# CITATION REPORT List of articles citing



DOI: 10.1021/jp012075a Journal of Physical Chemistry B, 2001, 105, 10461-10464.

Source: https://exaly.com/paper-pdf/32349523/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
393	Interfacial Electron-Transfer Dynamics in Ru(tcterpy)(NCS)3-Sensitized TiO2 Nanocrystalline Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12693-12704	3.4	170
392	Substituted polypyridine complexes of cobalt(II/III) as efficient electron-transfer mediators in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 11215-22	16.4	498
391	Photovoltaics Literature Survey (No. 13). <b>2002</b> , 10, 169-170		
390	Conversion and Storage of Solar Energy using Dye-sensitized Nanocrystalline TiO2 Cells. <b>2003</b> , 719-758		13
389	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. <b>2003</b> , 2, 402-7		1387
388	Excitonic Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 4688-4698	3.4	671
387	Characterization of Titanium Dioxide Blocking Layers in Dye-Sensitized Nanocrystalline Solar Cells. Journal of Physical Chemistry B, <b>2003</b> , 107, 14394-14400	3.4	337
386	Conductive and Transparent Multilayer Films for Low-Temperature-Sintered Mesoporous TiO2 Electrodes of Dye-Sensitized Solar Cells. <b>2003</b> , 15, 2824-2828		78
385	Reductive Electron Transfer Quenching of MLCT Excited States Bound To Nanostructured Metal Oxide Thin Films. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 245-254	3.4	40
384	A Quasi-Solid-State Dye-Sensitized Solar Cell Based on a Sol <b>G</b> el Nanocomposite Electrolyte Containing Ionic Liquid. <b>2003</b> , 15, 1825-1829		199
383	Enhanced Dye-Sensitized Photoconversion Efficiency via Reversible Production of UV-Induced Surface States in Nanoporous TiO2. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3019-3029	3.4	86
382	Enhance the Performance of Dye-Sensitized Solar Cells by Co-grafting Amphiphilic Sensitizer and Hexadecylmalonic Acid on TiO2 Nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 14336-14341	3.4	638
381	Two-layer TiO2nanostructured photoelectrode with underlying film obtained by microwave-activated chemical bath deposition (MW-CBD). <b>2004</b> , 19, L52-L55		9
380	Calibration of solar simulator for evaluation of dye-sensitized solar cells. <b>2004</b> , 82, 421-429		72
379	Preparation and photoelectrochemical characterization of a red sensitive osmium complex containing 4,4?,4??-tricarboxy-2,2?:6?,2??-terpyridine and cyanide ligands. <b>2004</b> , 164, 15-21		75
378	Conversion of sunlight to electric power by nanocrystalline dye-sensitized solar cells. <b>2004</b> , 164, 3-14		1898
377	Solidifying liquid electrolytes with fluorine polymer and silica nanoparticles for quasi-solid dye-sensitized solar cells. <b>2004</b> , 125, 1241-1245		99

376	Interfacial processes in the dye-sensitized solar cell. <b>2004</b> , 248, 1215-1224		154
375	Electrochemical studies of the Co(III)/Co(II)(dbbip)2 redox couple as a mediator for dye-sensitized nanocrystalline solar cells. <b>2004</b> , 248, 1447-1453		171
374	Morphological and photoelectrochemical characterization of core-shell nanoparticle films for dye-sensitized solar cells: Zn-O type shell on SnO2 and TiO2 cores. <b>2004</b> , 20, 4246-53		145
373	A Porous Multilayer Dye-Based Photoelectrochemical Cell That Unexpectedly Runs in Reverse. Journal of Physical Chemistry B, <b>2004</b> , 108, 4111-4115	3.4	65
372	Current Density versus Potential Characteristics of Dye-Sensitized Nanostructured Semiconductor Photoelectrodes. 2. Simulations. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5282-5293	3.4	38
371	A solvent-free, SeCN-/(SeCN)3- based ionic liquid electrolyte for high-efficiency dye-sensitized nanocrystalline solar cells. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7164-5	16.4	336
370	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8106-8118	3.4	539
369	Photooxidation studies with perylenediimides in solution, PVC and solgel thin films under concentrated sun light. <i>Solar Energy</i> , <b>2005</b> , 78, 5-17	6.8	10
368	Electron injection at dye-sensitized semiconductor electrodes. <b>2005</b> , 56, 119-56		218
367	Coll Complexes of Triazine-Based Tridentate Ligands with Positive and Attractive Coll/III Redox Couples. <b>2005</b> , 2005, 1223-1226		19
366	Implication of device functioning due to back reaction of electrons via the conducting glass substrate in dye sensitized solar cells. <b>2005</b> , 87, 263504		53
365	How important is the back reaction of electrons via the substrate in dye-sensitized nanocrystalline solar cells?. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 930-6	3.4	211
364	Transient absorption studies and numerical modeling of iodine photoreduction by nanocrystalline TiO2 films. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 142-50	3.4	83
363	Roles of electrolytes on charge recombination in dye-sensitized TiO(2) solar cells (2): the case of solar cells using cobalt complex redox couples. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3488-93	3.4	98
362	Dye-sensitized SnO2 electrodes with iodide and pseudohalide redox mediators. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 937-43	3.4	113
361	Blue copper model complexes with distorted tetragonal geometry acting as effective electron-transfer mediators in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 9648-54	16.4	260
360	Preparation of nanoporous MgO-coated TiO2 nanoparticles and their application to the electrode of dye-sensitized solar cells. <b>2005</b> , 21, 10332-5		181
359	Sensitization of nanocrystalline TiO2 with black absorbers based on Os and Ru polypyridine complexes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15342-3	16.4	187

358	Efficient eosin y dye-sensitized solar cell containing Br-/Br3- electrolyte. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 22449-55	3.4	184
357	Synthesis and structural characterisation of polynuclear cobalt complexes with partially-deprotonated Bis-tris. <b>2006</b> , 3627-8		24
356	Comparison of the self-exchange and interfacial charge-transfer rate constants for methyl- versus tert-butyl-substituted Os(III) polypyridyl complexes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 25514-2	203.4	15
355	Influence of ionic liquids bearing functional groups in dye-sensitized solar cells. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 1585-90	5.1	126
354	Efficient non-corrosive electron-transfer mediator mixtures for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9996-7	16.4	114
353	Quantification of the effect of 4-tert-butylpyridine addition to I-/I3- redox electrolytes in dye-sensitized nanostructured TiO2 solar cells. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 13144-50	3.4	524
352	Electron donor-acceptor distance dependence of the dynamics of light-induced interfacial charge transfer in the dye-sensitization of nanocrystalline oxide semiconductors. <b>2006</b> ,		3
351	Use of Bromophenol RedEDTA system for generation of electricity in a photogalvanic cell. <b>2006</b> , 159, 747-751		14
350	TiO2-Based Dye-Sensitized Solar Cell. <b>2006</b> , 193-225		5
349	Steady-State Operation of Porous Photoelectrochemical Cells Under the Conditions of Mixed Diffusional and Migrational Mass Transport. <b>2006</b> , 153, A2326		10
348	Electron Transfer Mediators for Photoelectrochemical Cells Based on Cu(I) Metal Complexes. <b>2007</b> , 2007, 1-10		15
347	Dye based light sensor for tag integration. <b>2007</b> , 6589, 81		
346	cis-dichloro-bis(4,4Pdicarboxy-2,2-bipyridine)osmium(II)-modified optically transparent electrodes: application as cathodes in stacked dye-sensitized solar cells. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 10071-8	5.1	24
345	Dye-sensitized nanocrystalline solar cells. <b>2007</b> , 9, 2630-42		319
344	Effect of solvents in liquid electrolyte on the photovoltaic performance of dye-sensitized solar cells. <b>2007</b> , 173, 585-591		68
343	Transport, trapping and interfacial transfer of electrons in dye-sensitized nanocrystalline solar cells. <b>2007</b> , 599, 233-240		65
342	Characterization and Modeling of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6601-6612	3.8	345
341	The effect of sputter-deposited TiO2 passivating layer on the performance of dye-sensitized solar cells based on solgel derived photoelectrode. <b>2008</b> , 517, 1294-1300		32

