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Fabrication of thin film dye sensitized solar cells with solar to electric power conversion efficiency over 10%

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1629	Multiply Wrapped Porphyrin Dyes with a Phenothiazine Donor: A High Efficiency of 11.7% Achieved through a Synergetic Coadsorption and Cosensitization Approach.		
1628			
1627	Efficient Solar Cells Based on Concerted Companion Dyes Containing Two Complementary Components: An Alternative Approach for Cosensitization.		
1626	Effect of Nonuniform Generation and Inefficient Collection of Electrons on the Dynamic Photocurrent and Photovoltage Response of Nanostructured Photoelectrodes. 2008 , 112, 20491-20504	1	40

1625 An element of surpriseefficient copper-functionalized dye-sensitized solar cells. 2008 , 3717-9	235
1624 Bifacial dye-sensitized solar cells based on an ionic liquid electrolyte. 2008 , 2, 693-698	258
Dye-sensitized solar cells: A safe bet for the future 2008 , 1, 655	350
$_{1622}$ High-conversion-efficiency organic dye-sensitized solar cells with a novel indoline dye. 2008 , 5194-6	680
1621 Large photocurrent generation in dye-sensitized ZnO solar cells. 2008 , 1, 280	256
Fabrication and performance of a monolithic dye-sensitized TiO2/Cu(In,Ga)Se2 thin film tandem solar cell. 2009 , 94, 173508	46
1619 Development of multijunction thin film solar cells. 2009 ,	3
1618 New development of nanocrystalline TiO2-based dye-sensitized solar cells. 2009 ,	
1617 Influence of capacitance characteristic on dye-sensitized solar cell's IPCE measurement. 2009 , 42, 045109	13
Study of Dye-Sensitized Solar Cells by Scanning Electron Micrograph Observation and Thickness Optimization of PorousTiO2Electrodes. 2009 , 2009, 1-8	25
A new figure of merit for qualifying the fluorine-doped tin oxide glass used in dye-sensitized solar cells. 2009 , 1, 063107	14
Structural and Morphological Studies of TiO2 Films for Dye-Sensitized Solar Cell Applications. 2009 , 293, 63-66	
1613 TiO2 Nanofibers Based Dye-Sensitized Solar Cells. 2009 ,	
$_{1612}$ Solvent-Free Ionic Liquid Electrolytes for Mesoscopic Dye-Sensitized Solar Cells. 2009 , 19, 2187-2202	401
Polyphenylene-Based Materials: Control of the Electronic Function by Molecular and Supramolecular Complexity. 2009 , 21, 1067-1078	51
1610 A p-Type NiO-Based Dye-Sensitized Solar Cell with an Open-Circuit Voltage of 0.35 V. 2009 , 121, 4466-4469	9 50
The influence of charge transport and recombination on the performance of dye-sensitized solar cells. 2009 , 10, 290-9	248
1608 A dendritic oligothiophene ruthenium sensitizer for stable dye-sensitized solar cells. 2009 , 2, 761-8	32

1607	A p-type NiO-based dye-sensitized solar cell with an open-circuit voltage of 0.35 V. 2009 , 48, 4402-5	237
1606	Application of TiO2 nano-particles on the electrode of dye-sensitized solar cells. 2009 , 70, 472-476	42
1605	Nanocrystalline TiO2 thin film electrodes for dye-sensitized solar cell applications. 2009 , 61, 52-57	12
1604	A new type counter electrode for dye-sensitized solar cells. 2009 , 52, 1923-1927	7
1603	Nanoelectrodes: energy conversion and storage. 2009 , 12, 20-27	55
1602	Development of Nano-TiO2 dye sensitised solar cells on high mobility transparent conducting oxide thin films. 2009 , 17, 265-272	30
1601	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. 2009, 3, 406-411	398
1600	Uniaxial Freezing, Freeze-Drying, and Anodization for Aligned Pore Structure in Dye-Sensitized Solar Cells. 2009 , 92, 1487-1491	9
1599	The photoelectrochemical properties of N3 sensitized CaTiO3 modified TiO2 nanocrystalline electrodes. 2009 , 55, 305-310	26
1598	Studies of interfacial recombination in the dyed TiO2 electrode using Raman spectra and electrochemical techniques. 2009 , 632, 133-138	11
1597	Layer-by-layer TiO2 films as efficient blocking layers in dye-sensitized solar cells. 2009 , 205, 23-27	69
1596	Fabrication of efficient solar cells on plastic substrates using binder-free ball milled titania slurries. 2009 , 206, 64-70	41
1595	Structure and optical anisotropy of pulsed-laser deposited TiO2 films for optical applications. Applied Surface Science, 2009 , 255, 5275-5279 6.7	3
1594	Electron Injection Efficiency and Diffusion Length in Dye-Sensitized Solar Cells Derived from Incident Photon Conversion Efficiency Measurements. 2009 , 113, 1126-1136	198
1593	A TD-DFT investigation of ground and excited state properties in indoline dyes used for dye-sensitized solar cells. 2009 , 11, 11276-84	144
1592	Recent advances in sensitized mesoscopic solar cells. 2009 , 42, 1788-98	2308
1591	Photoelectrochemical Effects of Guanidinium Thiocyanate on Dye-Sensitized Solar Cell Performance and Stability. 2009 , 113, 21779-21783	96
1590	Highly stable molecular layers on nanocrystalline anatase TiO2 through photochemical grafting. 2009 , 25, 10676-84	37

1589 PV Efficiency Improved Large-area Dye-sensitized Solar Cells. 2009, 18, 875-880 O 1588 Synergistic effect between anatase and rutile TiO2 nanoparticles in dye-sensitized solar cells. 2009, 10078-85 178A solar-powered microbial electrolysis cell with a platinum catalyst-free cathode to produce 1587 107 hydrogen. 2009, 43, 9525-30 Effect of donor moiety in organic sensitizer on spectral response, electrochemical and photovoltaic 1586 14 properties. 2009, 159, 2571-2577 1585 Mixed-phase TiO2 nanoparticles preparation using solgel method. 2009, 478, 586-589 72 Crystallization behaviors of TiO2 films derived from thermal oxidation of evaporated and sputtered 18 titanium films. 2009, 480, 938-941 High-Performance TiO2 Photoanode with an Efficient Electron Transport Network for 1583 109 Dye-Sensitized Solar Cells. 2009, 113, 16277-16282 Design and characterization of highly efficient porphyrin sensitizers for green see-through 1582 113 dye-sensitized solar cells. 2009, 11, 10270-4 Passivation of nanocrystalline TiO2 junctions by surface adsorbed phosphinate amphiphiles 1581 90 enhances the photovoltaic performance of dye sensitized solar cells. 2009, 10015-20 1580 Efficient electron transport in tetrapod-like ZnO metal-free dye-sensitized solar cells. 2009, 2, 694 74 Re-evaluation of recombination losses in dye-sensitized cells: the failure of dynamic relaxation 85 1579 methods to correctly predict diffusion length in nanoporous photoelectrodes. 2009, 9, 3532-8 A Study on Radiative Transfer in a TiO2 Photoelectrode for Improvement of Dye-Sensitized Solar 1578 Cell Performance. 2009, 4, 248-259 Fabrication and photovoltaic properties of dye-sensitized ZnO thick films by a facile doctor-blade 8 1577 printing method using nanocrystalline pastes. 2009, 117, 823-827 Electrochemical study on the TiO 2 porous electrodes for metal-free dye-sensitized solar cells. 2009 1576 Synthesis and Characterization of Novel Heteroleptic Ruthenium Complexes for Dye-Sensitized 5 1575 Solar Cells. **2010**, 57, 1151-1156 Low cost method to obtain counter electrode for dye sensitised solar cells. 2010, 14, 410-413 High efficiency dye-sensitized solar cell based on novel TiO2 nanorod/nanoparticle bilayer 36 1573 electrode. 2010, 3, 45-51 1572 Nanostructured TiO2 and ZnO solar cells using CdS as sensitizer: Stability investigation. **2010**,

1571	Beyond photovoltaics: semiconductor nanoarchitectures for liquid-junction solar cells. 2010 , 110, 6664-88	676
1570	High-efficiency dye-sensitized solar cells: the influence of lithium ions on exciton dissociation, charge recombination, and surface states. 2010 , 4, 6032-8	492
1569	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. 2010 , 45, 6283-6312	188
1568	Preparation of sub-micron size anatase TiO2 particles for use as light-scattering centers in dye-sensitized solar cell. 2010 , 21, 833-837	17
1567	Quantum-dot-sensitized solar cells. 2010 , 11, 2290-304	757
1566	Improved-Performance Dye-Sensitized Solar Cells Using Nb-Doped TiO2 Electrodes: Efficient Electron Injection and Transfer. 2010 , 20, 509-515	473
1565	Non-Corrosive, Non-Absorbing Organic Redox Couple for Dye-Sensitized Solar Cells. 2010 , 20, 3358-3365	101
1564	Aligning Single-Walled Carbon Nanotubes By Means Of Langmuir B lodgett Film Deposition: Optical, Morphological, and Photo-electrochemical Studies. 2010 , 20, 2481-2488	68
1563	Device physics of dye solar cells. 2010 , 22, E210-34	339
1562	Dye-sensitized back-contact solar cells. 2010 , 22, 4270-4	29
1561	Organische Solarzellen. Energie der Zukunft. 2010 , 44, 174-189	5
1561 1560	Organische Solarzellen. Energie der Zukunft. 2010 , 44, 174-189 High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010 , 16, 1193-201	
	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010 ,	5
1560	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010 , 16, 1193-201 The effect of SWCNT with the functional group deposited on the counter electrode on the	5
1560 1559	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010 , 16, 1193-201 The effect of SWCNT with the functional group deposited on the counter electrode on the dye-sensitized solar cell. 2010 , 21, 542-550 Effect of preparation parameters on the properties of TiO2 nanoparticles for dye sensitized solar	5 136 22
1560 1559 1558	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010, 16, 1193-201 The effect of SWCNT with the functional group deposited on the counter electrode on the dye-sensitized solar cell. 2010, 21, 542-550 Effect of preparation parameters on the properties of TiO2 nanoparticles for dye sensitized solar cells. 2010, 35, 2914-2920 Electrolyte effects on photoelectron injection and recombination dynamics in dye-sensitized solar	5 136 22 27
1560 1559 1558 1557	High molar extinction coefficient organic sensitizers for efficient dye-sensitized solar cells. 2010, 16, 1193-201 The effect of SWCNT with the functional group deposited on the counter electrode on the dye-sensitized solar cell. 2010, 21, 542-550 Effect of preparation parameters on the properties of TiO2 nanoparticles for dye sensitized solar cells. 2010, 35, 2914-2920 Electrolyte effects on photoelectron injection and recombination dynamics in dye-sensitized solar cells. 2010, 213, 87-92 Synthesis of sensitizers containing donor cascade of triarylamine and dimethylarylamine moieties	5 136 22 27 17

1553	Low-temperature fabrication of flexible TiO2 electrode for dye-sensitized solar cells. 2010 , 207, 2201-2206	9
1552	Highly efficient photocathodes for dye-sensitized tandem solar cells. 2010 , 9, 31-5	547
1551	Preparation of a Counter Electrode withP-Type NiO and Its Applications in Dye-Sensitized Solar Cell. 2010 , 2010, 1-9	22
1550	Fabrication of Nanocrystalline TiO2 Films by Aerosol Deposition Method for Dye-Sensitized Solar Cells. 2010 , 654-656, 2807-2810	2
1549	Influence of measurement parameter on dye-sensitized solar cell efficiency. 2010,	
1548	Development of solid polymeric electrolyte for DSSC device. 2010 ,	2
1547	Preparation and DSSC Performance of Mesoporous Film Photoanodes Based on Aqueous-Synthesized Anatase Nanocrystallites. 2010 , 13, H257	17
1546	Two-step heat treatment of carbon nanotube based paste as counter electrode of dye-sensitised solar cells. 2010 , 46, 1509	2
1545	High excitation transfer efficiency from energy relay dyes in dye-sensitized solar cells. 2010 , 10, 3077-83	91
1544	Fabrication of dye-sensitized solar cells using natural dye for food pigment: Monascus yellow. 2010 , 3, 905	54
1543	Phosphorescent energy relay dye for improved light harvesting response in liquid dye-sensitized solar cells. 2010 , 3, 434	42
1542	Synthesis of mesoporous titanium dioxide by soft template based approach: characterization and application in dye-sensitized solar cells. 2010 , 3, 838	91
1541	Study on the effect of measuring methods on incident photon-to-electron conversion efficiency of dye-sensitized solar cells by home-made setup. 2010 , 81, 103106	77
1540	Effect of solvent and additives on the open-circuit voltage of ZnO-based dye-sensitized solar cells: a combined theoretical and experimental study. 2010 , 12, 14710-9	67
1539	Mesoporous SnO2 Spheres Synthesized by Electrochemical Anodization and Their Application in CdSe-Sensitized Solar Cells. 2010 , 114, 21878-21884	70
1538	Ultrasmall titania nanocrystals and their direct assembly into mesoporous structures showing fast lithium insertion. 2010 , 132, 12605-11	111
1537	Effects of meso-Diarylamino Group of Porphyrins as Sensitizers in Dye-Sensitized Solar Cells on Optical, Electrochemical, and Photovoltaic Properties. 2010 , 114, 10656-10665	138
1536	Fabrications of Poly(vinylidenefluoride-co-hexafluoropropylene) Nanofibers Containing Inorganic Filler by Electrospinning Technique and Its Application to Dye-Sensitized Solar Cells. 2010 , 519, 234-244	9

1535	Hierarchical anatase TiO2 porous nanopillars with high crystallinity and controlled length: an effective candidate for dye-sensitized solar-cells. 2010 , 12, 9205-12	33
1534	High-efficiency dye-sensitized solar cells based on the composite photoanodes of SnO2 nanoparticles/ZnO nanotetrapods. 2010 , 114, 3127-38	83
1533	Bridge-Dependent Interfacial Electron Transfer from Rhenium B ipyridine Complexes to TiO2 Nanocrystalline Thin Films. 2010 , 114, 9898-9907	40
1532	Performance enhancement through post-treatments of CdS-sensitized solar cells fabricated by spray pyrolysis deposition. 2010 , 2, 1648-52	51
1531	Influence of Hydrothermal Pressure during Crystallization on the Structure and Electron-Conveying Ability of TiO2 Colloids for Dye-Sensitized Solar Cells. 2010 , 114, 15625-15632	31
1530	Monitoring N719 dye configurations on $(1 \times n)$ -reconstructed anatase (100) by means of STM: reversible configurational changes upon illumination. 2010 , 26, 13236-44	17
1529	Non-prefabricated nanocrystal mesoporous TiO2-based photoanodes tuned by a layer-by-layer and rapid thermal process. 2010 , 2, 265-9	11
1528	Modeling the efficiency of FEster resonant energy transfer from energy relay dyes in dye-sensitized solar cells. 2010 , 18, 3893-904	27
1527	Optimization of nanostructured titania photoanodes for dye-sensitized solar cells: Study and experimentation of TiCl4 treatment. 2010 , 356, 1958-1961	81
1526	Doping a TiO2 Photoanode with Nb5+ to Enhance Transparency and Charge Collection Efficiency in Dye-Sensitized Solar Cells. 2010 , 114, 15849-15856	140
1525	Effects of Ælongation and the Fused Position of Quinoxaline-Fused Porphyrins as Sensitizers in Dye-Sensitized Solar Cells on Optical, Electrochemical, and Photovoltaic Properties. 2010 , 114, 11293-11304	97
1524	Effects of TiO2 blocking layer formation by SolGel method on conversion efficiency of dye-sensitized solar cell. 2010 ,	
1523	Effect of ultraviolet and x-ray radiation on the work function of TiO2 surfaces. 2010 , 107, 103705	45
1522	Fibrous CdS/CdSe quantum dot co-sensitized solar cells based on ordered TiO2 nanotube arrays. 2010 , 21, 375201	102
1521	Electrospun TiO2 nanorods assembly sensitized by CdS quantum dots: a low-cost photovoltaic material. 2010 , 3, 2010	68
1520	Efficient electrolyte of N,N?-bis(salicylidene)ethylenediamine zinc(II) iodide in dye-sensitized solar cells. 2010 , 34, 313-317	28
1519	Organic Photosensitizers Based on Terthiophene with Alkyl Chain and Double Acceptors for Application in Dye-Sensitized Solar Cells. 2010 , 24, 3676-3681	36
1518	Hierarchical TiO2 photoanode for dye-sensitized solar cells. 2010 , 10, 2562-7	314

1517	Improvement of electron transport in DSSCs by using Nb-doped TiO2 electrodes. 2011 ,		1
1516	Effect of nanocrystalline TiO2 scattering layer on the photoelectrode of dye-sensitized solar cells. 2011 ,		
1515	Improved performance of flexible dye-sensitized solar cells by introducing an interfacial layer on Ti substrates. 2011 , 21, 5114		52
1514	Quasi-linear dependence of cation filling on the photocatalysis of A(x)BO3-based tunnel compounds. 2011 , 40, 6906-11		13
1513	Anodic Deposition of Ultrathin TiO2Film with Blocking Layer and Anchoring Layer for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 159, B80-B85	3.9	14
1512	Structure and Electron-Conducting Ability of TiO2 Films from Electrophoretic Deposition and Paste-Coating for Dye-Sensitized Solar Cells. 2011 , 115, 25580-25589		39
1511	Tunable, strongly-donating perylene photosensitizers for dye-sensitized solar cells. 2011 , 21, 7166		64
1510	Anion-correlated conduction band edge shifts and charge transfer kinetics in dye-sensitized solar cells with ionic liquid electrolytes. 2011 , 13, 3788-94		27
1509	Correlating titania morphology and chemical composition with dye-sensitized solar cell performance. 2011 , 22, 245402		17
1508	The Preparation of TiO2 Nanocrystal by Repetitious Hydrothermal Method and Its Application in Flexible Dye-sensitized Solar Cells. 2011 , 34, 267-277		1
1507	High-efficiency dye-sensitized solar cell with three-dimensional photoanode. 2011 , 11, 4579-84		135
1506	Analysis of Charge Carrier Kinetics in Nanoporous Systems by Time Resolved Photoconductance Measurements. 2011 , 115, 16657-16663		22
1505	Experimental Investigation of Back Electron Transfer and Band Edge Shift in Dyed TiO2 Electrodes. 2011 , 115, 8653-8657		10
1504	Expanding the spectral response of a dye-sensitized solar cell by applying a selective positioning method. 2011 , 22, 045201		17
1503	Effect of Nb Doping of TiO2 Electrode on Charge Transport in Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B1281	3.9	25
1502	Analysis on dye-sensitized solar cell's efficiency improvement. 2011 , 276, 012188		6
1501	Nanostructured Materials for Photolytic Hydrogen Production. 2011 , 441-486		3
1500	Dye-sensitized solar cells with NiS counter electrodes electrodeposited by a potential reversal technique. 2011 , 4, 2630		408

1499	Rapid Microwave Synthesis of Porous TiO2 Spheres and Their Applications in Dye-Sensitized Solar Cells. 2011 , 115, 10419-10425	103
1498	Hydrothermal Synthesis of High Electron Mobility Zn-doped SnO2 Nanoflowers as Photoanode Material for Efficient Dye-Sensitized Solar Cells. 2011 , 23, 3938-3945	190
1497	Quasi-solid-state dye-sensitized solar cell fabricated with poly (Ehydroxyethyl methacrylate) based organogel electrolyte. 2011 , 4, 1298	64
1496	Electronic structure study of lightly Nb-doped TiO2 electrode for dye-sensitized solar cells. 2011 , 4, 1480	137
1495	On the way to biomimetic dye aggregate solar cells. 2011 , 4, 2366	34
1494	Controlled fabrication of TiO2 rutile nanorod/anatase nanoparticle composite photoanodes for dye-sensitized solar cell application. 2011 , 22, 275709	16
1493	Origin of efficiency enhancement in Nb2O5 coated titanium dioxide nanorod based dye sensitized solar cells. 2011 , 4, 3414	71
1492	Hyperbranched anatase TiO2 nanocrystals: nonaqueous synthesis, growth mechanism, and exploitation in dye-sensitized solar cells. 2011 , 133, 19216-39	106
1491	DyeBensitized Solar Cells: An Overview. 2011 ,	3
1490	Shell-in-shell TiO2 hollow spheres synthesized by one-pot hydrothermal method for dye-sensitized solar cell application. 2011 , 4, 3565	200
1489	Formation of interpenetrating hierarchical titania structures by confined synthesis in inverse opal. 2011 , 133, 17274-82	81
1488	Pseudo first-order adsorption kinetics of N719 dye on TiO2 surface. 2011 , 3, 1953-7	95
1487	Panchromatic engineering for dye-sensitized solar cells. 2011 , 4, 842-857	294
1486	Hierarchically structured photoelectrodes for dye-sensitized solar cells. 2011 , 21, 6769	133
1485	Energy and hole transfer between dyes attached to titania in cosensitized dye-sensitized solar cells. 2011 , 133, 10662-7	92
1484	Solution processed transition metal sulfides: application as counter electrodes in dye sensitized solar cells (DSCs). 2011 , 13, 19307-9	113
1483	Butyronitrile-based electrolyte for dye-sensitized solar cells. 2011 , 133, 13103-9	66
1482	Efficiency Enhancement of Dye-Sensitized Solar Cell Using Pt Hollow Sphere Counter Electrode. 2011 , 115, 25529-25534	111

(2011-2011)

