-Circuit Voltage in Polythiophene:Fullerene Blend Solar Cells: an Analysis of the Influence of Device Processing Conditions. <i>Advanced Functional Materials</i> , 2011 , 21, 2744-2753	15.6	137
384	Investigation of transport properties in polymer/fullerene blends using time-of-flight photocurrent measurements. <i>Applied Physics Letters</i> , 2003 , 83, 3812-3814	3.4	137
383	State selective electron injection in non-aggregated titanium phthalocyanine sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2004 , 2112-3	5.8	136
382	Fused dithienogermolodithiophene low band gap polymers for high-performance organic solar cells without processing additives. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2040-3	16.4	135
381	Photoinduced Absorption Spectroscopy of CoPi on BiVO ₄ : The Function of CoPi during Water Oxidation. <i>Advanced Functional Materials</i> , 2016 , 26, 4951-4960	15.6	135
380	Hybrid Solar Cells from a Blend of Poly(3-hexylthiophene) and Ligand-Capped TiO ₂ Nanorods. <i>Advanced Functional Materials</i> , 2008 , 18, 622-633	15.6	132
379	Dynamics of photogenerated charges in the phosphate modified TiO ₂ and the enhanced activity for photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2012 , 5, 6552	35.4	130

378	Interface Modification by Ionic Liquid: A Promising Candidate for Indoor Light Harvesting and Stability Improvement of Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801509	21.8	128
377	Charge Carrier Dynamics on Mesoporous WO ₃ during Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1900-1903	6.4	128
376	Correlating triplet yield, singlet oxygen generation and photochemical stability in polymer/fullerene blend films. <i>Chemical Communications</i> , 2013 , 49, 1291-3	5.8	125
375	Electron Dynamics in Nanocrystalline ZnO and TiO ₂ Films Probed by Potential Step Chronoamperometry and Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7605-7613	3.4	123
374	Is organic photovoltaics promising for indoor applications?. <i>Applied Physics Letters</i> , 2016 , 108, 253301	3.4	122
373	An effective approach of vapour assisted morphological tailoring for reducing metal defect sites in lead-free, (CH ₃ NH ₃) ₃ Bi ₂ I ₉ bismuth-based perovskite solar cells for improved performance and long-term stability. <i>Nano Energy</i> , 2018 , 49, 614-624	17.1	119
372	The influence of polymer purification on photovoltaic device performance of a series of indacenodithiophene donor polymers. <i>Advanced Materials</i> , 2013 , 25, 2029-34	24	119
371	Kinetic Competition in a Coumarin Dye-Sensitized Solar Cell: Injection and Recombination Limitations upon Device Performance. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8054-8061	3.8	119
370	Acceptor energy level control of charge photogeneration in organic donor/acceptor blends. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12919-26	16.4	119
369	Slow electron injection on Ru-Phthalocyanine sensitized TiO ₂ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 9250-1	16.4	119
368	DFT-INDO/S modeling of new high molar extinction coefficient charge-transfer sensitizers for solar cell applications. <i>Inorganic Chemistry</i> , 2006 , 45, 787-97	5.1	118
367	Flexible dye sensitised nanocrystalline semiconductor solar cells. <i>Chemical Communications</i> , 2003 , 3008-9.8	3.8	117
366	Molecular Engineering Using an Anthanthrone Dye for Low-Cost Hole Transport Materials: A Strategy for Dopant-Free, High-Efficiency, and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703007	21.8	115
365	Improving the photocatalytic reduction of CO ₂ to CO through immobilisation of a molecular Re catalyst on TiO ₂ . <i>Chemistry - A European Journal</i> , 2015 , 21, 3746-54	4.8	115
364	Understanding the Reduced Efficiencies of Organic Solar Cells Employing Fullerene Multiadducts as Acceptors. <i>Advanced Energy Materials</i> , 2013 , 3, 744-752	21.8	115
363	Photochemical stability of high efficiency PTB7:PC70BM solar cell blends. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20189-20195	13	114
362	A thieno[3,2-b][1]benzothiophene isoindigo building block for additive- and annealing-free high-performance polymer solar cells. <i>Advanced Materials</i> , 2015 , 27, 4702-7	24	113
361	Morphological stability and performance of polymer-fullerene solar cells under thermal stress: the impact of photoinduced PC60BM oligomerization. <i>ACS Nano</i> , 2014 , 8, 1297-308	16.7	111

360	Mechanism of O ₂ Production from Water Splitting: Nature of Charge Carriers in Nitrogen Doped Nanocrystalline TiO ₂ Films and Factors Limiting O ₂ Production. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3143-3150	3.8	111
359	Performance enhancement of fullerene-based solar cells by light processing. <i>Nature Communications</i> , 2013 , 4, 2227	17.4	110
358	Charge-Transfer State Dynamics Following Hole and Electron Transfer in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 209-15	6.4	110
357	Electron Diffusion Length in Mesoporous Nanocrystalline TiO ₂ Photoelectrodes during Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 967-972	6.4	109
356	Transient Absorption Spectroscopy of Anatase and Rutile: The Impact of Morphology and Phase on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10439-10447	3.8	107
355	Simulation and measurement of complete dye sensitised solar cells: including the influence of trapping, electrolyte, oxidised dyes and light intensity on steady state and transient device behaviour. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5798-816	3.6	107
354	From fullerene acceptors to non-fullerene acceptors: prospects and challenges in the stability of organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23361-23377	13	105
353	Electron transfer in dye-sensitised semiconductors modified with molecular cobalt catalysts: photoreduction of aqueous protons. <i>Chemistry - A European Journal</i> , 2012 , 18, 15464-75	4.8	104
352	Comment on Measurement of Ultrafast Photoinduced Electron Transfer from Chemically Anchored RuDye Molecules into Empty Electronic States in a Colloidal Anatase TiO ₂ Film. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3649-3650	3.4	104
351	Subpicosecond equilibration of excitation energy in isolated photosystem II reaction centers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 11632-6	11.5	103
350	Efficient suppression of back electron/hole recombination in cobalt phosphate surface-modified undoped bismuth vanadate photoanodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20649-20657	13	101
349	Where Do Photogenerated Holes Go in Anatase:Rutile TiO ₂ ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 715-23	2.8	101
348	Photochemical reduction of oxygen adsorbed to nanocrystalline TiO(2) films: a transient absorption and oxygen scavenging study of different TiO(2) preparations. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23255-63	3.4	101
347	Molecular control of recombination dynamics in dye sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2002 , 1260-1	5.8	101
346	Photochemistry and spectroscopy of a five-chlorophyll reaction center of photosystem II isolated by using a Cu affinity column. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 2929-33	11.5	101
345	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11219-11229	16.4	100
344	High-rate solar-light photoconversion of CO ₂ to fuel: controllable transformation from C ₁ to C ₂ products. <i>Energy and Environmental Science</i> , 2018 , 11, 3183-3193	35.4	100
343	Improved environmental stability of organic lead trihalide perovskite-based photoactive-layers in the presence of mesoporous TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7219-7223	13	99