## (2009-2008)

340	Effects of the morphology of the electrode nanostructures on the performance of dye-sensitized solar cells. <b>2008</b> , 1, 483-489		30
339	Dye and polymer based light sensor for tag integration. <b>2008</b> , 14, 659-664		5
338	The 2,2,6,6-Tetramethyl-1-piperidinyloxy Radical: An Efficient, Iodine- Free Redox Mediator for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 341-346	15.6	238
337	Anion dependent formation of linear trinuclear mixed valance cobalt(III/II/III) complexes and mononuclear cobalt(III) complexes of a pyrazole derived ligand (Synthesis, characterization and X-ray structures. <i>Polyhedron</i> , <b>2008</b> , 27, 357-365	2.7	17
336	Dye-sensitized solar cells based on PEDOP as a hole conductive medium. 2008, 361, 627-634		23
335	Protogonists in Chemistry. <b>2008</b> , 361, 561-571		1
334	Progress on the electrolytes for dye-sensitized solar cells. <b>2008</b> , 80, 2241-2258		195
333	Mass Transport of Polypyridyl Cobalt Complexes in Dye-Sensitized Solar Cells with Mesoporous TiO2 Photoanodes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18255-18263	3.8	192
332	Advancing beyond current generation dye-sensitized solar cells. 2008, 1, 66		619
331	Radial electron collection in dye-sensitized solar cells. 2008, 8, 2862-6		124
330	Smart Materials and Concepts for Photovoltaics: Dye Sensitized Solar Cells. 2008, 97-126		5
329	Solvent-Free Ionic Liquid Electrolytes for Mesoscopic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2187-2202	15.6	401
328	Enhanced photovoltaic properties of overlayer-coated nanocrystalline TiO2 dye-sensitized solar cells (DSSCs). <b>2009</b> , 23, 422-425		29
327	Effects of electrode film modifications on the open-circuit photovoltage in enhanced dye-sensitized solar cells. <b>2009</b> , 11, 1905-1915		4
326	Comparison of the performances of dye-sensitized solar cells based on different TiO2 electrode nanostructures. <b>2009</b> , 11, 1917-1923		11
325	UV-sensitized nanomaterial semiconductor catalytic reduction of CoIII(N№)3 3+/nm-TiO2 and Co:TiO2 formation: SEM-EDX and HRTEM analyses. <b>2009</b> , 34, 915-923		6
325			47

322	Characteristics of the iodide/triiodide redox mediator in dye-sensitized solar cells. <b>2009</b> , 42, 1819-26		1177
321	Effect of Surface Protonation of TiO2 on Charge Recombination and Conduction Band Edge Movement in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15417-15421	3.8	51
320	Iodine/iodide-free dye-sensitized solar cells. <b>2009</b> , 42, 1827-38		299
319	On the effect of Al2O3 blocking layer on the performance of dye solar cells with cobalt based electrolytes. <b>2009</b> , 94, 173113		34
318	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. <b>2010</b> , 88-93		
317	Design of organic dyes and cobalt polypyridine redox mediators for high-efficiency dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16714-24	16.4	912
316	Dye-sensitized solar cells. <i>Chemical Reviews</i> , <b>2010</b> , 110, 6595-663	68.1	7291
315	Mass transport and charge transfer rates for Co(III)/Co(II) redox couple in a thin-layer cell. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4025-4029	6.7	50
314	Scanning electrochemical microscope studies of dye regeneration in indoline (D149)-sensitized ZnO photoelectrochemical cells. <b>2010</b> , 650, 24-30		28
313	A highly efficient electric additive for enhancing photovoltaic performance of dye-sensitized solar cells. <b>2010</b> , 53, 1352-1357		7
312	Non-Corrosive, Non-Absorbing Organic Redox Couple for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3358-3365	15.6	101
311	Recent Developments in the Design of Dye-Sensitized Solar Cell Components. <b>2010</b> , 523-579		2
310	Combination of cobalt and iron polypyridine complexes for improving the charge separation and collection in Ru(terpyridine)(2)-sensitised solar cells. <b>2010</b> , 16, 2611-8		54
309	Tuning the HOMO energy levels of organic dyes for dye-sensitized solar cells based on Br-/Br3-electrolytes. <b>2010</b> , 16, 13127-38		101
308	Efficient Organic-Dye-Sensitized Solar Cells Based on an Iodine-Free Electrolyte. <b>2010</b> , 122, 7486-7489		25
307	Efficient organic-dye-sensitized solar cells based on an iodine-free electrolyte. <b>2010</b> , 49, 7328-31		110
306	Charge recombination reduction in dye-sensitized solar cells by means of an electron beam-deposited TiO2 buffer layer between conductive glass and photoelectrode. <b>2010</b> , 518, 7147-715		29
305	New Components for Dye-Sensitized Solar Cells. <b>2010</b> , 2010, 1-16		36

304	Organic Solar Cells: Problems and Perspectives. <b>2010</b> , 2010, 1-11	52
303	Charge Transport and Interfacial Charge Transfer in Dye-Sensitized Nanoporous Semiconductor Electrode Systems. <b>2010</b> , 451, 97-121	1
302	Dye-sensitized solar cells: driving-force effects on electron recombination dynamics with cobalt-based shuttles. <b>2010</b> , 26, 9082-7	100
301	TiO2 nanotubes and their application in dye-sensitized solar cells. <b>2010</b> , 2, 45-59	516
300	Transport and Interfacial Transfer of Electrons in Dye-Sensitized Solar Cells Utilizing a Co(dbbip)2 Redox Shuttle. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14300-14306	103
299	Characterization of Surface Passivation by Poly(methylsiloxane) for Dye-Sensitized Solar Cells Employing the Ferrocene Redox Couple. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 10551-10558	78
298	Nanostructured Solar Cells. <b>2010</b> , 444, 229-254	
297	Study of Redox Species and Oxygen Vacancy Defects at TiO2Electrolyte Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19433-19442	35
296	Photovoltaic performance of quasi-solid state dye sensitized solar cells based on perylene dye and modified TiO2 photo-electrode. <b>2010</b> , 160, 127-133	5
295	The Kinetics of TiO2-based Solar Cells Sensitized by Metal Complexes. <b>2010</b> , 175	
294	Improvement of mass transport of the [Co(bpy)3](II/III) redox couple by controlling nanostructure of TiO2 films in dye-sensitized solar cells. <b>2011</b> , 47, 12637-9	65
293	Sensitization of TiO2 by the MLCT Excited State of Col Coordination Compounds. <b>2011</b> , 2, 305-308	13
292	Computational Spectroscopy Characterization of the Species Involved in Dye Oxidation and Regeneration Processes in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18863-1887	2 <sup>22</sup>
291	Electronic and Optical Properties of the Spiro-MeOTAD Hole Conductor in Its Neutral and Oxidized Forms: A DFT/TDDFT Investigation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23126-23133	115
<b>2</b> 90	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. <b>2011</b> , 4, 4921	178
289	Enhanced Photovoltaic Properties of a Cobalt Bipyridyl Redox Electrolyte in Dye-Sensitized Solar Cells Employing Vertically Aligned TiO2 Nanotube Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 3.8 115, 19979-19985	51
288	Effects of Driving Forces for Recombination and Regeneration on the Photovoltaic Performance of Dye-Sensitized Solar Cells using Cobalt Polypyridine Redox Couples. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21500-21507	242
287	The influence of dye structure on charge recombination in dye-sensitized solar cells. <b>2011</b> , 13, 6637-48	49

