

James Durrant

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1606717/james-durrant-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

503
papers

56,085
citations

128
h-index

219
g-index

589
ext. papers

61,127
ext. citations

11.6
avg, IF

7.87
L-index

#	Paper	IF	Citations
503	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	
502	Asymmetric charge carrier transfer and transport in planar lead halide perovskite solar cells. <i>Cell Reports Physical Science</i> , 2022 , 100890	6.1	1
501	Additive-free, Low-temperature Crystallization of Stable FAPbI Perovskite. <i>Advanced Materials</i> , 2021 , e2107850	24	18
500	Homologous Bromides Treatment for Improving the Open-circuit Voltage of Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , e2106280	24	6
499	A Comparison of Charge Carrier Dynamics in Organic and Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , e2101833	24	9
498	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
497	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
496	Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2021 , e2105007	24	6
495	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
494	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
493	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
492	Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Ga-Gradient in Cu(In,Ga)Se ₂ Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003446	21.8	3
491	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
490	Understanding What Controls the Rate of Electrochemical Oxygen Evolution. <i>Joule</i> , 2021 , 5, 16-18	27.8	6
489	Organic cathode interfacial materials for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13506-13514	13	7
488	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
487	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

486	Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Ga-Graded Cu(In,Ga)Se ₂ Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2103663	15.6	2
485	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
484	Non-fullerene acceptor photostability and its impact on organic solar cell lifetime. <i>Cell Reports Physical Science</i> , 2021 , 2, 100498	6.1	9
483	Efficient Hole Trapping in Carbon Dot/Oxygen-Modified Carbon Nitride Heterojunction Photocatalysts for Enhanced Methanol Production from CO ₂ under Neutral Conditions. <i>Angewandte Chemie</i> , 2021 , 133, 20979-20984	3.6	3
482	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
481	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
480	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
479	Water oxidation kinetics of nanoporous BiVO photoanodes functionalised with nickel/iron oxyhydroxide electrocatalysts. <i>Chemical Science</i> , 2021 , 12, 7442-7452	9.4	5
478	Phosphorene Nanoribbon-Augmented Optoelectronics for Enhanced Hole Extraction.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21549-21559	16.4	11
477	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
476	Field Effect versus Driving Force: Charge Generation in Small-Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2002124	21.8	6
475	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
474	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
473	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
472	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102	33.3	231
471	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
470	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
469	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

468	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
467	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
466	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
465	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
464	Enhanced photocatalytic hydrogen evolution from organic semiconductor heterojunction nanoparticles. <i>Nature Materials</i> , 2020 , 19, 559-565	27	171
463	Practical challenges in the development of photoelectrochemical solar fuels production. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 985-995	5.8	31
462	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
461	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
460	Multihole water oxidation catalysis on haematite photoanodes revealed by operando spectroelectrochemistry and DFT. <i>Nature Chemistry</i> , 2020 , 12, 82-89	17.6	93
459	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
458	Exciton and Charge Carrier Dynamics in Highly Crystalline PTQ10:IDIC Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001149	21.8	24
457	Separating bulk and surface processes in NiOx electrocatalysts for water oxidation. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5024-5030	5.8	8
456	Solar Reforming of Biomass with Homogeneous Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18184-18188	16.4	29
455	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
454	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
453	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
452	Anisotropic Electron Transport Limits Performance of Bi ₂ WO ₆ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18859-18867	3.8	3
451	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

450	Solar Reforming of Biomass with Homogeneous Carbon Dots. <i>Angewandte Chemie</i> , 2020 , 132, 18341-18345	11
449	Titelbild: Solar Reforming of Biomass with Homogeneous Carbon Dots (Angew. Chem. 41/2020). <i>Angewandte Chemie</i> , 2020 , 132, 17913-17913	3.6
448	Orientation dependent molecular electrostatics drives efficient charge generation in homojunction organic solar cells. <i>Nature Communications</i> , 2020 , 11, 4617	17.4 24
447	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
446	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
445	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
444	Charge accumulation kinetics in multi-redox molecular catalysts immobilised on TiO. <i>Chemical Science</i> , 2020 , 12, 946-959	9.4 6
443	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019 , 25, 12233-12233	4.8
442	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
441	In situ observation of picosecond polaron self-localisation in FeO photoelectrochemical cells. <i>Nature Communications</i> , 2019 , 10, 3962	17.4 52
440	Current understanding and challenges of solar-driven hydrogen generation using polymeric photocatalysts. <i>Nature Energy</i> , 2019 , 4, 746-760	62.3 326
439	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
438	WO/BiVO: impact of charge separation at the timescale of water oxidation. <i>Chemical Science</i> , 2019 , 10, 2643-2652	9.4 39
437	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
436	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019 , 25, 12316-12324	4.8 2
435	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
434	Artificial photosynthesis - concluding remarks. <i>Faraday Discussions</i> , 2019 , 215, 439-451	3.6 10
433	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 345-363	3.6 1