342	Preparation and characterisation of novel thick sol-gel titania film photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 591-6	4.2	99
341	Dependence of Charge Separation Efficiency on Film Microstructure in Poly(3-hexylthiophene-2,5-diyl):[6,6]-Phenyl-C61 Butyric Acid Methyl Ester Blend Films. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 734-738	6.4	98
340	Local energetic disorder in molecular aggregates probed by the one-exciton to two-exciton transition. <i>Chemical Physics Letters</i> , 1994 , 222, 450-456	2.5	98
339	A new ruthenium polypyridyl dye, TG6, whose performance in dye-sensitized solar cells is surprisingly close to that of N719, the dye to beat for 17 years. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4246		96
338	Parameters affecting electron transfer dynamics from semiconductors to molecular catalysts for the photochemical reduction of protons. <i>Energy and Environmental Science</i> , 2013 , 6, 3291	35.4	95
337	Exciton Equilibration Induced by Phonons: Theory and Application to PS II Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7205-7210	3.4	95
336	Unravelling the effect of charge dynamics at the plasmonic metal/semiconductor interface for CO photoreduction. <i>Nature Communications</i> , 2018 , 9, 4986	17.4	94
335	Calculation of activation energies for transport and recombination in mesoporous TiO ₂ /dye/electrolyte films—taking into account surface charge shifts with temperature. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8544-7	3.4	93
334	Observation of pheophytin reduction in photosystem two reaction centers using femtosecond transient absorption spectroscopy. <i>Biochemistry</i> , 1992 , 31, 7638-47	3.2	93
333	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. <i>Nature Chemistry</i> , 2020 , 12, 82-89	17.6	93
332	Observable Hysteresis at Low Temperature in Hysteresis Free Organic-Inorganic Lead Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3190-3194	6.4	92
331	Multifunctional P-Doped TiO ₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. <i>Chemistry of Materials</i> , 2015 , 27, 3234-3242	9.6	92
330	Performance and stability of lead perovskite/TiO ₂ , polymer/PCBM, and dye sensitized solar cells at light intensities up to 70 suns. <i>Advanced Materials</i> , 2014 , 26, 6268-73	24	92
329	Enhanced Open Circuit Voltage and Efficiency of Donor-Acceptor Copolymer Solar Cells by Using Indene-C60 Bisadduct. <i>Chemistry of Materials</i> , 2012 , 24, 1995-2001	9.6	92
328	Limits on the Fill Factor in Organic Photovoltaics: Distinguishing Nongeminate and Geminate Recombination Mechanisms. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 803-8	6.4	91
327	Effect of Systematically Tuning Conjugated Donor Polymer Lowest Unoccupied Molecular Orbital Levels via Cyano Substitution on Organic Photovoltaic Device Performance. <i>Chemistry of Materials</i> , 2016 , 28, 5110-5120	9.6	91
326	Photovoltaic and field effect transistor performance of selenophene and thiophene diketopyrrolopyrrole co-polymers with dithienothiophene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12817		90
325	Ru(II)-phthalocyanine sensitized solar cells: the influence of co-adsorbents upon interfacial electron transfer kinetics. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5016		90

324	Effect of Internal Electric Fields on Charge Carrier Dynamics in a Ferroelectric Material for Solar Energy Conversion. <i>Advanced Materials</i> , 2016 , 28, 7123-8	24	90
323	The Effect of Residual Palladium Catalyst Contamination on the Photocatalytic Hydrogen Evolution Activity of Conjugated Polymers. <i>Advanced Energy Materials</i> , 2018 , 8, 1802181	21.8	89
322	Hybrid Bulk Heterojunction Solar Cells Based on P3HT and Porphyrin-Modified ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11273-11278	3.8	87
321	Effect of the End Group of Regioregular Poly(3-hexylthiophene) Polymers on the Performance of Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8137-8141	3.8	87
320	Metal-free dual-phase full organic carbon nanotubes/g-C ₃ N ₄ heteroarchitectures for photocatalytic hydrogen production. <i>Nano Energy</i> , 2018 , 50, 468-478	17.1	87
319	Exceptionally low charge trapping enables highly efficient organic bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 2422-2430	35.4	86
318	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. <i>Macromolecules</i> , 2010 , 43, 1169-1174	5.5	86
317	Titanium dioxide/carbon nitride nanosheet nanocomposites for gas phase CO ₂ photoreduction under UV-visible irradiation. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 369-378	21.8	86
316	Evaluation of Surface State Mediated Charge Recombination in Anatase and Rutile TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3742-3746	6.4	85
315	Impact of Oxygen Vacancy Occupancy on Charge Carrier Dynamics in BiVO ₄ Photoanodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18791-18798	16.4	85
314	Re-evaluation of recombination losses in dye-sensitized cells: the failure of dynamic relaxation methods to correctly predict diffusion length in nanoporous photoelectrodes. <i>Nano Letters</i> , 2009 , 9, 3532-8	11.5	85
313	Impact of Hydrothermal Processing Conditions on High Aspect Ratio Titanate Nanostructures. <i>Chemistry of Materials</i> , 2006 , 18, 6059-6068	9.6	85
312	Electron injection kinetics for the nanocrystalline TiO ₂ films sensitised with the dye (Bu ₄ N) ₂ Ru(dcbpyH) ₂ (NCS) ₂ . <i>Chemical Physics</i> , 2002 , 285, 127-132	2.3	85
311	Field-Independent Charge Photogeneration in PCPDTBT/PC70BM Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3306-3310	6.4	84
310	Transient absorption studies and numerical modeling of iodine photoreduction by nanocrystalline TiO ₂ films. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 142-50	3.4	83
309	Injection Limitations in a Series of Porphyrin Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3276-3279	3.8	82
308	Relating Recombination, Density of States, and Device Performance in an Efficient Polymer:Fullerene Organic Solar Cell Blend. <i>Advanced Energy Materials</i> , 2013 , 3, 1201-1209	21.8	81
307	Simultaneous Transient Absorption and Transient Electrical Measurements on Operating Dye-Sensitized Solar Cells: Elucidating the Intermediates in Iodide Oxidation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1953-1958	3.8	81

306	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. <i>Polymers</i> , 2016 , 8,	4.5	81
305	Enhancing fullerene-based solar cell lifetimes by addition of a fullerene dumbbell. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12870-5	16.4	80
304	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 417-428	35.4	79
303	Reducing charge recombination losses in solid state dye sensitized solar cells: the use of donor-acceptor sensitizer dyes. <i>Chemical Communications</i> , 2007 , 1725-7	5.8	79
302	Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. <i>Nature Communications</i> , 2020 , 11, 2531	17.4	78
301	Efficient charge collection in hybrid polymer/TiO ₂ solar cells using poly(ethylenedioxythiophene)/polystyrene sulphonate as hole collector. <i>Applied Physics Letters</i> , 2005 , 86, 143101	3.4	78
300	Protein adsorption on nanoporous TiO ₂ films: a novel approach to studying photoinduced protein/electrode transfer reactions. <i>Faraday Discussions</i> , 2000 , 35-46; discussion 67-75	3.6	78
299	Transient luminescence studies of electron injection in dye sensitised nanocrystalline TiO ₂ films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 142, 215-220	4.7	77
298	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO ₂ Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017 , 7, 4896-4903	13.1	76
297	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017 , 27, 1605413	15.6	76
296	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11537-11543	16.4	76
295	Synthesis, structure and properties of [Pt(2,2'-bipyridyl-5,5'-dicarboxylic acid)(3,4-toluenedithiolate)]: tuning molecular properties for application in dye-sensitised solar cells. <i>Dalton Transactions</i> , 2003 , 3757-3762	4.3	75
294	Modulation of quantum yield of primary radical pair formation in photosystem II by site-directed mutagenesis affecting radical cations and anions. <i>Biochemistry</i> , 1998 , 37, 17439-47	3.2	75
293	Formation, location and beneficial role of PbI ₂ in lead halide perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 119-126	5.8	74
292	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. <i>ACS Energy Letters</i> , 2017 , 2, 1494-1500	20.1	74
291	Transient emission studies of electron injection in dye sensitised solar cells. <i>Inorganica Chimica Acta</i> , 2008 , 361, 663-670	2.7	74
290	Nanocrystalline anatase TiO ₂ /reduced graphene oxide composite films as photoanodes for photoelectrochemical water splitting studies: the role of reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2608-16	3.6	73
289	Water Oxidation and Electron Extraction Kinetics in Nanostructured Tungsten Trioxide Photoanodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16168-16177	16.4	73