286	Dye-sensitized solar cell redox shuttles. <b>2011</b> , 4, 370-381	198
285	SiO2 Aerogel Templated, Porous TiO2 Photoanodes for Enhanced Performance in Dye-Sensitized Solar Cells Containing a Ni(III)/(IV) Bis(dicarbollide) Shuttle. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 3.8 115, 11257-11264	36
284	Efficient organic dye-sensitized thin-film solar cells based on the tris(1,10-phenanthroline)cobalt(II/III) redox shuttle. <b>2011</b> , 4, 2030	131
283	Unpredicted electron injection in CdS/CdSe quantum dot sensitized ZrO2 solar cells. <b>2011</b> , 13, 19302-6	33
282	High-efficiency organic dye-sensitized mesoscopic solar cells with a copper redox shuttle. <b>2011</b> , 47, 4376-8	210
281	Cobalt Redox Mediators for Ruthenium-Based Dye-Sensitized Solar Cells: A Combined Impedance Spectroscopy and Near-IR Transmittance Study. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18847-18855 <sup>3.8</sup>	130
280	Dye-Sensitized Solar Cells. <b>2011</b> , 642-674	5
279	Organic redox couples and organic counter electrode for efficient organic dye-sensitized solar cells.  Journal of the American Chemical Society, <b>2011</b> , 133, 9413-22	214
278	Electron Transfer Dynamics in Dye-Sensitized Solar Cells. <b>2011</b> , 23, 3381-3399	525
277	Metal Oxides and Their Composites for the Photoelectrode of Dye Sensitized Solar Cells. <b>2011</b> ,	6
276	PhotoInitiated ElectronII ransfer at the Interface between Anatase TiO2 Nanocrystallites and TransitionIMetal Polypyridyl Compounds: Recent Advances. <b>2011</b> ,	
275	PhotoIhitiated ElectronII ransfer at the Interface between Anatase TiO2 Nanocrystallites and TransitionIMetal Polypyridyl Compounds: Recent Advances. <b>2011</b> ,	
274	Aiming at High Efficiency Dye-Sensitized Solar Cells-From the View Point of Photoconversion Interface <b>2011</b> , 79, 761-767	
273	High-efficiency dye-sensitized solar cells with ferrocene-based electrolytes. <b>2011</b> , 3, 211-15	512
272	Dye-sensitized solar cells: Out with both baby and bathwater. <b>2011</b> , 3, 188-9	25
271	Switchable materials: A new spin on bistability. <b>2011</b> , 3, 189-91	114
270	Development of all-solid-state mediator-enhanced supercapacitors with polyvinylidene fluoride/lithium trifluoromethanesulfonate separators. <b>2011</b> , 196, 10479-10483	38
269	Iodine-free redox couples for dye-sensitized solar cells. <b>2011</b> , 21, 10592	129

268	Liquid electrolytes for dye-sensitized solar cells. <b>2011</b> , 40, 10289-303	144
267	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <b>2011</b> , 334, 629-34	5284
266	Ruthenium(II)- bipyridyl with extended Bystem: Improved thermo-stable sensitizer for efficient and long-term durable dye sensitized solar cells. <b>2011</b> , 123, 555-565	14
265	Electrochemical characterization of Prussian blue type nickel hexacyanoferrate redox mediator for potential application as charge relay in dye-sensitized solar cells. <b>2011</b> , 15, 2545-2552	24
264	Key technological elements in dye-sensitized solar cells (DSC). <b>2011</b> , 28, 1481-1494	37
263	Electrodeposited Porous ZnO Sensitized by Organic Dyes Promising Materials for Dye-Sensitized Solar Cells with Potential Application in Large-Scale Photovoltaics. <b>2011</b> , 221-275	
262	Dilemmas of dye-sensitized solar cells. <b>2011</b> , 12, 1633-6	67
261	Cyclopentadithiophene bridged donor-acceptor dyes achieve high power conversion efficiencies in dye-sensitized solar cells based on the tris-cobalt bipyridine redox couple. <b>2011</b> , 4, 591-4	307
260	Benzimidazole derivatives in the electrolyte of new-generation organic dye-sensitized solar cells with an iodine-free redox mediator. <b>2011</b> , 219, 148-153	23
259	Effect of NaI/I2 mediators on properties of PEO/LiAlO2 based all-solid-state supercapacitors. <b>2011</b> , 196, 5997-6002	36
258	Cobalt electrolyte/dye interactions in dye-sensitized solar cells: a combined computational and experimental study. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19438-53	185
257	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. <b>2012</b> , 3, 631	498
256	The combination of a polymer-carbon composite electrode with a high-absorptivity ruthenium dye achieves an efficient dye-sensitized solar cell based on a thiolate-disulfide redox couple. <b>2012</b> , 14, 7131-6	31
255	Iodine/iodide-free redox shuttles for liquid electrolyte-based dye-sensitized solar cells. <b>2012</b> , 5, 9180	133
254	High-efficiency dye-sensitized solar cell with a novel co-adsorbent. <b>2012</b> , 5, 6057	617
253	Recent developments in redox electrolytes for dye-sensitized solar cells. <b>2012</b> , 5, 9394	240
252	Enhancing the charge transfer of the counter electrode in dye-sensitized solar cells using periodically aligned platinum nanocups. <b>2012</b> , 8, 3757-61	69
251	Mesoporous Dye-Sensitized Solar Cells. <b>2012</b> , 481-496	2

250	Dye-Sensitized Photoelectrochemical Cells. <b>2012</b> , 479-542		13
249	One bipyridine and triple advantages: tailoring ancillary ligands in ruthenium complexes for efficient sensitization in dye solar cells. <b>2012</b> , 22, 18757		21
248	Highly efficient catalysts for Co(II/III) redox couples in dye-sensitized solar cells. <b>2012</b> , 48, 2600-2		36
247	Dye regeneration and charge recombination in dye-sensitized solar cells with ferrocene derivatives as redox mediators. <b>2012</b> , 5, 7090		138
246	Ru-based donor-acceptor photosensitizer that retards charge recombination in a p-type dye-sensitized solar cell. <b>2012</b> , 41, 13105-11		48
245	A new direction in dye-sensitized solar cells redox mediator development: in situ fine-tuning of the cobalt(II)/(III) redox potential through Lewis base interactions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16646-53	16.4	123
244	Tetrathiafulvalene as a one-electron iodine-free organic redox mediator in electrolytes for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2012</b> , 2, 1083-1087	3.7	22
243	Synthesis and photovoltaic properties of two side-chain polymeric metal complexes containing 8-hydroxyquinoline and fluorene units with Zn(II) and Cd(II). <b>2012</b> , 61, 1016-1022		6
242	Molecular engineering of sensitizers for dye-sensitized solar cell applications. <b>2012</b> , 12, 306-28		84
241	Efficient iodine-free dye-sensitized solar cells employing truxene-based organic dyes. <b>2012</b> , 48, 6645-7		46
			<del>4</del> °
240	The renaissance of dye-sensitized solar cells. <b>2012</b> , 6, 162-169		1091
240			
·	The renaissance of dye-sensitized solar cells. <b>2012</b> , 6, 162-169  Influence of the counter electrode on the photovoltaic performance of dye-sensitized solar cells using a disulfide/thiolate redox electrolyte. <b>2012</b> , 5, 6089  Minimizing Energy Losses in Dye-Sensitized Solar Cells Using Coordination Compounds as	21.8	1091 136
239	The renaissance of dye-sensitized solar cells. <b>2012</b> , 6, 162-169  Influence of the counter electrode on the photovoltaic performance of dye-sensitized solar cells using a disulfide/thiolate redox electrolyte. <b>2012</b> , 5, 6089  Minimizing Energy Losses in Dye-Sensitized Solar Cells Using Coordination Compounds as Alternative Redox Mediators Coupled with Appropriate Organic Dyes. <i>Advanced Energy Materials</i> ,	21.8	1091 136
239	The renaissance of dye-sensitized solar cells. <b>2012</b> , 6, 162-169  Influence of the counter electrode on the photovoltaic performance of dye-sensitized solar cells using a disulfide/thiolate redox electrolyte. <b>2012</b> , 5, 6089  Minimizing Energy Losses in Dye-Sensitized Solar Cells Using Coordination Compounds as Alternative Redox Mediators Coupled with Appropriate Organic Dyes. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 616-627  Avoiding diffusion limitations in cobalt(III/II)-tris(2,2Pbipyridine)-based dye-sensitized solar cells by	21.8	1091 136 83
<ul><li>239</li><li>238</li><li>237</li></ul>	The renaissance of dye-sensitized solar cells. <b>2012</b> , 6, 162-169  Influence of the counter electrode on the photovoltaic performance of dye-sensitized solar cells using a disulfide/thiolate redox electrolyte. <b>2012</b> , 5, 6089  Minimizing Energy Losses in Dye-Sensitized Solar Cells Using Coordination Compounds as Alternative Redox Mediators Coupled with Appropriate Organic Dyes. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 616-627  Avoiding diffusion limitations in cobalt(III/II)-tris(2,2Pbipyridine)-based dye-sensitized solar cells by tuning the mesoporous TiO2 film properties. <b>2012</b> , 13, 2976-81	21.8	1091 136 83 69
<ul><li>239</li><li>238</li><li>237</li><li>236</li></ul>	Influence of the counter electrode on the photovoltaic performance of dye-sensitized solar cells using a disulfide/thiolate redox electrolyte. 2012, 5, 6089  Minimizing Energy Losses in Dye-Sensitized Solar Cells Using Coordination Compounds as Alternative Redox Mediators Coupled with Appropriate Organic Dyes. Advanced Energy Materials, 2012, 2, 616-627  Avoiding diffusion limitations in cobalt(III/II)-tris(2,2Pbipyridine)-based dye-sensitized solar cells by tuning the mesoporous TiO2 film properties. 2012, 13, 2976-81  A new generation of platinum and iodine free efficient dye-sensitized solar cells. 2012, 14, 10631-9	21.8	1091 136 83 69

