

Emilio Jos Palomares Gil

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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	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
255	Correlation between Photovoltaic Performance and Impedance Spectroscopy of Dye-Sensitized Solar Cells Based on Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6550-6560	3.8	821
254	Sensitizer molecular structure-device efficiency relationship in dye sensitized solar cells. <i>Chemical Society Reviews</i> , 2011 , 40, 1635-46	58.5	492
253	Nanocrystalline dye-sensitized solar cells having maximum performance. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 1-18	6.8	479
252	Molecular cosensitization for efficient panchromatic dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8358-62	16.4	461
251	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
250	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
249	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
248	The effect of Al ₂ O ₃ barrier layers in TiO ₂ /dye/CuSCN photovoltaic cells explored by recombination and DOS characterization using transient photovoltage measurements. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4616-23	3.4	299
247	Reversible colorimetric probes for mercury sensing. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12351-6	16.4	298
246	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
245	A review of recent results on electrochemical determination of the density of electronic states of nanostructured metal-oxide semiconductors and organic hole conductors. <i>Inorganica Chimica Acta</i> , 2008 , 361, 684-698	2.7	263
244	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
243	Towards optimisation of electron transfer processes in dye sensitised solar cells. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1247-1257	23.2	239
242	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
241	Optoelectronic Studies of Methylammonium Lead Iodide Perovskite Solar Cells with Mesoporous TiO ₂ 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> , 2015 , 137, 5087-99	16.4	227
240	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

239	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
238	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
237	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
236	Optical mercury sensing using a benzothiazolium hemicyanine dye. <i>Organic Letters</i> , 2006 , 8, 3857-60	6.2	155
235	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
234	Kinetic competition in liquid electrolyte and solid-state cyanine dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3037-3044		152
233	Structure-function relationships in unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2009 , 15, 5130-7	4.8	150
232	Heterogeneous colorimetric sensor for mercuric salts. <i>Chemical Communications</i> , 2004 , 362-3	5.8	150
231	Photochemical energy conversion: from molecular dyads to solar cells. <i>Chemical Communications</i> , 2006 , 3279-89	5.8	146
230	A robust organic dye for dye sensitized solar cells based on iodine/iodide electrolytes combining high efficiency and outstanding stability. <i>Scientific Reports</i> , 2014 , 4, 4033	4.9	140
229	Energy levels, charge injection, charge recombination and dye regeneration dynamics for donor-acceptor π -conjugated organic dyes in mesoscopic TiO ₂ sensitized solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1820	35.4	137
228	State selective electron injection in non-aggregated titanium phthalocyanine sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2004 , 2112-3	5.8	136
227	Stepwise cosensitization of nanocrystalline TiO ₂ films utilizing Al ₂ O ₃ layers in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8259-63	16.4	133
226	Molecular Cosensitization for Efficient Panchromatic Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2007 , 119, 8510-8514	3.6	130
225	Quantum Dot-Dye Bilayer-Sensitized Solar Cells: Breaking the Limits Imposed by the Low Absorbance of Dye Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1134-8	6.4	127
224	Interfacial charge recombination between e ⁻ -TiO ₂ and the I ⁻ /I ₃ ⁻ electrolyte in ruthenium heteroleptic complexes: dye molecular structure-open circuit voltage relationship. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13558-67	16.4	120
223	A Highly Sensitive Hybrid Colorimetric and Fluorometric Molecular Probe for Cyanide Sensing Based on a Subphthalocyanine Dye. <i>Advanced Functional Materials</i> , 2006 , 16, 1166-1170	15.6	120
222	Slow electron injection on Ru-Phthalocyanine sensitized TiO ₂ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 9250-1	16.4	119