288	Acid versus base peptization of mesoporous nanocrystalline TiO ₂ films: functional studies in dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2005 , 15, 412		72
287	Thieno[3,2-b]thiophene-diketopyrrolopyrrole Containing Polymers for Inverted Solar Cells Devices with High Short Circuit Currents. <i>Advanced Functional Materials</i> , 2013 , 23, 5647-5654	15.6	71
286	The role of alkane dithiols in controlling polymer crystallization in small band gap polymer:Fullerene solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 717-724	2.6	71
285	Influence of Surface Recombination on Charge-Carrier Kinetics in Organic Bulk Heterojunction Solar Cells with Nickel Oxide Interlayers. <i>Physical Review Applied</i> , 2015 , 4,	4.3	70
284	Green fabrication of stable lead-free bismuth based perovskite solar cells using a non-toxic solvent. <i>Communications Chemistry</i> , 2019 , 2,	6.3	69
283	A quantitative structure-function relationship for the Photosystem II reaction center: supermolecular behavior in natural photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 946-51	11.5	69
282	Natures of optical absorption transitions and excitation energy dependent photostability of diketopyrrolopyrrole (DPP)-based photovoltaic copolymers. <i>Energy and Environmental Science</i> , 2015 , 8, 3222-3232	35.4	68
281	Enhanced photocatalytic activity of nc-TiO ₂ by promoting photogenerated electrons captured by the adsorbed oxygen. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8530-6	3.6	68
280	The mechanism behind the beneficial effect of light soaking on injection efficiency and photocurrent in dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 3494	35.4	68
279	Analysis of the Relationship between Linearity of Corrected Photocurrent and the Order of Recombination in Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2407-2411	6.4	68
278	Influence of Blend Morphology and Energetics on Charge Separation and Recombination Dynamics in Organic Solar Cells Incorporating a Nonfullerene Acceptor. <i>Advanced Functional Materials</i> , 2018 , 28, 1704389	15.6	68
277	Comparison of primary charge separation in the photosystem II reaction center complex isolated from wild-type and D1-130 mutants of the cyanobacterium <i>Synechocystis</i> PCC 6803. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2093-101	5.4	67
276	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. <i>Nature Communications</i> , 2017 , 8, 14280	17.4	66
275	A polymer gel electrolyte composed of a poly(ethylene oxide) copolymer and the influence of its composition on the dynamics and performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2010 , 195, 1246-1255	8.9	66
274	Proton-coupled electron transfer of flavodoxin immobilized on nanostructured tin dioxide electrodes: thermodynamics versus kinetics control of protein redox function. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8001-9	16.4	66
273	Polaron pair mediated triplet generation in polymer/fullerene blends. <i>Nature Communications</i> , 2015 , 6, 6501	17.4	65
272	Acoustic enhancement of polymer/ZnO nanorod photovoltaic device performance. <i>Advanced Materials</i> , 2014 , 26, 263-8	24	64
271	Twist and Degrade Impact of Molecular Structure on the Photostability of Nonfullerene Acceptors and Their Photovoltaic Blends. <i>Advanced Energy Materials</i> , 2019 , 9, 1803755	21.8	62

270	Spectroelectrochemical study of water oxidation on nickel and iron oxyhydroxide electrocatalysts. <i>Nature Communications</i> , 2019 , 10, 5208	17.4	62
269	Charge photogeneration in polythiophene-perylene diimide blend films. <i>Chemical Communications</i> , 2009 , 5445-7	5.8	62
268	Singlet exciton transfer and fullerene triplet formation in polymer-fullerene blend films. <i>Applied Physics Letters</i> , 2006 , 89, 101128	3.4	62
267	Synthesis of novel thieno[3,2-b]thienobis(silolothiophene) based low bandgap polymers for organic photovoltaics. <i>Chemical Communications</i> , 2012 , 48, 7699-701	5.8	60
266	Solar H evolution in water with modified diketopyrrolopyrrole dyes immobilised on molecular Co and Ni catalyst-TiO hybrids. <i>Chemical Science</i> , 2017 , 8, 3070-3079	9.4	59
265	Control of Photocurrent Generation in Polymer/ZnO Nanorod Solar Cells by Using a Solution-Processed TiO ₂ Overlayer. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 708-713	6.4	59
264	Transient optical studies of interfacial energetic disorder at nanostructured dye-sensitised inorganic/organic semiconductor heterojunctions. <i>ChemPhysChem</i> , 2003 , 4, 89-93	3.2	59
263	BPTs: thiophene-flanked benzodipyrrolidone conjugated polymers for ambipolar organic transistors. <i>Chemical Communications</i> , 2013 , 49, 4465-7	5.8	58
262	Elucidating the Origins of Subgap Tail States and Open-Circuit Voltage in Methylammonium Lead Triiodide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1801808	15.6	58
261	Determining the role of oxygen vacancies in the photoelectrocatalytic performance of WO for water oxidation. <i>Chemical Science</i> , 2020 , 11, 2907-2914	9.4	57
260	Influence of doping on charge carrier collection in normal and inverted geometry polymer:fullerene solar cells. <i>Scientific Reports</i> , 2013 , 3,	4.9	57
259	Transient Optoelectronic Analysis of the Impact of Material Energetics and Recombination Kinetics on the Open-Circuit Voltage of Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13496-13506	3.8	56
258	Effect of oxygen deficiency on the excited state kinetics of WO and implications for photocatalysis. <i>Chemical Science</i> , 2019 , 10, 5667-5677	9.4	56
257	Understanding the Apparent Charge Density Dependence of Mobility and Lifetime in Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8837-8842	3.8	56
256	Material Crystallinity as a Determinant of Triplet Dynamics and Oxygen Quenching in Donor Polymers for Organic Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2014 , 24, 1474-1482	15.6	56
255	Effect of multiple adduct fullerenes on charge generation and transport in photovoltaic blends with poly(3-hexylthiophene-2,5-diyl). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 45-51	2.6	56
254	Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films. <i>Energy and Environmental Science</i> , 2010 , 3, 971	35.4	56
253	Primary processes in isolated Photosystem II reaction centres probed by magic angle transient absorption spectroscopy. <i>Chemical Physics</i> , 1995 , 194, 433-442	2.3	56