232	A new terpyridine cobalt complex redox shuttle for dye-sensitized solar cells. 2013, 406, 106-112		18
231	Review on nanostructured photoelectrodes for next generation dye-sensitized solar cells. <b>2013</b> , 27, 33	4-349	106
230	Electrochemical approach to enhance the open-circuit voltage (Voc) of dye-sensitized solar cells (DSSCs). <i>Electrochimica Acta</i> , <b>2013</b> , 109, 39-45	6.7	41
229	Imidazolium functionalized cobalt tris(bipyridyl) complex redox shuttles for high efficiency ionic liquid electrolyte dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11933	13	35
228	High Seebeck coefficient redox ionic liquid electrolytes for thermal energy harvesting. <b>2013</b> , 6, 2639		179
227	Redox properties of cobalt(II) complexes with azole-pyridines. 2013, 407, 261-268		12
226	Efficient Dye-Sensitized Solar Cells with Potential-Tunable Organic Sulfide Mediators and Graphene-Modified Carbon Counter Electrodes. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3344-3352	15.6	18
225	Efficiency enhancement in dye sensitized solar cells based on PAN gel electrolyte with Pr4NI + MgI2 binary iodide salt mixture. <b>2013</b> , 43, 891-901		26
224	Mesoscopic Dye-Sensitized Solar Cells. <b>2013</b> , 579-597		1
223	Electrochemical analysis of transparent oxide-less photovoltaic cell with perforation patterned metal substrate. <b>2013</b> , 102, 183904		5
222	A quasi-liquid polymer-based cobalt redox mediator electrolyte for dye-sensitized solar cells. <b>2013</b> , 15, 17419-25		33
221	Metal free sensitizer and catalyst for dye sensitized solar cells. <b>2013</b> , 6, 3439		326
220	Metal-Oxide Nanoparticles for Dye-Sensitized Solar Cells. <b>2013</b> , 339-383		1
219	Cobalt sulfide thin films for counter electrodes of dye-sensitized solar cells with cobalt complex based electrolytes. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 745-749	6.7	16
218	Towards ionic liquid-based thermoelectrochemical cells for the harvesting of thermal energy. <i>Electrochimica Acta</i> , <b>2013</b> , 113, 87-93	6.7	58
217	Tuning the electrochemistry of homoleptic cobalt 4,4?-disubstituted-2,2?-bipyridine redox mediators. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 690-697	6.7	6
216	Recent molecular engineering of room temperature ionic liquid electrolytes for mesoscopic dye-sensitized solar cells. <i>RSC Advances</i> , <b>2013</b> , 3, 23521	3.7	15
215	Stable Dye-Sensitized Solar Cell Electrolytes Based on Cobalt(II)/(III) Complexes of a Hexadentate Pyridyl Ligand. <b>2013</b> , 125, 5637-5641		23

214	Transparent NiS counter electrodes for thiolate/disulfide mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 237-240	13	62
213	The role of transition metal complexes in dye sensitized solar devices. <b>2013</b> , 257, 1472-1492		136
212	New sensitizers for dye-sensitized solar cells featuring a carbon-bridged phenylenevinylene. <b>2013</b> , 49, 582-4		46
211	Electrocatalytic carbonaceous materials for counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3202-3215	13	56
210	Recombination inhibitive structure of organic dyes for cobalt complex redox electrolytes in dye-sensitised solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 792-798	13	38
209	Iron complex redox system as a mediator for a dye-sensitized solar cell. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 62-66	1.5	2
208	Cyclic voltammetric study of cobalt poly-4-t-butylpyridine ligand complexes on glassy carbon electrodes: electrolyte dependence and mechanistic considerations. <b>2013</b> , 29, 825-31		21
207	Significant performance improvement in dye-sensitized solar cells employing cobalt(III/II) tris-bipyridyl redox mediators by co-grafting alkyl phosphonic acids with a ruthenium sensitizer. <b>2013</b> , 15, 6170-4		27
206	Heterogeneous electron transfer from dye-sensitized nanocrystalline TiO2 to [Co(bpy)3]3+: insights gained from impedance spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 393	9 <sup>1</sup> 6 <del>2</del> 1	44
205	Comparative Evaluation of Catalytic Counter Electrodes for Co(III)/(II) Electron Shuttles in Regenerative Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5142-5153	3.8	37
204	Arylamine organic dyes for dye-sensitized solar cells. <b>2013</b> , 42, 3453-88		909
203	Supramolecular Interactions of Chenodeoxycholic Acid Increase the Efficiency of Dye-Sensitized Solar Cells Based on a Cobalt Electrolyte. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3874-3887	3.8	76
202	Facile synthesis of a bulky BPTPA donor group suitable for cobalt electrolyte based dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5535	13	55
201	Stable dye-sensitized solar cell electrolytes based on cobalt(II)/(III) complexes of a hexadentate pyridyl ligand. <b>2013</b> , 52, 5527-31		74
200	[Co(bpy)3](3+/2+) and [Co(phen)3](3+/2+) electron mediators for overall water splitting under sunlight irradiation using Z-scheme photocatalyst system. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5441-9	16.4	276
199	Unique Metal Dicorrole Dyes with Excellent Photoelectronic Properties for Solar Cells: Insight from Density Functional Calculations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 13388-13395	3.8	19
198	Regeneration and recombination kinetics in cobalt polypyridine based dye-sensitized solar cells, explained using Marcus theory. <b>2013</b> , 15, 7087-97		132
197	Dye-Sensitized Photoelectrochemical Cells. <b>2013</b> , 385-441		2

