

# Emilio Jos Palomares Gil

## List of Publications by Year in Descending Order

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

256 papers	16,097 citations	65 h-index	119 g-index
274 ext. papers	16,940 ext. citations	9.7 avg, IF	6.56 L-index

#	Paper	IF	Citations
256	Chalcogen-substituted PCBM derivatives as ternary components in PM6:Y6 solar cells. <i>Materials Advances</i> , <b>2022</b> , 3, 1071-1078	3.3	
255	Joule-Heating Annealing to Increase Organic Solar Cells Performance: A Comparative Study. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2552	2.6	
254	Influence of the Electron Selective Contact on the Interfacial Recombination in Fresh and Aged Perovskite Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4545	2.6	1
253	Crystallinity and Molecular Packing of Small Molecules in Bulk-Heterojunction Organic Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5683	2.6	
252	Tunable Carbon Dots/PbI <sub>3</sub> Quantum Dots for White LEDs. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001508	8.1	8
251	Benzothiadiazole-based photosensitizers for efficient and stable dye-sensitized solar cells and 8.7% efficiency semi-transparent mini-modules. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 144-153	5.8	21
250	Mechanisms of photoredox catalysts: the role of optical spectroscopy. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 638-665	5.8	9
249	Photocatalytic water splitting: advantages and challenges. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 4560-4569	5.8	10
248	Use of organic bulk-heterojunction solar cells as selective contacts in wide band-gap perovskite solar cells: advantages and limitations. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13979-13985	13	3
247	Understanding the perovskite/self-assembled selective contact interface for ultra-stable and highly efficient p-i-n perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3976-3985	35.4	33
246	Analysis of the Oxygen Passivation Effects on MAPbI and MAPbBr in Fresh and Aged Solar Cells by the Transient Photovoltage Technique. <i>ChemPlusChem</i> , <b>2021</b> , 86, 1316-1321	2.8	2
245	Inverted Hybrid Light-Emitting Diodes Using Carbon Dots as Selective Contacts: The Effect of Surface Ligands. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1388-1394	4	7
244	Analysis of the Efficiency Losses in Hybrid Perovskite/PTAA Solar Cells with Different Molecular Weights: Morphology versus Kinetics. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6853-6859	6.1	13
243	Benzothiadiazole Aryl-amine Based Materials as Efficient Hole Carriers in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32712-32718	9.5	14
242	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5341-5345	3.6	6
241	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5303-5307	16.4	14
240	Exceptional Long Electron Lifetime in Methylammonium Lead Iodide Perovskite Solar Cell Made from Aqueous Lead Nitrate Precursor. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909644	15.6	8

239	Self-assembled Zn phthalocyanine as a robust p-type selective contact in perovskite solar cells. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1415-1419	10.8	5
238	Improved Carrier Collection and Hot Electron Extraction Across Perovskite, C, and TiO Interfaces. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1236-1246	16.4	27
237	Photovoltage/photocurrent transient techniques <b>2020</b> , 161-180		5
236	High Solar-to-Hydrogen Conversion Efficiency at pH 7 Based on a PV-EC Cell with an Oligomeric Molecular Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55856-55864	9.5	3
235	Panchromatic Triple Organic Semiconductor Heterojunctions for Efficient Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12506-12516	6.1	1
234	Interfacial recombination kinetics in aged perovskite solar cells measured using transient photovoltage techniques. <i>Nanoscale</i> , <b>2019</b> , 11, 20024-20029	7.7	17
233	Semiconductor self-assembled monolayers as selective contacts for efficient PiN perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 230-237	35.4	62
232	Direct white light emission from carbon nanodots (C-dots) in solution processed light emitting diodes. <i>Nanoscale</i> , <b>2019</b> , 11, 11315-11321	7.7	24
231	Flat Is Boring in Perovskite Light Detectors. <i>Chem</i> , <b>2019</b> , 5, 748-749	16.2	
230	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1296-1308	35.4	102
229	Energy alignment and recombination in perovskite solar cells: weighted influence on the open circuit voltage. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1309-1316	35.4	80
228	Supramolecular Coordination of Pb Defects in Hybrid Lead Halide Perovskite Films Using Truxene Derivatives as Lewis Base Interlayers. <i>ChemPhysChem</i> , <b>2019</b> , 20, 2702-2711	3.2	6
227	Energetic disorder in perovskite/polymer solar cells and its relationship with the interfacial carrier losses. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180315	3	4
226	Hot electron injection into semiconducting polymers in polymer based-perovskite solar cells and their fate. <i>Nanoscale</i> , <b>2019</b> , 11, 23357-23365	7.7	2
225	Photo-induced dynamic processes in perovskite solar cells: the influence of perovskite composition in the charge extraction and the carrier recombination. <i>Nanoscale</i> , <b>2018</b> , 10, 6155-6158	7.7	17
224	o,p-Dimethoxybiphenyl Arylamine Substituted Porphyrins as Hole-Transport Materials: Electrochemical, Photophysical, and Carrier Mobility Characterization. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 2064-2070	3.2	5
223	Benzothiadiazole Substituted Semiconductor Molecules for Organic Solar Cells: The Effect of the Solvent Annealing Over the Thin Film Hole Mobility Values. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13782-13789	3.8	11
222	Increasing the Efficiency of Organic Dye-Sensitized Solar Cells over 10.3% Using Locally Ordered Inverse Opal Nanostructures in the Photoelectrode. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706291	15.6	28