432	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
431	Synthetic approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019 , 215, 242-281	3.6	4
430	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
429	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
428	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
427	Origin of Performance Enhancement in TiO ₂ -Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019 , 3, 1900164	12.8	26
426	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
425	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
424	Dynamic PCBM:Dimer Population in Solar Cells under Light and Temperature Fluctuations. <i>Advanced Energy Materials</i> , 2019 , 9, 1803948	21.8	6
423	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
422	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
421	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
420	Twist and Degradation 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
419	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
418	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
417	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
416	Charge Separation, Band-Bending, and Recombination in WO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5395-5401	6.4	26
415	Manipulating the Optical Properties of Carbon Dots by Fine-Tuning their Structural Features. <i>ChemSusChem</i> , 2019 , 12, 4432-4441	8.3	19

414	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
413	Impact of Oxygen Vacancy Occupancy on Charge Carrier Dynamics in BiVO Photoanodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18791-18798	16.4	85
412	Tail state limited photocurrent collection of thick photoactive layers in organic solar cells. <i>Nature Communications</i> , 2019 , 10, 5159	17.4	41
411	Spectroelectrochemical study of water oxidation on nickel and iron oxyhydroxide electrocatalysts. <i>Nature Communications</i> , 2019 , 10, 5208	17.4	62
410	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
409	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
408	Unraveling Charge Transfer in CoFe Prussian Blue Modified BiVO ₄ Photoanodes. <i>ACS Energy Letters</i> , 2019 , 4, 337-342	20.1	46
407	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
406	Outstanding Indoor Performance of Perovskite Photovoltaic Cells [Effect of Device Architectures and Interlayers. <i>Solar Rrl</i> , 2019 , 3, 1800207	7.1	41
405	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
404	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
403	Chapter 5:Rate Law Analysis of Water Splitting Photoelectrodes. <i>RSC Energy and Environment Series</i> , 2018 , 128-162	0.6	7
402	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
401	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
400	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
399	Organic photovoltaic cells [promising indoor light harvesters for self-sustainable electronics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5618-5626	13	143
398	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
397	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

396	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
395	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
394	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
393	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
392	Stability of Polymer:PCBM Thin Films under Competitive Illumination and Thermal Stress. <i>Advanced Functional Materials</i> , 2018 , 28, 1802520	15.6	21
391	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
390	Interfacial Engineering of a Carbon Nitride/Graphene Oxide/Molecular Ni Catalyst Hybrid for Enhanced Photocatalytic Activity. <i>ACS Catalysis</i> , 2018 , 8, 6914-6926	13.1	40
389	Stability study of thermal cycling on organic solar cells. <i>Journal of Materials Research</i> , 2018 , 33, 1902-1908	5	10
388	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
387	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 4968	17.4	153
386	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
385	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
384	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
383	Probing and Controlling Intragrain Crystallinity for Improved Low Temperature-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1803943	15.6	14
382	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
381	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
380	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
379	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

378	Solvothermal Synthesis of Ferroelectric BaTiO ₃ Nanoparticles and Their Application to Dye-sensitized Solar Cells. <i>Journal of the Korean Physical Society</i> , 2018 , 73, 627-631	0.6	7
377	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
376	Rational design of a neutral pH functional and stable organic photocathode. <i>Chemical Communications</i> , 2018 , 54, 5732-5735	5.8	22
375	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
374	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
373	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
372	Ultraviolet Radiation Induced Dopant Loss in a TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2017 , 7, 1485-1490	13.1	13
371	Spectroelectrochemical analysis of the mechanism of (photo)electrochemical hydrogen evolution at a catalytic interface. <i>Nature Communications</i> , 2017 , 8, 14280	17.4	66
370	Solar H ₂ evolution in water with modified diketopyrrolopyrrole dyes immobilised on molecular Co and Ni catalyst-TiO ₂ hybrids. <i>Chemical Science</i> , 2017 , 8, 3070-3079	9.4	59
369	Electron transfer dynamics in fuel producing photosystems. <i>Current Opinion in Electrochemistry</i> , 2017 , 2, 136-143	7.2	30
368	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study (Adv. Funct. Mater. 18/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
367	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
366	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
365	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
364	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
363	Kinetic Analysis of an Efficient Molecular Light-Driven Water Oxidation System. <i>ACS Catalysis</i> , 2017 , 7, 5142-5150	13.1	29
362	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
361	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. <i>ACS Energy Letters</i> , 2017 , 2, 1494-1500	20.1	74