252	Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14574-14587	16.4	56
251	Charge Photogeneration in Low Band Gap Polyselenophene/Fullerene Blend Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8068-8075	3.8	55
250	The role of gel electrolyte composition in the kinetics and performance of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2008 , 53, 7166-7172	6.7	55
249	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5315-5323	13.3	55
248	Tuning CH ₃ NH ₃ Pb(I _{1-x} Br _x) ₃ perovskite oxygen stability in thin films and solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9553-9560	13	54
247	Rate Law Analysis of Water Oxidation and Hole Scavenging on a BiVO ₄ Photoanode. <i>ACS Energy Letters</i> , 2016 , 1, 618-623	20.1	54
246	Acceleration effects of phosphate modification on the decay dynamics of photo-generated electrons of TiO ₂ and its photocatalytic activity. <i>Chemical Communications</i> , 2012 , 48, 10775-7	5.8	54
245	Efficient Charge Photogeneration by the Dissociation of PC70BM Excitons in Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 140-144	6.4	54
244	Analysis of charge photogeneration as a key determinant of photocurrent density in polymer: fullerene solar cells. <i>Advanced Materials</i> , 2010 , 22, 5287-91	24	54
243	Impedance spectroscopy study of dye-sensitized solar cells with undoped spiro-OMeTAD as hole conductor. <i>Journal of Applied Physics</i> , 2006 , 100, 034510	2.5	54
242	Additive-assisted supramolecular manipulation of polymer:fullerene blend phase morphologies and its influence on photophysical processes. <i>Materials Horizons</i> , 2014 , 1, 270-279	14.4	53
241	Distorted asymmetric cubic nanostructure of soluble fullerene crystals in efficient polymer:fullerene solar cells. <i>ACS Nano</i> , 2009 , 3, 2557-62	16.7	53
240	In situ observation of picosecond polaron self-localisation in FeO photoelectrochemical cells. <i>Nature Communications</i> , 2019 , 10, 3962	17.4	52
239	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. <i>Energy and Environmental Science</i> , 2020 , 13, 1843-1855	35.4	51
238	A functionalised nickel cyclam catalyst for CO ₂ reduction: electrocatalysis, semiconductor surface immobilisation and light-driven electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1562-6	3.6	50
237	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 4239-4249	9.6	50
236	Benzotrithiophene Co-polymers with High Charge Carrier Mobilities in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2011 , 23, 4025-4031	9.6	50
235	Demonstration of a novel, flexible, photocatalytic oxygen-scavenging polymer film. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 177, 328-331	4.7	50

234	Radical ion pair mediated triplet formation in polymer-fullerene blend films. <i>Chemical Communications</i> , 2006 , 3939-41	5.8	50
233	Toward Improved Environmental Stability of Polymer:Fullerene and Polymer:Nonfullerene Organic Solar Cells: A Common Energetic Origin of Light- and Oxygen-Induced Degradation. <i>ACS Energy Letters</i> , 2019 , 4, 846-852	20.1	49
232	Germaindacenodithiophene based low band gap polymers for organic solar cells. <i>Chemical Communications</i> , 2012 , 48, 2955-7	5.8	49
231	Charge carrier separation in nanostructured TiO ₂ photoelectrodes for water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8772-8	3.6	49
230	A nickel-complex sensitiser for dye-sensitised solar cells. <i>Solar Energy</i> , 2011 , 85, 1195-1203	6.8	49
229	One step facile synthesis of a novel anthanthrone dye-based, dopant-free hole transporting material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3699-3708	7.1	48
228	Pyrrroloindacenodithiophene containing polymers for organic field effect transistors and organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18744		48
227	Spectroelectrochemical characterization of a pentaheme cytochrome in solution and as electrocatalytically active films on nanocrystalline metal-oxide electrodes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8588-9	16.4	48
226	Functionalizing nanocrystalline metal oxide electrodes with robust synthetic redox proteins. <i>ChemBioChem</i> , 2003 , 4, 1332-9	3.8	47
225	Does slow energy transfer limit the observed time constant for radical pair formation in photosystem II reaction centers?. <i>Biochemistry</i> , 1994 , 33, 14768-74	3.2	47
224	Interfacial charge separation in Cu ₂ O/RuO(x) as a visible light driven CO ₂ reduction catalyst. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5922-6	3.6	46
223	Novel ruthenium bipyridyl dyes with S-donor ligands and their application in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 202, 196-204	4.7	46
222	Rate of oxidation of P680 in isolated photosystem 2 reaction centers monitored by loss of chlorophyll stimulated emission. <i>Biochemistry</i> , 1993 , 32, 8259-67	3.2	46
221	Unraveling Charge Transfer in CoFe Prussian Blue Modified BiVO ₄ Photoanodes. <i>ACS Energy Letters</i> , 2019 , 4, 337-342	20.1	46
220	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. <i>Chemistry of Materials</i> , 2016 , 28, 8366-8378	9.6	45
219	Sub-picosecond Equilibration of Excitation Energy in Isolated Photosystem II Reaction Centers Revisited: Time-Dependent Anisotropy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10469-10478		45
218	One-Step Facile Synthesis of a Simple Hole Transport Material for Efficient Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2515-2518	9.6	45
217	Evidence for surface defect passivation as the origin of the remarkable photostability of unencapsulated perovskite solar cells employing aminovaleric acid as a processing additive. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3006-3011	13	44

216	Distance dependent charge separation and recombination in semiconductor/molecular catalyst systems for water splitting. <i>Chemical Communications</i> , 2014 , 50, 12768-71	5.8	44
215	Charge recombination in polymer/fullerene photovoltaic devices. <i>Thin Solid Films</i> , 2004 , 451-452, 508-514	4.2	44
214	Toward Improved Lifetimes of Organic Solar Cells under Thermal Stress: Substrate-Dependent Morphological Stability of PCDTBT:PCBM Films and Devices. <i>Scientific Reports</i> , 2015 , 5, 15149	4.9	43
213	Suppression of Recombination Losses in Polymer:Nonfullerene Acceptor Organic Solar Cells due to Aggregation Dependence of Acceptor Electron Affinity. <i>Advanced Energy Materials</i> , 2019 , 9, 1901254	21.8	42
212	Energy versus electron transfer in organic solar cells: a comparison of the photophysics of two indenofluorene: fullerene blend films. <i>Chemical Science</i> , 2011 , 2, 1111	9.4	42
211	Concentration-Dependent Hole Mobility and Recombination Coefficient in Bulk Heterojunctions Determined from Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3096-3100	6.4	42
210	Photoelectrochemical study of Zn cytochrome-c immobilised on a nanoporous metal oxide electrode. <i>Chemical Communications</i> , 2002 , 1518-9	5.8	42
209	Determination of P680 singlet state lifetimes in photosystem two reaction centres. <i>Chemical Physics Letters</i> , 1992 , 188, 54-60	2.5	42
208	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , 2019 , 10, 5159	17.4	41
207	Transient absorption spectroscopy of charge photogeneration yields and lifetimes in a low bandgap polymer/fullerene film. <i>Chemical Communications</i> , 2009 , 89-91	5.8	41
206	Outstanding Indoor Performance of Perovskite Photovoltaic Cells Effect of Device Architectures and Interlayers. <i>Solar Rrl</i> , 2019 , 3, 1800207	7.1	41
205	Interfacial Engineering of a Carbon NitrideGraphene OxideMolecular Ni Catalyst Hybrid for Enhanced Photocatalytic Activity. <i>ACS Catalysis</i> , 2018 , 8, 6914-6926	13.1	40
204	New Fused Bis-Thienobenzothienothiophene Copolymers and Their Use in Organic Solar Cells and Transistors. <i>Macromolecules</i> , 2013 , 46, 727-735	5.5	40
203	WO/BiVO: impact of charge separation at the timescale of water oxidation. <i>Chemical Science</i> , 2019 , 10, 2643-2652	9.4	39
202	Increased Exciton Dipole Moment Translates into Charge-Transfer Excitons in Thiophene-Fluorinated Low-Bandgap Polymers for Organic Photovoltaic Applications. <i>Chemistry of Materials</i> , 2015 , 27, 7934-7944	9.6	39
201	Analysis of Recombination Losses in a Pentacene/C60 Organic Bilayer Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2759-2763	6.4	39
200	Synthesis and Exciton Dynamics of Triplet Sensitized Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10383-90	16.4	38
199	Zn(II) versus Ru(II) phthalocyanine-sensitised solar cells. A comparison between singlet and triplet electron injectors. <i>Energy and Environmental Science</i> , 2010 , 3, 1573	35.4	38