221	Ruthenium Polypyridyl Sensitisers in Dye Solar Cells Based on Mesoporous TiO ₂ . <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 4509-4526	2.3	118
220	Dye molecular structure device open-circuit voltage correlation in Ru(II) sensitizers with heteroleptic tridentate chelates for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7488-96	16.4	117
219	Flexible dye sensitised nanocrystalline semiconductor solar cells. <i>Chemical Communications</i> , 2003 , 3008-9.8	3.8	117
218	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> , 2014 , 136, 7655-61	16.4	116
217	A Multilayered Polymer Light-Emitting Diode Using a Nanocrystalline Metal-Oxide Film as a Charge-Injection Electrode. <i>Advanced Materials</i> , 2007 , 19, 683-687	24	115
216	Light-driven organocatalysis using inexpensive, nontoxic Bi ₂ O ₃ as the photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9613-6	16.4	106
215	Metal-free organic sensitizers with narrow absorption in the visible for solar cells exceeding 10% efficiency. <i>Energy and Environmental Science</i> , 2015 , 8, 2010-2018	35.4	105
214	High Molar Extinction Coefficient Branchlike Organic Dyes Containing Di(p-tolyl)phenylamine Donor for Dye-Sensitized Solar Cells Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3280-3286	3.8	105
213	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> , 2019 , 12, 1296-1308	35.4	102
212	Alizarin Complexone on Nanocrystalline TiO ₂ : A Heterogeneous Approach to Anion Sensing. <i>Advanced Functional Materials</i> , 2004 , 14, 111-115	15.6	101
211	Graphene and Carbon Quantum Dot-Based Materials in Photovoltaic Devices: From Synthesis to Applications. <i>Nanomaterials</i> , 2016 , 6,	5.4	99
210	Highly efficient dye-sensitized solar cells based on panchromatic ruthenium sensitizers with quinolinylbipyridine anchors. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 178-83	16.4	98
209	Advances in the Synthesis of Small Molecules as Hole Transport Materials for Lead Halide Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2018 , 51, 869-880	24.3	95
208	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
207	Increasing the efficiency of zinc-phthalocyanine based solar cells through modification of the anchoring ligand. <i>Energy and Environmental Science</i> , 2011 , 4, 189-194	35.4	89
206	Spectroscopic Evidence in Support of the Molecular Orbital Confinement Concept: Case of Anthracene Incorporated in Zeolites. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6520-6521	16.4	88
205	Effect of anchoring groups in zinc phthalocyanine on the dye-sensitized solar cell performance and stability. <i>Chemical Science</i> , 2011 , 2, 1145	9.4	87
204	Energy alignment and recombination in perovskite solar cells: weighted influence on the open circuit voltage. <i>Energy and Environmental Science</i> , 2019 , 12, 1309-1316	35.4	80

203	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> , 2013 , 1, 12345	13	79
202	Quantum dot based molecular solar cells. <i>Coordination Chemistry Reviews</i> , 2014 , 263-264, 53-64	23.2	77
201	Charge Injection, Carriers Recombination and HOMO Energy Level Relationship in Perovskite Solar Cells. <i>Scientific Reports</i> , 2017 , 7, 6101	4.9	76
200	Dye mediated charge recombination dynamics in nanocrystalline TiO ₂ dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12415		73
199	Efficient Transparent Thin Dye Solar Cells Based on Highly Porous 1D Photonic Crystals. <i>Advanced Functional Materials</i> , 2012 , 22, 1303-1310	15.6	72
198	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
197	Decreasing Charge Losses in Perovskite Solar Cells Through mp-TiO ₂ /MAPI Interface Engineering. <i>Chemistry of Materials</i> , 2016 , 28, 207-213	9.6	71
196	Materials, Nanomorphology, and Interfacial Charge Transfer Reactions in Quantum Dot/Polymer Solar Cell Devices. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3039-3045	6.4	69
195	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
194	The Origin of the High Voltage in DPM12/P3HT Organic Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 2695-2700	15.6	67
193	The role of para-alkyl substituents on meso-phenyl porphyrin sensitised TiO ₂ solar cells: control of the eTiO ₂ /electrolyte+ recombination reaction. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1652		66
192	Effect of energy disorder in interfacial kinetics of dye-sensitized solar cells with organic hole transport material. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19406-11	3.4	66
191	Formation of highly crystalline and texturized donor domains in DPP(TBFu) ₂ :PC71BM SM-BHJ devices via solvent vapour annealing: implications for device function. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15175		65
190	Photo-induced charge transfer dynamics in efficient TiO ₂ /CdS/CdSe sensitized solar cells. <i>Energy and Environmental Science</i> , 2011 , 4, 4633	35.4	64
189	Co-sensitized DSCs: dye selection criteria for optimized device Voc and efficiency. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1693-1696		64
188	Semiconductor self-assembled monolayers as selective contacts for efficient PIN perovskite solar cells. <i>Energy and Environmental Science</i> , 2019 , 12, 230-237	35.4	62
187	Factors controlling charge recombination under dark and light conditions in dye sensitised solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3547-58	3.6	62
186	Harnessing the open-circuit voltage via a new series of Ru(II) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. <i>Energy and Environmental Science</i> , 2013 , 6, 859	35.4	60