221	Solution Processed Bathocuproine for Organic Solar Cells. <i>IEEE Nanotechnology Magazine</i> , <b>2018</b> , 17, 128-132	4
220	Second-Generation Azafullerene Monoadducts as Electron Acceptors in Bulk Heterojunction Solar Cells. <i>Synthesis</i> , <b>2018</b> , 50, 764-771	2.9 2
219	Advances in the Synthesis of Small Molecules as Hole Transport Materials for Lead Halide Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 869-880	24.3 95
218	Efficient Non-polymeric Heterojunctions in Ternary Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4203-4210	6.1 5
217	Diphenylphenoxy-Thiophene-PDI Dimers as Acceptors for OPV Applications with Open Circuit Voltage Approaching 1 Volt. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4 5
216	Organoboron donor-acceptor chromophores for small-molecule organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 16410-16415	2.1 2
215	High-efficiency organic solar cells based on a halide salt and polyfluorene polymer with a high alignment-level of the cathode selective contact. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22534-22544 <sup>13</sup>	22
214	Reduced Energy Offsets and Low Energy Losses Lead to Efficient (~10% at 1 sun) Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2418-2424	20.1 14
213	Visible and near-infrared organic photosensitizers comprising isoindigo derivatives as chromophores: synthesis, optoelectronic properties and factors limiting their efficiency in dye solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10074-10084	13 17
212	Fully Solution-Processed n-i-p-Like Perovskite Solar Cells with Planar Junction: How the Charge Extracting Layer Determines the Open-Circuit Voltage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604493	24 48
211	Side chain engineering of organic sensitizers for dye-sensitized solar cells: a strategy to improve performances and stability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6122-6130	13 30
210	Pyrrolo[3,2-b]pyrrole as the Central Core of the Electron Donor for Solution-Processed Organic Solar Cells. <i>ChemPlusChem</i> , <b>2017</b> , 82, 1096-1104	2.8 20
209	Photo-Induced Charge Carrier Recombination Kinetics in Small Molecule Organic Solar Cells and the Influence of Film Nanomorphology. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601509	21.8 23
208	Selective Organic Contacts for Methyl Ammonium Lead Iodide (MAPI) Perovskite Solar Cells: Influence of Layer Thickness on Carriers Extraction and Carriers Lifetime. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21599-21605	9.5 17
207	Understanding the Limiting Factors of Solvent-Annealed Small-Molecule Bulk-Heterojunction Organic Solar Cells from a Chemical Perspective. <i>ChemSusChem</i> , <b>2017</b> , 10, 3118-3134	8.3 8
206	Cyclopentadithiophene organic core in small molecule organic solar cells: morphological control of carrier recombination. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3640-3648	3.6 6
205	Analysis of Photoinduced Carrier Recombination Kinetics in Flat and Mesoporous Lead Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 182-187	20.1 32
204	Visible-Light-Promoted Arylation Reactions Photocatalyzed by Bismuth(III) Oxide. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 6986-6990	3.2 24