198	Relationship between excitation energy transfer, trapping, and antenna size in photosystem II. <i>Biochemistry</i> , 2001 , 40, 4026-34	3.2	38
197	Comparing photoelectrochemical water oxidation, recombination kinetics and charge trapping in the three polymorphs of TiO. <i>Scientific Reports</i> , 2017 , 7, 2938	4.9	37
196	Charge separation and fullerene triplet formation in blend films of polyfluorene polymers with [6,6]-phenyl C61 butyric acid methyl ester. <i>Dalton Transactions</i> , 2009 , 10000-5	4.3	37
195	Towards optimisation of photocurrent from fullerene excitons in organic solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1037	35.4	36
194	Unravelling the pH-dependence of a molecular photocatalytic system for hydrogen production. <i>Chemical Science</i> , 2015 , 6, 4855-4859	9.4	36
193	Cyclic voltammetry and voltabsorptometry studies of redox proteins immobilised on nanocrystalline tin dioxide electrodes. <i>Bioelectrochemistry</i> , 2004 , 63, 55-9	5.6	36
192	A supramolecular approach to lithium ion solvation at nanostructured dye sensitised inorganic/organic heterojunctions. <i>Chemical Communications</i> , 2003 , 2878-9	5.8	36
191	The Excitation Wavelength and Solvent Dependence of the Kinetics of Electron Injection in Ru(dcbpy) ₂ (NCS) ₂ Sensitized Nanocrystalline TiO ₂ Films. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999 , 212, 93-98	3.1	36
190	Excitation Density Dependent Photoluminescence Quenching and Charge Transfer Efficiencies in Hybrid Perovskite/Organic Semiconductor Bilayers. <i>Advanced Energy Materials</i> , 2018 , 8, 1802474	21.8	36
189	The kinetics of metal oxide photoanodes from charge generation to catalysis. <i>Nature Reviews Materials</i> ,	73.3	36
188	Strongly oxidizing perylene-3,4-dicarboximides for use in water oxidation photoelectrochemical cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2880-2893	13	35
187	All-Rounder Low-Cost Dopant-Free D-A-D Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900884	6.4	35
186	Polymer chain/nanocrystal ordering in thin films of regioregular poly(3-hexylthiophene) and blends with a soluble fullerene. <i>Soft Matter</i> , 2006 , 3, 117-121	3.6	35
185	Triplet state photosensitization of nanocrystalline metal oxide electrodes by zinc-substituted cytochrome c: application to hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15120-6	16.4	35
184	Origin of Open-Circuit Voltage Enhancements in Planar Perovskite Solar Cells Induced by Addition of Bulky Organic Cations. <i>Advanced Functional Materials</i> , 2020 , 30, 1906763	15.6	35
183	Enhancing Light Absorption and Charge Transfer Efficiency in Carbon Dots through Graphitization and Core Nitrogen Doping. <i>Angewandte Chemie</i> , 2017 , 129, 6559-6563	3.6	34
182	p-Doping of organic hole transport layers in p-i-n perovskite solar cells: correlating open-circuit voltage and photoluminescence quenching. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18971-18979	13	34
181	Origin of Open-Circuit Voltage Losses in Perovskite Solar Cells Investigated by Surface Photovoltage Measurement. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46808-46817	9.5	34

180	Influence of the Hole Transporting Layer on the Thermal Stability of Inverted Organic Photovoltaics Using Accelerated-Heat Lifetime Protocols. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14136-14144	9.5	33
179	End Group Tuning in Acceptor-Donor-Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1808429	15.6	33
178	Modulating interfacial electron transfer dynamics in dye sensitised nanocrystalline metal oxide films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 148, 5-10	4.7	33
177	Highly stable inverted methylammonium lead tri-iodide perovskite solar cells achieved by surface re-crystallization. <i>Energy and Environmental Science</i> , 2020 , 13, 840-847	35.4	32
176	Hybrid polymer-metal oxide solar cells by in situ chemical polymerization. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5377		32
175	Interface engineering for solid-state dye-sensitised nanocrystalline solar cells: the use of an organic redox cascade. <i>Chemical Communications</i> , 2006 , 535-7	5.8	32
174	Spectroelectrochemical studies of hole percolation on functionalised nanocrystalline TiO ₂ films: a comparison of two different ruthenium complexes. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1575-84	3.6	31
173	Practical challenges in the development of photoelectrochemical solar fuels production. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 985-995	5.8	31
172	Electron transfer dynamics in fuel producing photosystems. <i>Current Opinion in Electrochemistry</i> , 2017 , 2, 136-143	7.2	30
171	Interplay Between Triplet-, Singlet-Charge Transfer States and Free Charge Carriers Defining Bimolecular Recombination Rate Constant of Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13969-13976	3.8	30
170	Understanding the visible-light photocatalytic activity of GaN:ZnO solid solution: the role of Rh Cr O cocatalyst and charge carrier lifetimes over tens of seconds. <i>Chemical Science</i> , 2018 , 9, 7546-7555	9.4	30
169	Solid film versus solution-phase charge-recombination dynamics of exTTF-bridge-C60 dyads. <i>Chemistry - A European Journal</i> , 2005 , 11, 7440-7	4.8	30
168	New peripherally-substituted naphthalocyanines: synthesis, characterisation and evaluation in dye-sensitised photoelectrochemical solar cells. <i>New Journal of Chemistry</i> , 2002 , 26, 1076-1080	3.6	30
167	Light-intensity and thickness dependent efficiency of planar perovskite solar cells: charge recombination versus extraction. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12648-12655	7.1	30
166	Efficient Hole Trapping in Carbon Dot/Oxygen-Modified Carbon Nitride Heterojunction Photocatalysts for Enhanced Methanol Production from CO under Neutral Conditions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20811-20816	16.4	30
165	Kinetic Analysis of an Efficient Molecular Light-Driven Water Oxidation System. <i>ACS Catalysis</i> , 2017 , 7, 5142-5150	13.1	29
164	A Comparison of Charge Separation Dynamics in Organic Blend Films Employing Fullerene and Perylene Diimide Electron Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 201-5	6.4	29
163	Solar Reforming of Biomass with Homogeneous Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18184-18188	16.4	29

162	Fluorine doped tin oxide as an alternative of indium tin oxide for bottom electrode of semi-transparent organic photovoltaic devices. <i>AIP Advances</i> , 2019 , 9, 085220	1.5	28
161	Hybrid Heterojunction Nanorods for Nanoscale Controlled Morphology in Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10881-10888	3.8	28
160	Hybrid bulk heterojunction solar cells based on blends of TiO ₂ nanorods and P3HT. <i>Comptes Rendus Physique</i> , 2008 , 9, 110-118	1.4	27
159	Origin of Performance Enhancement in TiO ₂ -Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019 , 3, 1900164	12.8	26
158	The binding energy and dynamics of charge-transfer states in organic photovoltaics with low driving force for charge separation. <i>Journal of Chemical Physics</i> , 2019 , 150, 104704	3.9	26
157	Spectroscopic Investigation of the Effect of Microstructure and Energetic Offset on the Nature of Interfacial Charge Transfer States in Polymer: Fullerene Blends. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4634-4643	16.4	26
156	Photocurrents from photosystem II in a metal oxide hybrid system: Electron transfer pathways. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 1497-1505	4.6	26
155	Charge Separation, Band-Bending, and Recombination in WO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5395-5401	6.4	26
154	Characterisation of a ruthenium bipyridyl dye showing a long-lived charge-separated state on TiO ₂ in the presence of I ⁻ /I ₃ ⁻ . <i>Dalton Transactions</i> , 2010 , 39, 4138-45	4.3	26
153	Synthesis and characterization of ZnO and ZnO:Ga films and their application in dye-sensitized solar cells. <i>Dalton Transactions</i> , 2008 , 1487-91	4.3	25
152	Ultrasmall Co ₃ O ₄ Nanocrystals Strongly Enhance Solar Water Splitting on Mesoporous Hematite. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500358	4.6	24
151	Optical sensing of cyanide using hybrid biomolecular films. <i>Inorganic Chemistry Communication</i> , 2006 , 9, 1239-1242	3.1	24
150	Exciton and Charge Carrier Dynamics in Highly Crystalline PTQ10:IDIC Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001149	21.8	24
149	Orientation dependent molecular electrostatics drives efficient charge generation in homojunction organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4617	17.4	24
148	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , 2021 , 20, 511-517	27	24
147	Efficient and photostable ternary organic solar cells with a narrow band gap non-fullerene acceptor and fullerene additive. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6682-6691	13	23
146	Barbiturate end-capped non-fullerene acceptors for organic solar cells: tuning acceptor energetics to suppress geminate recombination losses. <i>Chemical Communications</i> , 2018 , 54, 2966-2969	5.8	23
145	Optimisation of diketopyrrolopyrrole:fullerene solar cell performance through control of polymer molecular weight and thermal annealing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19282-19289	13	23