1481	Carrier generation and collection in CdS/CdSe-sensitized SnO2 solar cells exhibiting unprecedented photocurrent densities. 2011 , 5, 3172-81	226
1480	Enhanced performance of dye-sensitized solar cells by utilization of an external, bifunctional layer consisting of uniform ENaYFErI+/YbI+ nanoplatelets. 2011 , 3, 3239-43	122
1479	Electronic structure of indium tin oxide/nanocrystalline TiO2 interfaces as used in dye-sensitized solar cell devices. 2011 , 109, 113719	12
1478	Modular "click" chemistry for electrochemically and photoelectrochemically active molecular interfaces to tin oxide surfaces. 2011 , 3, 3110-9	35
1477	A novel high-performance photovoltaicEhermoelectric hybrid device. 2011 , 4, 3676	206
1476	Detachment and transfer of ordered TiO2 nanotube arrays for front-illuminated dye-sensitized solar cells. 2011 , 4, 3420	68
1475	Quick-low-temperature hydrothermal synthesis of nano-TiO2 powders for large area dye-sensitized solar cell. 2011 ,	1
1474	Electrochemical formation of transparent nanostructured TiO2 film as an effective bifunctional layer for dye-sensitized solar cells. 2011 , 47, 2871-3	40
1473	Electron-rich heteroaromatic conjugated polypyridine ruthenium sensitizers for dye-sensitized solar cells. 2011 , 40, 12421-38	65
1472	Optical, Electrochemical, and Photovoltaic Effects of an Electron-Withdrawing Tetrafluorophenylene Bridge in a Push B ull Porphyrin Sensitizer Used for Dye-Sensitized Solar Cells. 2011 , 115, 14415-14424	92
1471	Voltage-enhancement mechanisms of an organic dye in high open-circuit voltage solid-state dye-sensitized solar cells. 2011 , 5, 8267-74	48
1470	All spray pyrolysis deposited CdS sensitized ZnO films for quantum dot-sensitized solar cells. 2011 , 509, 362-365	52
1469	Charge transport and recombination in dye-sensitized solar cells based on hybrid films of TiO2 particles/TiO2 nanotubes. 2011 , 509, 7808-7813	37
1468	Influences on photovoltage performance by interfacial modification of FTO/mesoporous TiO2 using ZnO and TiO2 as the compact film. 2011 , 509, 9264-9270	19
1467	Synthesis of triarylamine dyes containing secondary electron-donating groups and application in the dye-sensitized solar cells. 2011 , 161, 496-503	6
1466	Patterned 3-dimensional metal grid electrodes as alternative electron collectors in dye-sensitized solar cells. 2011 , 13, 19314-7	9
1465	An organic redox mediator for dye-sensitized solar cells with near unity quantum efficiency. 2011 , 4, 564-571	61
1464	TiO(2) fibers enhance film integrity and photovoltaic performance for electrophoretically deposited dye solar cell photoanodes. 2011 , 3, 638-41	13

1463	Preparation of highly efficient gel-state dye-sensitized solar cells using polymer gel electrolytes based on poly(acrylonitrile-co-vinyl acetate). 2011 , 21, 628-632	56
1462	Coupled Optical and Electronic Modeling of Dye-Sensitized Solar Cells for Steady-State Parameter Extraction. 2011 , 115, 10218-10229	49
1461	Two-Dimensional Time-Dependent Numerical Modeling of Edge Effects in Dye Solar Cells. 2011 , 115, 7019-7031	30
1460	Solvent-free ionic liquid/poly(ionic liquid) electrolytes for quasi-solid-state dye-sensitized solar cells. 2011 , 21, 7326	104
1459	Ordered Semiconductor Photoanode Films for Dye-Sensitized Solar Cells Based on Zinc Oxide-Titanium Oxide Hybrid Nanostructures. 2011 ,	3
1458	Dye Sensitized Solar Cells Principles and New Design. 2011 ,	10
1457	DyeBensitized Solar Cells: An Overview. 2011 ,	3
1456	Electrophoretic Deposition of Titanium Oxide Nanoparticle Films for Dye-Sensitized Solar Cell Applications. 2011 , 02, 1427-1431	8
1455	Effects of 1,3-Alkylimidazolium Iodide on Electrolytes for Dye-Sensitized Solar Cell. 2011 , 79, 943-946	2
1454	Influence of capacitance characteristic on I☑ measurement of dye-sensitized solar cells. 2011 , 44, 1551-1555	10
1453	Molecular design of triarylamine dyes incorporating phenylene spacer and the influence of alkoxy substituent on the performance of dye-sensitized solar cells. 2011 , 225, 8-16	10
1452	Solid state dye-sensitized solar cell with TiO2/NiO heterojunction: Effect of particle size and layer thickness on photovoltaic performance. 2011 , 125, 553-557	18
1451	Hydrothermal synthesis of titanate nanoparticle/carbon nanotube hybridized material for dye sensitized solar cell application. 2011 , 46, 1604-1609	24
1450	Silver nanoparticle doped TiO2 nanofiber dye sensitized solar cells. 2011 , 514, 141-145	71
1449	Influence of 4-N,N-dimethylaminopyridine on the photovoltaic performance of dye-sensitized solar cells with poly(ethyleneoxide)/oligo(ethylene glycol) blend electrolytes. 2011 , 56, 7555-7562	13
1448	Novel Zn-Sn-O nanocactus with excellent transport properties as photoanode material for high performance dye-sensitized solar cells. 2011 , 3, 4640-6	13
1447	The potential of diatom nanobiotechnology for applications in solar cells, batteries, and electroluminescent devices. 2011 , 4, 3930	146
1446	Theoretical procedure for optimizing dye-sensitized solar cells: from electronic structure to photovoltaic efficiency. 2011 , 133, 8005-13	80

(2011-2011)

1445	Platinum nanoparticles/graphene composite catalyst as a novel composite counter electrode for high performance dye-sensitized solar cells. 2011 , 21, 12880	198
1444	Organic Dyes Incorporating Bis-hexapropyltruxeneamino Moiety for Efficient Dye-Sensitized Solar Cells. 2011 , 115, 274-281	74
1443	Influence of the size-controlled TiO2 nanotubes fabricated by low-temperature chemical synthesis on the dye-sensitized solar cell properties. 2011 , 46, 1749-1757	15
1442	Synthesis and characterization of nanocrystalline TiO2 thin films. 2011 , 22, 260-264	22
1441	Efficient dye-sensitized solar cells with triarylamine organic dyes featuring functionalized-truxene unit. 2011 , 196, 1657-1664	47
1440	Electrospraying tuned photoanode structures for dye-sensitized solar cells with enhanced energy conversion efficiency. 2011 , 196, 1639-1644	29
1439	How to design dye-sensitized solar cell modules. 2011 , 95, 2564-2569	24
1438	Dye-sensitized solar cells based on ZnO nanotetrapods. 2011 , 4, 24-44	9
1437	Mesoporous nitrogen-doped TiO2 sphere applied for quasi-solid-state dye-sensitized solar cell. 2011 , 6, 606	23
1436	Synthesis of Ruthenium Complex Containing Conjugated Polymers and Their Applications in Dye-Sensitized Solar Cells. 2011 , 212, 774-784	12
1435	Protein-Enabled Layer-by-Layer Syntheses of Aligned, Porous-Wall, High-Aspect-Ratio TiO2 Nanotube Arrays. 2011 , 21, 1693-1700	24
1434	Nanoparticle/Dye Interface Optimization in Dye-Sensitized Solar Cells. 2011 , 21, 3268-3274	28
1433	Nanosized Anatase TiO2 Single Crystals with Tunable Exposed (001) Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells. 2011 , 21, 4167-4172	178
1432	In situ gelation of electrolytes for highly efficient gel-state dye-sensitized solar cells. 2011 , 23, 4199-204	119
1431	The role of the fabrication of anatase-TiO2 chain-networked photoanodes. 2011 , 23, 3970-3	14
1430	Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. <i>Advanced Energy Materials</i> , 2011 , 1, 829-835	48
1429	TiO2 Nanocrystals Synthesized by Laser Pyrolysis for the Up-Scaling of Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 908-916	29
1428	Recent Progress in Dye-Sensitized Solar Cells Using Nanocrystallite Aggregates. <i>Advanced Energy Materials</i> , 2011 , 1, 988-1001	80

1427	2D-∃A Type Organic Dyes Based on N,N-Dimethylaryl Amine and Rhodamine-3-acetic Acid for Dye-sensitized Solar Cells. 2011 , 29, 89-96		15
1426	Brookite TiO2 nanoparticle films for dye-sensitized solar cells. 2011 , 12, 2461-7		53
1425	Transition from anodic titania nanotubes to nanowires: arising from nanotube growth to application in dye-sensitized solar cells. 2011 , 12, 3634-41		21
1424	Bisquinoxaline-fused porphyrins for dye-sensitized solar cells. 2011 , 4, 797-805		34
1423	Synthesis and characterization of mesoporous TiO2 nanostructured films prepared by a modified solgel method for application in dye solar cells. 2011 , 37, 1017-1024		87
1422	Application of transparent dye-sensitized solar cells to building integrated photovoltaic systems. 2011 , 46, 1899-1904		185
1421	Improvement of the performance of inverted polymer solar cells with a fluorine-doped tin oxide electrode. 2011 , 11, S175-S178		12
1420	Photocatalytic activity of metal oxidesThe role of holes and OH radicals. 2011 , 107, 150-157		81
1419	Synthesis of TiO2 submicro-rings and their application in dye-sensitized solar cell. 2011 , 88, 825-830		29
1418	TiO2 Wedgy Nanotubes Array Flims for Photovoltaic Enhancement. <i>Applied Surface Science</i> , 2011 , 257, 5059-5063	6.7	19
1417	Observation of Significant enhancement in the efficiency of a DSSC by InN nanoparticles over TiO2-nanoparticle films. 2011 , 510, 126-130		11
1416	Preparation of graphene/multi-walled carbon nanotube hybrid and its use as photoanodes of dye-sensitized solar cells. 2011 , 49, 3597-3606		201
1415	Performance enhancement of dye-sensitized solar cells using nanostructural TiO2 films prepared by a graft polymerization and solgel process. 2011 , 56, 3182-3191		13
1414	Microwave-assisted hydrothermal synthesis of mesoporous anatase TiO2 via solgel process for dye-sensitized solar cells. 2011 , 142, 473-480		61
1413	Applications of vertically oriented TiO2 micro-pillars array on the electrode of dye-sensitized solar cell. 2011 , 72, 653-656		4
1413	cell. 2011 , 72, 653-656		46
	Cell. 2011 , 72, 653-656 Quasi-solid electrolyte based on polyacrylonitrile for dye-sensitized solar cells. 2011 , 217, 308-312		

1409	Nanostructured photoelectrodes for dye-sensitized solar cells. 2011 , 6, 91-109		561
1408	Effects of hydroxyl group numbers of coadsorbents on photovoltaic performances of dye-sensitized solar cells. 2011 , 653, 81-85		16
1407	Dye-sensitized TiO2 film with bifunctionalized zones for photocatalytic degradation of 4-cholophenol. 2011 , 192, 599-604		55
1406	A simple recipe for an efficient TiO2 nanofiber-based dye-sensitized solar cell. 2011 , 353, 39-45		120
1405	Formation of nascent soot and other condensed-phase materials in flames. 2011 , 33, 41-67		741
1404	New organic photosensitizers incorporating carbazole and dimethylarylamine moieties for dye-sensitized solar cells. 2011 , 36, 2711-2716		18
1403	A review of solar photovoltaic technologies. 2011 , 15, 1625-1636		1042
1402	Sensitizers containing donor cascade and rhodanine-3-acetic acid moieties for dye-sensitized solar cells. 2011 , 85, 1-6		19
1401	High-voltage (1.8 V) tandem solar cell system using a GaAs/AlXGa(1½)As graded solar cell and dye-sensitised solar cells with organic dyes having different absorption spectra. 2011 , 85, 1220-1225		35
1400	Aqueous Solution Synthesis of Crystalline Anatase Nanocolloids for the Fabrication of DSC Photoanodes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H224	3.9	19
1399	TiCl4 Treatment to the Substrate of Dye-Sensitized Solar Cell for the Applications on BIPV. 2011 , 415-417, 205-209		
1398	Improved Gel Electrolyte by Layered ⊠irconium Phosphate for Quasi-Solid-State Dye-Sensitized Solar Cells. 2011 , 685, 71-75		1
1397	Low Temperature Fabrication of Platinum/Carbon Black Powder Coating. 2011, 415-417, 178-183		
1396	Dye-Sensitized Nanocrystalline ZnO Solar Cells Based on Ruthenium(II) Phendione Complexes. 2011 , 2011, 1-10		11
1395	Research of Titanium Dioxide Compact Layer Applied to Dye-Sensitized Solar Cell with Different Substrates. <i>Journal of the Electrochemical Society</i> , 2011 , 159, A145-A151	3.9	9
1394	Evolution of Charge Collection (Separation Efficiencies in Dye-Sensitized Solar Cells Upon Aging: A Case Study. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B1158	3.9	9
1393	Efficiency Improvement of Dye-Sensitized Solar Cell with Ultraviolet and Hydrogen Chloride Treatments. <i>Journal of the Electrochemical Society</i> , 2011 , 158, K136	3.9	5
1392	Nanostructures for Enhanced Light Absorption in Solar Energy Devices. 2011 , 2011, 1-11		19

Effects of different shaped gold nanoparticles on the photoelectrode of dye-sensitized solar cells. **2012**, 226, 123-128

1390	Hollow hemispherical titanium dioxide aggregates fabricated by coaxial electrospray for dye-sensitized solar cell application. 2012 , 6, 063519-1	8
1389	Dye-Sensitized Solar Cells Based on Three-Dimensional Web-Like Structure Anodes. 2012 , 629, 332-338	1
1388	Green Preparation of TiO2-ZnO Nanocomposite Photoanodes by Aqueous Electrophoretic Deposition. <i>Journal of the Electrochemical Society</i> , 2012 , 159, B602-B610	17
1387	Fabrication of Monolithic Dye-Sensitized Solar Cell Using Ionic Liquid Electrolyte. 2012 , 2012, 1-6	9
1386	Influence of the Sol-Gel pH Process and Compact Film on the Efficiency of -Based Dye-Sensitized Solar Cells. 2012 , 2012, 1-7	14
1385	Electric Characterization and Modeling of Microfluidic-Based Dye-Sensitized Solar Cell. 2012, 2012, 1-11	14
1384	Effects of Homogenization Scheme ofTiO2Screen-Printing Paste for Dye-Sensitized Solar Cells. 2012 , 2012, 1-7	2
1383	Performance analysis of dye solar cells with various nanoparticles-aggregates mesoscopic multilayer configurations. 2012 ,	O
1382	Characteristics of Nitrogen-Containing Heterocyclic Compounds as Electrolyte Solvents of Dye-Sensitized Solar Cells. 2012 , 80, 512-514	1
1381	TiO2 Nanotube Utilizing a CNT Template and Its Performance as the Anode of a Dye-sensitized Solar Cell. 2012 , 41, 56-57	1
1380	Thiocyanate-free cyclometalated ruthenium sensitizers for solar cells based on heteroaromatic-substituted 2-arylpyridines. 2012 , 41, 11731-8	37
1379	A citric acid-derived ligand for modular functionalization of metal oxide surfaces via "click" chemistry. 2012 , 28, 1322-9	60
1378	Surface-plasmon resonance for photoluminescence and solar-cell applications. 2012 , 8, 351-364	23
1377	Cobalt electrolyte/dye interactions in dye-sensitized solar cells: a combined computational and experimental study. 2012 , 134, 19438-53	185
1376	Highly efficient water splitting by a dual-absorber tandem cell. 2012 , 6, 824-828	398
1375	Organic ionic plastic crystal-based electrolytes for solid-state dye-sensitized solar cells. 2012 , 22, 6674	38
1374	Degradation Analysis of Thermal Aged Back-Illuminated Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2012 , 159, B430-B433	10

(2012-2012)

1373	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. 2012 , 3, 631	498
1372	Preparation of nanoporous TiO2 electrodes using different mesostructured silica templates and improvement of the photovoltaic properties of DSSCs. 2012 , 36, 2094	18
1371	Unsymmetrical Squaraines Incorporating Cabazole as a Donor for Dye-Sensitized Solar Cells. 2012 , 59, 1337-1344	4
1370	Dye-Sensitized Solar Cells I. 2012 , 151-197	
1369	Interface Functionalization of Photoelectrodes with Graphene for High Performance Dye-Sensitized Solar Cells. 2012 , 22, 5245-5250	120
1368	Electron transfer in dye-sensitised semiconductors modified with molecular cobalt catalysts: photoreduction of aqueous protons. 2012 , 18, 15464-75	104
1367	Preparation of ZnO-coated TiO2 electrodes using dip coating and their applications in dye-sensitized solar cells. 2012 , 215-216, 38-45	64
1366	Enhancing photovoltaic performance of dye-sensitized solar cells by using thermally decomposed mirror-like Pt-counter electrodes. <i>Thin Solid Films</i> , 2012 , 522, 425-429	13
1365	Band engineered ternary solid solution CdSxSe1-x-sensitized mesoscopic TiO2 solar cells. 2012 , 14, 7154-61	40
1364	Multi-functional photoanode films using mesoporous TiO2 aggregate structure for efficient dye sensitized solar cells. 2012 , 22, 10873	41
1363	Light scattering enhancement from sub-micrometer cavities in the photoanode for dye-sensitized solar cells. 2012 , 22, 16201	48
1362	Reduced charge recombination by the formation of an interlayer using a novel dendron coadsorbent in solid-state dye-sensitized solar cells. 2012 , 2, 3467	35
1361	Sea urchin TiO2-nanoparticle hybrid composite photoelectrodes for CdS/CdSe/ZnS quantum-dot-sensitized solar cells. 2012 , 14, 4620-5	32
1360	Molecular engineering of indoline based organic sensitizers for highly efficient dye-sensitized solar cells. 2012 , 22, 13348	80
1359	Chemical assisted formation of secondary structures towards high efficiency solar cells based on ordered TiO2 nanotube arrays. 2012 , 22, 7863	13
1358	Mesoporous Titania Films Prepared by Flame Stabilized on a Rotating Surface: Application in Dye Sensitized Solar Cells. 2012 , 116, 5342-5351	16
1357	Ground and excited state properties of new porphyrin based dyads: a combined theoretical and experimental study. 2012 , 116, 10736-44	21
1356	Structural and optical characterization of electrodeposited CdSe in mesoporous anatase TiO2 for regenerative quantum-dot-sensitized solar cells. 2012 , 23, 395401	6

1355	PbS/CdS-sensitized mesoscopic SnO2 solar cells for enhanced infrared light harnessing. 2012 , 14, 7367-74	54
1354	Multilayered High Surface Area B rick and Mortar[Mesoporous Titania Films as Efficient Anodes in Dye-Sensitized Solar Cells. 2012 , 24, 659-663	25
1353	Fabrication of TiO2/CuSCN Bulk Heterojunctions by Profile-Controlled Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2012 , 159, D323-D327	24
1352	Time-resolved indirect nanoplasmonic sensing spectroscopy of dye molecule interactions with dense and mesoporous TiO2 films. 2012 , 12, 2397-403	21
1351	Zn-Doped SnO2Nanocrystals as Efficient DSSC Photoanode Material and Remarkable Photocurrent Enhancement by Interface Modification. <i>Journal of the Electrochemical Society</i> , 2012 , 159, H735-H739	15
1350	Light Scattering and Enhanced Photoactivities of Electrospun Titania Nanofibers. 2012 , 116, 3857-3865	36
1349	Enhanced Efficiency in Dye-Sensitized Solar Cells Based on TiO2 Nanotube Scattering Layer. 2012 , 565, 124-130	2
1348	Comparative interface metrics for metal-free monolayer-based dye-sensitized solar cells. 2012 , 4, 6735-46	12
1347	Dye molecular structure device open-circuit voltage correlation in Ru(II) sensitizers with heteroleptic tridentate chelates for dye-sensitized solar cells. 2012 , 134, 7488-96	117
1346	Dye Sensitized Solar Cells: A Review. 2012 , 71, 1-16	83
1345	An energy-harvesting scheme utilizing Ga-rich CuIn(1½)GaxSe2 quantum dots for dye-sensitized solar cells. 2012 , 101, 123901	8
1345 1344		8
	Solar cells. 2012 , 101, 123901 Novel branched coumarin dyes for dye-sensitized solar cells: significant improvement in	
1344	Novel branched coumarin dyes for dye-sensitized solar cells: significant improvement in photovoltaic performance by simple structure modification. 2012 , 22, 15379	59
1344	Novel branched coumarin dyes for dye-sensitized solar cells: significant improvement in photovoltaic performance by simple structure modification. 2012, 22, 15379 A structural study of DPP-based sensitizers for DSC applications. 2012, 48, 10724-6 Enhancement of dye sensitized solar cell efficiency by composite TiO2 nanoparticle/8nm TiO2	59 64
1344 1343 1342	Novel branched coumarin dyes for dye-sensitized solar cells: significant improvement in photovoltaic performance by simple structure modification. 2012, 22, 15379 A structural study of DPP-based sensitizers for DSC applications. 2012, 48, 10724-6 Enhancement of dye sensitized solar cell efficiency by composite TiO2 nanoparticle/8nm TiO2 nanotube paper-like photoelectrode. 2012, 1, 411-417 A new thiocyanate-free cyclometallated ruthenium complex for dye-sensitized solar cells:	59 64 20
1344 1343 1342 1341	Novel branched coumarin dyes for dye-sensitized solar cells: significant improvement in photovoltaic performance by simple structure modification. 2012, 22, 15379 A structural study of DPP-based sensitizers for DSC applications. 2012, 48, 10724-6 Enhancement of dye sensitized solar cell efficiency by composite TiO2 nanoparticle/8nm TiO2 nanotube paper-like photoelectrode. 2012, 1, 411-417 A new thiocyanate-free cyclometallated ruthenium complex for dye-sensitized solar cells: Beneficial effects of substitution on the cyclometallated ligand. 2012, 714, 88-93 Ionic liquid diffusion properties in tetrapod-like ZnO photoanode for dye-sensitized solar cells.	59 64 20 36