185	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> , 2015 , 8, 1368-1375	35.4	60
184	Dye structure-charge transfer process relationship in efficient ruthenium-dye based dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2010 , 3, 805	35.4	60
183	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> , 2015 , 51, 13980-2	5.8	58
182	Pyrene covalently anchored on a large external surface area zeolite as a selective heterogeneous sensor for iodide. <i>Chemical Communications</i> , 2002 , 1100-1	5.8	58
181	Naphthalene Included within All-Silica Zeolites: Influence of the Host on the Naphthalene Photophysics. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9973-9979	3.4	57
180	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
179	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 302-308	20.1	52
178	Determination of electron and hole energy levels in mesoporous nanocrystalline TiO ₂ solid-state dye solar cell. <i>Synthetic Metals</i> , 2006 , 156, 944-948	3.6	52
177	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> , 2012 , 22, 24195		50
176	Dynamic chemical devices: photoinduced electron transfer and its ion-triggered switching in nanomechanical butterfly-type bis(porphyrin)terpyridines. <i>Chemistry - A European Journal</i> , 2006 , 12, 1931-40	4.8	50
175	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> , 2017 , 29, 1604493	24	48
174	Panchromatic Ru(II) sensitizers bearing single thiocyanate for high efficiency dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17618-17627	13	47
173	A continuity equation for the simulation of the current-voltage curve and the time-dependent properties of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10285-99	3.6	45
172	Atomic species identification at the (101) anatase surface by simultaneous scanning tunnelling and atomic force microscopy. <i>Nature Communications</i> , 2015 , 6, 7265	17.4	44
171	Charge transfer kinetics in CdSe quantum dot sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2819-21	3.6	43
170	Fast Regeneration of CdSe Quantum Dots by Ru Dye in Sensitized TiO ₂ Electrodes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6755-6761	3.8	43
169	Synthesis, optical and electrochemical properties of the A-ED-EA porphyrin and its application as an electron donor in efficient solution processed bulk heterojunction solar cells. <i>Nanoscale</i> , 2015 , 7, 1797-89	7.7	42
168	Inverted vs standard PTB7:PC70BM organic photovoltaic devices. The benefit of highly selective and extracting contacts in device performance. <i>Organic Electronics</i> , 2014 , 15, 2756-2762	3.5	42

167	Effect of Polymer Crystallinity in P3HT:PCBM Solar Cells on Band Gap Trap States and Apparent Recombination Order. <i>Advanced Energy Materials</i> , 2013 , 3, 466-471	21.8	42
166	Interfacial photo-induced charge transfer reactions in perylene imide dye sensitised solar cells. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5802		42
165	Photoelectrochemical study of Zn cytochrome-c immobilised on a nanoporous metal oxide electrode. <i>Chemical Communications</i> , 2002 , 1518-9	5.8	42
164	Carbon quantum dots as new hole transport material for perovskite solar cells. <i>Synthetic Metals</i> , 2016 , 222, 17-22	3.6	42
163	AD A based porphyrin for solution processed small molecule bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16287-16301	13	40
162	A colorimetric molecular probe for Cu(II) ions based on the redox properties of Ru(II) phthalocyanines. <i>Journal of Materials Chemistry</i> , 2008 , 18, 176-181		40
161	Synthesis and characterization of poly(1-vinyl-3-alkylimidazolium) iodide polymers for quasi-solid electrolytes in dye sensitized solar cells. <i>Electrochimica Acta</i> , 2010 , 56, 42-46	6.7	39
160	Hybrid molecular materials for optoelectronic devices. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3593		39
159	Laser flash photolysis study of Jacobsen catalyst and related manganese(III) salen complexes. Relevance to catalysis. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7074-80	16.4	39
158	D-EA Porphyrin Employing an Indoline Donor Group for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16504-16509	3.8	38
157	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> , 2016 , 4, 11009-11022	13	37
156	Multiplexed color encoded silica nanospheres prepared by stepwise encapsulating quantum dot/SiO ₂ multilayers. <i>Chemical Communications</i> , 2011 , 47, 7071-3	5.8	37
155	Observation of a 390-nm Emission Band Associated with Framework Ti in Mesoporous Titanosilicates. <i>Chemistry of Materials</i> , 2000 , 12, 3068-3072	9.6	37
154	Small molecule BHJ solar cells based on DPP(TBFu) ₂ and diphenylmethanofullerenes (DPM): linking morphology, transport, recombination and crystallinity. <i>Nanoscale</i> , 2014 , 6, 5871-8	7.7	36
153	Immobilization and Electrochemistry of Negatively Charged Proteins on Modified Nanocrystalline Metal Oxide Electrodes. <i>Electroanalysis</i> , 2005 , 17, 1035-1041	3	36
152	Jatrophone and tiglane diterpenes from the latex of <i>Euphorbia obtusifolia</i> . <i>Phytochemistry</i> , 1999 , 52, 479-485	4	36
151	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
150	The effect of molecular aggregates over the interfacial charge transfer processes on dye sensitized solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 153506	3.4	34