144	The effect of temperature on the charge transport and transient absorption properties of K27 sensitized DSSC. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1047-1053	6.4	23
143	Supermolecular Control of Charge Transfer in Dye-Sensitized Nanocrystalline TiO ₂ Films: Towards a Quantitative Structure-Function Relationship. <i>Angewandte Chemie</i> , 2005 , 117, 5886-5890	3.6	23
142	Towards Efficient Integrated Perovskite/Organic Bulk Heterojunction Solar Cells: Interfacial Energetic Requirement to Reduce Charge Carrier Recombination Losses. <i>Advanced Functional Materials</i> , 2020 , 30, 2001482	15.6	22
141	All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors: Synthesis and Full Characterization. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44667-44677	9.5	22
140	Opportunities for mesoporous nanocrystalline SnO ₂ electrodes in kinetic and catalytic analyses of redox proteins. <i>Biochemical Society Transactions</i> , 2009 , 37, 368-72	5.1	22
139	Rational design of a neutral pH functional and stable organic photocathode. <i>Chemical Communications</i> , 2018 , 54, 5732-5735	5.8	22
138	Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. <i>Nature Energy</i> ,	62.3	22
137	Toward Visibly Transparent Organic Photovoltaic Cells Based on a Near-Infrared Harvesting Bulk Heterojunction Blend. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32764-32770	9.5	21
136	ZnO-PCBM bilayers as electron transport layers in low-temperature processed perovskite solar cells. <i>Science Bulletin</i> , 2018 , 63, 343-348	10.6	21
135	Stability of Polymer:PCBM Thin Films under Competitive Illumination and Thermal Stress. <i>Advanced Functional Materials</i> , 2018 , 28, 1802520	15.6	21
134	Passivation against oxygen and light induced degradation by the PCBM electron transport layer in planar perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1686-1692	5.8	21
133	Direct spectroelectrochemistry of peroxidases immobilised on mesoporous metal oxide electrodes: Towards reagentless hydrogen peroxide sensing. <i>Analytica Chimica Acta</i> , 2009 , 648, 2-6	6.6	21
132	Interfacial electron transfer on cytochrome-c sensitised conformally coated mesoporous TiO ₂ films. <i>Bioelectrochemistry</i> , 2008 , 74, 142-8	5.6	21
131	The entanglement of excitation energy transfer and electron transfer in the reaction centre of photosystem II. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998 , 356, 449-464	3	21
130	Structure-activity relationships in well-defined conjugated oligomer photocatalysts for hydrogen production from water. <i>Chemical Science</i> , 2020 , 11, 8744-8756	9.4	21
129	Multiphoton Absorption Stimulated Metal Chalcogenide Quantum Dot Solar Cells under Ambient and Concentrated Irradiance. <i>Advanced Functional Materials</i> , 2020 , 30, 2004563	15.6	21
128	Charge Separation in Intermixed Polymer:PC70BM Photovoltaic Blends: Correlating Structural and Photophysical Length Scales as a Function of Blend Composition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9790-9801	3.8	20
127	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22739-22747	9.5	20

126	DYE-SENSITISED MESOSCOPIC SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2008 , 503-536	20
125	Room Temperature Synthesis of Phosphine-Capped Lead Bromide Perovskite Nanocrystals without Coordinating Solvents. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 1900391	3.1 20
124	An Analysis of the Factors Determining the Efficiency of Photocurrent Generation in Polymer:Nonfullerene Acceptor Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801537	21.8 20
123	Manipulating the Optical Properties of Carbon Dots by Fine-Tuning their Structural Features. <i>ChemSusChem</i> , 2019 , 12, 4432-4441	8.3 19
122	The effect of thiadiazole out-backbone displacement in indacenodithiophene semiconductor polymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8789-8795	7.1 19
121	Dihydropyrroloindoleione-based copolymers for organic electronics. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2711	7.1 19
120	Correlating Charge-Transfer State Lifetimes with Material Energetics in Polymer:Non-Fullerene Acceptor Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7599-7603	16.4 19
119	Bi ₂ Fe ₄ O ₉ thin films as novel visible-light-active photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9537-9541	13 18
118	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903248	21.8 18
117	Fused Cyclopentadithienothiophene Acceptor Enables Ultrahigh Short-Circuit Current and High Efficiency >11% in As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1904956	15.6 18
116	Use of microperoxidase-11 to functionalize tin dioxide electrodes for the optical and electrochemical sensing of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2011 , 686, 126-32	6.6 18
115	Synthesis and properties of [Pt(4-CO(2)CH(3)-py)(2)(mnt)]: comparison of pyridyl and bipyridyl-based dyes for solar cells. <i>Dalton Transactions</i> , 2008 , 6940-7	4.3 18
114	Additive-free, Low-temperature Crystallization of Stable FAPbI Perovskite. <i>Advanced Materials</i> , 2021 , e2107850	24 18
113	Interlaboratory indoor ageing of roll-to-roll and spin coated organic photovoltaic devices: Testing the ISOS tests. <i>Polymer Degradation and Stability</i> , 2014 , 109, 162-170	4.7 17
112	Exciton and Charge Generation in PC60BM Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14470-14475	3.4 17
111	Freestanding Polymer/Metal Oxide Nanocomposite Films for Light-Driven Oxygen Scavenging. <i>Advanced Materials</i> , 2005 , 17, 2365-2368	24 17
110	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7285-7290	6.4 17
109	Ultra-thin Al ₂ O ₃ coatings on BiVO ₄ photoanodes: Impact on performance and charge carrier dynamics. <i>Catalysis Today</i> , 2019 , 321-322, 59-66	5.3 17