203	Alq3 (tris(8-hydroxyquinolino)aluminium) as a selective n-type contact for FAMAPIBr perovskite solar cells with efficient energy transfer to increase the solar cell photocurrent. <i>RSC Advances</i> , <b>2017</b> , 7, 35525-35527	3.7	3
202	Charge Injection, Carriers Recombination and HOMO Energy Level Relationship in Perovskite Solar Cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 6101	4.9	76
201	Dithienylpyrazine-based photosensitizers: Effect of swapping a connecting unit on optoelectronic properties and photovoltaic performances. <i>Dyes and Pigments</i> , <b>2017</b> , 146, 352-360	4.6	10
200	Light driven styrene epoxidation and hydrogen generation using H <sub>2</sub> O as an oxygen source in a photoelectrosynthesis cell. <i>Green Chemistry</i> , <b>2016</b> , 18, 255-260	10	14
199	Efficiency improvement using bis(trifluoromethane) sulfonamide lithium salt as a chemical additive in porphyrin based organic solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 17953-17962	7.7	21
198	High photo-current in solution processed organic solar cells based on a porphyrin core A-B-A as electron donor material. <i>Organic Electronics</i> , <b>2016</b> , 38, 330-336	3.5	13
197	Molecularly Engineered Ru(II) Sensitizers Compatible with Cobalt(II/III) Redox Mediators for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7388-95	5.1	18
196	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 302-308	20.1	52
195	CuSCN as selective contact in solution-processed small-molecule organic solar cells leads to over 7% efficient porphyrin-based device. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11009-11022	13	37
194	New solution-processable carbazole derivatives as deep blue emitters for organic light-emitting diodes. <i>RSC Advances</i> , <b>2016</b> , 6, 9247-9253	3.7	16
193	Encapsulation of MEH-PPV:PCBM Hybrids in the Cores of Block Copolymer Micellar Assemblies: Photoinduced Electron Transfer in a Nanoscale Donor-Acceptor System. <i>Langmuir</i> , <b>2016</b> , 32, 329-37	4	13
192	Charge recombination losses in thiophene-substituted porphyrin dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2016</b> , 126, 147-153	4.6	15
191	Decreasing Charge Losses in Perovskite Solar Cells Through mp-TiO <sub>2</sub> /MAPI Interface Engineering. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 207-213	9.6	71
190	Graphene and Carbon Quantum Dot-Based Materials in Photovoltaic Devices: From Synthesis to Applications. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	99
189	Increasing cell viability using Cd-free InP/ZnS@silica@layered double hydroxide materials for biological labeling. <i>RSC Advances</i> , <b>2016</b> , 6, 31210-31213	3.7	4
188	Carbon quantum dots as new hole transport material for perovskite solar cells. <i>Synthetic Metals</i> , <b>2016</b> , 222, 17-22	3.6	42
187	Diarylamino-substituted tetraarylethene (TAE) as an efficient and robust hole transport material for 11% methyl ammonium lead iodide perovskite solar cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 13980-2	5.8	58
186	Atomic species identification at the (101) anatase surface by simultaneous scanning tunnelling and atomic force microscopy. <i>Nature Communications</i> , <b>2015</b> , 6, 7265	17.4	44