196	Exploiting nanocarbons in dye-sensitized solar cells. <b>2014</b> , 348, 53-93		26
195	Recombination and redox couples in dye-sensitized solar cells. <b>2013</b> , 257, 1533-1543		79
194	Coordination of expanded terpyridine ligands to cobalt. <i>Polyhedron</i> , <b>2013</b> , 52, 576-581	2.7	19
193	Tridentate cobalt complexes as alternative redox couples for high-efficiency dye-sensitized solar cells. <i>Chemical Science</i> , <b>2013</b> , 4, 454-459	9.4	50
192	A new ionic liquid organic redox electrolyte for high-efficiency iodine-free dye-sensitized solar cells. <b>2013</b> , 221, 328-333		23
191	Photovoltaic Performance of Triphenylamine Dyes-sensitized Solar Cells Employing Cobalt Redox Shuttle and Influence of Łonjugated Spacers. <b>2013</b> , 26, 310-320		1
190	Tris(4,4?-di-t-butyl-2,2?-bipyridine)cobalt: Cation Effects on the Voltammetry at ITO and on Mediator Performance in Dye Sensitized Solar Cells. <b>2013</b> , 160, H355-H359		4
189	Organic Photovoltaics and Dye-Sensitized Solar Cells. <b>2013</b> , 567-605		1
188	Recent Progress of Zn2SnO4-Based Dye Sensitized Solar Cells. <b>2014</b> , 809-810, 793-799		
187	CHAPTER 6:Chemistry of Sensitizers for Dye-sensitized Solar Cells. 186-241		2
186	Integration of [(Co(bpy)) $\square$ + electron mediator with heterogeneous photocatalysts for CO conversion. <b>2014</b> , 9, 2468-74		30
185	Mesoporous TiO2 Beads Offer Improved Mass Transport for Cobalt-Based Redox Couples Leading to High Efficiency Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400168	21.8	60
184	Reducing mass-transport limitations in cobalt-electrolyte-based dye-sensitized solar cells by photoanode modification. <b>2014</b> , 15, 1216-21		18
183	Modification of juglon dye as a sensitiser in dye-sensitised solar cells. <b>2014</b> , 8, 270-276		18
182	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. <i>Electrochimica Acta</i> , <b>2014</b> , 128, 349-359	6.7	84
181	Imidazolium Functionalized Bis-2,2,6,6-Tetramethyl-piperidine-1-oxyl (TEMPO) Bi-redox Couples for Highly Efficient Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , <b>2014</b> , 117, 48-54	6.7	18
180	StructureBroperty relationship of hetero-aromatic-electron-donor antennas of polypyridyl Ru (II) complexes for high efficiency dye-sensitized solar cells. <b>2014</b> , 22, 958-969		24
179	Shielding effects of additives in a cobalt(II/III) redox electrolyte: toward higher open-circuit photovoltages in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10532	13	19

178	Direct Spectroscopic Evidence for Constituent Heteroatoms Enhancing Charge Recombination at a TiO2 <b>R</b> uthenium Dye Interface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17079-17089	3.8	20
177	Structural effect of donor in organic dye on recombination in dye-sensitized solar cells with cobalt complex electrolyte. <b>2014</b> , 30, 2274-9		42
176	Structural design of ruthenium sensitizer compatible with cobalt electrolyte for a dye-sensitized solar cell. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17551-17560	13	20
175	Dye Regeneration Dynamics by Electron Donors on Mesoscopic TiO2 Films. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3420-3425	3.8	7
174	Study on the chemical stability of catalyst counter electrodes for dye-sensitized solar cells using a simple X-ray photoelectron spectroscopy-based method. <b>2014</b> , 268, 25-36		9
173	High-Performance Cobalt Selenide and Nickel Selenide Nanocomposite Counter Electrode for Both Iodide/Triiodide and Cobalt(II/III) Redox Couples in Dye-Sensitized Solar Cells. <b>2014</b> , 32, 491-497		27
172	Enhanced photovoltaic properties and long-term stability in plasmonic dye-sensitized solar cells via noncorrosive redox mediator. <b>2014</b> , 6, 19191-200		32
171	Mn(II/III) complexes as promising redox mediators in quantum-dot-sensitized solar cells. <b>2014</b> , 6, 15061-7	7	12
170	Mesoporous TiO2 Microbead Electrodes for Cobalt-Mediator-Based Dye-Sensitized Solar Cells.  Journal of Physical Chemistry C, <b>2014</b> , 118, 16472-16478	3.8	26
169	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. <b>2014</b> , 26, 4013-30		133
168	A viable surface passivation approach to improve efficiency in cobalt based dye sensitized solar cells. <i>Polyhedron</i> , <b>2014</b> , 82, 173-180	2.7	10
167	Highly Efficient Metal-Free Sulfur-Doped and Nitrogen and Sulfur Dual-Doped Reduced Graphene Oxide Counter Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1701	∂ <sup>8</sup> 17(	o 1 <del>8</del> 8
166	Spatially resolved electrochemistry in ionic liquids: surface structure effects on triiodide reduction at platinum electrodes. <b>2014</b> , 30, 1915-9		32
165	RETRACTED: Improvement of the Photogalvanic Cell for Solar Energy Conversion and Storage: Rose BengallDxalic Acid -Tween 80 System. <b>2014</b> , 46, 227-236		7
164	Photochemical splitting of water for hydrogen production by photocatalysis: A review. <b>2014</b> , 128, 85-101		470
163	Dyes and Redox Couples with Matched Energy Levels: Elimination of the Dye-Regeneration Energy Loss in Dye-Sensitized Solar Cells. <b>2015</b> , 16, 3385-8		4
162	A Bis(tridentate)cobalt Polypyridine Complex as Mediator in Dye-Sensitized Solar Cells. <b>2015</b> , 2015, 3299	)-330	<b>6</b> 8
161	Recent Advances of Cobalt(II/III) Redox Couples for Dye-Sensitized Solar Cell Applications. <b>2015</b> , 15, 760-88		45

## (2015-2015)

160	Redox Active Compounds in Controlled Radical Polymerization and Dye-Sensitized Solar Cells: Mutual Solutions to Disparate Problems. <b>2015</b> , 21, 18516-27		10
159	Nanocomposite semi-solid redox ionic liquid electrolytes with enhanced charge-transport capabilities for dye-sensitized solar cells. <b>2015</b> , 8, 2560-8		16
158	Dye-sensitised solar cells with iodine-free discotic electrolytes. <b>2015</b> , 42, 1815-1822		6
157	Kinetics of Regeneration and Recombination Reactions in Dye-Sensitized Solar Cells Employing Cobalt Redox Shuttles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 28155-28166	3.8	25
156	Electrolytes in dye-sensitized solar cells. <i>Chemical Reviews</i> , <b>2015</b> , 115, 2136-73	68.1	744
155	Comparative study on pyrido[3,4-b]pyrazine-based sensitizers by tuning bulky donors for dye-sensitized solar cells. <b>2015</b> , 7, 2760-71		45
154	Thin Film Structures in Energy Applications. 2015,		5
153	Are High-Potential Cobalt Tris(bipyridyl) Complexes Sufficiently Stable to Be Efficient Mediators in Dye-Sensitized Solar Cells? Synthesis, Characterization, and Stability Tests. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17502-17514	3.8	15
152	Tin oxide as a photoanode for dye-sensitised solar cells: Current progress and future challenges. <b>2015</b> , 293, 1039-1052		87
151	First-Row Transition Metal Complexes for the Conversion of Light into Electricity and Electricity into Light. <b>2015</b> , 61-90		2
150	Vegetable-based dye-sensitized solar cells. <b>2015</b> , 44, 3244-94		241
149	The cause for the low efficiency of dye sensitized solar cells with a combination of ruthenium dyes and cobalt redox. <b>2015</b> , 17, 10170-5		22
148	Oxidovanadium(IV/V) complexes as new redox mediators in dye-sensitized solar cells: a combined experimental and theoretical study. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 3979-88	5.1	26
147	Influence of Triarylamine and Indoline as Donor on Photovoltaic Performance of Dye-Sensitized Solar Cells Employing Cobalt Redox Shuttle. <b>2015</b> , 28, 91-100		3
146	Transition metal complex redox shuttles for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 94814-94	8 <u>4</u> .8	54
145	Influence of Dye Architecture of Triphenylamine Based Organic Dyes on the Kinetics in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 21775-21783	3.8	35
144	Tuning of spectral response by co-sensitization in black-dye based dye-sensitized solar cell. <b>2015</b> , 212, 651-656		11
143	Investigation of electrodeposited cobalt sulphide counter electrodes and their application in next-generation dye sensitized solar cells featuring organic dyes and cobalt-based redox electrolytes. <b>2015</b> , 275, 80-89		59