108	P450 versus P420: correlation between cyclic voltammetry and visible absorption spectroscopy of the immobilized heme domain of cytochrome P450 BM3. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14063-14068	3.4	16
107	Understanding Structure-Property Relationships in All-Small-Molecule Solar Cells Incorporating a Fullerene or Nonfullerene Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36037-36046	9.5	16
106	Enhancing Light Absorption and Prolonging Charge Separation in Carbon Quantum Dots Cl-Doping for Visible-Light-Driven Photocharge-Transfer Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34648-34657	9.5	16
105	In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22858-22864	3.8	15
104	Kinetic competition in flexible dye sensitised solar cells employing a series of polymer electrolytes. <i>Chemical Communications</i> , 2006 , 877-9	5.8	15
103	Tuning Charge Carrier Dynamics and Surface Passivation in Organolead Halide Perovskites with Capping Ligands and Metal Oxide Interfaces. <i>Advanced Optical Materials</i> , 2018 , 6, 1701203	8.1	14
102	Round robin performance testing of organic photovoltaic devices. <i>Renewable Energy</i> , 2014 , 63, 376-387	8.1	14
101	Power conversion efficiency enhancement in diketopyrrolopyrrole based solar cells through polymer fractionation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8593-8598	7.1	14
100	Intercalated vs Nonintercalated Morphologies in Donor-Acceptor Bulk Heterojunction Solar Cells: PBTTT:Fullerene Charge Generation and Recombination Revisited. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4061-4068	6.4	14
99	Enhancing the operational stability of unencapsulated perovskite solar cells through CuAg bilayer electrode incorporation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8684-8691	13	14
98	Probing and Controlling Intragrain Crystallinity for Improved Low Temperature Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1803943	15.6	14
97	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017 , 7, 1485-1490	13.1	13
96	Synergetic enhancement of organic solar cell thermal stability by wire bar coating and light processing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9551-9558	7.1	13
95	Understanding the Effect of Unintentional Doping on Transport Optimization and Analysis in Efficient Organic Bulk-Heterojunction Solar Cells. <i>Physical Review X</i> , 2015 , 5,	9.1	13
94	Dinuclear Ru ^{II} Complexes: Electronic Characterisation and Application to Dye-Sensitised Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 589-596	2.3	13
93	Impact of concentration self-quenching on the charge generation yield of fullerene based donor-bridge-acceptor compounds in the solid state. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3721-3726	3.6	13
92	Photophysical Study of DPPTT-T/PC70BM Blends and Solar Devices as a Function of Fullerene Loading: An Insight into EQE Limitations of DPP-Based Polymers. <i>Advanced Functional Materials</i> , 2017 , 27, 1604426	15.6	12
91	Oxygen diffusion dynamics in organic semiconductor films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10079-10084	7.1	12

90	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014 , 50, 14425-8	5.8	12
89	Charge Carrier Dynamics in Metal Oxide Photoelectrodes for Water Oxidation. <i>Semiconductors and Semimetals</i> , 2017 , 3-46	0.6	12
88	Functionalized titania nanoparticles for mercury scavenging. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2028-2032		12
87	Molecular approaches to solar energy conversion: the energetic cost of charge separation from molecular-excited states. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120195	3	11
86	Inter versus intra-molecular photoinduced charge separation in solid films of donor-acceptor molecules. <i>Chemical Communications</i> , 2008 , 4915-7	5.8	11
85	Solar Reforming of Biomass with Homogeneous Carbon Dots. <i>Angewandte Chemie</i> , 2020 , 132, 18341-18345	3.5	11
84	Phosphorene Nanoribbon-Augmented Optoelectronics for Enhanced Hole Extraction.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21549-21559	16.4	11
83	Artificial photosynthesis - concluding remarks. <i>Faraday Discussions</i> , 2019 , 215, 439-451	3.6	10
82	Stability study of thermal cycling on organic solar cells. <i>Journal of Materials Research</i> , 2018 , 33, 1902-1908	0.5	10
81	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 244904	3.9	10
80	Synthesis and photo-induced charge separation of confined conjugation length phenylene vinylene-based polymers. <i>Polymer Chemistry</i> , 2013 , 4, 5305	4.9	10
79	Comparison of primary electron transfer in Photosystem II reaction centres isolated from the higher plant <i>Pisum sativum</i> and the green alga <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1186, 247-251	4.6	10
78	Combined Precursor Engineering and Grain Anchoring Leading to MA-Free, Phase-Pure, and Stable Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27299	16.4	10
77	Electronic defects in metal oxide photocatalysts. <i>Nature Reviews Materials</i> ,	73.3	10
76	Impact of Initial Bulk-Heterojunction Morphology on Operational Stability of Polymer:Fullerene Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801763	4.6	9
75	Morphology-performance relationships in polymer/fullerene blends probed by complementary characterisation techniques Effects of nanowire formation and subsequent thermal annealing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9224-9232	7.1	9
74	Correlating Non-Geminate Recombination with Film Structure: A Comparison of Polythiophene: Fullerene Bilayer and Blend Films. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3669-76	6.4	9
73	Transient absorption spectroscopy of the primary electron donor, P680, in the isolated photosystem II reaction centre. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990 , 1018, 168-172	4.6	9

72	A Comparison of Charge Carrier Dynamics in Organic and Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , e2101833	24	9
71	Covalent grafting of molecular catalysts on CN H as robust, efficient and well-defined photocatalysts for solar fuel synthesis. <i>Chemical Science</i> , 2020 , 11, 8425-8432	9.4	9
70	Aerosol Assisted Solvent Treatment: A Universal Method for Performance and Stability Enhancements in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2101420	21.8	9
69	Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021 , 2, 100498	6.1	9
68	TOF mobility measurements in pristine films of P3HT: control of hole injection and influence of film thickness 2006 , 6334, 16		8
67	Excited state spectroscopy in polymer fullerene photovoltaic devices under operation conditions. <i>Synthetic Metals</i> , 2003 , 139, 577-580	3.6	8
66	Charge recombination in CuPc/PTCDA thin films. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11693-6	3.4	8
65	Separating bulk and surface processes in NiOx electrocatalysts for water oxidation. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5024-5030	5.8	8
64	Dithieno[3,2-b:2',3'-d]arsole-containing conjugated polymers in organic photovoltaic devices. <i>Dalton Transactions</i> , 2019 , 48, 6676-6679	4.3	7
63	Evidence for Strong and Weak Phenyl-C61-Butyric Acid Methyl Ester Photodimer Populations in Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6076-6083	9.6	7
62	Chapter 5:Rate Law Analysis of Water Splitting Photoelectrodes. <i>RSC Energy and Environment Series</i> , 2018 , 128-162	0.6	7
61	Long-lived primary radical pair state detected by time-resolved fluorescence and absorption spectroscopy in an isolated Photosystem two core. <i>Photosynthesis Research</i> , 1992 , 34, 419-31	3.7	7
60	Identifying the Molecular Origins of High-Performance in Organic Photodetectors Based on Highly Intermixed Bulk Heterojunction Blends. <i>ACS Nano</i> , 2021 , 15, 1217-1228	16.7	7
59	Organic cathode interfacial materials for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13506-13514	13	7
58	Solvothermal Synthesis of Ferroelectric BaTiO3 Nanoparticles and Their Application to Dye-sensitized Solar Cells. <i>Journal of the Korean Physical Society</i> , 2018 , 73, 627-631	0.6	7
57	Dynamic PCBM:Dimer Population in Solar Cells under Light and Temperature Fluctuations. <i>Advanced Energy Materials</i> , 2019 , 9, 1803948	21.8	6
56	Reply to: Questioning the rate law in the analysis of water oxidation catalysis on haematite photoanodes. <i>Nature Chemistry</i> , 2020 , 12, 1099-1101	17.6	6
55	Field Effect versus Driving Force: Charge Generation in Small-Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2002124	21.8	6