(2012-2012)

1337	In situ growth of a ZnO nanowire network within a TiO(2) nanoparticle film for enhanced dye-sensitized solar cell performance. 2012 , 24, 5850-6	207
1336	Photoanode based on chain-shaped anatase TiO2 nanorods for high-efficiency dye-sensitized solar cells. 2012 , 7, 2313-20	16
1335	Incorporating Zn2SnO4 quantum dots and aggregates for enhanced performance in dye-sensitized ZnO solar cells. 2012 , 18, 11716-22	27
1334	Effect of TiO2 nanotubes with TiCl4 treatment on the photoelectrode of dye-sensitized solar cells. 2012 , 7, 579	16
1333	Optimization of dye adsorption time and film thickness for efficient ZnO dye-sensitized solar cells with high at-rest stability. 2012 , 7, 688	47
1332	Mesoporous Dye-Sensitized Solar Cells. 2012 , 481-496	2
1331	Chemically directed assembly of photoactive metal oxide nanoparticle heterojunctions via the copper-catalyzed azide-alkyne cycloaddition "click" reaction. 2012 , 6, 310-8	37
1330	Dye-Sensitized Photoelectrochemical Cells. 2012 , 479-542	13
1329	Mesoporous submicrometer TiO(2) hollow spheres as scatterers in dye-sensitized solar cells. 2012 , 4, 2964-8	109
1328	Nickel oxide nanostructured electrodes towards perylenediimide-based dye-sensitized solar cells. 2012 , 2, 11495	20
1327	Application of TiO 2 with different structures in solar cells. 2012 , 21, 118401	12
1326	Amphiphilic acids as co-adsorbents of metal-free organic dyes for the efficient sensitization of nanostructured photoelectrode. 2012 , 2, 11836	23
1325	Hollow anatase TiO2 porous microspheres with V-shaped channels and exposed (101) facets: Anisotropic etching and photovoltaic properties. 2012 , 22, 6002	48
1324	Bio-manufacturing technology based on diatom micro- and nanostructure. 2012 , 57, 3836-3849	30
1323	TiO2-Coated Ultrathin SnO2 Nanosheets Used as Photoanodes for Dye-Sensitized Solar Cells with High Efficiency. 2012 , 51, 4247-4253	46
1322	Zirconium((IV)) and Hafnium((IV)) Porphyrin and Phthalocyanine Complexes as New Dyes for Solar Cell Devices. 2012 , 116, 15867-15877	24
1321	Fabrication of Spherical Multi-Hollow TiO2 Nanostructures for Photoanode Film with Enhanced Light-Scattering Performance. 2012 , 51, 2838-2845	47
1320	Facet-dependent activity of bismuth sulfide as low-cost counter-electrode materials for dye-sensitized solar cells. 2012 , 22, 18572	40

1319	Understanding of the chopping frequency effect on IPCE measurements for dye-sensitized solar cells: from the viewpoint of electron transport and extinction spectrum. 2012 , 45, 425104	15
1318	Synthesis of hollow spherical TiO2 for dye-sensitized solar cells with enhanced performance. Applied Surface Science, 2012 , 263, 816-820 6.7	28
1317	Incubating non-prefabricated nanocrystals in anodized nanotubes for TiO2 nano-hybrids. 2012, 414, 244-25	0 3
1316	Anatase TiO2 sol as a low reactive precursor to form the photoanodes with compact films of dye-sensitized solar cells. 2012 , 79, 182-188	15
1315	Hierarchical TiO2 nanorod array for dye-sensitized solar cells. <i>Materials Letters</i> , 2012 , 89, 309-311 3.3	13
1314	Influence of cations of the electrolyte on the performance and stability of dye sensitized solar cells. 2012 , 22, 24424	22
1313	Enhanced Charge Separation in Nanostructured TiO2 Materials for Photocatalytic and Photovoltaic Applications. 2012 , 51, 11841-11849	83
1312	High-efficiency dye-sensitized solar cells using ferrocene-based electrolytes and natural photosensitizers. 2012 , 45, 425101	50
1311	Size-controlled anatase titania single crystals with octahedron-like morphology for dye-sensitized solar cells. 2012 , 6, 10862-73	80
1310	Hydrothermal synthesis of ultrasmall CuCrO2 nanocrystal alternatives to NiO nanoparticles in efficient p-type dye-sensitized solar cells. 2012 , 22, 24760	145
1310		145 36
	Aerogel based SiO2TiiO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012 , 22, 18930	
1309	efficient p-type dye-sensitized solar cells. 2012 , 22, 24760 Aerogel based SiO2IIiO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012 , 22, 18930 Surface ion transfer growth of ternary CdS(1-x)Se(x) quantum dots and their electron transport	36
1309	efficient p-type dye-sensitized solar cells. 2012, 22, 24760 Aerogel based SiO2IIiO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012, 22, 18930 Surface ion transfer growth of ternary CdS(1-x)Se(x) quantum dots and their electron transport modulation. 2012, 4, 7690-7 Dye-sensitized solar cells based on a single layer deposition of TiO2 from a new formulation paste	36 34
1309 1308 1307	Aerogel based SiO2IIiO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012, 22, 18930 Surface ion transfer growth of ternary CdS(1-x)Se(x) quantum dots and their electron transport modulation. 2012, 4, 7690-7 Dye-sensitized solar cells based on a single layer deposition of TiO2 from a new formulation paste and their photovoltaic performance. 2012, 86, 2654-2664 Morphological control of platinum nanostructures for highly efficient dye-sensitized solar cells.	36 34 51
1309 1308 1307	efficient p-type dye-sensitized solar cells. 2012, 22, 24760 Aerogel based SiO2IIiO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012, 22, 18930 Surface ion transfer growth of ternary CdS(1-x)Se(x) quantum dots and their electron transport modulation. 2012, 4, 7690-7 Dye-sensitized solar cells based on a single layer deposition of TiO2 from a new formulation paste and their photovoltaic performance. 2012, 86, 2654-2664 Morphological control of platinum nanostructures for highly efficient dye-sensitized solar cells. 2012, 22, 6267 Structurephotovoltaic performance relationships for DSSC sensitizers having heterocyclic and	36 34 51 56
1309 1308 1307 1306	efficient p-type dye-sensitized solar cells. 2012, 22, 24760 Aerogel based SiO2@iO2 hybrid photoanodes for enhanced light harvesting in dye-sensitized solar cells. 2012, 22, 18930 Surface ion transfer growth of ternary CdS(1-x)Se(x) quantum dots and their electron transport modulation. 2012, 4, 7690-7 Dye-sensitized solar cells based on a single layer deposition of TiO2 from a new formulation paste and their photovoltaic performance. 2012, 86, 2654-2664 Morphological control of platinum nanostructures for highly efficient dye-sensitized solar cells. 2012, 22, 6267 StructureBhotovoltaic performance relationships for DSSC sensitizers having heterocyclic and benzene spacers. 2012, 22, 20403 Synthesis and application of core-shell Au\(\textit{IO2}\) nanowire photoanode materials for dye sensitized	3634515620

1301	Effect of Cerium Doping in the TiO2 Photoanode on the Electron Transport of Dye-Sensitized Solar Cells. 2012 , 116, 19182-19190	114
1300	CdSe-sensitized mesoscopic TiO2 solar cells exhibiting >5% efficiency: redundancy of CdS buffer layer. 2012 , 22, 16235	132
1299	Effect of ZnO nanoparticle properties on dye-sensitized solar cell performance. 2012, 4, 1254-61	73
1298	Solid-state dye-sensitized and bulk heterojunction solar cells using TiO2 and ZnO nanostructures: recent progress and new concepts at the borderline. 2012 , 61, 355-373	86
1297	Design of conduction band structure of TiO2 electrode using Nb doping for highly efficient dye-sensitized solar cells. 2012 , 20, 904-911	18
1296	The influence of precursor composition and concentration on cadmium doped TiO2 film. 2012 , 10, 85-90	2
1295	Stability of CdS-coated TiO2 solar cells. 2012 , 16, 1091-1097	9
1294	The renaissance of dye-sensitized solar cells. 2012 , 6, 162-169	1091
1293	Highly efficient inorganic-organic heterojunction solar cells based on SnS-sensitized spherical TiO2 electrodes. 2012 , 48, 6133-5	30
1292	Chemically assembled heterojunctions of SnO2 nanorods with TiO2 nanoparticles via lickl chemistry. 2012 , 22, 11561	12
1291	Dye-sensitized solar cells: spectroscopic evaluation of dye loading on TiO2. 2012 , 22, 11364	64
1290	Modulation of energy levels by donor groups: an effective approach for optimizing the efficiency of zinc-porphyrin based solar cells. 2012 , 22, 7434	65
1289	High Efficiency Dye-Sensitized Solar Cells based on a Bi-Layered Photoanode Made of TiO2 Nanocrystallites and Microspheres with High Thermal Stability. 2012 , 116, 11859-11866	47
1288	High performance all-solid-state dye-sensitized solar cells based on cyanobiphenyl-functionalized imidazolium-type ionic crystals. 2012 , 22, 12842	36
1287	New bithiazole-based sensitizers for efficient and stable dye-sensitized solar cells. 2012 , 18, 7903-15	72
1286	SnS-quantum dot solar cells using novel TiC counter electrode and organic redox couples. 2012 , 18, 7862-8	38
1285	Avoiding diffusion limitations in cobalt(III/II)-tris(2,2'-bipyridine)-based dye-sensitized solar cells by tuning the mesoporous TiO2 film properties. 2012 , 13, 2976-81	69
1284	An unconventional route to high-efficiency dye-sensitized solar cells via embedding graphitic thin films into TiO2 nanoparticle photoanode. 2012 , 12, 479-85	142

1283	Improved utilization of photogenerated charge using fluorine-doped TiO(2) hollow spheres scattering layer in dye-sensitized solar cells. 2012 , 4, 3712-7	67
1282	Controllable hydrothermal synthesis of nanocrystal TiO2 particles and their use in dye-sensitized solar cells. 2012 , 55, 1308-1313	10
1281	Hybrid photoanode films based on sparse ZnO rod array-TiO2 nanoparticles in dye-sensitized solar cells. 2012 , 55, 1183-1188	5
1280	Adsorption of croconate dyes on TiO2 anatase (101) surface: A periodic DFT study to understand the binding of diketo groups#. 2012 , 124, 301-310	13
1279	Effect of optical property of surfactant-treated TiO2 nanostructure on the performance of TiO2 photo-electrochemical cell. 2012 , 16, 2005-2010	11
1278	The effect of TiCl4-treated TiO2 compact layer on the performance of dye-sensitized solar cell. 2012 , 12, 737-741	130
1277	Aero-solgel synthesis and photovoltaic properties of mesoporous TiO2 nanoparticles. 2012, 188, 216-221	11
1276	Preparation of TiO2 particles and their applications in the light scattering layer of a dye-sensitized solar cell. 2012 , 92, 224-233	92
1275	Organic dyes incorporating the cyclopentadithiophene moiety for efficient dye-sensitized solar cells. 2012 , 92, 1292-1299	33
1274	Anatase TiO2 hollow spheres with small dimension fabricated via a simple preparation method for dye-sensitized solar cells with an ionic liquid electrolyte. 2012 , 60, 422-427	45
1273	Performance enhancement for quasi-solid-state dye-sensitized solar cells by using acid-oxidized carbon nanotube-based gel electrolytes. 2012 , 61, 185-190	45
1272	A novel thixotropic and ionic liquid-based gel electrolyte for efficient dye-sensitized solar cells. 2012 , 68, 235-239	17
1271	Enhanced efficiency dye-sensitized SrSnO3 solar cells prepared using chemical bath deposition. 2012 , 70, 313-317	33
1270	Enhanced efficiency in dye sensitized solar cells with nanostructured Pt decorated multiwalled carbon nanotube based counter electrode. 2012 , 72, 199-206	28
1269	Platinum coated counter electrodes for dye-sensitized solar cells fabricated by pulsed electrodeposition Correlation of nanostructure, catalytic activity and optical properties. 2012 , 77, 121-127	18
1268	Morphological effects of reflux condensation on nanocrystalline anatase gel and thin films. 2012 , 132, 509-514	14
1267	A bifunctional TiO2 sol for convenient low-temperature fabrication of dye-sensitized solar cells. Materials Letters, 2012, 67, 60-63	2
1266	Improved efficiency of dye-sensitized solar cells applied with nanostructured NE doped TiO2 electrode. 2012 , 73, 911-916	12

1265	Preparation of chemically sintered ZnO films and their application in dye sensitized solar cells formed on plastic substrates. 2012 , 228, 15-21	4
1264	Effects of TiO2 nanoparticle polymorphism on dye-sensitized solar cell photovoltaic properties. 2012 , 232, 22-31	67
1263	Synergistic effects of ZnO compact layer and TiCl4 post-treatment for dye-sensitized solar cells. 2012 , 204, 257-264	49
1262	Ionic liquid-tethered nanoparticle/poly(ionic liquid) electrolytes for quasi-solid-state dye-sensitized solar cells. 2012 , 207, 216-221	69
1261	Hydrothermal synthesis of 1D TiO2 nanostructures for dye sensitized solar cells. 2012, 177, 19-26	30
1260	Synthesis of triarylamines with secondary electron-donating groups for dye-sensitized solar cells. 2012 , 86, 764-770	16
1259	The effect of ZnO-coating on the performance of a dye-sensitized solar cell. 2012 , 86, 1435-1442	46
1258	Effect of a compact ZnO interlayer on the performance of ZnO-based dye-sensitized solar cells. 2012 , 100, 21-26	35
1257	How to improve the performance of dye-sensitized solar cell modules by light collection. 2012 , 98, 417-423	20
1256	How to improve the performance of dye-sensitized solar modules by B ack leads[2012 , 102, 109-113	5
1255	Growth mode transition of atomic layer deposited Al2O3 on porous TiO2 electrodes of dye-sensitized solar cells. <i>Thin Solid Films</i> , 2012 , 520, 1745-1750	11
1254	Large efficiency improvement in nanoporous dye-sensitized solar cells via vacuum assistant dye adsorption. 2012 , 86, 1161-1164	5
1253	Multi-objective optimization of laser-scribed micro grooves on AZO conductive thin film using Data Envelopment Analysis. 2012 , 44, 1959-1970	7
1252	Enhanced photoelectrocatalytic degradation of phenols with bifunctionalized dye-sensitized TiO2 film. 2012 , 199-200, 226-32	28
1251	Reduction of graphene oxide by an in-situ photoelectrochemical method in a dye-sensitized solar cell assembly. 2012 , 7, 101	52
1250	Enhancing performance of ZnO dye-sensitized solar cells by incorporation of multiwalled carbon nanotubes. 2012 , 7, 166	41
1249	High-temperature solid-state dye-sensitized solar cells based on organic ionic plastic crystal electrolytes. 2012 , 24, 945-50	78
1248	Fabrication of an efficient light-scattering functionalized photoanode using periodically aligned ZnO hemisphere crystals for dye-sensitized solar cells. 2012 , 24, 792-8	82

1247	Efficient triphenylamine photosensitizers with alkoxy- or fluorine-substituted phenylene spacer for dye-sensitized solar cells. 2012 , 47, 1843-1851		5
1246	Synthesis of copolymer electrolytes based on polysiloxane and their high temperature durability analysis for solvent-free dye-sensitized solar cells. 2012 , 16, 649-656		4
1245	Electrophoretically deposited TiO2 compact layers using aqueous suspension for dye-sensitized solar cells. 2013 , 15, 14729-35		25
1244	Enhancement of electron lifetime in dye-sensitized solar cells using anodically grown TiO2 nanotube/nanoparticle composite photoanodes. 2013 , 111, 137-142		28
1243	Doping effects in Sb2S3 absorber for full-inorganic printed solar cells with 5.7% conversion efficiency. 2013 , 38, 16749-16754		114
1242	Imidazolium functionalized cobalt tris(bipyridyl) complex redox shuttles for high efficiency ionic liquid electrolyte dye-sensitized solar cells. 2013 , 1, 11933		35
1241	Nanostructured ZnO thin films by SDS-assisted electrodeposition for dye-sensitized solar cell applications. 2013 , 39, 5049-5052		12
1240	Versatile three-dimensional virus-based template for dye-sensitized solar cells with improved electron transport and light harvesting. 2013 , 7, 6563-74		72
1239	PbS quantum dots embedded in a ZnS dielectric matrix for bulk heterojunction solar cell applications. 2013 , 25, 4598-604		45
1238	Design of Os(II) -based sensitizers for dye-sensitized solar cells: influence of heterocyclic ancillaries. 2013 , 6, 1366-75		16
1237	Enhancing the performance of dye-sensitized solar cells based on TiO2 nanotube/nanoparticle composite photoanodes. 2013 , 105, 142-148		12
1236	The influence of shell thickness of Au@TiO2 core-shell nanoparticles on the plasmonic enhancement effect in dye-sensitized solar cells. 2013 , 5, 7953-62		106
1235	Broadband light confinement using a hierarchically structured TiO2 multi-layer for dye-sensitized solar cells. 2013 , 1, 9707		25
1234	Spherical TiO2 aggregates with different building units for dye-sensitized solar cells. 2013 , 5, 8177-83		23
1233	Ultrarapid Sonochemical Synthesis of ZnO Hierarchical Structures: From Fundamental Research to High Efficiencies up to 6.42% for Quasi-Solid Dye-Sensitized Solar Cells. 2013 , 25, 1000-1012		117
1232	Achieving enhanced DSSC performance by microwave plasma incorporation of carbon into TiO2 photoelectrodes. <i>Applied Surface Science</i> , 2013 , 275, 289-294	6.7	15
1231	Dye-sensitized solar cells based on agarose gel electrolytes using allylimidazolium iodides and environmentally benign solvents. 2013 , 91, 208-213		43
1230	Natural dye-based photoelectrode for improvement of solar cell performance. 2013 , 19, 1179-1183		9

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1229	The potential of eutectic mixtures as environmentally friendly, solvent-free electrolytes for dye-sensitized solar cells. 2013 , 3, 6922	17
1228	Novel dye based photoelectrode for improvement of solar cell conversion efficiency. 2013 , 49, 54-57	3
1227	Asymmetric Tribranched Dyes: An Intramolecular Cosensitization Approach for Dye-Sensitized Solar Cells. 2013 , 2013, 6793-6801	34
1226	Improving pore filling of gel electrolyte and charge transport in photoanode for high-efficiency quasi-solid-state dye-sensitized solar cells. 2013 , 5, 8289-93	15
1225	Effect of HAc treatment on an open-environment prepared organic redox couple based on hydroquinone/benzoquinone and its application in dye-sensitized solar cells. 2013 , 107, 695-700	9
1224	Influence of acid/base co-catalyst on the photoelectrochemical properties of TiO2 thin films in dye-sensitized solar cells. 2013 , 107, 619-623	4
1223	Dye-sensitized solar cells containing plasma jet deposited hierarchically nanostructured TiO2 thin photoanodes. 2013 , 1, 11665	12
1222	See-through dye-sensitized solar cells: photonic reflectors for tandem and building integrated photovoltaics. 2013 , 25, 5734-41	45
1221	Efficiency enhancement of flexible dye-sensitized solar cell with solgel formed Nb2O5 blocking layer. 2013 , 13, 1391-1396	28
1220	Porphyrins bearing long alkoxyl chains and carbazole for dye-sensitized solar cells: tuning cell performance through an ethynylene bridge. 2013 , 3, 14780	50
1219	Nano-particle based scattering layers for optical efficiency enhancement of organic light-emitting diodes and organic solar cells. 2013 , 113, 204502	125
1218	Metal free sensitizer and catalyst for dye sensitized solar cells. 2013 , 6, 3439	326
1217	Enhanced performance of dye-sensitized solar cells by doping Au nanoparticles into photoanodes: a size effect study. 2013 , 1, 13524	54
1216	Low cost acetone sensors with selectivity over water vapor based on screen printed TiO2 nanoparticles. 2013 , 5, 3709	39
1215	Aqueous Colloidal Stability Evaluated by Zeta Potential Measurement and Resultant TiO2 for Superior Photovoltaic Performance. 2013 , 96, 2636-2643	21
1214	Metal-Oxide Nanoparticles for Dye-Sensitized Solar Cells. 2013 , 339-383	1
1213	Transition of pore-size dependence of ion diffusivity in dye-sensitized solar cells. 2013 , 102, 127-132	6
1212	StSt/TiO2 compact layer/TiO2 triple-layered conducting substrates for large active area dye-sensitized solar cells. 2013 , 48, 2625-2629	3