142	Simulation on the Performance of Dye Solar Cell Incorporated with TiO2Passivation Layer. <b>2016</b> , 2016, 1-9		4
141	A Critical Evaluation of the Influence of the Dark Exchange Current on the Performance of Dye-Sensitized Solar Cells. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
140	Strongly Coupled Cyclometalated Ruthenium Triarylamine Chromophores as Sensitizers for DSSCs. <b>2016</b> , 22, 8915-28		15
139	Dye solar cell design parameter optimization using Silvaco ATHENA and ATLAS. 2016,		
138	A Systematic Study on the Influence of Electron-Acceptors in Phenanthrocarbazole Dye-Sensitized Solar Cells. <b>2016</b> , 8, 9839-48		29
137	Enhanced photocatalytic CO2 conversion over LaPO4 by introduction of CoCl2 as a hole mediator. <i>RSC Advances</i> , <b>2016</b> , 6, 34744-34747	3.7	16
136	Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. <b>2016</b> , 322, 69-93		64
135	An affordable green energy source <b>E</b> volving through current developments of organic, dye sensitized, and perovskite solar cells. <b>2016</b> , 13, 859-906		3
134	A high efficiency ruthenium(II) tris-heteroleptic dye containing 4,7-dicarbazole-1,10-phenanthroline for nanocrystalline solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 46487-46494	3.7	16
133	Novel di- and tetra(pyrazolyl)bipyridine ligands and their Co (II)-complexes for electrochemical applications. <b>2016</b> , 72, 7552-7556		4
132	Solar Energy Conversion in Photoelectrochemical Systems. <b>2016</b> , 67-143		4
131	Understanding why replacing I3/IIby cobalt(II)/(III) electrolytes in bis(diimine)copper(I)-based dye-sensitized solar cells improves performance. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12995-13004	13	23
130	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
129	Electrochemical Rectification of Redox Mediators Using Porphyrin-Based Molecular Multilayered Films on ITO Electrodes. <b>2016</b> , 8, 20465-73		10
129		5.1	65
	Films on ITO Electrodes. <b>2016</b> , 8, 20465-73  Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and	5.1	
128	Films on ITO Electrodes. 2016, 8, 20465-73  Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. <i>Inorganic Chemistry</i> , 2016, 55, 6653-9  Interfacial Charge Transfer in Dye-Sensitized Solar Cells Using SCN-Free Terpyridine-Coordinated	5.1	65

124	An Alkyloxyphenyl Group as a Sterically Hindered Substituent on a Triphenylamine Donor Dye for Effective Recombination Inhibition in Dye-Sensitized Solar Cells. <b>2016</b> , 32, 1178-83		18	
123	Enhancing the performance of transparent conductive oxide-less back contact dye-sensitized solar cells by facile diffusion of cobalt species through TiO2 nanopores. <i>RSC Advances</i> , <b>2016</b> , 6, 33353-33360	3.7	8	
122	Donor design and modification strategies of metal-free sensitizers for highly-efficient n-type dye-sensitized solar cells. <b>2016</b> , 9, 3-37		24	
121	Mesoporous anatase-TiO 2 spheres consisting of nanosheets of exposed (001)-facets for [Co(byp) 3 ] 2+/3+ based dye-sensitized solar cells. <b>2016</b> , 22, 136-148		15	
120	Transition Metal-Based Photofunctional Materials: Recent Advances and Potential Applications. <i>Structure and Bonding</i> , <b>2016</b> , 201-289	0.9	1	
119	Revealing the Volcano-Shaped Activity Trend of Triiodide Reduction Reaction: A DFT Study Coupled with Microkinetic Analysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 733-741	13.1	37	
118	On the stability of manganese tris([]-diketonate) complexes as redox mediators in DSSCs. <b>2016</b> , 18, 5949	9-56	19	
117	Dye-sensitized solar cell from a new organic n-type semiconductor/polyaniline composite: insight from impedance spectroscopy. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 272-285	7.1	33	
116	Functional transparent quasi-solid state dye-sensitized solar cells made with different oligomer organic/inorganic hybrid electrolytes. <b>2017</b> , 159, 600-607		18	
115	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2833-2843	7.1	42	
114	High-Voltage Dye-Sensitized Solar Cells Mediated by [Co(2,2Pbipyrimidine)]. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2383-2386	5.1	11	
113	Dye-sensitized solar cells based on cobalt-containing room temperature ionic liquid redox shuttles. <i>RSC Advances</i> , <b>2017</b> , 7, 13689-13695	3.7	9	
112	Effect of different auxiliary ligands and anchoring ligands on neutral thiocyanate-free ruthenium(II) dyes bearing tetrazole chromophores for dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2017</b> , 140, 354-3	8 <b>6</b> 26	12	
111	Donor-Acceptor Based Stable Porphyrin Sensitizers for Dye-Sensitized Solar Cells: Effect of EConjugated Spacers. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 6464-6477	3.8	85	
110	Cyclometalated ruthenium complexes with 6-(ortho-methoxyphenyl)-2,2?-bipyridine as panchromatic dyes for dye-sensitized solar cells. <b>2017</b> , 833, 61-70		7	
109	Efficiency improvement of dye-sensitized solar cells by in situ fluorescence resonance energy transfer. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9081-9089	13	19	
108	High efficiency solid-state dye-sensitized solar cells using a cobalt(II/III) redox mediator. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4875-4883	7.1	10	
107	Photosynthesis: Structures, Mechanisms, and Applications. <b>2017</b> ,		7	

Artificial Photosynthesis Based on 1,10-Phenanthroline Complexes. **2017**, 389-405

105	In situ preparation of hierarchically structured dual-layer TiO2 films by E-spray method for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2017</b> , 49, 135-141	3.5	14
104	Quantum dot sensitized solar cells with efficiency over 12% based on tetraethyl orthosilicate additive in polysulfide electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14124-14133	13	71
103	High-Performance Porphyrin-Based Dye-Sensitized Solar Cells with Iodine and Cobalt Redox Shuttles. <b>2017</b> , 10, 938-945		10
102	Correlating excited state and charge carrier dynamics with photovoltaic parameters of perylene dye sensitized solar cells: influences of an alkylated carbazole ancillary electron-donor. <b>2017</b> , 19, 2549-2	2556	7
101	Judicious engineering of a metal-free perylene dye for high-efficiency dye sensitized solar cells: the control of excited state and charge carrier dynamics. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3514-352	2 <del>2</del> 3	16
100	Bulky Nature Phenanthroimidazole-Based Porphyrin Sensitizers for Dye-Sensitized Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 25691-25704	3.8	20
99	Potential Application of Redox Mediators and Metabolic Uncouplers in Environmental Research <b>D</b> A Review. <b>2017</b> , 4, 377-384		
98	Insights into the limitations of solar cells sensitized with ruthenium dyes revealed in time-resolved spectroscopy studies. <b>2017</b> , 19, 20463-20473		12
97	Long-Term Stability of Dye-Sensitized Solar Cells Assembled with Cobalt Polymer Gel Electrolyte.  Journal of Physical Chemistry C, <b>2017</b> , 121, 17577-17585	3.8	20
96	Improving the mass transport of copper-complex redox mediators in dye-sensitized solar cells by reducing the inter-electrode distance. <b>2017</b> , 19, 32132-32142		17
95	ZnO-based dye-sensitized solar cells: Effects of redox couple and dye aggregation. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 396-404	6.7	22
94	Highly electrocatalytic counter electrodes based on carbon black for cobalt(III)/(II)-mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 240-249	13	47
93	50 Years of Structure and Bonding The Anniversary Volume. <i>Structure and Bonding</i> , <b>2017</b> ,	0.9	1
92	A review on triphenylamine (TPA) based organic hole transport materials (HTMs) for dye sensitized solar cells (DSSCs) and perovskite solar cells (PSCs): evolution and molecular engineering. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1348-1373	13	232
91	Homoleptic, di- and trivalent transition metal complexes with monoanionic N,N,O-heteroscorpionate ligands: Potential redox mediators for dye-sensitized solar cells?. <i>Polyhedron</i> , <b>2017</b> , 125, 34-43	2.7	6
90	Nanoarchitectonics for Energy and Environment. <b>2017</b> , 279-323		
89	Mimicking Natural Photosynthesis: Solar to Renewable H Fuel Synthesis by Z-Scheme Water Splitting Systems. <i>Chemical Reviews</i> , <b>2018</b> , 118, 5201-5241	68.1	497