360	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
359	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
358	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
357	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
356	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
355	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
354	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
353	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
352	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
351	Charge Carrier Dynamics in Metal Oxide Photoelectrodes for Water Oxidation. <i>Semiconductors and Semimetals</i> , 2017 , 3-46	0.6	12
350	Kinetics of Photoelectrochemical Oxidation of Methanol on Hematite Photoanodes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11537-11543	16.4	76
349	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
348	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
347	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
346	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
345	An Efficient, "Burn in" Free Organic Solar Cell Employing a Nonfullerene Electron Acceptor. <i>Advanced Materials</i> , 2017 , 29, 1701156	24	138
344	Exciton and Charge Generation in PC60BM Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14470-14475	14.1	17
343	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

342	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
341	Evaluation of Surface State Mediated Charge Recombination in Anatase and Rutile TiO. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3742-3746	6.4	85
340	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
339	Extended conjugated microporous polymers for photocatalytic hydrogen evolution from water. <i>Chemical Communications</i> , 2016 , 52, 10008-11	5.8	139
338	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
337	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
336	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
335	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
334	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
333	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
332	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
331	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
330	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. <i>Polymers</i> , 2016 , 8,	4.5	81
329	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
328	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
327	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
326	Is organic photovoltaics promising for indoor applications?. <i>Applied Physics Letters</i> , 2016 , 108, 253301	3.4	122
325	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

324	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
323	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
322	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
321	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
320	Synthesis and Exciton Dynamics of Triplet Sensitized Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10383-90	16.4	38
319	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
318	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
317	Polaron pair mediated triplet generation in polymer/fullerene blends. <i>Nature Communications</i> , 2015 , 6, 6501	17.4	65
316	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
315	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
314	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
313	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
312	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
311	Oxygen diffusion dynamics in organic semiconductor films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10079-10084	7.1	12
310	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
309	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
308	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
307	Operational electrochemical stability of thiophene-thiazole copolymers probed by resonant Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 244904	3.9	10

306	Ultrasml Co3O4 Nanocrystals Strongly Enhance Solar Water Splitting on Mesoporous Hematite. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500358	4.6	24
305	Unravelling the pH-dependence of a molecular photocatalytic system for hydrogen production. <i>Chemical Science</i> , 2015 , 6, 4855-4859	9.4	36
304	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
303	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
302	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
301	Improving the photocatalytic reduction of CO2 to CO through immobilisation of a molecular Re catalyst on TiO2. <i>Chemistry - A European Journal</i> , 2015 , 21, 3746-54	4.8	115
300	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
299	Acoustic enhancement of polymer/ZnO nanorod photovoltaic device performance. <i>Advanced Materials</i> , 2014 , 26, 263-8	24	64
298	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
297	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
296	Round robin performance testing of organic photovoltaic devices. <i>Renewable Energy</i> , 2014 , 63, 376-387	8.1	14
295	Towards optimisation of photocurrent from fullerene excitons in organic solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1037	35.4	36
294	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
293	Interfacial charge separation in Cu2O/RuO(x) as a visible light driven CO2 reduction catalyst. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5922-6	3.6	46
292	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
291	Photochemical stability of high efficiency PTB7:PC70BM solar cell blends. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20189-20195	13	114
290	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
289	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