1211 Manufacturing of ink-sensitized solar cell by NANO technology. 2013,

1210	Highly asymmetrical porphyrins with enhanced push-pull character for dye-sensitized solar cells. 2013 , 19, 17075-81	122
1209	Improved electron transportation of dye-sensitized solar cells using uniform mixed CNTsIiO2 photoanode prepared by a new polymeric gel process. 2013 , 15, 1	13
1208	CdS/CdSe quantum dots co-sensitized solar cells with Cu2S counter electrode prepared by SILAR, spray pyrolysis and Zntu alloy methods. 2013 , 271, 56-64	54
1207	Photovoltaic performance of bifacial dye sensitized solar cell using chemically healed binary ionic liquid electrolyte solidified with SiO2 nanoparticles. 2013 , 87, 425-431	10
1206	Influence of CNT incorporation on the photovoltaic behavior of TiO2 films formed by high-voltage electrophoretic deposition. 2013 , 13, S26-S29	14
1205	Synthesis and formation mechanism of mesoporous TiO2 microspheres for scattering layer in dye-sensitized solar cells. 2013 , 113, 109-116	15
1204	Surfactant influence in the performance of titanium dioxide photoelectrodes for dye-sensitized solar cells. 2013 , 91, 263-272	29
1203	Highly catalytic carbon nanotube counter electrode on plastic for dye solar cells utilizing cobalt-based redox mediator. 2013 , 111, 206-209	20
1202	Electrospray Dense Suspensions of TiO2 Nanoparticles for Dye Sensitized Solar Cells. 2013 , 47, 1302-1309	20
1201	Soft processing of hierarchical oxide nanostructures for dye-sensitized solar cell applications. 2013 , 2, 1354-1372	25
1200	Monolithic quasi-solid-state dye-sensitized solar cells based on graphene-modified mesoscopic carbon-counter electrodes. 2013 , 7, 073090	24
1199	Effects of hydrochloric acid treatment of TiO2 nanoparticles/nanofibers bilayer film on the photovoltaic properties of dye-sensitized solar cells. 2013 , 48, 978-982	18
1198	Volumes and issues. 2013, 7, 57	4 ^O
1197	Effective blockage of the interfacial recombination process at TiO(2) nanowire array electrodes in dye-sensitized solar cells. 2013 , 5, 11906-12	14
1196	Improving the photoresponse of copper(I) dyes in dye-sensitized solar cells by tuning ancillary and anchoring ligand modules. 2013 , 42, 12293-308	71
1195	High Open-Circuit Voltages: Evidence for a Sensitizer-Induced TiO2 Conduction Band Shift in Ru(II)-Dye Sensitized Solar Cells. 2013 , 25, 4497-4502	37
1194	Porous titania nanosheet/nanoparticle hybrids as photoanodes for dye-sensitized solar cells. 2013 , 5, 12058-65	45

1193	Synthesis and characterisation of thin-film TiO2 dye-sensitised solar cell. 2013, 39, 1519-1523	20
1192	Photostability of CdSe quantum dots functionalized with aromatic dithiocarbamate ligands. 2013 , 5, 12975-83	33
1191	Array of solid-state dye-sensitized solar cells with micropatterned TiO2 nanoparticles for a high-voltage power source. 2013 , 8, 491	5
1190	Surface plasma resonant effect of gold nanoparticles on the photoelectrodes of dye-sensitized solar cells. 2013 , 8, 450	23
1189	High performance low temperature carbon composite catalysts for flexible dye sensitized solar cells. 2013 , 15, 17689-95	18
1188	Size and shape fine-tuning of SnO2 nanoparticles for highly efficient and stable dye-sensitized solar cells. 2013 , 1, 13789	61
1187	A novel organic ionic plastic crystal electrolyte for solid-state dye-sensitized solar cells. 2013 , 112, 247-251	18
1186	Improved nonaqueous synthesis of TiO2 for dye-sensitized solar cells. 2013 , 7, 8981-9	48
1185	Biomimetic Dye Aggregate Solar Cells. 2013 ,	8
1184	Nb-doped TiO2 nanoparticles for organic dye-sensitized solar cells. 2013 , 3, 16380	65
1183	Diffusion and adsorption of dye molecules in mesoporous TiO2 photoelectrodes studied by indirect nanoplasmonic sensing. 2013 , 6, 3627	15
1182	Controlled synthesis of mesoporous anatase TiO2 microspheres as a scattering layer to enhance the photoelectrical conversion efficiency. 2013 , 1, 9853	68
1181	Optimization of electrochemically grown dense ZnO/nanoporous ZnO stacked structures for dye-sensitized solar cell application. 2013 , 250, 2126-2131	3
1180	The Preparation and Photovoltaic Properties of Quasi-solid State Dye-Sensitized Solar Cells Containing Long Wavelength Absorbing Squaraine Dye. 2013 , 581, 108-115	
1179	Microsphere assembly of TiO2 with tube-in-tube nanostructures: anisotropic etching and photovoltaic enhancement. 2013 , 15, 8972	18
1178	The optimization of optical properties for increased performance in a monolithic tandem dye-sensitized/Cu(In, Ga)Se2 solar cell. 2013 ,	2
1177	Effect of ZnO nanowire synthesis time on dye-sensitized solar cells. 2013,	
1176	A class of carbon supported transition metallitrogen complex catalysts for dye-sensitized solar cells. 2013 , 1, 1475-1480	16

1175	Active sites on hydrogen evolution photocatalyst. 2013 , 1, 15258	81
1174	Organophosphates as solvents for electrolytes in electrochemical devices. 2013 , 5, 13029-34	13
1173	Size-tunable TiO2 nanorod microspheres synthesised via a one-pot solvothermal method and used as the scattering layer for dye-sensitized solar cells. 2013 , 5, 12574-81	43
1172	Low-Temperature Fabrication of Dye-Sensitized Solar Cells Using Pre-Sintered TiO2Aggregates. 2013 , 52, 05DB15	1
1171	A Compact Nano-\${rm TiO}_{2}\$ Underlayer for Efficient Dye-Sensitized Solar Cell. 2013 , 34, 1415-1417	2
1170	One-dimensional WO3 nanorods as photoelectrodes for dye-sensitized solar cells. 2013 , 547, 113-117	56
1169	Preparation of a working electrode with a conducting PEDOT:PSS film and its applications in a dye-sensitized solar cell. 2013 , 24, 336-343	18
1168	A graphene-multi-walled carbon nanotube hybrid supported on fluorinated tin oxide as a counter electrode of dye-sensitized solar cells. 2013 , 222, 518-525	67
1167	Graphene oxide as auxiliary binder for TiO2 nanoparticle coating to more effectively fabricate dye-sensitized solar cells. 2013 , 222, 161-168	36
1166	Single-step in-situ preparation of thin film electrolyte for quasi-solid state quantum dot-sensitized solar cells. 2013 , 224, 152-157	27
1165	Freestanding light scattering hollow silver spheres prepared by a facile sacrificial templating method and their application in dye-sensitized solar cells. 2013 , 225, 46-50	10
1164	Tailor and functionalize TiO2 compact layer by acid treatment for high performance dye-sensitized solar cell and its enhancement mechanism. 2013 , 51, 29-35	28
1163	Asymmetric ZnO panel-like hierarchical architectures with highly interconnected pathways for free-electron transport and photovoltaic improvements. 2013 , 19, 282-7	22
1162	Spectral sensitization of TiO2 by new hemicyanine dyes in dye solar cell yielding enhanced photovoltage: Probing chain length effect on performance. 2013 , 88, 270-277	29
1161	Light harvesting enhancement for Ti-based dye-sensitized solar cells by introducing a grooved texture underlayer. 2013 , 3, 2216	4
1160	Novel pyrene-based donor\(\text{Bcceptor organic dyes for solar cell application. \(\textbf{2013}\), 14, 445-450	37
1159	Porphyrin-sensitized solar cells. 2013 , 42, 291-304	1103
1158	Effect of amount of dye in the TiO2 photoanode on electron transport, recombination, Jsc and Voc of dye-sensitized solar cells. 2013 , 3, 2655-2661	18

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1157	Enhanced photovoltaic performance of dye-sensitized solar cells based on ZnO microrod array/TiO2 nanoparticle hybrid films. 2013 , 1, 3112	20
1156	Standardization of photoelectrode area of dye-sensitized solar cells. 2013 , 3, 2683	29
1155	Highly efficient overlayer derived from peroxotitanium for dye-sensitized solar cells. 2013 , 1, 1374-1379	17
1154	Ultra-fast sintered TiO2 films in dye-sensitized solar cells: phase variation, electron transport and recombination. 2013 , 1, 2225-2230	33
1153	Layer-by-layer assembled porous photoanodes for efficient electron collection in dye-sensitized solar cells. 2013 , 1, 2217-2224	34
1152	Influence of Hole-Sequestering Ligands on the Photostability of CdSe Quantum Dots. 2013 , 117, 313-320	27
1151	One-step synthesis of Pt nanoparticles/reduced graphene oxide composite with enhanced electrochemical catalytic activity. 2013 , 56, 354-361	17
1150	Design of dye-sensitized solar cells integrated in composite panel subjected to bending. 2013 , 47, 27-32	3
1149	Photocoloration efficiency and stability of photoelectrochromic devices. 2013 , 231, 30-36	26
1148	Performance enhancement for high performance dye-sensitized solar cells via using pyridinyl-functionalized ionic liquid type additive. 2013 , 106, 181-186	20
1147	Separation of anatase phase from commercially available P25 powder for dye-sensitized solar cells. 2013 , 114, 681-687	11
1146	Fabrication of mesoporous TiO2 electrodes by chemical technique for dye-sensitized solar cells. 2013 , 94, 277-284	19
1145	Improved efficiency of dye-sensitized solar cells through fluorine-doped TiO2 blocking layer. 2013 , 39, 8097-8101	28
1144	Analysis of light harvest in terms of current per mole of dye in dye-sensitized solar cells made with opaque and transparent photoanodes. 2013 , 53, 265-270	5
1143	Crack-free TiO2 thin films with selfassembling nano-particles fabricated through in-situ solgel processing in reverse micelles. 2013 , 221, 37-43	8
1142	Enhanced photovoltaic performance of a quantum dot-sensitized solar cell using a Nb-doped TiO2 electrode. 2013 , 24, 415401	13
1141	Plasmonic Enhancement of Dye Sensitized Solar Cells in the Red-to-near-Infrared Region using Triangular Core-Shell Ag@SiO2 Nanoparticles. 2013 , 5, 11044-51	94
1140	Hierarchical porous nano-carbon composite: Effective fabrication and application in dye sensitized solar cells. 2013 , 229, 102-111	40

1139	A viscous titania paste with a single coating-sintering step for 824th thick, high-haze, high-quality TiO2 films of dye-sensitized solar cells. 2013 , 97, 266-272		4
1138	Dye sensitized solar cells prepared by flames stabilized on a rotating surface. 2013 , 34, 2171-2178		8
1137	A solution process for preparation of low resistance layered indium tin oxide films. <i>Thin Solid Films</i> , 2013 , 534, 529-534	2.2	3
1136	Ultraviolet laser ablation of fluorine-doped tin oxide thin films for dye-sensitized back-contact solar cells. <i>Thin Solid Films</i> , 2013 , 531, 519-524	2.2	8
1135	Efficiency enhancement of CuInS2 quantum dot sensitized TiO2 photo-anodes for solar cell applications. 2013 , 586, 85-90		29
1134	Enhanced efficiency of bifacial and back-illuminated Ti foil based flexible dye-sensitized solar cells by decoration of mesoporous SiO2 layer on TiO2 anode. 2013 , 232, 1-6		13
1133	Beneficial Effects of Liquid Crystalline Phases in Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 657-665	21.8	46
1132	Triarylamine-substituted imidazole- and quinoxaline-fused push-pull porphyrins for dye-sensitized solar cells. 2013 , 6, 508-17		60
1131	Harnessing the open-circuit voltage via a new series of Ru(II) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. 2013 , 6, 859		60
1130	Facile synthesis of rutile TiO2 nanorod microspheres for enhancing light-harvesting of dye-sensitized solar cells. 2013 , 15, 1651		36
1129	Random nanowires of nickel doped TiO2 with high surface area and electron mobility for high efficiency dye-sensitized solar cells. 2013 , 42, 1024-32		38
1128	Controllable synthesis of anatase TiO2 crystals for high-performance dye-sensitized solar cells. 2013 , 1, 5347		27
1127	Light-trapping in dye-sensitized solar cells. 2013 , 6, 2972		32
1126	Impurity-Free Synthesis of Cube-Like Single-Crystal Anatase TiO2 for High Performance Dye-Sensitized Solar Cell. 2013 , 52, 4098-4102		17
1125	Influence of different anchoring groups in indoline dyes for dye-sensitized solar cells: Electron injection, impedance and charge recombination. 2013 , 234, 139-146		66
1124	Panchromatic quantum-dot-sensitized solar cells based on a parallel tandem structure. 2013 , 6, 687-92		9
1123	TCO-free flexible monolithic back-contact dye-sensitized solar cells. 2013 , 6, 824		17
1122	Progress in solar PV technology: Research and achievement. 2013 , 20, 443-461		370

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1121	Formation of size-tunable dandelion-like hierarchical rutile titania nanospheres for dye-sensitized solar cells. 2013 , 3, 559-565	20
1120	Preparation and microcontact printing of platinum and palladium thin films. 2013 , 1, 2477	5
1119	Effects of bis-carbazole based D-EA sensitizers on solar energy capture in DSSCs. 2013, 12, 421-31	4
1118	Thiocyanate-Free Ru(II) Sensitizers with a 4,4?-Dicarboxyvinyl-2,2?-bipyridine Anchor for Dye-Sensitized Solar Cells. 2013 , 23, 2285-2294	26
1117	Effect of the adsorbed concentration of dye on charge recombination in dye-sensitized solar cells. 2013 , 694, 6-11	28
1116	Porous Sponge-like Inatase TiO2 via polymer templates: synthesis, characterization, and performance as a light-scattering material. 2013 , 291, 805-815	11
1115	Nonideal Charge Recombination and Conduction Band Edge Shifts in Dye-Sensitized Solar Cells Based on Adsorbent Doped Poly(ethylene oxide) Electrolytes. 2013 , 117, 4364-4373	23
1114	Silica nanoparticle doped organic ionic plastic crystal electrolytes for highly efficient solid-state dye-sensitized solar cells. 2013 , 5, 1453-9	27
1113	Growth of porous light scattering sub-micrometer particle films by occlusion electrolysis for dye-sensitized solar cells. 2013 , 110, 382-386	3
1112	Performance of four artificial chlorin-type sensitizers with different stereostructures in dye-sensitized solar cells. 2013 , 98, 181-189	11
1111	Photoelectrochemical performance of Ag nanoparticles on TiO2 films prepared by aerosol pyrolysis. 2013 , 24, 2761-2766	2
1110	Facile synthesis of a bulky BPTPA donor group suitable for cobalt electrolyte based dye sensitized solar cells. 2013 , 1, 5535	55
1109	Carbongraphene nanocomposite cathodes for improved Co(II/III) mediated dye-sensitized solar cells. 2013 , 1, 4982	46
1108	Novel Organic D-EPA Sensitizer for Dye Sensitized Solar Cells and Its Electron Transfer Kinetics on TiO2 Surface. 2013 , 117, 2041-2052	35
1107	Hybrid Titania Photoanodes with a Nanostructured Multi-Layer Configuration for Highly Efficient Dye-Sensitized Solar Cells. 2013 , 4, 1570-7	44
1106	Influence of thiophene and benzene unit in triphenylamine dyes on the performance of dye-sensitized solar cells. 2013 , 168, 1-8	32
1105	Long-Term Thermal Stability of Liquid Dye Solar Cells. 2013 , 117, 8636-8646	62
1104	Quantum-dot-sensitized solar cells: understanding linker molecules through theory and experiment. 2013 , 29, 2434-8	39

1103	Rational screening low-cost counter electrodes for dye-sensitized solar cells. 2013 , 4, 1583	340
1102	Efficient and stable back-illuminated sub-module dye-sensitized solar cells by decorating SiO2 porous layer with TiO2 electrode. 2013 , 3, 9994	14
1101	Fabrication of well-arrayed plasmonic mesoporous TiO2/Ag films for dye-sensitized solar cells by multiple-step nanoimprint lithography. 2013 , 1, 6433	38
1100	Engineering of thiocyanate-free Ru(II) sensitizers for high efficiency dye-sensitized solar cells. 2013 , 4, 2423	65
1099	ZnO hierarchical aggregates: Solvothermal synthesis and application in dye-sensitized solar cells. 2013 , 6, 441-448	24
1098	Low-temperature crystalline titanium dioxide by atomic layer deposition for dye-sensitized solar cells. 2013 , 5, 3487-93	70
1097	High-aspect-ratio dye-sensitized solar cells based on robust, fast-growing TiO2 nanotubes. 2013 , 19, 2966-70	33
1096	Hydrothermal Synthesis of High-Surface-Area Anatase TiO2 Nanoparticles for Enhancing the Photovoltaic Performance of Solar Cells. 2013 , 60, 705-709	3
1095	Fabrication of TiO2 Nanotubes Array by Anodization for DSSC. 2013 , 743-744, 920-925	
1094	Size-controlled synthesis of anisotropic TiO2 single nanocrystals using microwave irradiation and their application for dye-sensitized solar cells. 2013 , 42, 3295-9	23
1093	Highly efficient gel-state dye-sensitized solar cells prepared using poly(acrylonitrile-co-vinyl acetate) based polymer electrolytes. 2013 , 15, 3640-5	57
1092	Solar Energy Conversion. 2013 , 267-304	2
1091	Rapid dye adsorption via surface modification of TiO2 photoanodes for dye-sensitized solar cells. 2013 , 5, 5201-7	38
1090	Recombination in SnO2-Based Quantum Dots Sensitized Solar Cells: The Role of Surface States. 2013 , 117, 10965-10973	31
1089	Dual-Functional Upconverter-Doped TiO2 Hollow Shells for Light Scattering and Near-Infrared Sunlight Harvesting in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 704-707	29
1088	Photoelectrode thin film of dye-sensitized solar cell fabricated by anodizing method and spin coating and electrochemical impedance properties of DSSC. <i>Applied Surface Science</i> , 2013 , 275, 252-257 $^{6.7}$	25
1087	Ultrathin SnO2 scaffolds for TiO2-based heterojunction photoanodes in dye-sensitized solar cells: oriented charge transport and improved light scattering. 2013 , 19, 9366-70	29
1086	Dye-Sensitized Photoelectrochemical Cells. 2013 , 385-441	2

1085	Ruthenium oxyquinolate complexes for dye-sensitized solar cells. 2013 , 405, 98-104	23
1084	Parameters affecting electron transfer dynamics from semiconductors to molecular catalysts for the photochemical reduction of protons. 2013 , 6, 3291	95
1083	Seed free and low temperature growth of ZnO nanowires in mesoporous TiO2 film for dye-sensitized solar cells with enhanced photovoltaic performance. 2013 , 233, 74-78	21
1082	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. 2013 , 25, 2642-2648	47
1081	Improved efficiency of dye-sensitized solar cells applied with F-doped TiO2 electrodes. 2013, 150, 78-84	26
1080	Development of nanostructured porous TiO2 thick film with uniform spherical particles by a new polymeric gel process for dye-sensitized solar cell applications. 2013 , 89, 90-97	29
1079	Anatase TiO2 Hollow Microspheres Fabricated by Continuous Spray Pyrolysis as a Scattering Layer in Dye-Sensitised Solar Cells. 2013 , 33, 223-227	22
1078	Printable electrolytes for highly efficient quasi-solid-state dye-sensitized solar cells. 2013 , 91, 302-306	65
1077	Organic sensitizers incorporating 3,4-ethylenedioxythiophene as the conjugated bridge: Joint photophysical and electrochemical analysis of photovoltaic performance. 2013 , 99, 176-184	17
1076	Mixed photoelectrode based on spherical TiO2 nanorod aggregates for dye-sensitized solar cells with high short-circuit photocurrent density. 2013 , 3, 8474	13
1075	Transport and interfacial transfer of electrons in dye-sensitized solar cells based on a TiO2 nanowire double-layer working electrode. 2013 , 5, 033101	8
1074	A novel compact DPP dye with enhanced light harvesting and charge transfer properties for highly efficient DSCs. 2013 , 1, 4858	43
1073	Investigation on new CuInS2/carbon composite counter electrodes for CdS/CdSe cosensitized solar cells. 2013 , 5, 5954-60	64
1072	Effect of sodium on photovoltaic properties of dye-sensitized solar cells assembled with anatase TiO2 nanosheets with exposed {001} facets. 2013 , 391, 70-3	11
1071	Photocatalytic reduction of carbon dioxide to formic acid, formaldehyde, and methanol using dye-sensitized TiO2 film. 2013 , 129, 599-605	92
1070	Surface passivation: The effects of CDCA co-adsorbent and dye bath solvent on the durability of dye-sensitized solar cells. 2013 , 108, 70-77	30
1069	Synthesis of flower-like nanoparticles of anatase titania by microwave solvo-hydrothermal method. 2013 , 26, 742-746	4
1068	Thickness-dependent electron transport performance of mesoporous TiO2 thin film for dye-sensitized solar cells. 2013 , 114, 318-324	31