185	Efficient solution processed D1-A-D2-A-D1 small molecules bulk heterojunction solar cells based on alkoxy triphenylamine and benzo[1,2-b:4,5-b']thiophene units. <i>Organic Electronics</i> , <b>2015</b> , 26, 36-47	3.5	16
184	Design, fabrication and charge recombination analysis of an interdigitated heterojunction nanomorphology in P3HT/PC(70)BM solar cells. <i>Nanoscale</i> , <b>2015</b> , 7, 13848-59	7.7	13
183	AD <sub>2</sub> A based porphyrin for solution processed small molecule bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16287-16301	13	40
182	Optoelectronic Studies of Methylammonium Lead Iodide Perovskite Solar Cells with Mesoporous TiO <sub>2</sub> Separation of Electronic and Chemical Charge Storage, Understanding Two Recombination Lifetimes, and the Evolution of Band Offsets during J-V Hysteresis. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5087-99	16.4	227
181	High photocurrent in oligo-thienylenevinylene-based small molecule solar cells with 4.9% solar-to-electrical energy conversion. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11340-11348	13	13
180	Efficient bulk heterojunction solar cells based on solution processed small molecules based on the same benzo[1,2-b:4, 5-b']thiophene unit as core donor and different terminal units. <i>Nanoscale</i> , <b>2015</b> , 7, 7692-703	7.7	16
179	Solvent Annealing Control of Bulk Heterojunction Organic Solar Cells with 6.6% Efficiency Based on a Benzodithiophene Donor Core and Dicyano Acceptor Units. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20871-20879	3.8	32
178	The influence of the mesoporous TiO <sub>2</sub> scaffold on the performance of methyl ammonium lead iodide (MAPI) perovskite solar cells: charge injection, charge recombination and solar cell efficiency relationship. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22154-22161	13	31
177	H <sub>2</sub> generation and sulfide to sulfoxide oxidation with H <sub>2</sub> O and sunlight with a model photoelectrosynthesis cell. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 304-305, 202-208	23.2	14
176	Increased short circuit current in an azafullerene-based organic solar cell. <i>Chemical Communications</i> , <b>2015</b> , 51, 1128-30	5.8	20
175	Synthesis, optical and electrochemical properties of the A-BD-BA porphyrin and its application as an electron donor in efficient solution processed bulk heterojunction solar cells. <i>Nanoscale</i> , <b>2015</b> , 7, 17978-89	7.7	42
174	Metal-free organic sensitizers with narrow absorption in the visible for solar cells exceeding 10% efficiency. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2010-2018	35.4	105
173	Indoline as electron donor unit in PushPull organic small molecules for solution processed organic solar cells: Effect of the molecular bridge on device efficiency. <i>Organic Electronics</i> , <b>2015</b> , 20, 15-23	3.5	14
172	A single atom change switches-on the solar-to-energy conversion efficiency of Zn-porphyrin based dye sensitized solar cells to 10.5%. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1368-1375	35.4	60
171	Influence of the molecular weight and size dispersion of the electroluminescent polymer on the performance of air-stable hybrid light-emitting diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 1078-86	9.5	3
170	Solution processed organic solar cells based on AD <sub>2</sub> DA small molecule with benzo[1,2-b:4,5-b']dithiophene donor (D <sub>2</sub> ) unit, cyclopentadithiophene donor (D) and ethylrhodanine acceptor unit having 6% light to energy conversion efficiency. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4892-4902	13	19
169	A robust organic dye for dye sensitized solar cells based on iodine/iodide electrolytes combining high efficiency and outstanding stability. <i>Scientific Reports</i> , <b>2014</b> , 4, 4033	4.9	140
168	Unambiguous determination of molecular packing in crystalline donor domains of small molecule solution processed solar cell devices using routine X-ray diffraction techniques. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3536	13	27



167	Small molecule BHJ solar cells based on DPP(TBFu) <sub>2</sub> and diphenylmethanofullerenes (DPM): linking morphology, transport, recombination and crystallinity. <i>Nanoscale</i> , <b>2014</b> , 6, 5871-8	7.7	36
166	Quantum dot based molecular solar cells. <i>Coordination Chemistry Reviews</i> , <b>2014</b> , 263-264, 53-64	23.2	77
165	D- $\pi$ A Porphyrin Employing an Indoline Donor Group for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16504-16509	3.8	38
164	Lanthanide-doped nanoparticles for specific recognition of toll-like receptor (TLR) in human neutrophils. <i>RSC Advances</i> , <b>2014</b> , 4, 15040	3.7	1
163	Small molecule-based tandem solar cells with solution-processed and vacuum-processed photoactive layers. <i>Chemical Communications</i> , <b>2014</b> , 50, 5349-51	5.8	11
162	Panchromatic Ru(II) sensitizers bearing single thiocyanate for high efficiency dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17618-17627	13	47
161	Dual core quantum dots for highly quantitative ratiometric detection of trypsin activity in cystic fibrosis patients. <i>Nanoscale</i> , <b>2014</b> , 6, 13623-9	7.7	14
160	The Redox Pair Chemical Environment Influence on the Recombination Loss in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3878-3889	3.8	27
159	Highly efficient dye-sensitized solar cells based on panchromatic ruthenium sensitizers with quinolinylbipyridine anchors. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 178-83	16.4	98
158	Molecular dipole, dye structure and electron lifetime relationship in efficient dye sensitized solar cells based on donor-acceptor organic sensitizers. <i>Organic Electronics</i> , <b>2014</b> , 15, 3162-3172	3.5	7
157	Thiocyanate-free ruthenium(II) sensitizers for dye-sensitized solar cells based on the cobalt redox couple. <i>ChemSusChem</i> , <b>2014</b> , 7, 2930-8	8.3	18
156	Novel 4 H -pyranilidene organic dyes for dye-sensitized solar cells: Effect of different heteroaromatic rings on the photovoltaic properties. <i>Organic Electronics</i> , <b>2014</b> , 15, 3237-3250	3.5	26
155	Light-driven organocatalysis using inexpensive, nontoxic Bi <sub>2</sub> O <sub>3</sub> as the photocatalyst. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9613-6	16.4	106
154	Use of Thienylenevinylene and Ethynyl Molecular Bridges in Organic Dyes for Dye-Sensitized Solar Cells: Implications for Device Performance. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1126-1129	4.3	8
153	Photo-induced charge recombination kinetics in MAPbI <sub>3-x</sub> Cl <sub>x</sub> perovskite-like solar cells using low band-gap polymers as hole conductors. <i>Chemical Communications</i> , <b>2014</b> , 50, 14566-9	5.8	30
152	Inverted vs standard PTB7:PC70BM organic photovoltaic devices. The benefit of highly selective and extracting contacts in device performance. <i>Organic Electronics</i> , <b>2014</b> , 15, 2756-2762	3.5	42
151	Efficient and limiting reactions in aqueous light-induced hydrogen evolution systems using molecular catalysts and quantum dots. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7655-61	16.4	116
150	Highly Efficient Dye-Sensitized Solar Cells Based on Panchromatic Ruthenium Sensitizers with Quinolinylbipyridine Anchors. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 182-187	3.6	9