288	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
287	Polaron stability in semiconducting polymer neat films. <i>Chemical Communications</i> , 2014 , 50, 14425-8	5.8	12
286	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
285	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
284	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
283	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
282	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
281	Dynamics of photogenerated holes in undoped BiVO ₄ photoanodes for solar water oxidation. <i>Chemical Science</i> , 2014 , 5, 2964-2973	9.4	253
280	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
279	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
278	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
277	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
276	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
275	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
274	Enhancing Fullerene-Based Solar Cell Lifetimes by Addition of a Fullerene Dumbbell. <i>Angewandte Chemie</i> , 2014 , 126, 13084-13089	3.6	6
273	DYE- AND PEROVSKITE-SENSITISED MESOSCOPIC SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2014 , 413-452		1
272	Materials Design Considerations for Charge Generation in Organic Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 616-630	9.6	202
271	On the role of intermixed phases in organic photovoltaic blends. <i>Energy and Environmental Science</i> , 2013 , 6, 2756	35.4	150

270	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
269	Performance enhancement of fullerene-based solar cells by light processing. <i>Nature Communications</i> , 2013 , 4, 2227	17.4	110
268	New Fused Bis-Thienobenzothienothiophene Copolymers and Their Use in Organic Solar Cells and Transistors. <i>Macromolecules</i> , 2013 , 46, 727-735	5.5	40
267	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
266	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
265	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
264	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
263	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
262	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
261	BPTs: thiophene-flanked benzodipyrrolidone conjugated polymers for ambipolar organic transistors. <i>Chemical Communications</i> , 2013 , 49, 4465-7	5.8	58
260	Dihydropyrroloindoleione-based copolymers for organic electronics. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2711	7.1	19
259	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
258	Charge carrier separation in nanostructured TiO ₂ photoelectrodes for water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8772-8	3.6	49
257	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
256	Charge carrier trapping, recombination and transfer in hematite (Fe ₂ O ₃) water splitting photoanodes. <i>Chemical Science</i> , 2013 , 4, 2724	9.4	362
255	Synthesis and photo-induced charge separation of confined conjugation length phenylene vinylene-based polymers. <i>Polymer Chemistry</i> , 2013 , 4, 5305	4.9	10
254	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
253	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

252	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
251	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
250	ZnO Nanostructured Diodes - Enhancing Energy Generation through Scavenging Vibration. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1556, 1		2
249	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
248	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
247	Piezoelectric Enhancement of Hybrid Organic/Inorganic Photovoltaic Device. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012009	0.3	1
246	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
245	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
244	Germaindacenodithiophene based low band gap polymers for organic solar cells. <i>Chemical Communications</i> , 2012 , 48, 2955-7	5.8	49
243	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
242	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
241	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
240	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
239	Dynamics of photogenerated holes in surface modified α -Fe ₂ 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
238	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
237	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
236	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
235	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

234	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
233	Artificial photosynthesis for solar water-splitting. <i>Nature Photonics</i> , 2012 , 6, 511-518	33.9	1484
232	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
231	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
230	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
229	Benzotrithiophene Co-polymers with High Charge Carrier Mobilities in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2011 , 23, 4025-4031	9.6	50
228	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
227	Charge Carrier Dynamics on Mesoporous WO ₃ during Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1900-1903	6.4	128
226	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
225	Pyrroloindacenodithiophene containing polymers for organic field effect transistors and organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18744		48
224	Electron Transfer Dynamics in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 3381-3399	9.6	525
223	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
222	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
221	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
220	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
219	Quantifying Regeneration in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2439-2447	3.47	179
218	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
217	The role of cobalt phosphate in enhancing the photocatalytic activity of □Fe ₂ O ₃ toward water oxidation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14868-71	16.4	477

216	Dynamics of photogenerated holes in nanocrystalline Fe_2O_3 electrodes for water oxidation probed by transient absorption spectroscopy. <i>Chemical Communications</i> , 2011 , 47, 716-8	5.8	234
215	Activation energies for the rate-limiting step in water photooxidation by nanostructured Fe_2O_3 and TiO_2 . <i>Journal of the American Chemical Society</i> , 2011 , 133, 10134-40	16.4	225
214	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
213	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
212	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
211	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
210	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
209	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, 3721-3729	3.6	13
208	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
207	Analysis of Recombination Losses in a Pentacene/ C_{60} Organic Bilayer Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2759-2763	6.4	39
206	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
205	A nickel-complex sensitiser for dye-sensitised solar cells. <i>Solar Energy</i> , 2011 , 85, 1195-1203	6.8	49
204	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
203	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
202	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
201	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
200	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
199	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