1067	Nanoscale Dispersions of Gelled SnO2: Material Properties and Device Applications. 2013 , 25, 4725-4730	65
1066	Controlled seeding of laser deposited Ta:TiO2 nanobrushes and their performance as photoanode for dye sensitized solar cells. 2013 , 5, 13140-5	9
	Tridentate cobalt complexes as alternative redox couples for high-efficiency dye-sensitized solar cells. 2013 , 4, 454-459	50
	Charge Transport in \${hbox{TiO}}_{2}\$ Films With Complex Percolation Pathways Investigated by Time-Resolved Terahertz Spectroscopy. 2013 , 3, 302-313	25
1063	Gel polymer electrolytes for dye sensitised solar cells: a review. 2013 , 28, 65-70	62
1062	Reduction of charge recombination by ZnS coating for dye-sensitized solar cells. 2013,	
7067	Photovoltaic Performance of Triphenylamine Dyes-sensitized Solar Cells Employing Cobalt Redox Shuttle and Influence of Econjugated Spacers. 2013 , 26, 310-320	1
	Improvement of Photovoltage in Dye-Sensitized Solar Cells with Azobenzene and Azulene Sensitizing Dyes by Applying Br3-/Br- Redox Mediator. 2013 , 596, 35-39	6
1059	Ultradurable Dye-Sensitized Solar Cells under 120˚C Using Cross-Linkage Dye and Ionic-Liquid Electrolyte. 2013 , 2013, 1-9	5
1058	High Efficiency of Dye-Sensitized Solar Cells Based on Ruthenium and Metal-Free Dyes. 2013 , 2013, 1-6	4
	Influence of TiO2 nanoparticles on the optical and structural properties of PPV thin films converted at low temperatures. 2013 , 7, 716-721	3
	Photoelectrode with Multilayer of Gradual Scattering Structure Used in Dye-Sensitized Solar Cells. 2013 , 699, 22-27	
	Electrophoretic Deposition of TiO2 Films on Metal Mesh for Dye-Sensitized Solar Cells. 2013 , 712-715, 329-332	
	Thin single screen-printed bifunctional titania layer photoanodes for high performing DSSCs via a novel hybrid paste formulation and process. 2013 , 28, 480-487	16
	The effect of photoanode thickness on the performance of dye-sensitized solar cells containing TiO2 nanosheets with exposed reactive {001} facets. 2013 , 28, 475-479	15
	Monolithic quasi-solid-state dye-sensitized solar cells based on graphene modified mesoscopic carbon counter electrodes. 2013,	
	TiO2nanocrystals coated rutile nanorod microspheres as the scattering layers for dye-sensitized solar cells. 2013 ,	1
1050	Fabrication of Flexible Dye-Sensitized Solar Cells with Double Sensitized Layers. 2013 , 311, 435-440	

The Effect of Diatomite on the Photoelectric Properties of TiO2 Dye Sensitized Solar Cells. 2013 , 448-453, 1452-1456	
On the application of a single-crystal Ediffractometer and a CCD area detector for studies of thin films. 2013 , 20, 644-7	5
The Effects of Malonic Acid Derivatives and Acetic Acid Derivatives as Coadsorbents on the Photovoltaic Performance of Dye-Sensitized Solar Cells. 2013 , 2013, 1-6	3
1046 Particle Size Effects of TiO2Layers on the Solar Efficiency of Dye-Sensitized Solar Cells. 2013 , 2013, 1-	9 37
Dye-Sensitized Solar Cells with Anatase TiO2Nanorods Prepared by Hydrothermal Method. 2013 , 2013, 1-8	7
TiO2 Film Morphology, Electron Transport and Electron Lifetime in Ultra-fast Sintered Dye-sensitized Solar Cells. 2013 , 1493, 121-126	
1043 Efficient dye-sensitized solar cells using a tetramethylthiourea redox mediator. 2013 , 6, 2124-31	15
1042 Hollow micro/nanomaterials as nanoreactors for photocatalysis. 2013 , 1, 041101	20
Defect states in hybrid solar cells consisting of Sb2S3 quantum dots and TiO2 nanoparticles. 2013 , 103, 023901	16
A study of TiO2 binder-free paste prepared for low temperature dye-sensitized solar cells. 2013 , 28, 488-496	12
Optimisation of ruthenium dye sensitised solar cells efficiency via Sn diffusion into the TiO2 mesoporous layer. 2013 , 8, e63923	
Photocatalytic Degradation of Phenol Using a Nanocatalyst: The Mechanism and Kinetics. 2013 , 2013, 1-6	11
1037 Chain-network anatase/TiO2 (B) thin film with improved photocatalytic efficiency. 2014 , 25, 235602	9
Quantum conversion enhancement with TiO(x) compact layers for ITO-plastic-film-based low-temperature-processed dye-sensitized photoelectrodes. 2014 , 15, 1190-3	6
Surface modification of dye-sensitized solid-state solar cells by atmospheric-pressure plasma jet. 2014 , 53, 11RF02	4
N,S,P-Hybrid Donor-EAcceptor Organic Dyes for Dye-Sensitized Solar Cell: Synthesis, Optical Properties, and Photovoltaic Performances. 2014 , 25, 533-547	18
Surface Modification of Aerosol-Assisted CVD Produced TiO2Thin Film for Dye Sensitised Solar Cell. 2014 , 2014, 1-12	19
Research and Development Aspects on Chemical Preparation Techniques of Photoanodes for Dye Sensitized Solar Cells. 2014 , 2014, 1-21	33

1031 The effect of ethyl cellulose on TiO2 pastes for DSSCs application. 2014, 11, 1138

1030	Morphology, structure, optical property and photoelectrochemical property of TiO2 nanoflower films synthesised via liquid phase deposition technique. 2014 , 9, 253-256	3	3
1029	Pr and F co-doped SnOltransparent conductive films with high work function deposited by ion-assisted electron beam evaporation. 2014 , 22, 4731-7	1	12
1028	CHAPTER 6:Chemistry of Sensitizers for Dye-sensitized Solar Cells. 186-241	2	2
1027	Effects of Ag-ion implantation on the performance of DSSCs with a tri-layer TiO2 film. 2014 , 4, 56318-5632	2 1	15
1026	Role of Energy Transfer in Conversion of Light to Electric Energy. 2014 , 589, 202-208	ϵ	5
1025	Fabrication of a dye-sensitized solar cell module using spray pyrolysis deposition of a TiO2 colloid. 2014 , 4, 23299-23303	1	15
1024	Multiporous nanofibers of SnO2 by electrospinning for high efficiency dye-sensitized solar cells. 2014 , 2, 17427-17434	ć	51
1023	Conjugated polymer with rigid donor poly(para-divinylphenylamino) backbone and pendant cyanoacetic acid acceptor for dye sensitized solar cells. 2014 , 52, 2958-2965	3	3
1022	Improved Efficiency of Dye-Sensitized Solar Cells Based on a Single Layer Deposition of Skein-Like TiO2 Nanotubes. 2014 , 97, 2873-2879	5	5
1021	Simply synthesized TiO 2 nanorods as an effective scattering layer for quantum dot sensitized solar cells. 2014 , 23, 047302	1	11
1020	Magnetic-field-assisted aerosol pyrolysis synthesis of iron pyrite sponge-like nanochain networks as cost-efficient counter electrodes in dye-sensitized solar cells. 2014 , 2, 5508-5515	2	22
1019	Thickness-controllable textured TiO2 underlayer for a flexible dye-sensitized solar cell sub-module. 2014 , 1, 025503	4	4
1018	Bi2S3Liquid-Junction Semiconductor-Sensitized SnO2Solar Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H1-H5) 5	51
1017	Dye-sensitized solar cells based on porous conjugated polymer counter electrodes. <i>Thin Solid Films</i> , 2014 , 573, 112-116	. 1	17
1016	A durable SWCNT/PET polymer foil based metal free counter electrode for flexible dye-sensitized solar cells. 2014 , 2, 19609-19615	5	52
1015	Reducing mass-transport limitations in cobalt-electrolyte-based dye-sensitized solar cells by photoanode modification. 2014 , 15, 1216-21	1	18
1014	Diffraction-Grating-Embedded Dye-Sensitized Solar Cells with Good Light Harvesting. <i>Advanced Energy Materials</i> , 2014 , 4, 1300978	.8 1	16

Dye-Sensitized Solar Cells Assembled with Modified Photoanode and Carbon Nanotubes as Counter Electrode. **2014**, 977, 55-58

Properties and Optimization of Photoanode in Dye-Sensitized Solar Cells. 2014, 602-603, 884-887 1011 Performance Evaluation of Dye Sensitized Solar Cell for Varying TiO2 Thicknesses. 2014, 699, 540-545 1010 2014, 2014, 1-19 1009 Hydrous TiO2 spheres: An excellent platform for the rational design of mesoporous anatase spheres for photoelectrochemical applications. 2014, 230, 197-204 1008 Nanomechanical Analysis of High Performance Materials. 2014, 1007 Size-tunable TiO2 nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 21 2005 CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. 2014, 135, 242-248 1002 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. 2014, 135, 245-292 1003 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 244, 335-342 1001 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 1002 Enhanced photovoltaic applications. 2014, 244, 335-342 1003 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO ananorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 1004 Chemical-photo-electricity diagrams by Ohmil law IR case study of Ni-doped TiO2 solutions in		Counter Electrode. 2014, 911, 55-56		
The Role of Physical Techniques on the Preparation of Photoanodes for Dye Sensitized Solar Cells. 2014, 2014, 1-19 Hydrous TiO2 spheres: An excellent platform for the rational design of mesoporous anatase spheres for photoelectrochemical applications. 2014, 230, 197-204 1008 Nanomechanical Analysis of High Performance Materials. 2014, Size-tunable TiO2 nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 2014, 135, 242-248 1005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 22 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. 2014, 115, 255-262 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. 2014, 136, 2014, 136, 2014, 136, 2014, 136, 2014, 136, 2014, 136, 2014, 2	1012	Properties and Optimization of Photoanode in Dye-Sensitized Solar Cells. 2014 , 602-603, 884-887		
Hydrous TiO2 spheres: An excellent platform for the rational design of mesoporous anatase spheres for photoelectrochemical applications. 2014, 230, 197-204 1008 Nanomechanical Analysis of High Performance Materials. 2014, 1007 Size-tunable TiO2 nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 13 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 21 1005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. 2014, 138, 301-305 1002 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 1001 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 67 33	1011	Performance Evaluation of Dye Sensitized Solar Cell for Varying TiO2 Thicknesses. 2014 , 699, 540-545		
spheres for photoelectrochemical applications. 2014, 230, 197-204 1008 Nanomechanical Analysis of High Performance Materials. 2014, 1007 Size-tunable TiO2 nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 13 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 2014, 135, 242-248 1005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 1002 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 1001 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 6.7 33	1010			30
Size-tunable TiO2 nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 13 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 2014, 135, 242-248 1005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 1002 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 1001 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 67 33	1009			30
enhance the performance of dye-sensitized solar cells. 2014, 117, 268-275 13 1006 Zn2SnO4-Based Dye-Sensitized Solar Cells: Insight into Dye-Selectivity and Photoelectric Behaviors. 2014, 135, 242-248 1005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 1004 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 22 1003 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 6.7 11 1002 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 1001 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 67 33	1008	Nanomechanical Analysis of High Performance Materials. 2014,		2
21 2014, 135, 242-248 21 2005 Photoanodes with mesoporous TiO2 beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. 2014, 135, 284-292 22 23 24 25 Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 22 23 24 25 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 26 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 26 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 27 20 2014, 590, 33-40 28 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 29 30 30 30 30 30 30 30 30 30 30 30 30 30	1007			13
Preparation of hierarchical TiO2 films with uniformly or gradually changed pore size for use as photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 Fabrication of the protonated pentatitanate nanobelts sensitized with CulnS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 23 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 6.7 33	1006			21
photoelectrodes in dye-sensitized solar cells. 2014, 115, 255-262 Synthesis of monodisperse colloidal TiO2 microspheres and performance of their dye-sensitized solar cells. Applied Surface Science, 2014, 308, 301-305 Fabrication of the protonated pentatitanate nanobelts sensitized with CuInS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 23 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 6.7 33	1005			39
solar cells. Applied Surface Science, 2014, 308, 301-305 Fabrication of the protonated pentatitanate nanobelts sensitized with CuInS2 quantum dots for photovoltaic applications. 2014, 244, 335-342 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 23 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 6.7 33	1004			22
photovoltaic applications. 2014, 244, 335-342 Nanoporous TiO2 aerogel blocking layer with enhanced efficiency for dye-sensitized solar cells. 2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. Applied Surface Science, 2014, 292, 297-300 6.7 33	1003		6.7	11
2014, 590, 33-40 Enhanced photovoltaic performance of dye sensitized solar cells using one dimensional ZnO nanorod decorated porous TiO2 film electrode. <i>Applied Surface Science</i> , 2014, 292, 297-300 6.7 33	1002			21
nanorod decorated porous TiO2 film electrode. <i>Applied Surface Science</i> , 2014 , 292, 297-300	1001			23
Chemical-photo-electricity diagrams by OhmR law 🕰 case study of Ni-doped TiO2 solutions in	1000		6.7	33
dye-sensitized solar cells. 2014 , 118, 12-21	999	Chemical-photo-electricity diagrams by Ohm law [A case study of Ni-doped TiO2 solutions in dye-sensitized solar cells. 2014 , 118, 12-21		12
In situ synthesis of binded, thick and porous carbon nanoparticle dye sensitized solar cell counter electrode with nickel gel as catalyst source. 2014 , 245, 456-462	998			28
Large-scale Synthesis of Urchin-like Mesoporous TiO2 Hollow Spheres by Targeted Etching and Their Photoelectrochemical Properties. 2014 , 24, 95-104	997			189
A Novel Alkoxysilyl Azobenzene Dye Photosensitizer with Alkylamino Group for Dye-Sensitized Solar Cells. 2014 , 6, 123-127	996			7

995	Improving Energy Conversion Efficiency of Dye-Sensitized Solar Cells by Modifying TiO2 Photoanodes with Nitrogen-Reduced Graphene Oxide. 2014 , 2, 1234-1240	50
994	Highly connected hierarchical textured TiO2 spheres as photoanodes for dye-sensitized solar cells. 2014 , 2, 8902-8909	52
993	Tungsten doped titanium dioxide nanowires for high efficiency dye-sensitized solar cells. 2014 , 16, 7448-54	67
992	Simulation on the carrier transport process inside the semiconductor of dye sensitized solar cells by wxAMPS software. 2014 , 125, 218-224	4
991	Kinetics versus Energetics in Dye-Sensitized Solar Cells Based on an Ethynyl-Linked Porphyrin Heterodimer. 2014 , 118, 1426-1435	13
990	A novel trigeminal zinc porphyrin and corresponding porphyrin monomers for dye-sensitized solar cells. 2014 , 4, 10439	7
989	Effect of TiOx compact layer with varied components on the performance of dye-sensitized solar cells. 2014 , 594, 211-216	8
988	Physicochemical Investigation of the Panchromatic Effect on ESubstituted ZnII Porphyrinates for DSSCs: The Role of the Ebridge between a Dithienylethylene Unit and the Porphyrinic Ring. 2014 , 118, 7307-7320	25
987	DFT study of the effect of different metals on structures and electronic spectra of some organic-metal compounds as sensitizing dyes. 2014 , 116, 263-273	
986	Efficient Bio-Nano Hybrid Solar Cells via Purple Membrane as Sensitizer. 2014 , 4, 71-77	15
985	Clean and time-effective synthesis of anatase TiO 2 nanocrystalline by microwave-assisted solvothermal method for dye-sensitized solar cells. 2014 , 247, 444-451	19
984	Titanium dioxide-coated fluorine-doped tin oxide thin films for improving overall photoelectric property. <i>Applied Surface Science</i> , 2014 , 290, 80-85	19
983	Analysis of electron transfer properties of ZnO and TiO2 photoanodes for dye-sensitized solar cells. 2014 , 8, 2261-8	284
982	Light harvesting and photocurrent generation by nanostructured photoelectrodes sensitized with a photosynthetic pigment: a new application for microalgae. 2014 , 163, 1-5	15
981	New diketopyrrolopyrrole-based organic dyes for highly efficient dye-sensitized solar cells. 2014 , 15, 1579-1585	12
980	Mechanisms of electron transport and recombination in ZnO nanostructures for dye-sensitized solar cells. 2014 , 15, 1088-97	15
979	Effect of self-assembly on triiodide diffusion in water based polymer gel electrolytes: an application in dye solar cell. 2014 , 425, 110-7	35
978	Electrolytes for quasi solid-state dye-sensitized solar cells based on block copolymers. 2014 , 52, 719-727	21

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977	A new in-situ preparation method to CuS electrodes for CdS/CdSe co-sensitized solar cells. 2014 , 127, 180-185		33
976	A high-efficiency solid-state dye-sensitized solar cell with P3HT polymer as a hole conductor and an assistant sensitizer. 2014 , 15, 71-76		8
975	Lead-free solid-state organic[horganic halide perovskite solar cells. 2014 , 8, 489-494		1966
974	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. 2014 , 14, 1190-5		40
973	Dye Self-Association Identified by Intermolecular Couplings between Vibrational Modes As Revealed by Infrared Spectroscopy, and Implications for Electron Injection. 2014 , 118, 5854-5861		30
972	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400217	21.8	37
971	Solution processable titanium dioxide precursor and nanoparticulated ink: application in Dye Sensitized Solar Cells. 2014 , 416, 112-8		10
970	Sub-nanometer conformal TiOlblocking layer for high efficiency solid-state perovskite absorber solar cells. 2014 , 26, 4309-12		136
969	Titanium dioxide nanomaterials for photovoltaic applications. 2014 , 114, 10095-130		567
968	TiO2 nanoparticles as functional building blocks. 2014 , 114, 9283-318		340
967	The dye adsorption optimization of ZnO nanorod-based dye-sensitized solar cells. 2014, 105, 14-19		36
966	Tailoring the morphology of mesoporous titania thin films through biotemplating with nanocrystalline cellulose. 2014 , 136, 5930-7		90
965	Preparation of High Transmittance Platinum Counter Electrode at an Ambient Temperature for Flexible Dye-Sensitized Solar Cells. 2014 , 135, 578-584		25
964	Photovoltaic Characterization and Electrochemical Impedance Spectroscopy Analysis of Dye-Sensitized Solar Cells Based on Composite TiO2MWCNT Photoelectrodes. 2014 , 43, 1450-1459		17
963	TiO2 doped with different ratios of graphene and optimized application in CdS/CdSe quantum dot-sensitized solar cells. <i>Materials Letters</i> , 2014 , 124, 161-164	3.3	16
962	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. 2014 , 77, 18-24		23
961	Preparation of large diameter and low density ZnS microtube arrays via a sacrificial template method. <i>Materials Letters</i> , 2014 , 115, 140-143	3.3	5
960	TiO2 nanorods: a facile size- and shape-tunable synthesis and effective improvement of charge collection kinetics for dye-sensitized solar cells. 2014 , 6, 9698-704		33

959	Multistack integration of three-dimensional hyperbranched anatase titania architectures for high-efficiency dye-sensitized solar cells. 2014 , 136, 6437-45	210
958	A tetrahydropyrene-based organic dye for solar cell application. 2014 , 4, 22181	4
957	Interfacial engineering for dye-sensitized solar cells. 2014 , 2, 5167	58
956	Influence of conjugated linker in D DA indoline dyes: towards long-term stable and efficient dye-sensitized solar cells with high photovoltage. 2014 , 2, 804-812	67
955	A review on counter electrode materials in dye-sensitized solar cells. 2014 , 2, 4474-4490	411
954	High-Efficiency Solar Cells. 2014 ,	16
953	Dielectric coreEhells with enhanced scattering efficiency as back-reflectors in dye sensitized solar cells. 2014 , 4, 3621-3626	17
952	High performance solid-state dye-sensitized solar cells based on poly(acrylonitrile- co -vinyl acetate)/TiO 2 nanoparticles redox electrolytes. 2014 , 247, 406-411	26
951	2% ZnO increases the conversion efficiency of TiO2 based dye sensitized solar cells by 12%. 2014 , 583, 414-418	4
950	High efficiency electrospun TiOlhanofiber based hybrid organic-inorganic perovskite solar cell. 2014 , 6, 1675-9	163
949	Bandgap tuning by using a lattice distortion induced by two symmetries that coexist in a quantum dot. 2014 , 10, 1300-7	10
948	On global energy scenario, dye-sensitized solar cells and the promise of nanotechnology. 2014 , 16, 6838-58	76
947	Ag2S quantum dot-sensitized WO3 photoelectrodes for solar cells. 2014 , 18, 1627-1633	34
946	Highly efficient porphyrin-sensitized solar cells with enhanced light harvesting ability beyond 800 nm and efficiency exceeding 10%. 2014 , 7, 1392	128
945	Organic dyes incorporating a thiophene or furan moiety for efficient dye-sensitized solar cells. 2014 , 104, 75-82	20
944	Cuprous sulfide counter electrodes prepared by ion exchange for high-efficiency quantum dot-sensitized solar cells. 2014 , 2, 2807	58
943	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. 2014 , 6, 242-7	3560
942	Novel coreBhell TiO2 microsphere scattering layer for dye-sensitized solar cells. 2014 , 2, 1502-1508	41