149	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> , 2021 , 14, 3976-3985	35.4	33
148	Analysis of Photoinduced Carrier Recombination Kinetics in Flat and Mesoporous Lead Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 182-187	20.1	32
147	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> , 2015 , 119, 20871-20879	3.8	32
146	The influence of the mesoporous TiO ₂ scaffold on the performance of methyl ammonium lead iodide (MAPbI ₃) perovskite solar cells: charge injection, charge recombination and solar cell efficiency relationship. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22154-22161	13	31
145	Charge transfer reactions in near IR absorbing small molecule solution processed organic bulk-heterojunction solar. <i>Organic Electronics</i> , 2011 , 12, 329-335	3.5	31
144	Supramolecular interactions in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5818		31
143	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> , 2017 , 5, 6122-6130	13	30
142	Photo-induced charge recombination kinetics in MAPbI ₃ (1-x)Cl _x perovskite-like solar cells using low band-gap polymers as hole conductors. <i>Chemical Communications</i> , 2014 , 50, 14566-9	5.8	30
141	High open circuit voltage in efficient thiophene-based small molecule solution processed organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 2826-2832	3.5	30
140	Measurements of Efficiency Losses in Blend and Bilayer-Type Zinc Phthalocyanine/C60 High-Vacuum-Processed Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16384-16390	3.8	30
139	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> , 2013 , 117, 13374-13381	3.8	30
138	Grafting porphyrins (face-to-edge/orthogonal versus face-to-face/parallel) to ZnO en route toward dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14671-8	3.4	30
137	Interfacial charge transfer dynamics in CdSe/dipole molecules coated quantum dot polymer blends. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13047-51	3.6	30
136	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
135	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> , 2018 , 28, 1706291	15.6	28
134	Stepwise Cosensitization of Nanocrystalline TiO ₂ Films Utilizing Al ₂ O ₃ Layers in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2008 , 120, 8383-8387	3.6	28
133	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> , 2014 , 2, 3536	13	27
132	The Redox Pair Chemical Environment Influence on the Recombination Loss in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3878-3889	3.8	27

131	Novel ZnO nanostructured electrodes for higher power conversion efficiencies in polymeric solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20871-6	3.6	27
130	Improved Carrier Collection and Hot Electron Extraction Across Perovskite, C, and TiO Interfaces. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1236-1246	16.4	27
129	Novel 4 H -pyranylidene organic dyes for dye-sensitized solar cells: Effect of different heteroaromatic rings on the photovoltaic properties. <i>Organic Electronics</i> , 2014 , 15, 3237-3250	3.5	26
128	Ru(II) sensitizers bearing dianionic biazolate ancillaries: ligand synergy for high performance dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7681	13	26
127	Relation between the barrier interface and the built-in potential in pentacene/C60 solar cell. <i>Applied Physics Letters</i> , 2010 , 97, 013305	3.4	25
126	Direct white light emission from carbon nanodots (C-dots) in solution processed light emitting diodes. <i>Nanoscale</i> , 2019 , 11, 11315-11321	7.7	24
125	Understanding the Effect of Donor Layer Thickness and a MoO3 Hole Transport Layer on the Open-Circuit Voltage in Squaraine/C60 Bilayer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19866-19874	3.8	24
124	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> , 2013 , 1, 8994 ¹³	13	24
123	Visible-Light-Promoted Arylation Reactions Photocatalyzed by Bismuth(III) Oxide. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 6986-6990	3.2	24
122	Optical sensing of cyanide using hybrid biomolecular films. <i>Inorganic Chemistry Communication</i> , 2006 , 9, 1239-1242	3.1	24
121	Photochemistry of a Dumbbell-Shaped Multicomponent System Hosted Inside the Mesopores of Al/MCM-41 Aluminosilicate. Generation of Long-Lived Viologen Radicals. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14319-14325	3.4	24
120	Photo-Induced Charge Carrier Recombination Kinetics in Small Molecule Organic Solar Cells and the Influence of Film Nanomorphology. <i>Advanced Energy Materials</i> , 2017 , 7, 1601509	21.8	23
119	Light-Driven Organocatalysis Using Inexpensive, Nontoxic Bi2O3 as the Photocatalyst. <i>Angewandte Chemie</i> , 2014 , 126, 9767-9770	3.6	23
118	Effect of bulky groups in ruthenium heteroleptic sensitizers on dye sensitized solar cell performance. <i>Chemical Science</i> , 2012 , 3, 1177	9.4	23
117	Supramolecular Control of Charge Transfer in Dye-Sensitized Nanocrystalline TiO2 Films: Towards a Quantitative Structure-Function Relationship. <i>Angewandte Chemie</i> , 2005 , 117, 5886-5890	3.6	23
116	Photo-induced electron recombination dynamics in CdSe/P3HT hybrid heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9644-7	3.6	22
115	Photoluminescence of supported vanadia catalysts: linear correlation between the vanadyl emission wavelength and the isoelectric point of the oxide support. <i>Catalysis Letters</i> , 2000 , 69, 217-221	2.8	22
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