198	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
197	Charge Photogeneration in Low Band Gap Polyselenophene/Fullerene Blend Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8068-8075	3.8	55
196	Charge photogeneration in organic solar cells. <i>Chemical Reviews</i> , 2010 , 110, 6736-67	68.1	1760
195	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 ⁴²	6.4	1100
194	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
193	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
192	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
191	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. <i>Macromolecules</i> , 2010 , 43, 1169-1174	5.5	86
190	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
189	Field-Independent Charge Photogeneration in PCPDTBT/PC70BM Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3306-3310	6.4	84
188	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
187	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
186	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene: fullerene solar cells 2010 , 63-69		5
185	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
184	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
183	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
182	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
181	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

180	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
179	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
178	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
177	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
176	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
175	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
174	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
173	Charge photogeneration in polythiophene-perylene diimide blend films. <i>Chemical Communications</i> , 2009 , 5445-7	5.8	62
172	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
171	Hybrid polymer/metal oxide solar cells by in situ chemical polymerization. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5377		32
170	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
169	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
168	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
167	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
166	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
165	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
164	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
163	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

162	DYE-SENSITISED MESOSCOPIC SOLAR CELLS. <i>Series on Photoconversion of Solar Energy</i> , 2008 , 503-536		20
161	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
160	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
159	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
158	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
157	Inter versus intra-molecular photoinduced charge separation in solid films of donor-acceptor molecules. <i>Chemical Communications</i> , 2008 , 4915-7	5.8	11
156	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
155	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, 14063-8	3.4	16
154	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
153	Solution-Processed Organic Solar Cells. <i>MRS Bulletin</i> , 2008 , 33, 670-675	3.2	303
152	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
151	Interfacial electron transfer on cytochrome-c sensitised conformally coated mesoporous TiO ₂ films. <i>Bioelectrochemistry</i> , 2008 , 74, 142-8	5.6	21
150	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
149	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
148	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
147	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
146	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
145	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

144	Transient emission studies of electron injection in dye sensitised solar cells. <i>Inorganica Chimica Acta</i> , 2008 , 361, 663-670	2.7	74
143	Bimolecular recombination losses in polythiophene: Fullerene solar cells. <i>Physical Review B</i> , 2008 , 78,	3.3	364
142	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
141	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
140	Functionalized titania nanoparticles for mercury scavenging. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2028-2032		12
139	Kinetic competition in liquid electrolyte and solid-state cyanine dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3037-3044		152
138	Slow electron injection on Ru-Phthalocyanine sensitized TiO ₂ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 9250-1	16.4	119
137	A photophysical study of PCBM thin films. <i>Chemical Physics Letters</i> , 2007 , 445, 276-280	2.5	144
136	Nanocrystalline dye-sensitized solar cells having maximum performance. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 1-18	6.8	479
135	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
134	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
133	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
132	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
131	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
130	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
129	TOF mobility measurements in pristine films of P3HT: control of hole injection and influence of film thickness 2006 , 6334, 16		8
128	Hybrid polymer/metal oxide solar cells based on ZnO columnar structures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2088		244
127	Kinetic competition in flexible dye sensitised solar cells employing a series of polymer electrolytes. <i>Chemical Communications</i> , 2006 , 877-9	5.8	15

126	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
125	Singlet exciton transfer and fullerene triplet formation in polymer-fullerene blend films. <i>Applied Physics Letters</i> , 2006 , 89, 101128	3.4	62
124	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
123	Interface engineering for solid-state dye-sensitized nanocrystalline solar cells: the use of an organic redox cascade. <i>Chemical Communications</i> , 2006 , 535-7	5.8	32
122	Impact of Hydrothermal Processing Conditions on High Aspect Ratio Titanate Nanostructures. <i>Chemistry of Materials</i> , 2006 , 18, 6059-6068	9.6	85
121	Comparison of the field and Fermi level dependence of transport and recombination in polymer/C60 cells and solid state dye-sensitized cells 2006 , 6334, 5		
120	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
119	Optical sensing of cyanide using hybrid biomolecular films. <i>Inorganic Chemistry Communication</i> , 2006 , 9, 1239-1242	3.1	24
118	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
117	Degradation of organic solar cells due to air exposure. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 3520-3530	6.4	593
116	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
115	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
114	Photochemical energy conversion: from molecular dyads to solar cells. <i>Chemical Communications</i> , 2006 , 3279-89	5.8	146
113	Radical ion pair mediated triplet formation in polymer-fullerene blend films. <i>Chemical Communications</i> , 2006 , 3939-41	5.8	50
112	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
111	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
110	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
109	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