941	Ultra-long anatase TiO2 nanowire arrays with multi-layered configuration on FTO glass for high-efficiency dye-sensitized solar cells. 2014 , 7, 644-649	155
940	Review on the development of natural dye photosensitizer for dye-sensitized solar cells. 2014 , 31, 386-396	245
939	Fabrication of Flexible Plastic Solid-State Dye-Sensitized Solar Cells Using Low Temperature Techniques. 2014 , 118, 16352-16357	15
938	Development of Cu2S/carbon composite electrode for CdS/CdSe quantum dot sensitized solar cell modules. 2014 , 120, 454-461	49
937	Bibliography. 2014 , 173-184	
936	Sensitized Zinctobalttoxide Spinel p-Type Photoelectrode. 2014 , 118, 25340-25349	15
935	Panchromatic enhancement of light-harvesting efficiency in dye-sensitized solar cells using thermally annealed Au@SiOItriangular nanoprisms. 2014 , 30, 14352-9	31
934	Efficiency improvement of CdS and CdSe quantum dot-sensitized solar cells by TiO2 surface treatment. 2014 , 6, 023107	8
933	Influence of a co-adsorbent on the performance of bis(diimine) copper(I)-based dye-sensitized solar cells. 2014 , 4, 62728-62736	23
932	EFFECTS OF TiO2 PARTICLE SIZE ON THE PERFORMANCE OF DYE-SENSITIZED SOLAR CELLS USING IONIC LIQUID ELECTROLYTES. 2014 , 09, 1440010	5
931	Surface modification of dye-sensitized solid-state solar cells by plasma jet. 2014 , 518, 012024	1
930	Halos show the path to perfection: peripheral iodo-substituents improve the efficiencies of bis(diimine)copper(I) dyes in DSCs. 2014 , 4, 48712-48723	36
929	Synthesis of TiO2 hollow spheres using titanium tetraisopropoxide: fabrication of high efficiency dye sensitized solar cells with photoanodes of different nanocrystalline TiO2 sub-layers. 2014 , 4, 58064-58076	5 ²⁰
928	Engineering diketopyrrolopyrrole sensitizers for highly efficient dye-sensitized solar cells: enhanced light harvesting and intramolecular charge transfer. 2014 , 4, 16906-16912	10
927	Construction of a photoanode with varied TiO2 nanostructures for a Z907-sensitized solar cell with efficiency exceeding 10%. 2014 , 2, 8749-8757	8
926	High electrocatalytic activity of W18O49 nanowires for cobalt complex and ferrocenium redox mediators. 2014 , 4, 42190-42196	5
925	Power from the sun: Perovskite solar cells. 2014 ,	4
924	Improvement of photovoltaic performance of DSSCs by modifying panchromatic zinc porphyrin dyes with heterocyclic units. 2014 , 2, 20841-20848	11

923	High surface area TiO2 nanoparticles by a freeze-drying approach for dye-sensitized solar cells. 2014 , 4, 36821-36827		18
922	Progress in flexible dye solar cell materials, processes and devices. 2014 , 2, 10788-10817		121
921	Building smart TiO2 nanorod networks in/on the film of P25 nanoparticles for high-efficiency dye sensitized solar cells. 2014 , 4, 12944-12949		18
920	Factors controlling the photoresponse of copper(I) diimine dyes containing hole-transporting dendrons in dye-sensitized solar cells: substituent and solvent effects. 2014 , 4, 34801-34815		25
919	Distance dependent charge separation and recombination in semiconductor/molecular catalyst systems for water splitting. 2014 , 50, 12768-71		44
918	Band alignment by ternary crystalline potential-tuning interlayer for efficient electron injection in quantum dot-sensitized solar cells. 2014 , 2, 7004-7014		23
917	Monodisperse TiO2 mesoporous spheres with coreEhell structure: candidate photoanode materials for enhanced efficiency dye sensitized solar cells. 2014 , 4, 23396		17
916	Tuning the crystallinity parameters in macroporous titania films. 2014 , 2, 6504		18
915	Pyrazino[2,3-g]quinoxaline dyes for solar cell applications. 2014 , 2, 14852-14857		25
914	Synthesis of micrometer-sized hierarchical rutile TiO2 flowers and their application in dye sensitized solar cells. 2014 , 4, 36791-36799		27
913	Size and concentration effects of gold nanoparticles on optical and electrical properties of plasmonic dye sensitized solar cells. 2014 , 109, 11-23		61
912	The optimisation of dye sensitised solar cell working electrodes for graphene and SWCNTs containing quasi-solid state electrolytes. 2014 , 110, 239-246		16
911	Photocurrent enhancement by surface plasmon resonance of gold nanoparticles in spray deposited large area dye sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 568, 74-80	2.2	22
910	Ultrathin hematite films deposited layer-by-layer on a TiO 2 underlayer for efficient water splitting under visible light. 2014 , 39, 14604-14612		24
909	Charge transport through split photoelectrodes in dye-sensitized solar cells. 2014 , 115, 164509		15
908	Photoelectrochemical Properties of LaFeO3 Nanoparticles. 2014 , 1, 1667-1671		42
907	Substrate-controlled band positions in CHNHPbliperovskite films. 2014 , 16, 22122-30		152
906	Spray deposited copper zinc tin sulphide (Cu2ZnSnS4) film as a counter electrode in dye sensitized solar cells. 2014 , 16, 23993-9		64

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887	The light and shade of perovskite solar cells. 2014 , 13, 838-42	1600
886	Low crystallinity TiO2 film with inherent low oxygen vacancy for sensitized solar cells. 2014 , 441, 121-127	18
885	Environmentally responsible fabrication of efficient perovskite solar cells from recycled car batteries. 2014 , 7, 3659-3665	79
884	Low toxicity functionalised imidazolium salts for task specific ionic liquid electrolytes in dye-sensitised solar cells: a step towards less hazardous energy production. 2014 , 16, 2252-2265	38
883	Effect of acidic additives on the structure and performance of TiO 2 films prepared by a commercial nanopowder for dye-sensitized solar cells. 2014 , 72, 164-173	23
882	The evolution of the dye sensitized solar cells from Græzel prototype to up-scaled solar applications: A life cycle assessment approach. 2014 , 39, 124-138	105
881	Improved performance of CdS/CdSe quantum dots sensitized solar cell by incorporation of ZnO nanoparticles/reduced graphene oxide nanocomposite as photoelectrode. 2014 , 271, 195-202	27
880	Anatase TiO2 with nanopores for dye-sensitized solar cells. 2014 , 16, 23038-43	9
879	Bi-functional lithium doping in dye-sensitized solar cells. 2014 , 109, 111-117	5
878	Comparison of Solid-State Quantum-Dot-Sensitized Solar Cells with ex Situ and in Situ Grown PbS Quantum Dots. 2014 , 118, 25853-25862	22
877	Sputter-Deposited AlTiO Thin Films for Semi-Transparent Silicon Thin Film Solar Cells. 2014 , 43, 3204-3210	8
876	A perspective on the production of dye-sensitized solar modules. 2014, 7, 3952-3981	325
875	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dye-Sensitized Solar Cells. 2014 , 24, 1615-1623	92
874	Investigation of the regeneration kinetics of organic dyes with pyridine ring anchoring groups by scanning electrochemical microscopy. 2014 , 4, 51374-51380	10
873	Plasmonic light harvesting of dye sensitized solar cells by Au-nanoparticle loaded TiO2 nanofibers. 2014 , 2, 975-984	81
872	Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. 2014 , 8, 10597-605	127
871	Design of multi-layered TiO2 nanotube/nanoparticle hybrid structure for enhanced efficiency in dye-sensitized solar cells. 2014 , 4, 45180-45184	9
870	Double-Layer TiO2 Electrodes with Controlled Phase Composition and Morphology for Efficient Light Management in Dye-Sensitized Solar Cells. 2014 , 25, 1029-1045	14

(2014-2014)

869	TiO2 and TiO2/SiO2 nanoparticles obtained by solgel method and applied on dye sensitized solar cells. 2014 , 72, 273-281		17
868	Effects of Oxide Nanoparticle Size and Shape on Electronic Structure, Charge Transport, and Recombination in Dye-Sensitized Solar Cell Photoelectrodes. 2014 , 118, 16791-16798		37
867	Effects of Graphene in Graphene/TiO2 Composite Films Applied to Solar Cell Photoelectrode. 2014 , 118, 9974-9981		59
866	Photovoltaic performance improvement of dye-sensitized solar cells through introducing In-doped TiO2 film at conducting glass and mesoporous TiO2 interface as an efficient compact layer. 2014 , 129, 276-282		20
865	A simple annealing process to obtain highly transparent and conductive indium doped tin oxide for dye-sensitized solar cells. 2014 , 40, 3445-3451		25
864	Dye-sensitized solar cells with titania concave mirror. 2014 , 50, 221-226		1
863	Synthesis of nickel sulfides of different phases for counter electrodes in dye-sensitized solar cells by a solvothermal method with different solvents. 2014 , 29, 935-941		27
862	A Facial One-Pot Synthesis of Hierarchical TiO2Nanourchins for Highly Efficient Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H627-H632	3.9	10
861	Benzonitrile based electrolytes for best operation of dye sensitized solar cells. 2014 , 269, 308-316		14
860	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. 2014 , 5, 501-5		15
859	Dye sensitization of a large band gap semiconductor by an iron(III) complex. 2014 , 39, 641-646		5
858	Effect of hexamethylenetetramines (HMT) surfactant concentration on the performance of TiO2 nanostructure photoelectrochemical cells. 2014 , 50, 974-980		7
857	On the role of metal contacts in solar cells based on titanium dioxide and di-(isothiocyanate)-bis-(2,2?-bipyridyl-4,4?-dicarboxylate)ruthenium(II). 2014 , 48, 683-685		1
856	Versatile photocatalytic systems for H2 generation in water based on an efficient DuBois-type nickel catalyst. 2014 , 136, 356-66		199
855	Non-toxic silver iodide (AgI) quantum dots sensitized solar cells. 2014 , 60, 38-45		15
854	Enhanced photovoltaic performance with co-sensitization of quantum dots and an organic dye in dye-sensitized solar cells. 2014 , 2, 18375-18382		23
853	Substituting TiCl4tarbon Nanohorn Interfaces for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301577	21.8	19
852	Co-grafting of surfactants: a facile and effective method for the performance enhancement of plastic crystal based solid-state dye-sensitized solar cells. 2014 , 2, 9803		11

851	Facile water-based spray pyrolysis of earth-abundant Cu2FeSnS4 thin films as an efficient counter electrode in dye-sensitized solar cells. 2014 , 6, 17661-7		90
850	Thermal stability of the DSC ruthenium dye C106 in robust electrolytes. 2014 , 110, 96-104		14
849	Submicrometer@nano Bimodal TiO2Particles as Easily Sintered, Crack-Free, and Current-Contributed Scattering Layers for Dye-Sensitized Solar Cells. 2014 , 118, 16951-16958		5
848	Application of 3A molecular sieve layer in dye-sensitized solar cells. 2014 , 105, 083907		3
847	Promising alkoxy-wrapped porphyrins with novel pushpull moieties for dye-sensitized solar cells. 2014 , 2, 14883-14889		16
846	A 2,7-pyrene-based dye for solar cell application. 2014 , 38, 4404		34
845	Hybrid photoelectrode by using vertically aligned rutile TiO2 nanowires inlaid with anatase TiO2 nanoparticles for dye-sensitized solar cells. 2014 , 143, 1440-1445		4
844	Annealing induced changes in the structure, optical and electrical properties of GeTiO2 nanostructured films. <i>Applied Surface Science</i> , 2014 , 309, 168-174	6.7	11
843	In-situ synthesis of TiO2 network nanoporous structure on Ti wire substrate and its application in fiber dye sensitized solar cells. 2014 , 245, 59-65		29
842	Thickness effect of the TiO2 nanofiber scattering layer on the performance of the TiO2 nanoparticle/TiO2 nanofiber-structured dye-sensitized solar cells. 2014 , 14, 856-861		18
841	Ultrathin SnO2 layer for efficient carrier collection in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 556, 503-508	2.2	21
840	One-pot easily-processed TiO2 macroporous photoanodes (Ti-HIPE) for dye-sensitized solar cells. 2014 , 28, 81-89		5
839	Development of scanning electrochemical microscopy (SECM) techniques for the optimization of dye sensitized solar cells. 2014 , 119, 86-91		12
838	Efficient Ternary CdSSe Quantum-Dot-Sensitized Solar Cells based on MgO-coated TiO2 Nanoparticles. 2014 , 2, 526-530		7
837	Highly Efficient Dye-sensitized Solar Cells by Co-sensitization of Organic Dyes and Co-adsorbent Chenodeoxycholic Acid. 2014 , 32, 474-478		8
836	2-Diphenylaminothiophene as the donor of porphyrin sensitizers for dye-sensitized solar cells. 2014 , 38, 3227-3235		40
835	Multi-functionality of macroporous TiO2 spheres in dye-sensitized and hybrid heterojunction solar cells. 2014 , 30, 3010-8		35
834	Scalable low-cost SnS(2) nanosheets as counter electrode building blocks for dye-sensitized solar cells. 2014 , 20, 8670-6		66

833	High-Surface-Area Porous Platinum Electrodes for Enhanced Charge Transfer. <i>Advanced Energy Materials</i> , 2014 , 4, 1400510	22
832	Hole-Conductor-Free Mesoscopic TiO2/CH3NH3PbI3 Heterojunction Solar Cells Based on Anatase Nanosheets and Carbon Counter Electrodes. 2014 , 5, 2160-4	211
831	Low-temperature synthesis of size-controllable anatase TiO2 microspheres and interface optimization of bi-layer anodes for high efficiency dye sensitized solar cells. 2014 , 137, 17-25	14
830	Printable highly catalytic Pt- and TCO-free counter electrode for dye-sensitized solar cells. 2014 , 6, 2224-9	32
829	Optimization of TiO2 photoanode films for highly efficient quantum dot-sensitized solar cells. 2014 , 2, 13033	89
828	Ionic liquid-tethered Graphene Oxide/Ionic Liquid Electrolytes for Highly Efficient Dye Sensitized Solar Cells. 2014 , 134, 209-214	35
827	To deprotect or not to deprotect: Phosphonate ester versus phosphonic acid anchor ligands in copper(I)-based dye-sensitized solar cells. 2014 , 82, 116-121	21
826	Cyclopentadithiophene-functionalized Ru(II)-bipyridine sensitizers for dye-sensitized solar cells. 2014 , 82, 132-138	1
825	Highly electrocatalytic activity of RuO[hanocrystals for triiodide reduction in dye-sensitized solar cells. 2014 , 10, 484-92, 483	65
824	Applications of Oxide Coatings in Photovoltaic Devices. 2014 , 4, 162-202	39
823	Enhancement in hydrogen evolution using Au-TiO hollow spheres with microbial devices modified with conjugated oligoelectrolytes. 2015 , 1, 15020	9
822	TiO2 nanorods and semi-nanotubes prepared from anodic aluminum oxide template and their applications as photoelectrodes in dye-sensitized solar cells. 2015 , 123, 428-432	O
821	Double-layer dye-sensitized solar cells using SrTiO3 and BaTiO3 second layer with enhanced photovoltaic performance. 2015 , 123, 967-971	13
820	Engineering of Self-Organizing Electrochemistry: Porous Alumina and Titania Nanotubes. 2015 , 145-192	3
819	Efficient, Green Non-Aqueous Microwave-Assisted Synthesis of Anatase TiO2 and Pt Loaded TiO2 Nanorods with High Photocatalytic Performance. 2015 , 5, 31	6
818	Solid Solutions of Rare Earth Cations in Mesoporous Anatase Beads and Their Performances in Dye-Sensitized Solar Cells. 2015 , 5, 16785	12
817	Fabrication of dye sensitized solar cells with different photoanode compositions using hydrothermally grown and P25 TiO2nanocrystals. 2015 , 69, 20401	8
816	Efficient Broadband TripletII riplet Annihilation-Assisted Photon Upconversion at Subsolar Irradiance in Fully Organic Systems. 2015 , 25, 5617-5624	70

815	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. 2015 , 27, 7229-35	105
814	Optimization of Titania Post-Necking Treatment of TaON Photoanodes to Enhance Water-Oxidation Activity under Visible-Light Irradiation. 2015 , 2, 1270-1278	14
813	Combining Electron-Accepting Phthalocyanines and Nanorod-like CuO Electrodes for p-Type Dye-Sensitized Solar Cells. 2015 , 127, 7798-7802	16
812	Trifunctional TiO2 Nanoparticles with Exposed {001} Facets as Additives in Cobalt-Based Porphyrin-Sensitized Solar Cells. 2015 , 25, 6093-6100	14
811	Isomer Dependence of Efficiency and Charge Recombination in Dye-Sensitized Solar Cells Using Ru Complex Dyes Bearing Halogen Substituents. 2015 , 2015, 4878-4884	5
810	Combining electron-accepting phthalocyanines and nanorod-like CuO electrodes for p-type dye-sensitized solar cells. 2015 , 54, 7688-92	44
809	Influence of Calcination Temperature on the Performance of TiO2 Films in Dye-Sensitized Solar Cells. 2015 , 1118, 72-76	
808	Enhanced Photocatalytic Activity of Pure Anatase Tio2 and Pt-Tio2 Nanoparticles Synthesized by Green Microwave Assisted Route. 2015 , 18, 473-481	59
807	Interface Dependent Plasmon Induced Enhancement in Dye-Sensitized Solar Cells Using Gold Nanoparticles. 2015 , 2015, 1-9	2
806	A Comparison of the Performances of Different Mesoporous Titanias in Dye-Sensitized Solar Cells. 2015 , 2015, 1-8	9
805	Applications of Mesoporous Ordered Semiconductor Materials ICase Study of TiO2. 2015,	3
804	Enhanced dye-sensitized solar cell photocurrent and efficiency using a Y-shaped, pyrazine-containing heteroaromatic sensitizer linkage. 2015 , 17, 15788-96	13
803	Assembly of a high-scattering photoelectrode using a hybrid nano-TiO2 paste. 2015 , 3, 6645-6651	10
802	Effects of annealing temperature and thickness of nanoparticle ZnO aggregate layers on dye-sensitized solar cell performances. 2015 ,	
801	Phase stability frustration on ultra-nanosized anatase TiO2. 2015 , 5, 10928	33
800	Thiazolo[5,4-d]thiazole-based organic sensitizers with strong visible light absorption for transparent, efficient and stable dye-sensitized solar cells. 2015 , 5, 32657-32668	33
799	Open-top TiO2 nanotube arrays with enhanced photovoltaic and photochemical performances via a micromechanical cleavage approach. 2015 , 3, 14279-14283	13
798	TiO2 nanotube structures for the enhancement of photon utilization in sensitized solar cells. 2015 , 4,	4

(2015-2015)

797	paste synthesized by a polymerizable complex method on the photovoltaic properties of dye-sensitized solar cells. 2015 , 30, 618-624		7
796	A long-term analysis of Pt counter electrodes for Dye-sensitized Solar Cells exploiting a microfluidic housing system. 2015 , 161, 74-83		6
795	DAA featured sensitizers by modification of auxiliary acceptor for preventing B rade-off effect. 2015 , 3, 6882-6890		27
794	Benzodithiophene based organic dyes for DSSC: Effect of alkyl chain substitution on dye efficiency. 2015 , 121, 351-362		19
793	A comparison of the photocatalytic activity between commercial and synthesized mesoporous and nanocrystalline titanium dioxide for 4-nitrophenol degradation: Effect of phase composition, particle size, and addition of carbon nanotubes. <i>Applied Surface Science</i> , 2015 , 359, 293-305	6.7	14
792	Impact of photocatalysis on carotenoic acid dye-sensitized solar cells. 2015 , 2,		2
791	Study of dye sensitized solar cells based on ZnO photoelectrodes deposited by laser ablation and doctor blade methods. <i>Thin Solid Films</i> , 2015 , 597, 206-211	2.2	18
790	Suspension of electronfiole recombination in a dye-sensitized solar cell through simultaneous optimization of micro and electronic structures. 2015 , 26, 1555-1562		2
7 ⁸ 9	Efficiency and Stability Enhancement of Quasi-Solid-State Dye-Sensitized Solar Cells Based on PEO Composite Polymer Blend Electrolytes. 2015 , 1131, 186-192		4
788	Silver nanoparticles-decorated porous silicon as the counter electrode of dye-sensitised solar cell. 2015 , 19, s30-s34		1
787	Atmospheric-pressure-plasma-jet sintered nanoporous SnO2. 2015 , 41, 5478-5483		15
786	Effects of acetyl acetone-typed co-adsorbents on the interface charge recombination in dye-sensitized solar cell photoanodes. 2015 , 154, 190-196		12
7 ⁸ 5	FRET-designed dye-sensitized solar cells to enhance light harvesting. 2015 , 31, 358-362		17
784	Based on Cu(II) silicotungstate modified photoanode with long electron lifetime and enhanced performance in dye sensitized solar cells. 2015 , 278, 527-533		23
783	Anatase-stabilised AlxTi1NO2 photoanodes containing uniform spherical particles for efficient dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015 , 331, 58-65	6.7	9
782	A room-temperature process for fabricating a nano-Pt counter electrode on a plastic substrate for efficient dye-sensitized cells. 2015 , 283, 351-357		15
781	A femtosecond study of the anomaly in electron injection for dye-sensitized solar cells: the influence of isomerization employing Ru(II) sensitizers with anthracene and phenanthrene ancillary ligands. 2015 , 17, 2750-6		13
78o	Photoelectric characterization of fabricated dye-sensitized solar cell using dye extracted from red Siahkooti fruit as natural sensitizer. 2015 , 142, 226-31		52