88	Molecular Engineering of D-D-FA-Based Organic Sensitizers for Enhanced Dye-Sensitized Solar Cell Performance. <i>ACS Omega</i> , <b>2018</b> , 3, 3819-3829	3.9	21
87	Evidence that <b>B</b> Controls Interfacial Electron Transfer Dynamics from Anatase TiO to Molecular Acceptors. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3019-3029	16.4	25
86	Gold leaf counter electrodes for dye-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 03EJ04	1.4	4
85	Dye-Sensitized Photoelectrochemical Cells. <b>2018</b> , 503-565		2
84	Probing Recombination Mechanism and Realization of Marcus Normal Region Behavior in DSSCs Employing Cobalt Electrolytes and Triphenylamine Dyes. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 141	1 <sup>3</sup> 3 <sup>8</sup> 14	1 <del>27</del>
83	Influence of TiO2 Particle Size on Dye-Sensitized Solar Cells Employing an Organic Sensitizer and a Cobalt(III/II) Redox Electrolyte. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7051-7060	3.8	24
82	Organic dyes end-capped with perfluorophenyl anchors: Synthesis, electrochemical properties and assessment of sensitization capacity of titania photoanodes. <i>Dyes and Pigments</i> , <b>2018</b> , 148, 167-179	4.6	8
81	Phosphorescent molecular metal complexes in heterojunction solar cells. <i>Polyhedron</i> , <b>2018</b> , 140, 84-98	2.7	13
80	. 2018,		3
79	Photoelectrochemical Cells: Dye-Sensitized Solar Cells. <b>2018</b> , 385-423		
79 78	Photoelectrochemical Cells: Dye-Sensitized Solar Cells. 2018, 385-423  Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11444-11456	7.1	14
	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar	,	14 355
78	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11444-11456	,	·
78 77	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11444-11456  Dye-Sensitized Solar Cells: Fundamentals and Current Status. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 381  A new class of triphenylamine-based novel sensitizers for DSSCs: a comparative study of three	5	355
78 77 76	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11444-11456  Dye-Sensitized Solar Cells: Fundamentals and Current Status. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 381  A new class of triphenylamine-based novel sensitizers for DSSCs: a comparative study of three different anchoring groups. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11555-11564  Custom-designed metal-free quinoxaline sensitizer for dye-sensitized solar cells based on cobalt	5 3.6	355
78 77 76 75	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11444-11456  Dye-Sensitized Solar Cells: Fundamentals and Current Status. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 381  A new class of triphenylamine-based novel sensitizers for DSSCs: a comparative study of three different anchoring groups. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11555-11564  Custom-designed metal-free quinoxaline sensitizer for dye-sensitized solar cells based on cobalt redox shuttle. <i>Solar Energy</i> , <b>2018</b> , 169, 450-456	5 3.6	355 30 9
78 77 76 75 74	Kinetics of dye regeneration in liquid electrolyte unveils efficiency of 10.5% in dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11444-11456  Dye-Sensitized Solar Cells: Fundamentals and Current Status. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 381  A new class of triphenylamine-based novel sensitizers for DSSCs: a comparative study of three different anchoring groups. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11555-11564  Custom-designed metal-free quinoxaline sensitizer for dye-sensitized solar cells based on cobalt redox shuttle. <i>Solar Energy</i> , <b>2018</b> , 169, 450-456  2.12 Electrolytic Materials. <b>2018</b> , 329-367	5 3.6	355 30 9

70	Recent advances in visible light-driven water oxidation and reduction in suspension systems. <i>Materials Today</i> , <b>2018</b> , 21, 897-924	21.8	103
69	Solar Redox Flow Batteries: Mechanism, Design, and Measurement. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1800031	5.9	15
68	Efficient Electron Collection by Electrodeposited ZnO in Dye-Sensitized Solar Cells with TEMPO+/0 as the Redox Mediator. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 22074-22082	3.8	8
67	Progress on Electrolytes Development in Dye-Sensitized Solar Cells. <i>Materials</i> , <b>2019</b> , 12,	3.5	95
66	Binary redox electrolytes used in dye-sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 78, 53-65	6.3	19
65	Homoleptic and Heteroleptic Copper Complexes as Redox Couples in Dye-Sensitized Solar Cells. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 636	3.3	5
64	Functional Econjugated tetrathiafulvalene decorated with benzothiadiazole organic sensitizers for dye sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 8919-8929	3.6	9
63	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , <b>2019</b> , 6, 035007	5.9	20
62	Improving the Performance of Dye-Sensitized Solar Cells. Frontiers in Chemistry, 2019, 7, 77	5	57
61	Metal Coordination Complexes as Redox Mediators in Regenerative Dye-Sensitized Solar Cells. <i>Inorganics</i> , <b>2019</b> , 7, 30	2.9	53
60	Beyond the Limitations of Dye-Sensitized Solar Cells. <b>2019</b> , 285-323		0
59	Overview of Dye-Sensitized Solar Cells. <b>2019</b> , 1-49		7
58	Phenalenothiophene-Based Organic Dye for Stable and Efficient Solar Cells with a Cobalt Redox Electrolyte. <i>ACS Photonics</i> , <b>2019</b> , 6, 1216-1225	6.3	10
57	Methodologies in Spectral Tuning of DSSC Chromophores through Rational Design and Chemical-Structure Engineering. <i>Materials</i> , <b>2019</b> , 12,	3.5	2
56	Advances in Solar Energy: Solar Cells and Their Applications. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 75-127	0.8	1
55	Metal©rganic Frameworks in Dye-Sensitized Solar Cells. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 175-219	0.8	5
54	Development of Next-Generation Organic-Based Solar Cells: Studies on Dye-Sensitized and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802967	21.8	29
53	Rhodanine-3-acetic acid containing D-FA push-pull chromophores: Effect of methoxy group on the performance of dye-sensitized solar cells. <i>Organic Electronics</i> , <b>2019</b> , 65, 386-393	3.5	14

#### (2021-2020)

52	Novel cobalt redox materials admitted in natrosol polymer with a thiophene based additive as a gel polymer electrolyte to tune up the efficiency of dye sensitized solar cells. <i>Electrochimica Acta</i> , <b>2020</b> , 329, 135169	6.7	23
51	The molecular engineering, synthesis and photovoltaic studies of a novel highly efficient Ru(ii) complex incorporating a bulky TPA ancillary ligand for DSSCs: donor Bacer effects <i>RSC Advances</i> , <b>2019</b> , 10, 610-619	3.7	3
50	Parametric optimization of back-contact T-C-O-free dye-sensitized solar cells employing indoline and porphyrin sensitizer based on cobalt redox electrolyte. <i>Solar Energy</i> , <b>2020</b> , 208, 411-418	6.8	2
49	High performance SnO2 pure photoelectrode in dye-sensitized solar cells achieved via electrophoretic technique. <i>Solar Energy</i> , <b>2020</b> , 211, 312-323	6.8	4
48	Boosting the Efficiency of Low-Cost T-C-O-Less Dye-Sensitized Solar Cells Employing Nanoparticle Spacers and Cobalt Complex Redox Shuttle. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2721-2729	4	1
47	The Performance-Determining Role of Lewis Bases in Dye-Sensitized Solar Cells Employing Copper-Bisphenanthroline Redox Mediators. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002067	21.8	10
46	Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004804	15.6	13
45	Ruthenium complexes based dye sensitized solar cells: Fundamentals and research trends. <i>Solar Energy</i> , <b>2020</b> , 207, 59-76	6.8	42
44	Dye-sensitized solar cells. <b>2021</b> , 179-211		О
43	The Rise of Dye-Sensitized Solar Cells: From Molecular Photovoltaics to Emerging Solid-State Photovoltaic Technologies. <i>Helvetica Chimica Acta</i> , <b>2021</b> , 104, e2000230	2	8
42	Propellar shaped triple bond rigidified D-A-EA triphenylamine dye as back electron interceptor in iodine and cobalt electrolyte DSSCs under full sun and indoor light. <i>Solar Energy</i> , <b>2021</b> , 216, 151-163	6.8	8
41	Non-metallic organic dyes as photosensitizers for dye-sensitized solar cells: a review. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 28911-28925	5.1	10
40	On the Use of PEDOT as a Catalytic Counter Electrode Material in Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3795	2.6	3
39	Fabrication of Functional Materials for Dye-sensitized Solar Cells. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	2
38	Reaction, structure and spectroscopic properties of bis(cyano) cobalt(III) porphyrin complexes. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2021</b> , 25, 825-834	1.8	
37	Toward Sustainable, Colorless, and Transparent Photovoltaics: State of the Art and Perspectives for the Development of Selective Near-Infrared Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 210	1398 -	11
36	Nanostructured perovskite oxides for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 493001	3	2
35	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatforms as Building Blocks for Photovoltaic Energy Applications. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 727574	5	О