108	Reversible colorimetric probes for mercury sensing. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12351-6	16.4	298
107	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
106	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
105	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
104	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, 242-50	5.1	193
103	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
102	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
101	Charge recombination in CuPc/PTCDA thin films. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11693-6	3.4	8
100	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
99	Supramolecular 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
98	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
97	Ambipolar Charge Transport in Films of Methanofullerene and Poly(phenylenevinylene)/Methanofullerene Blends. <i>Advanced Functional Materials</i> , 2005 , 15, 1171-1182	15.6	220
96	Freestanding Polymer/Metal Oxide Nanocomposite Films for Light-Driven Oxygen Scavenging. <i>Advanced Materials</i> , 2005 , 17, 2365-2368	24	17
95	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
94	Composition and annealing effects in polythiophene/fullerene solar cells. <i>Journal of Materials Science</i> , 2005 , 40, 1371-1376	4.3	177
93	The effect of zinc oxide nanostructure on the performance of hybrid polymer/zinc oxide solar cells 2005 ,		3
92	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
91	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

90	Charge recombination in polymer/fullerene photovoltaic devices. <i>Thin Solid Films</i> , 2004 , 451-452, 508-514	4.2	44
89	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
88	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
87	Towards optimisation of electron transfer processes in dye sensitised solar cells. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1247-1257	23.2	239
86	Cyclic voltammetry and voltabsorptometry studies of redox proteins immobilised on nanocrystalline tin dioxide electrodes. <i>Bioelectrochemistry</i> , 2004 , 63, 55-9	5.6	36
85	Heterogeneous colorimetric sensor for mercuric salts. <i>Chemical Communications</i> , 2004 , 362-3	5.8	150
84	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
83	State selective electron injection in non-aggregated titanium phthalocyanine sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2004 , 2112-3	5.8	136
82	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
81	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
80	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
79	Transient absorption and photovoltage characterization of dye-sensitized solar cells 2004 ,		2
78	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
77	Transient optical studies of interfacial energetic disorder at nanostructured dye-sensitized inorganic/organic semiconductor heterojunctions. <i>ChemPhysChem</i> , 2003 , 4, 89-93	3.2	59
76	Functionalizing nanocrystalline metal oxide electrodes with robust synthetic redox proteins. <i>ChemBioChem</i> , 2003 , 4, 1332-9	3.8	47
75	Excited state spectroscopy in polymer fullerene photovoltaic devices under operation conditions. <i>Synthetic Metals</i> , 2003 , 139, 577-580	3.6	8
74	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
73	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

72	Direct Electrochemistry and Nitric Oxide Interaction of Heme Proteins Adsorbed on Nanocrystalline Tin Oxide Electrodes. <i>Langmuir</i> , 2003 , 19, 6894-6900	4	172
71	Preparation and characterisation of novel thick sol-gel titania film photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 591-6	4.2	99
70	Flexible dye sensitised nanocrystalline semiconductor solar cells. <i>Chemical Communications</i> , 2003 , 3008-9.8	3.8	117
69	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
68	A supramolecular approach to lithium ion solvation at nanostructured dye sensitised inorganic/organic heterojunctions. <i>Chemical Communications</i> , 2003 , 2878-9	5.8	36
67	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
66	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
65	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
64	Slow charge recombination in dye-sensitised solar cells (DSSC) using Al ₂ O ₃ coated nanoporous TiO ₂ films. <i>Chemical Communications</i> , 2002 , 1464-5	5.8	229
63	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
62	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
61	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
60	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
59	Photoelectrochemical study of Zn cytochrome-c immobilised on a nanoporous metal oxide electrode. <i>Chemical Communications</i> , 2002 , 1518-9	5.8	42
58	Molecular control of recombination dynamics in dye sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2002 , 1260-1	5.8	101
57	Dye-Sensitized Nanocrystalline Solar Cells Employing a Polymer Electrolyte. <i>Advanced Materials</i> , 2001 , 13, 826-830	24	338
56	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
55	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