779	M13 Virus-Enabled Synthesis of Titanium Dioxide Nanowires for Tunable Mesoporous Semiconducting Networks. 2015 , 27, 1531-1540	35
778	Alkyl chain-functionalized hole-transporting domains in zinc(II) dye-sensitized solar cells. 2015 , 116, 124-130	6
777	Electron Kinetics in Dye Sensitized Solar Cells Employing Anatase with (101) and (001) Facets. 2015 , 160, 296-305	11
776	Photochemical formation and photoelectrochemical properties of TiO2/Sb2S3 heterostructures. 2015 , 303-304, 8-16	26
775	Mesoporous titania-vertical nanorod films with interfacial engineering for high performance dye-sensitized solar cells. 2015 , 26, 105401	15
774	Preparation of TiO2-based nanotubes/nanoparticles composite thin film electrodes for their electron transport properties. <i>Thin Solid Films</i> , 2015 , 577, 49-55	6
773	Ultrafast Atmospheric-Pressure-Plasma-Jet Sintering of Nanoporous TiO2-SnO2Composites with Features Defined by Screen-Printing. 2015 , 4, P3020-P3025	7
772	Effect of Annealing on the Morphology, Structure and Photoelectric Properties of AZO/Pt/FTO Trilayer Films. 2015 , 28, 281-288	10
771	Morphological dependence of light backscattering from metallic back reflector films: Application in dye-sensitized solar cells. 2015 , 212, 785-790	2
770	Improving the photocatalytic reduction of CO2 to CO through immobilisation of a molecular Re catalyst on TiO2. 2015 , 21, 3746-54	115
769	Burfaces-as-ligands, surfaces-as-complexesIstrategies for copper(I) dye-sensitized solar cells. 2015 , 115, 154-165	24
768	Synthesis of pushBull porphyrin with two electron-donating and two electron-withdrawing groups and its application to dye-sensitized solar cell. 2015 , 19, 140-149	13
767	High-Efficiency FTO-Free Counter Electrodes for Dye-Sensitized Solar Cells Based on Low-Pt-Doped Carbon Nanosheets. 2015 , 150126074722001	20
766	Fabrication of Au@Ag core/shell nanoparticles decorated TiO2 hollow structure for efficient light-harvesting in dye-sensitized solar cells. 2015 , 7, 2055-63	85
765	A redox-flow electrochromic window. 2015 , 7, 2827-32	33
764	Enhanced photovoltaic and photoelectrocatalytic properties by free-standing TiO2 nanotubes via anodization. 2015 , 19, 1151-1160	5
763	Carbonaceous Dye-Sensitized Solar Cell Photoelectrodes. 2015 , 2, 1400025	37
762	Hydrothermal synthesis of TiO2 nanocrystals in different basic pHs and their applications in dye sensitized solar cells. 2015 , 70, 113-120	12

(2015-2015)

761	improved durability or dye-sensitized solar cell with H2-reduced carbon counter electrode. 2015 , 274, 1276-1282	17
760	Multifunctional alumina/titania hybrid blocking layer modified nanocrystalline titania films as efficient photoanodes in dye sensitized solar cells. 2015 , 282, 596-601	34
759	Mixed P25 nanoparticles and large rutile particles as a top scattering layer to enhance performance of nanocrystalline TiO2 based dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015 , 337, 188-194	26
75 ⁸	Facile preparation of anatase-stabilised gels using niobium chloride for efficient dye-sensitized solar cells. 2015 , 26, 3409-3416	5
757	Design of TiO2 dye-sensitized solar cell photoanode electrodes with different microstructures and arrangement modes of the layers. 2015 , 76, 666-678	19
756	An investigation on the effect of electrodeposited nanostructured ZnO on the electron transfer process efficiency of TiO2 based DSSC. 2015 , 40, 285-292	37
755	Enhanced Dye-Sensitized Solar Cells with Catalytic Carbon Aerogel Counter Electrodes. 2015 , 174, 871-874	14
754	A new strategy on utilizing nitrogen doped TiO 2 in nanostructured solar cells: Embedded multifunctional N-TiO 2 scattering particles in mesoporous photoanode. 2015 , 72, 64-69	9
753	Low-cost carbon-based counter electrodes for dye sensitized solar cells. 2015 , 2, 075502	2
75 ²	Highly-ordered arrays of TiO2 thin film for dye-sensitized solar cells fabricated by anodic oxidation process. 2015 , 16, 1251-1255	4
751	Near-infrared squaraine sensitizers bearing benzo[c,d]indolenine as an acceptor moiety. 2015 , 122, 160-167	14
750	New ruthenium complexes (Ru[3+2+1]) bearing Eextended 4-methylstyryl terpyridine and unsymmetrical bipyridine ligands for DSSC applications. 2015 , 435, 46-52	7
749	An in-depth review on the role of carbon nanostructures in dye-sensitized solar cells. 2015 , 3, 17914-17938	81
748	Novel organic dyes with anchoring group of barbituric/thiobarbituric acid and their application in dye-sensitized solar cells. 2015 , 209, 1-10	29
747	Fluorine doped tin oxide film with high haze and transmittance prepared for dye-sensitized solar cells. 2015 , 54, 08KF03	11
746	Hierarchical TiO2 submicron-sized spheres for enhanced power conversion efficiency in dye-sensitized solar cells. 2015 , 70, 928-934	8
745	The influence of morphology of hematite (Fe2O3) counter electrodes on the efficiency of dye-sensitized solar cells. 2015 , 119, 45-53	48
744	Poly(ionic liquid)/ionic liquid/graphene oxide composite quasi solid-state electrolytes for dye sensitized solar cells. 2015 , 5, 57216-57222	25

743	One pot synthesis of multi-functional tin oxide nanostructures for high efficiency dye-sensitized solar cells. 2015 , 646, 32-39	12
742	Nanocellulose-Templated Porous Titania Scaffolds Incorporating Presynthesized Titania Nanocrystals. 2015 , 27, 6205-6212	21
741	Smart photovoltaics based on dye-sensitized solar cells using photochromic spiropyran derivatives as photosensitizers. 2015 , 5, 057154	10
740	Well-connected TiO2 nanocrystals via solid-state reaction for dye-sensitized solar cells. 2015 , 176, 480-487	6
739	The Effect of Electrolyte Purification on the Performance and Long-Term Stability of Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H661-H670	18
738	Facile modified cyclic electrophoretic deposition of hydrothermally prepared TiO2 nanocrystals and their application in dye sensitized solar cells. 2015 , 646, 264-270	6
737	Synthesis of Catecholate Ligands with Phosphonate Anchoring Groups. 2015 , 54, 7571-8	7
736	Three-dimensional hyperbranched TiO2/ZnO heterostructured arrays for efficient quantum dot-sensitized solar cells. 2015 , 3, 14826-14832	44
735	Tin oxide as a photoanode for dye-sensitised solar cells: Current progress and future challenges. 2015 , 293, 1039-1052	87
734	SnO2 nanoarrays for energy storage and conversion. 2015 , 17, 5593-5604	22
733	Electroabsorption spectra of pushpull porphyrins in solution and in solid films. 2015 , 19, 527-534	
732	One-Step Fabrication of Nanocomposite Thin Films of PTFE in SiOx for Repelling Water. 2015 , 17, 474-482	12
731	Highly transparent ultrathin metal sulfide films as efficient counter electrodes for bifacial dye-sensitized solar cells. 2015 , 170, 39-47	30
730	Monodentate pyrazole as a replacement of labile NCS for Ru (II) photosensitizers: Minimum	18
	electron injection free energy for dye-sensitized solar cells. 2015 , 120, 93-98	10
729	electron injection free energy for dye-sensitized solar cells. 2015 , 120, 93-98 Nitrogen-doped submicron-size TiO2 particles as bifunctional light scatterers in dye-sensitized solar cells. 2015 , 119, 1283-1290	11
	Nitrogen-doped submicron-size TiO2 particles as bifunctional light scatterers in dye-sensitized	
729	Nitrogen-doped submicron-size TiO2 particles as bifunctional light scatterers in dye-sensitized solar cells. 2015 , 119, 1283-1290 DAA featured sensitizers containing an auxiliary acceptor of benzoxadiazole: molecular	11

(2015-2015)

725	Nanocomposite TiO2 xerogel film for DSSC photoelectrode via simple modified solgel process. 2015 , 75, 63-73	1
724	Improved photovoltaic performance of dye-sensitized solar cells by carbon-ion implantation of tri-layer titania film electrodes. 2015 , 34, 34-39	7
723	Comparison of photovoltaic performance of TiO2 nanoparticles based thin films via different routes. 2015 , 08, 1550023	4
722	Morphological control of TiO2 anatase nanoparticles: What is the good surface property to obtain efficient photocatalysts?. 2015 , 174-175, 350-360	59
721	Electrospun TiO2nanofibers incorporated with graphene nanoflakes for energy conversion. 2015,	
720	A versatile binder-free TiO2 paste for dye-sensitized solar cells. 2015 , 5, 29513-29523	6
719	Nitrogen-doped graphene as a cathode material for dye-sensitized solar cells: effects of hydrothermal reaction and annealing on electrocatalytic performance. 2015 , 5, 10430-10439	56
718	Alloying effect on performances of bimetallic AgAu cluster sensitized solar cells. 2015, 632, 845-848	18
717	Guided in Situ Polymerization of MEH-PPV in Mesoporous Titania Photoanodes. 2015 , 7, 10356-64	1
716	Polypyridyl Ru(II)-derivatized polypropylacrylate polymer with a terminal water oxidation catalyst. Application of reversible addition-fragmentation chain transfer polymerization. 2015 , 44, 8640-8	13
715	Effect of the nature of cationic precursors for SILAR deposition on the performance of CdS and PbS/CdS quantum dot-sensitized solar cells. 2015 , 17, 1	10
714	Carbon Nanotubes for Dye-Sensitized Solar Cells. 2015 , 11, 2963-89	103
713	Bilayer TiO2 photoanode consisting of a nanowireflanoparticle bottom layer and a spherical voids scattering layer for dye-sensitized solar cells. 2015 , 39, 4845-4851	19
712	Performance Enhancement of Dye-Sensitized Solar Cells Based on TiOlThick Mesoporous Photoanodes by Morphological Manipulation. 2015 , 31, 11659-70	17
711	High-performance flexible dye-sensitized solar cells by using hierarchical anatase TiO2 nanowire arrays. 2015 , 5, 88052-88058	19
710	Bio-nano hybrid materials based on bacteriorhodopsin: Potential applications and future strategies. 2015 , 225, 194-202	28
709	TEOS/Silane-Coupling Agent Composed Double Layers Structure: A Novel Super-hydrophilic Surface. 2015 , 75, 349-354	14
708	Highly efficient cosensitization of DAA benzotriazole organic dyes with porphyrin for panchromatic dye-sensitized solar cells. 2015 , 3, 11144-11150	35

707	Fabrication of TiO2 compact layer precursor at various reaction times for dye sensitized solar cells. 2015 , 55, 2208-2212		6
706	The role of printing techniques for large-area dye sensitized solar cells. 2015 , 30, 104003		65
705	Improved dispersion ability of TiO2 nanoparticles for efficient dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015 , 357, 1658-1665	6.7	1
704	Technical requirements, manufacturing processes and cost efficiency for transparent electrodes based on silver nanowires and carbon nanotubes. 2015 ,		2
703	Surface modification of titania aerogel films by oxygen plasma treatment for enhanced dye adsorption. <i>Thin Solid Films</i> , 2015 , 595, 164-170	2.2	30
702	Deposition of transparent TiO2 nanotubes-films via electrophoretic technique for photovoltaic applications. 2015 , 58, 785-790		17
701	A new method for improving the performance of dye sensitized solar cell using macro-porous silicon as photoanode. 2015 , 22, 1617-1626		10
700	Fabricating CuS counter electrode for quantum dots-sensitized solar cells via electro-deposition and sulfurization of Cu 2 O. 2015 , 178, 329-335		24
699	Microwave-assisted synthesis of titanium dioxide nanocrystalline for efficient dye-sensitized and perovskite solar cells. 2015 , 120, 345-356		28
698	Enhanced performance of dye-sensitized solar cells with dual-function coadsorbent: reducing the surface concentration of dye-iodine complexes concomitant with attenuated charge recombination. 2015 , 17, 22985-90		18
697	Dye aggregation identified by vibrational coupling using 2D IR spectroscopy. 2015 , 142, 212449		40
696	Copper(I)-based dye-sensitized solar cells with sterically demanding anchoring ligands: bigger is not always better. 2015 , 5, 48516-48525		23
695	Compositionally-tunable mechanochemical synthesis of ZnxCo3½O4 nanoparticles for mesoporous p-type photocathodes. 2015 , 3, 21990-21994		13
694	Copper iodide as inorganic hole conductor for perovskite solar cells with different thickness of mesoporous layer and hole transport layer. <i>Applied Surface Science</i> , 2015 , 357, 2234-2240	6.7	46
693	Effect of Anatase Synthesis on the Performance of Dye-Sensitized Solar Cells. 2015, 10, 991		12
692	Simple Triphenylamine-Based Hole-Transporting Materials for Perovskite Solar Cells. 2015 , 182, 733-74	1	51
691	Photoelectrochemical characterization of squaraine-sensitized nickel oxide cathodes deposited via screen-printing for p -type dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015 , 356, 911-920	6.7	36
690	Fabrication and integration of quasi-one-dimensional hierarchical TiO2 nanotubes for dye-sensitized solar cells. 2015 , 17, 8327-8331		9

689	Hierarchically mesoporous/macroporous structured TiO2 for dye-sensitized solar cells. 2015 , 5, 74557-74561	13
688	Ultrafast atmospheric-pressure-plasma-jet processed conductive plasma-resistant Y 2 O 3 /carbon-nanotube nanocomposite. 2015 , 651, 357-362	15
687	The beneficial effects of trifluoromethyl-substituents on the photoconversion efficiency of copper(I) dyes in dye-sensitized solar cells. 2015 , 5, 58694-58703	25
686	Statistical TiO2/dye-mass dependence and dye-regeneration efficiency on dye-sensitized solar cells. 2015 , 16, 383-388	3
685	Effects of multilayer coating and calcination procedures on the morphology of dye-sensitized solar cell semiconductor photoelectrodes. <i>Thin Solid Films</i> , 2015 , 590, 230-240	3
684	Facile preparation of hierarchical TiO2 nanowireBanoparticle/nanotube architecture for highly efficient dye-sensitized solar cells. 2015 , 3, 20366-20374	23
683	Systematic Investigations on the Roles of the Electron Acceptor and Neighboring Ethynylene Moiety in Porphyrins for Dye-Sensitized Solar Cells. 2015 , 7, 21956-65	67
682	Effects of photoanode structure on the performance of flexible dye-sensitized solar cell having a Ti substrate. <i>Applied Surface Science</i> , 2015 , 356, 868-874	6
681	Graphene and Ag nanowires co-modified photoanodes for high-efficiency dye-sensitized solar cells. 2015 , 122, 966-975	12
680	Polymorphic phase study on nitrogen-doped TiO2 nanoparticles: effect on oxygen site occupancy, dye sensitized solar cells efficiency and hydrogen production. 2015 , 5, 101276-101286	16
679	Porphyrins Containing a Triphenylamine Donor and up to Eight Alkoxy Chains for Dye-Sensitized Solar Cells: A High Efficiency of 10.9%. 2015 , 7, 27976-85	120
678	Phosphotungstic acid and WO3 incorporated TiO2 thin films as novel photoanodes in dye-sensitized solar cells. 2015 , 153, 499-507	38
677	Enhanced pore filling of spiro-OMeTAD by enlarging the porosity of TiO2 films and its effects on the photovoltaic performance of ss-DSCs. 2015 , 118, 1339-1346	2
676	A facile and convenient synthesis and photovoltaic characterization of novel thieno[2,3-b]indole dyes for dye-sensitized solar cells. 2015 , 199, 152-158	33
675	Controllable synthesis of concave cubic gold core-shell nanoparticles for plasmon-enhanced photon harvesting. 2015 , 449, 246-51	18
674	The relation between TiO2 nano-pastes rheology and dye sensitized solar cell photoanode efficiency. 2015 , 30, 605-611	15
673	High-performance Co9Se8/CoSe counter electrode for dye-sensitized solar cells. 2015 , 74, 168-174	5
672	Facile self-assembly and stabilization of metal oxide nanoparticles. 2015 , 442, 110-9	8

671	Synthesis and characterization of novel carbazole-based terpyridyl photosensitizers for dye-sensitized solar cells (DSSCs). 2015 , 115, 81-87	17
670	Stacked nanoparticle-transparent conductive oxide substrate combining high haze with low surface roughness for improvement of thin film Si solar-cell performance. <i>Thin Solid Films</i> , 2015 , 574, 78-83	3
669	Ultrafine dice-like anatase TiO2 for highly efficient dye-sensitized solar cells. 2015 , 134, 133-139	13
668	Facile conversion of rutile titanium dioxide nanowires to nanotubes for enhancing the performance of dye-sensitized solar cells. 2015 , 17, 1115-1120	10
667	Succinonitrile-based solid-state electrolytes for dye-sensitised solar cells. 2015 , 23, 417-427	21
666	Enhancement of photoconversion efficiency in dye-sensitized solar cells exploiting pulsed laser deposited niobium pentoxide blocking layers. <i>Thin Solid Films</i> , 2015 , 574, 38-42	16
665	Platinum-free counter electrode comprised of metal-organic-framework (MOF)-derived cobalt sulfide nanoparticles for efficient dye-sensitized solar cells (DSSCs). 2014 , 4, 6983	151
664	Dicyanovinyl-unit-induced absorption enhancement of iridium(III) complexes in long-wavelength range and potential application in dye-sensitized solar cells. 2015 , 58, 658-665	2
663	Dye-Sensitized Solar Cells by Fruits. 2015 , 12, 409-416	
662	High performance dye-sensitized solar cells using graphene modified fluorine-doped tin oxide glass by Langmuir B lodgett technique. 2015 , 224, 71-75	11
661	Toward high-efficiency dye-sensitized solar cells with a photoanode fabricated via a simple water-based formulation. 2015 , 23, 883-891	5
660	Printable solar cells. 2015 , 4, 51-73	10
659	Efficient CH3NH3PbI3 perovskite solar cells with 2TPA-n-DP hole-transporting layers. 2015 , 8, 1116-1127	60
658	A simple method to achieve light scattering in dye-sensitized solar cells using a low-temperature-sintering TiO2 paste. <i>Materials Letters</i> , 2015 , 138, 268-271	4
657	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. 2015 , 275, 80-89	59
656	Facile Solution Dropping Method: A Green Process for Dyeing TiO2 Electrodes of Dye-Sensitized Solar Cells with Enhanced Power Conversion Efficiency. 2015 , 3, 71-81	10
655	Dysprosium, holmium and erbium ions doped indium oxide nanotubes as photoanodes for dye sensitized solar cells and improved device performance. 2015 , 440, 162-7	17
654	Energy barrier at the N719-dye/CsSnIIInterface for photogenerated holes in dye-sensitized solar cells. 2014 , 4, 6954	74

(2016-2015)

653	StructureBroperty relationships: Steric effect in ancillary ligand and how it influences photocurrent and photovoltage in dye-sensitized solar cells. 2015 , 113, 151-159	14
652	Chemical reactions in TiO2/SnO2/TiCl4 hybrid electrodes and their impacts to power conversion efficiency of dye-sensitized solar cells. 2015 , 76, 1-9	3
651	Concentration effects on the performance of bis(diimine) copper(I) dyes in dye-sensitized solar cells. 2015 , 113, 447-450	15
650	Oriented assembly of bacteriorhodopsin on ZnO nanostructured electrode for enhanced photocurrent generation. 2015 , 62, 489-93	9
649	Effect of Au surface plasmon nanoparticles on the selective CO2 photoreduction to CH4. 2015 , 178, 177-185	8o
648	Photocurrent generation by adsorption of two main pigments of Halobacterium salinarum on TiO2 nanostructured electrode. 2015 , 62, 121-5	23
647	Influence of Dye Loading Time and Electrolytes Constituents Ratio on the Performance of Spin Coated ZnO Photoanode Based Dye Sensitized Solar Cells. 2016 , 32, 1049-1054	1
646	Improving the Photocurrent in Quantum-Dot-Sensitized Solar Cells by Employing Alloy PbCdS Quantum Dots as Photosensitizers. 2016 , 6,	18
645	Dicyanovinyl and Cyano-Ester Benzoindolenine Squaraine Dyes: The Effect of the Central Functionalization on Dye-Sensitized Solar Cell Performance. 2016 , 9, 486	17
644	Towards Renewable Iodide Sources for Electrolytes in Dye-Sensitized Solar Cells. 2016 , 9, 241	3
643	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. 2016 , 9, 373	41
642	Highly-Efficient Plasmon-Enhanced Dye-Sensitized Solar Cells Created by Means of Dry Plasma Reduction. 2016 , 6,	25
641	Optimization of hierarchical light-scattering layers in TiO2 photoelectrodes of dye-sensitized solar cells. 2016 , 134, 399-405	9
640	Stable OrganicIhorganic Perovskite Solar Cells without Hole-Conductor Layer Achieved via Cell Structure Design and Contact Engineering. 2016 , 26, 4866-4873	70
639	Enhancement of dye sensitized solar cell efficiency via incorporation of upconverting phosphor nanoparticles as spectral converters. 2016 , 24, 692-703	32
638	Incorporation of graphene into SnO2 photoanodes for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2016 , 387, 690-697	31
637	Quasi-Solid-State Dye-Sensitized Solar Cells Based on Ru(II) Polypyridine Sensitizers. 2016, 4, 380-384	4
636	A Dye-Sensitized Photoelectrochemical Tandem Cell for Light Driven Hydrogen Production from Water. 2016 , 138, 16745-16753	83