34	Aqueous-soluble bipyridine cobalt(ii/iii) complexes act as direct redox mediators in photosystem I-based biophotovoltaic devices <i>RSC Advances</i> , <b>2021</b> , 11, 10434-10450	3.7	4
33	Effect of 1-Substituted 2-(Pyridin-2-yl)-1-Benzo[]imidazole Ligand-Coordinated Copper and Cobalt Complex Redox Electrolytes on Performance of Ru(II) Dye-Based Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 1937-1947	5.1	16
32	Advantages of Polymer Electrolytes Towards Dye-sensitized Solar Cells. 121-167		1
31	Excited Carrier Dynamics in a Dye-Sensitized Niobate Nanosheet Photocatalyst for Visible-Light Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2021</b> , 11, 659-669	13.1	8
30	The Essential Interface. 2003,		1
29	Beyond Photocatalytic Environmental Remediation. <b>2005</b> , 369-390		2
28	Optical and photovoltaic properties of ZnS nanocrystals fabricated on Al:ZnO films using the SILAR technique. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , <b>2016</b> , 83, 422	0.9	3
27	Effect of Overlayer Thickness of Hole Transport Material on Photovoltaic Performance in Solid-Sate Dye-Sensitized Solar Cell. <i>Bulletin of the Korean Chemical Society</i> , <b>2012</b> , 33, 670-674	1.2	11
26	Effect of Molecular Structure on Interfacial Electron Transfer Kinetics in the Framework of Classical Marcus Theory. <i>Israel Journal of Chemistry</i> ,	3.4	0
25	Titania Nano-architectures for Energy. <b>2015</b> , 129-165		
25	Titania Nano-architectures for Energy. <b>2015</b> , 129-165  CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152	0.8	1
		0.8	1
24	CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152	0.8	1
24	CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152  Fabrication techniques and working principle of neoteric dye-sensitized solar cells. <b>2022</b> , 159-179  Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> ,		
24 23 22	CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152  Fabrication techniques and working principle of neoteric dye-sensitized solar cells. <b>2022</b> , 159-179  Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 49, 101746  Synthesis and Crystal Structures of Cobalt(II/III) Tris-Phenanthrolines with Various Polyiodide	4.7	1
24 23 22 21	CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152  Fabrication techniques and working principle of neoteric dye-sensitized solar cells. <b>2022</b> , 159-179  Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 49, 101746  Synthesis and Crystal Structures of Cobalt(II/III) Tris-Phenanthrolines with Various Polyiodide Anions. <i>Russian Journal of Inorganic Chemistry</i> , <b>2021</b> , 66, 1682-1687  Solar energy conversion using first row d-block metal coordination compound sensitizers and redox	4.7	1
24 23 22 21 20	CHAPTER 3:Dye-sensitised Solar Cells. <i>Inorganic Materials Series</i> , <b>2019</b> , 89-152  Fabrication techniques and working principle of neoteric dye-sensitized solar cells. <b>2022</b> , 159-179  Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 49, 101746  Synthesis and Crystal Structures of Cobalt(II/III) Tris-Phenanthrolines with Various Polyiodide Anions. <i>Russian Journal of Inorganic Chemistry</i> , <b>2021</b> , 66, 1682-1687  Solar energy conversion using first row d-block metal coordination compound sensitizers and redox mediators <i>Chemical Science</i> , <b>2022</b> , 13, 1225-1262  Inhibited interlayer electron transfer in metal ion linked multilayers on mesoporous metal oxide	4·7 1.5	1 O 2

#### CITATION REPORT

16	PEDOT-Carbon Nanotube Counter Electrodes and Bipyridine Cobalt (II/III) Mediators as Universally Compatible Components in Bio-Sensitized Solar Cells Using Photosystem I and Bacteriorhodopsin <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	0
15	Effect of poly (ethylene glycol) gel polymer electrolyte consist of novel heteroleptic cobalt redox shuttle and pyridine based organic additive on performance of dye sensitized solar cells. <i>Optical Materials</i> , <b>2022</b> , 125, 112082	3.3	1
14	Role of alkyl groups regulating recombination and mass transport at cobalt electrolyte-dye interface in dye sensitized solar cells. <i>Solar Energy</i> , <b>2022</b> , 236, 182-194	6.8	O
13	Effect of an aqueous copper gel electrolyte with cobalt metal organic framework based additive on performance of aqueous-dye-sensitized solar cells. <i>Solar Energy</i> , <b>2022</b> , 236, 586-598	6.8	2
12	Influence of counter electrode on the photovoltaic properties of Cu2S/CdS heterojunction. <i>AIP Conference Proceedings</i> , <b>2022</b> ,	Ο	
11	Mesoporous Dye-Sensitized Solar Cells. <b>2012</b> , 447-462		
10	Mapping the Progress in Natural Dye-Sensitized Solar Cells: Materials, Parameters and Durability. <i>ChemistrySelect</i> , <b>2022</b> , 7,	1.8	1
9	Benzophenanthrothiophene based donor acceptor organic dyes for efficient solar cells with long-term stability. <i>Dyes and Pigments</i> , <b>2022</b> , 110575	4.6	
8	Bulky 3D Structures of Dithienopyrrol Dye with Copper(II/I) Redox Mediator Enabling Efficient Solar Cells with an Open-Circuit Voltage of 1.13 V. <b>2022</b> , 5, 9962-9969		0
7	Modified Hagfeldt Donor for Organic Dyes That Are Compatible with Copper Electrolytes in Efficient Dye-Sensitized Solar Cells.		O
6	Effect of Copper and Cobalt Metal Complex Redox Mediator Based Xanthan Gum Gel Electrolyte Materials on Performance of Dye Sensitized Solar Cells. <b>2022</b> , 7,		O
5	Electrodeposited PPy@TiO2 and PEDOT@TiO2 Counter Electrodes for [Co(bpy)3]2+/3+ Redox Mediator-Based Dye-Sensitized Solar Cells. <b>2022</b> , 10, 213		O
4	Insight on the choice of sensitizers/dyes for dye sensitized solar cells: A review. 2023, 111087		O
3	The Effect of the Ancillary Ligand on Optical and Redox Properties of Cyclometalated Iridium(III) 2,5-Diphenyloxazole Complexes. <b>2022</b> , 48, 846-858		O
2	A versatile iron [1-(naphthalen-2-ylmethyl)-2-(pyridin-2-yl)-1H-benzo[d]imidazole]3 metal complex redox active material for energy conversion and storage systems.		О
1	Redox Shuttle-Based Electrolytes for Dye-Sensitized Solar Cells: Comprehensive Guidance, Recent Progress, and Future Perspective. <b>2023</b> , 8, 6139-6163		O