54	Enhancing Fullerene-Based Solar Cell Lifetimes by Addition of a Fullerene Dumbbell. <i>Angewandte Chemie</i> , 2014 , 126, 13084-13089	3.6	6
53	Homologous Bromides Treatment for Improving the Open-circuit Voltage of Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , e2106280	24	6
52	Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2021 , e2105007	24	6
51	Charge accumulation kinetics in multi-redox molecular catalysts immobilised on TiO. <i>Chemical Science</i> , 2020 , 12, 946-959	9.4	6
50	Understanding What Controls the Rate of Electrochemical Oxygen Evolution. <i>Joule</i> , 2021 , 5, 16-18	27.8	6
49	Impact of Fullerene Intercalation on Structural and Thermal Properties of Organic Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20976-20985	3.8	5
48	Use of gas cluster ion source depth profiling to study the oxidation of fullerene thin films by XPS. <i>Organic Electronics</i> , 2017 , 49, 85-93	3.5	5
47	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene: fullerene solar cells 2010 , 63-69		5
46	Picosecond time-resolved absorption and emission studies of pyrazolotriazole azomethine dyes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 3479		5
45	Experimental observation of multiple trapping/charge separation steps in the isolated PS2 reaction centre 1995 , 883-886		5
44	Excitation Wavelength-Dependent Internal Quantum Efficiencies in a P3HT/Nonfullerene Acceptor Solar Cell. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5826-5832	3.8	5
43	Photodoping and Fast Charge Extraction in Ionic Carbon Nitride Photoanodes. <i>Advanced Functional Materials</i> , 2105369	15.6	5
42	Water oxidation kinetics of nanoporous BiVO photoanodes functionalised with nickel/iron oxyhydroxide electrocatalysts. <i>Chemical Science</i> , 2021 , 12, 7442-7452	9.4	5
41	Nanoscale Structure-Property Relationships in Low-Temperature Solution-Processed Electron Transport Layers for Organic Photovoltaics. <i>Crystal Growth and Design</i> , 2017 , 17, 6559-6564	3.5	4
40	Synthetic approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 242-281	3.6	4
39	Mutation of the <i>Chlamydomonas reinhardtii</i> analogue of residue M210 of the Rhodospirillum rubrum sphaeroides reaction center slows primary electron transfer in Photosystem II. <i>Photosynthesis Research</i> , 1999 , 62, 205-217	3.7	4
38	Rational Design of Donor-Acceptor Based Semiconducting Copolymers with High Dielectric Constants. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6886-6896	3.8	4
37	Correlating the Active Layer Structure and Composition with the Device Performance and Lifetime of Amino-Acid-Modified Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43505-43515	8.5	4

36	The effect of zinc oxide nanostructure on the performance of hybrid polymer/zinc oxide solar cells 2005 ,		3
35	Redox-State Kinetics in Water-Oxidation IrOx Electrocatalysts Measured by Operando Spectroelectrochemistry. <i>ACS Catalysis</i> ,15013-15025	13.1	3
34	Combined Precursor Engineering and Grain Anchoring Leading to MA-Free, Phase-Pure, and Stable Formamidinium Lead Iodide Perovskites for Efficient Solar Cells. <i>Angewandte Chemie</i> ,	3.6	3
33	Anisotropic Electron Transport Limits Performance of Bi2WO6 Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18859-18867	3.8	3
32	Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Ga-Gradient in Cu(In,Ga)Se2 Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003446	21.8	3
31	Efficient Hole Trapping in Carbon Dot/Oxygen-Modified Carbon Nitride Heterojunction Photocatalysts for Enhanced Methanol Production from CO2 under Neutral Conditions. <i>Angewandte Chemie</i> , 2021 , 133, 20979-20984	3.6	3
30	The effect of nanoparticulate PdO co-catalysts on the faradaic and light conversion efficiency of WO photoanodes for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1285-1291	3.6	3
29	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019 , 25, 12316-12324	4.8	2
28	ZnO Nanostructured Diodes - Enhancing Energy Generation through Scavenging Vibration. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1556, 1		2
27	Transient absorption and photovoltage characterization of dye-sensitized solar cells 2004 ,		2
26	Trapping of excitation energy by photosystem two reaction centres: Is P680 a multimer?. <i>Solar Energy Materials and Solar Cells</i> , 1995 , 38, 135-138	6.4	2
25	The Influence of Energy Level Disorder on the Charge Separation / Trapping Kinetics in Photosystem Two 1995 , 611-614		2
24	Identification of Chlorophyll Anion States During Charge Separation in Mutant Photosystem II Reaction Centres 1998 , 1041-1044		2
23	Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Ga-Graded Cu(In,Ga)Se2 Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2103663	15.6	2
22	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO3/TiO2 Heterojunction Films: A Computational and Experimental Study (Adv. Funct. Mater. 18/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
21	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 345-363	3.6	1
20	DYE- AND PEROVSKITE-SENSITISED MESOSCOPIC SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2014 , 413-452		1
19	Piezoelectric Enhancement of Hybrid Organic/Inorganic Photovoltaic Device. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012009	0.3	1

18	Interfacial Electron Transfer in Dye Sensitised Nanocrystalline TiO ₂ Films. <i>Springer Series in Chemical Physics</i> , 1996 , 433-434	0.3	1
17	Interfacial electron transfer in dye sensitised nanocrystalline TiO ₂ films. <i>Journal of Chemical Sciences</i> , 1997 , 109, 411-414	1.8	1
16	Dynamics of photoconversion processes: the energetic cost of lifetime gain in photosynthetic and photovoltaic systems. <i>Chemical Society Reviews</i> , 2021 , 50, 13372-13409	58.5	1
15	A Dual Functional Polymer Interlayer Enables Near-Infrared Absorbing Organic Photoanodes for Solar Water Oxidation. <i>Advanced Energy Materials</i> , 2103698	21.8	1
14	Asymmetric charge carrier transfer and transport in planar lead halide perovskite solar cells. <i>Cell Reports Physical Science</i> , 2022 , 100890	6.1	1
13	Organic Solar Cells: Exciton and Charge Carrier Dynamics in Highly Crystalline PTQ10:IDIC Organic Solar Cells (Adv. Energy Mater. 38/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070158	21.8	0
12	Photoelectrochemical concurrent hydrogen generation and heavy metal recovery from polluted acidic mine water. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3084-3091	5.8	0
11	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019 , 25, 12233-12233	4.8	
10	Comparison of the field and Fermi level dependence of transport and recombination in polymer/C ₆₀ cells and solid state dye-sensitized cells 2006 , 6334, 5		
9	PROTEIN ADSORPTION ON NANOCRYSTALLINE TiO ₂ FILMS: A NOVEL IMMOBILISATION STRATEGY FOR BIOELECTROCHEMISTRY AND BIOANALYTICAL DEVICES. <i>Biochemical Society Transactions</i> , 2000 , 28, A44-A44	5.1	
8	Primary Radical Pair Formation in Photosystem-Two Reaction Centres. <i>Springer Series in Chemical Physics</i> , 1993 , 546-548	0.3	
7	Distinguishing Between Energy- and Electron-Transfer Processes in Photosystem II Reaction Centres. <i>Springer Series in Chemical Physics</i> , 1994 , 468-469	0.3	
6	Photoselective Excitation of P680 ? 1995 , 607-610		
5	Comparison of PS II Primary Photochemistry in Higher Plant, Synechocystis and Synechocystis Mutants 1995 , 615-618		
4	Construction and Initial Characterisation of a D2-LEU205TYR Mutant of Chlamydomonas Reinhardtii 1995 , 839-842		
3	Observation of an Intermediate Step During Primary Charge Separation by Photosystem Two. <i>Springer Series in Chemical Physics</i> , 1996 , 342-343	0.3	
2	Titelbild: Solar Reforming of Biomass with Homogeneous Carbon Dots (Angew. Chem. 41/2020). <i>Angewandte Chemie</i> , 2020 , 132, 17913-17913	3.6	
1	A Dual Functional Polymer Interlayer Enables Near-Infrared Absorbing Organic Photoanodes for Solar Water Oxidation (Adv. Energy Mater. 18/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270073	21.8	