149	Light-Driven Organocatalysis Using Inexpensive, Nontoxic Bi <sub>2</sub> O <sub>3</sub> as the Photocatalyst. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9767-9770	3.6	23
148	Correlation between P3HT inter-chain structure and J <sub>sc</sub> of P3HT:PC[70]BM blends for solar cells. <i>Microelectronics Reliability</i> , <b>2013</b> , 53, 560-564	1.2	18
147	Controlling dye aggregation, injection energetics and catalytic recombination in organic sensitizer based dye cells using a single electrolyte additive. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3046	35.4	13
146	Nongeminate Recombination Dynamics Device Voltage Relationship in Hybrid PbS Quantum Dot/C60 Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17470-17476	3.8	13
145	Charge carrier transport and contact selectivity limit the operation of PTB7-based organic solar cells of varying active layer thickness. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12345	13	79
144	High open circuit voltage in efficient thiophene-based small molecule solution processed organic solar cells. <i>Organic Electronics</i> , <b>2013</b> , 14, 2826-2832	3.5	30
143	Effect of porphyrin loading on performance of dye sensitized solar cells based on iodide/tri-iodide and cobalt electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13640	13	21
142	Understanding the Effect of Donor Layer Thickness and a MoO <sub>3</sub> Hole Transport Layer on the Open-Circuit Voltage in Squaraine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19866-19874	3.8	24
141	Light soaking effects on charge recombination and device performance in dye sensitized solar cells based on indoline/cyclopentadithiophene chromophores. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8994	13	24
140	Photoluminescent CdSe@CdS/2D as potential biocompatible materials. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 793-800	7.3	4
139	Harnessing the open-circuit voltage via a new series of Ru(II) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 859	35.4	60
138	Effect of Polymer Crystallinity in P3HT:PCBM Solar Cells on Band Gap Trap States and Apparent Recombination Order. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 466-471	21.8	42
137	Ru(II) sensitizers bearing dianionic biazolate ancillaries: ligand synergy for high performance dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7681	13	26
136	Improving CdSe Quantum Dot/Polymer Solar Cell Efficiency Through the Covalent Functionalization of Quantum Dots: Implications in the Device Recombination Kinetics. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 13374-13381	3.8	30
135	The effect of the silica thickness on the enhanced emission in single particle quantum dots coated with gold nanoparticles. <i>RSC Advances</i> , <b>2013</b> , 3, 10691	3.7	14
134	Ti(IV) phthalocyanines for dye sensitized solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2013</b> , 17, 814-820	1.8	14
133	Advances in high efficiency dye sensitized solar cells based on Ru(II) free sensitizers and a liquid redox electrolyte. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24195		50
132	Formation of highly crystalline and texturized donor domains in DPP(TBFu) <sub>2</sub> :PC71BM SM-BHJ devices via solvent vapour annealing: implications for device function. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15175		65



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