54	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
53	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
52	Trap-limited recombination in dye-sensitized nanocrystalline metal oxide electrodes. <i>Physical Review B</i> , 2001 , 63,	3.3	357
51	Relationship between excitation energy transfer, trapping, and antenna size in photosystem II. <i>Biochemistry</i> , 2001 , 40, 4026-34	3.2	38
50	Factors that Affect Protein Adsorption on Nanostructured Titania Films. A Novel Spectroelectrochemical Application to Sensing. <i>Langmuir</i> , 2001 , 17, 7899-7906	4	164
49	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	
48	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
47	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
46	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
45	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
44	Mutation of the Chlamydomonas reinhardtii analogue of residue M210 of the Rhodospirillum rubrum reaction center slows primary electron transfer in Photosystem II. <i>Photosynthesis Research</i> , 1999 , 62, 205-217	3.7	4
43	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
42	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
41	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
40	Protein Adsorption on Nanocrystalline TiO ₂ Films: An Immobilization Strategy for Bioanalytical Devices. <i>Analytical Chemistry</i> , 1998 , 70, 5111-3	7.8	178
39	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
38	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
37	Identification of Chlorophyll Anion States During Charge Separation in Mutant Photosystem II Reaction Centres 1998 , 1041-1044		2

36	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
35	Interfacial electron transfer in dye sensitised nanocrystalline TiO ₂ films. <i>Journal of Chemical Sciences</i> , 1997 , 109, 411-414	1.8	1
34	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
33	Interfacial Electron Transfer in Dye Sensitised Nanocrystalline TiO ₂ Films. <i>Springer Series in Chemical Physics</i> , 1996 , 433-434	0.3	1
32	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
31	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 20056-20062		736
30	Observation of an Intermediate Step During Primary Charge Separation by Photosystem Two. <i>Springer Series in Chemical Physics</i> , 1996 , 342-343	0.3	
29	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
28	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
27	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
26	Optical dynamics of excitons in J aggregates of a carbocyanine dye. <i>Journal of Chemical Physics</i> , 1995 , 102, 6362-6370	3.9	179
25	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
24	The Influence of Energy Level Disorder on the Charge Separation / Trapping Kinetics in Photosystem Two 1995 , 611-614		2
23	Experimental observation of multiple trapping/charge separation steps in the isolated PS2 reaction centre 1995 , 883-886		5
22	Photoselective Excitation of P680 ? 1995 , 607-610		
21	Comparison of PS II Primary Photochemistry in Higher Plant, <i>Synechocystis</i> and <i>Synechocystis</i> Mutants 1995 , 615-618		
20	Construction and Initial Characterisation of a D2-LEU205TYR Mutant of <i>Chlamydomonas Reinhardtii</i> 1995 , 839-842		
19	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

18	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
17	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
16	Distinguishing Between Energy- and Electron-Transfer Processes in Photosystem II Reaction Centres. <i>Springer Series in Chemical Physics</i> , 1994 , 468-469	0.3	
15	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
14	Primary Radical Pair Formation in Photosystem-Two Reaction Centres. <i>Springer Series in Chemical Physics</i> , 1993 , 546-548	0.3	
13	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
12	Observation of pheophytin reduction in photosystem two reaction centers using femtosecond transient absorption spectroscopy. <i>Biochemistry</i> , 1992 , 31, 7638-47	3.2	93
11	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
10	Determination of P680 singlet state lifetimes in photosystem two reaction centres. <i>Chemical Physics Letters</i> , 1992 , 188, 54-60	2.5	42
9	Picosecond time-resolved absorption and emission studies of pyrazolotriazole azomethine dyes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 3479		5
8	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
7	Redox-State Kinetics in Water-Oxidation IrOx Electrocatalysts Measured by Operando Spectroelectrochemistry. <i>ACS Catalysis</i> , 15013-15025	13.1	3
6	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
5	Photodoping and Fast Charge Extraction in Ionic Carbon Nitride Photoanodes. <i>Advanced Functional Materials</i> , 2105369	15.6	5
4	The kinetics of metal oxide photoanodes from charge generation to catalysis. <i>Nature Reviews Materials</i> ,	73.3	36
3	A Dual Functional Polymer Interlayer Enables Near-Infrared Absorbing Organic Photoanodes for Solar Water Oxidation. <i>Advanced Energy Materials</i> , 2103698	21.8	1
2	Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. <i>Nature Energy</i> ,	62.3	22
1	Electronic defects in metal oxide photocatalysts. <i>Nature Reviews Materials</i> ,	73.3	10