635 Improvement of DSSC performance by voltage stress application. **2016**,

Microstructure analysis of spherical silicon solar cells with SnOx:Fy layers, 2016, WITHDRAWN: Efficiency enhancement of dye-sensitized solar cells using Sm(NO3)3 and TiCl4 for collaborative treatment of TiO2 photoanode. 2016, Effect of Different Dip-Coating Techniques on TiO2 Thin Film Properties. 2016, 721, 128-132 Dye-sensitized solar cell scale-up: Influence of substrate resistance. 2016, 8, 023704 Dye-sensitized solar cell scale-up: Influence of substrate resistance. 2016, 8, 023704 Snhanced photovoltaic performance of dye-sensitized solar cells with TiO2 micro/nano-structures as light scattering layer. 2016, 27, 5452-5461 Improved performance of nanoporous TiO2 film in dye-sensitized solar cells via ZrCl4 and TiCl4 surface co-modifications. 2016, 49, 48-53 Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 Dotimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 Cobinization of Selective Electrophoretic Deposition and Perovskite Solar Cell Technologies. 2016, 3, 9-30 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 314, 452-460 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 A3 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358				
collaborative treatment of TiO2 photoanode. 2016, Effect of Different Dip-Coating Techniques on TiO2 Thin Film Properties. 2016, 721, 128-132 6 Dye-sensitized solar cell scale-up: Influence of substrate resistance. 2016, 8, 023704 13 Enhanced photovoltaic performance of dye-sensitized solar cells with TiO2 micro/nano-structures as light scattering layer. 2016, 27, 5452-5461 [8] Improved performance of nanoporous TiO2 film in dye-sensitized solar cells via ZrCl4 and TiCl4 surface co-modifications. 2016, 49, 48-53 [7] Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 [8] Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 [8] Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 [8] Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 [9] Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 [9] Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 [9] Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 [7] Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358 [8]	634	Microstructure analysis of spherical silicon solar cells with SnOx:Fy layers. 2016 ,		1
Dye-sensitized solar cell scale-up: Influence of substrate resistance. 2016, 8, 023704 Enhanced photovoltaic performance of dye-sensitized solar cells with TiO2 micro/nano-structures as light scattering layer. 2016, 27, 5452-5461 Improved performance of nanoporous TiO2 film in dye-sensitized solar cells via ZrCl4 and TiCl4 surface co-modifications. 2016, 49, 48-53 Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 627 Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 628 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 629 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 620 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 621 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 622 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 623 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	633			
Enhanced photovoltaic performance of dye-sensitized solar cells with TiO2 micro/nano-structures as light scattering layer. 2016, 27, 5452-5461 629 Improved performance of nanoporous TiO2 film in dye-sensitized solar cells via ZrCl4 and TiCl4 surface co-modifications. 2016, 49, 48-53 628 Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 628 Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 620 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 621 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 622 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 623 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 624 Corganic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 625 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	632	Effect of Different Dip-Coating Techniques on TiO2 Thin Film Properties. 2016 , 721, 128-132		6
as light scattering layer. 2016, 27, 5452-5461 629 Improved performance of nanoporous TiO2 film in dye-sensitized solar cells via ZrCl4 and TiCl4 surface co-modifications. 2016, 49, 48-53 628 Influence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 627 Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 626 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 627 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 628 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 629 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 620 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 621 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	631	Dye-sensitized solar cell scale-up: Influence of substrate resistance. 2016 , 8, 023704		13
surface co-modifications. 2016, 49, 48-53 fifluence of ball milling on textural and morphological properties of TiO2 and TiO2/SiO2 xerogel powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 628 Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 629 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 48 620 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 48 621 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 622 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 623 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 624 Corganic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 625 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	630			8
powders applied in photoanodes for solar cells. 2016, 20, 1731-1741 627 Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 626 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 626 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 627 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 628 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 629 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 620 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	629			7
Nanoparticles for Flexible Dye-Sensitized Solar Cells. 2016, 196, 535-546 626 Laser Processing in the Manufacture of Dye-Sensitized and Perovskite Solar Cell Technologies. 2016, 3, 9-30 48 625 Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 64 624 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 625 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 626 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 627 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	628			8
Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. 2016, 322, 69-93 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	627			6
sensitized solar cells. 2016, 322, 69-93 Synthesis of a high efficiency novel working electrode scandium/HOMBIKAT in dye-sensitized solar cells. 2016, 134, 452-460 Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016, 10, 225-237 Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 Flectrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	626			48
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Organic sensitizers for dye-sensitized solar cell (DSSC): Properties from computation, progress and future perspectives. 2016, 1122, 80-87 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358 26	624			9
future perspectives. 2016, 1122, 80-87 Electrophoretic deposition of graphene-TiO2 hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. 2016, 105, 352-358	623	Progress in nanostructured photoanodes for dye-sensitized solar cells. 2016 , 10, 225-237		43
fiber-shaped dye-sensitized solar cells. 2016 , 105, 352-358	622			77
	621			26
Synthesis of novel SnO2@TiO2 nanofibers as an efficient photoanode of dye-sensitized solar cells. 2016, 41, 10578-10589	620			31
High-yield synthesis of Briented attachment DriO2 nanorods as superior building blocks of photoanodes in quantum dot sensitized solar cells. 2016 , 6, 33713-33722	619			13
Binary Indium Z inc Oxide Photoanodes for Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy</i> Materials, 2016 , 6, 1501075	618		21.8	17

(2016-2016)

617	One-step in situ growth of Co9S8 on conductive substrate as an efficient counter electrode for dye-sensitized solar cells. 2016 , 51, 4150-4159	15
616	Dye-sensitized solar cells, based on electrochemically functionalized porphyrins. 2016 , 13, 1357-1365	6
615	Quasi-monodispersed anatase TiO2 submicrospheres as current-contributed scattering particles for dye-sensitized solar cells. 2016 , 204, 227-234	7
614	A new probe into thin copper sulfide counter electrode with thickness below 100 nm for quantum dot-sensitized solar cells. 2016 , 205, 45-52	6
613	Flexible and conductive cotton fabric counter electrode coated with graphene nanosheets for high efficiency dye sensitized solar cell. 2016 , 319, 90-98	80
612	Porous TaON Photoanodes Loaded with Cobalt-Based Cocatalysts for Efficient and Stable Water Oxidation Under Visible Light. 2016 , 59, 740-749	12
611	Highly Dispersed Cobalt Oxide on TaON as Efficient Photoanodes for Long-Term Solar Water Splitting. 2016 , 6, 3404-3417	57
610	An affordable green energy source E volving through current developments of organic, dye sensitized, and perovskite solar cells. 2016 , 13, 859-906	3
609	Photoexcitation of neodymium doped TiO2 for improved performance in dye-sensitized solar cells. 2016 , 104, 346-354	36
608	Comprehensive review on material requirements, present status, and future prospects for building-integrated semitransparent photovoltaics (BISTPV). 2016 , 4, 8512-8540	71
607	A high efficiency ruthenium(II) tris-heteroleptic dye containing 4,7-dicarbazole-1,10-phenanthroline for nanocrystalline solar cells. 2016 , 6, 46487-46494	16
606	Ultralong Rutile TiO2 Nanowire Arrays for Highly Efficient Dye-Sensitized Solar Cells. 2016 , 8, 13384-91	43
605	Co-sensitization of 出type dyes with planar squaraine dyes for efficient dye-sensitized solar cells. 2016 , 6, 40750-40759	12
604	The effect of mesoporous TiO2 pore size on the performance of solid-state dye sensitized solar cells based on photoelectrochemically polymerized Poly(3,4-ethylenedioxythiophene) hole conductor. 2016 , 210, 23-31	8
603	Electrodeposited ZnO thin film as an efficient alternative blocking layer for TiCl 4 pre-treatment in TiO 2 -based dye sensitized solar cells. 2016 , 96, 82-94	19
602	3D TiO2/ZnO composite nanospheres as an excellent electron transport anode for efficient dye-sensitized solar cells. 2016 , 6, 51320-51326	11
601	Efficiency enhancement of dye-sensitized solar cells by use of ZrO2-doped TiO2 nanofibers photoanode. 2016 , 476, 9-19	31
600	TiO2 cement for high-performance dye-sensitized solar cells. 2016 , 6, 83802-83807	2

599	Twisted coumarin dyes for dye-sensitized solar cells with high photovoltage: adjustment of optical, electrochemical, and photovoltaic properties by the molecular structure. 2016 , 6, 87969-87977	13
598	Unraveling the Dual Character of Sulfur Atoms on Sensitizers in Dye-Sensitized Solar Cells. 2016 , 8, 26827-2	683ऄ॒
597	Heterostructured g-C3N4/Ag/TiO2 nanocomposites for enhancing the photoelectric conversion efficiency of spiro-OMeTAD-based solid-state dye-sensitized solar cells. 2016 , 6, 102444-102452	19
596	Optimizing CdS intermediate layer of CdS/CdSe quantum dot-sensitized solar cells to increase light harvesting ability and improve charge separation efficiency. 2016 , 6, 99564-99569	5
595	Fe-ions implantation to modify TiO2trilayer films for dye-sensitized solar cells. 2016 , 55, 067107	3
594	Comparing the Effect of Mesoporous and Planar Metal Oxides on the Stability of Methylammonium Lead Iodide Thin Films. 2016 , 28, 7344-7352	38
593	CdTe based quantum dot sensitized solar cells with efficiency exceeding 7% fabricated from quantum dots prepared in aqueous media. 2016 , 4, 16553-16561	52
592	Microsphere Assembly of TiO2 Rectangular Nanotubes: Facile Fabrication and Photovoltaic Property. 2016 , 212, 76-83	3
591	D-D-EA organic dye containing rhodanine-3-acetic acid moiety for dye-sensitized solar cells. 2016 , 26, 288-290	5
590	Aminophenyl/carboxyphenylporphyrins as sensitizers for dye-sensitized solar cells. 2016 , 20, 1217-1223	3
589	Scaling of the flexible dye sensitized solar cell module. 2016 , 157, 438-446	24
588	Decatungstate acid improves the photo-induced electron lifetime and retards the recombination in dye sensitized solar cells. 2016 , 45, 14940-7	8
587	Indoline-Based Molecular Engineering for Optimizing the Performance of Photoactive Thin Films. 2016 , 26, 6876-6887	15
586	Eu doped down shifting TiO layer for efficient dye-sensitized solar cells. 2016 , 484, 24-32	35
585	A ZnO/TiO2 composite nanorods photoanode with improved performance for dye-sensitized solar cells. 2016 , 51, 548-553	10
584	Hierarchical rutile TiO2 aggregates: A high photonic strength material for optical and optoelectronic devices. 2016 , 119, 92-103	26
583	Novel DA type triphenylamine based chromogens for DSSC: design, synthesis and performance studies. 2016 , 40, 8371-8381	25
582	Application of Three-Dimensionally Ordered Mesoporous TiO2 Particles as Dual-function Scatterers in Dye-Sensitized Solar Cells. 2016 , 222, 1079-1085	7

581	Flame-made ultra-porous TiO layers for perovskite solar cells. 2016 , 27, 505403	9
580	Integrating Graphene and C60 Into TiO2 Nanofibers via Electrospinning Process for Enhanced Conversion Efficiencies of DSSCs. 2016 , 365, 128-139	9
579	Parametric Optimization of Experimental Conditions for Dye-Sensitized Solar Cells based on Far-red Sensitive Squaraine Dye. 2016 , 704, 012002	1
578	Dye-sensitized solar cells based on composite TiO2 nanoparticleflanorod single and bi-layer photoelectrodes. 2016 , 39, 1397-1402	7
577	Fabrication of dye-sensitized solar cells with multilayer photoanodes of hydrothermally grown TiO2 nanocrystals and P25 TiO2 nanoparticles. 2016 , 39, 1403-1410	3
576	Design and synthesis of BODIPY sensitizers with long alkyl chains tethered to N-carbazole and their application for dye sensitized solar cells. 2016 , 184, 57-63	9
575	Basic Concepts of Solar-to-Chemical Energy Conversion by Oxide Semiconductors. 2016 , 253, 1-10	1
574	Bi-layer photoanode films of hierarchical carbon-doped brookite-rutile TiO 2 composite and anatase TiO 2 beads for efficient dye-sensitized solar cells. 2016 , 216, 429-437	12
573	Improved performance of dye-sensitized solar cell based on TiO2 photoanode with FTO glass and film both treated by TiCl4. 2016 , 500, 48-52	13
572	Consequences of Solid Electrolyte Interphase (SEI) Formation upon Aging on Charge-Transfer Processes in Dye-Sensitized Solar Cells. 2016 , 120, 18991-18998	6
571	Gold Tris(carboxyphenyl)corroles as Multifunctional Materials: Room Temperature Near-IR Phosphorescence and Applications to Photodynamic Therapy and Dye-Sensitized Solar Cells. 2016 , 8, 18935-42	67
570	Passivation of Nickel Vacancy Defects in Nickel Oxide Solar Cells by Targeted Atomic Deposition of Boron. 2016 , 120, 16568-16576	31
569	Enhanced Electron Collection in Perovskite Solar Cells Employing Thermoelectric NaCo O /TiO Coaxial Nanofibers. 2016 , 12, 5146-5152	15
568	Solar Water Oxidation by Multicomponent TaON Photoanodes Functionalized with Nickel Oxide. 2016 , 81, 1107-1115	3
567	Spray Deposition of Titania Films with Incorporated Crystalline Nanoparticles for All-Solid-State Dye-Sensitized Solar Cells Using P3HT. 2016 , 26, 1498-1506	44
566	Dye-sensitised solar cells: Development, structure, operation principles, electron kinetics, characterisation, synthesis materials and natural photosensitisers. 2016 , 65, 183-213	103
565	The layer boundary effect on multi-layer mesoporous TiO2 film based dye sensitized solar cells. 2016 , 6, 98167-98170	2
564	Nanostructured Anatase Titania Spheres as Light Scattering Layer in Dye-sensitized Solar Cells. 2016 , 24, 767-773	6

563	Micro- and electronic structure optimization of Ru-doped TiO2 electrodes for efficient dye-sensitized solar cells. 2016 , 139, 318-327	11
562	Ultrafast charge separation dynamics in opaque, operational dye-sensitized solar cells revealed by femtosecond diffuse reflectance spectroscopy. 2016 , 6, 24465	18
561	Adsorption Behavior of I and I Ions at a Nanoporous NiO/Acetonitrile Interface Studied by X-ray Photoelectron Spectroscopy. 2016 , 32, 11540-11550	29
560	Employing ZnS as a capping material for PbS quantum dots and bulk heterojunction solar cells. 2016 , 59, 817-824	14
559	Pt-Free Counter Electrodes with Carbon Black and 3D Network Epoxy Polymer Composites. 2016 , 6, 22987	22
558	Platinum/Palladium hollow nanofibers as high-efficiency counter electrodes for enhanced charge transfer. 2016 , 335, 138-145	33
557	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. 2016 , 6, 34319	63
556	Improving Loading Amount and Performance of Quantum Dot-Sensitized Solar Cells through Metal Salt Solutions Treatment on Photoanode. 2016 , 8, 31006-31015	18
555	Electrical, optical, morphological and gas sensing properties of varied precursors based ZnO nanoparticles. 2016 ,	
554	Dye Sensitized Solar Modules with Embedded Silver Lines. 2016 , 1, 991-996	
553	Effects of Bulky Substituents of Push-Pull Porphyrins on Photovoltaic Properties of Dye-Sensitized Solar Cells. 2016 , 8, 15379-90	50
552	Correlation between the in-plain substrate strain and electrocatalytic activity of strontium ruthenate thin films in dye-sensitized solar cells. 2016 , 4, 10794-10800	23
551	Carbon nanotubes hybrid carbon counter electrode for high efficiency dye-sensitized solar cells. 2016 , 27, 4736-4743	15
550	Solar energy for future world: - A review. 2016 , 62, 1092-1105	580
549	Nitrogen-doped&SnO2-incoportaed TiO2 nanofibers as novel and effective photoanode for enhanced efficiency dye-sensitized solar cells. 2016 , 304, 48-60	26
548	High photovoltages of CuFeO2 based p-type dye-sensitized solar cells. 2016 , 685, 836-840	22
547	TiO2/graphene nanocomposite layers for improving the performances of dye-sensitized solar cells using a cobalt redox shuttle. 2016 , 329, 54-60	13
546	Low temperature rapid synthesis of direct mesoporous anatase TiO2nano-aggregates and its application in dye-sensitized solar cell. 2016 , 3, 2413-2421	6

545	Proton-Induced Trap States, Injection and Recombination Dynamics in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. 2016 , 8, 16727-35	29
544	Facile one-pot synthesis of uniform niobium-doped titanium dioxide microparticles for nanostructured dye-sensitized solar cells. 2016 , 36, 112-121	4
543	Unraveling the Nonideal Recombination Kinetics in Cobalt Complex Based Dye Sensitized Solar Cells: Impacts of Electron Lifetime and the Distribution of Electron Density. 2016 , 120, 13891-13900	1
542	Effect of the Titanium Dioxide Shell on the Plasmon Properties of Silver Nanoparticles. 2016 , 90, 833-837	11
54 ¹	Effects of Ethyl Cellulose on Performance of Titania Photoanode for Dye-sensitized Solar Cells. 2016 , 45, 6192-6199	8
540	Three-dimensional ordered titanium dioxide-zirconium dioxide film-based microfluidic device for efficient on-chip phosphopeptide enrichment. 2016 , 478, 227-35	10
539	Dye-sensitized solar cells with inkjet-printed dyes. 2016 , 9, 2453-2462	51
538	Photocatalytic activity of porous multiwalled carbon nanotube-TiO2 composite layers for pollutant degradation. 2016 , 317, 52-59	66
537	Functionalized Carboxylate Deposition for rapid sensitization of dye-sensitized solar cells. 2016 , 126, 128-136	1
536	A study on the variation of dye-sensitized solar cell parameters under □irradiation. 2016 , 308, 631-637	4
535	Design and fabrication of multi-functional working electrodes with TiO2/CZTSe/bamboo-charcoal-powder composite particles for use in dye-sensitized solar cells. 2016 , 126, 231-242	5
534	High-performance dye-sensitized solar cells based on Ag-doped SnS2 counter electrodes. 2016 , 4, 1908-1914	85
533	Enhanced Performance of Dye-sensitized Solar Cells Aided by Olive-shaped ZnO Nanocrystallite Aggregates as the Light-scattering Layer. 2016 , 561-568	
532	Synthesis of new dithieno[3,2-b:2?,3?-d]pyrrole (DTP) units for photovoltaic cells. 2016 , 128, 8-18	13
531	Synthesis, characterization and ab initio investigation of a panchromatic ullazine porphyrin photosensitizer for dye-sensitized solar cells. 2016 , 4, 2332-2339	44
530	Covalent Immobilization of a Molecular Catalyst on Cu2O Photocathodes for CO2 Reduction. 2016 , 138, 1938-46	220
529	Ultrafast and fast charge separation processes in real dye-sensitized solar cells. 2016 , 26, 1-30	79
528	An Alkyloxyphenyl Group as a Sterically Hindered Substituent on a Triphenylamine Donor Dye for Effective Recombination Inhibition in Dye-Sensitized Solar Cells. 2016 , 32, 1178-83	18

527	Influence of surface states of CuInS2 quantum dots in quantum dots sensitized photo-electrodes. <i>Applied Surface Science</i> , 2016 , 388, 437-443	6.7	9
526	Olive-shaped ZnO nanocrystallite aggregates as bifunctional light scattering materials in double-layer photoanodes for dye-sensitized solar cells. 2016 , 187, 655-661		10
525	Improved photon to current conversion in nanostructured TiO2 dye-sensitized solar cells by incorporating cubic BaTiO3 particles deliting incident. 2016 , 132, 1-14		21
524	Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. 2016 , 28, 2323-2330		53
523	Site-Selective Passivation of Defects in NiO Solar Photocathodes by Targeted Atomic Deposition. 2016 , 8, 4754-61		60
522	Synergetic effect of graphene sheet and three-dimensional crumpled graphene on the performance of dye-sensitized solar cells. 2016 , 62, 574-579		4
521	New strategy to incorporate nano-particle sized water oxidation catalyst into dye-sensitized photoelectrochemical cell for water splitting. 2016 , 25, 345-348		11
520	Novel Alizarin palladacyclic complexes as sensitizers in high durable dye-sensitized solar cells. 2016 , 109, 40-46		4
519	Phase dependent photocatalytic activity of Ag loaded TiO2 films under sun light. <i>Applied Surface Science</i> , 2016 , 364, 732-739	6.7	9
518	Effects of doping, morphology and film-thickness of photo-anode materials for dye sensitized solar cell application [A review. 2016 , 60, 356-376		153
518 517			153
	cell application IA review. 2016 , 60, 356-376 Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in	6.7	
517	cell application IA review. 2016 , 60, 356-376 Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. 2016 , 4, 3238-3244 Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO 2	6.7	31
517	cell application IA review. 2016, 60, 356-376 Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. 2016, 4, 3238-3244 Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO 2 nanostructures. Applied Surface Science, 2016, 368, 403-408 Development of bis(arylimino)acenaphthene (BIAN) copper complexes as visible light harvesters	6.7	31
517 516 515	Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. 2016, 4, 3238-3244 Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO 2 nanostructures. Applied Surface Science, 2016, 368, 403-408 Development of bis(arylimino)acenaphthene (BIAN) copper complexes as visible light harvesters for potential photovoltaic applications. 2016, 3, 651-662 High open voltage and superior light-harvesting dye-sensitized solar cells fabricated by flower-like	6.7	31 21 30
517516515514	Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. 2016, 4, 3238-3244 Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO 2 nanostructures. Applied Surface Science, 2016, 368, 403-408 Development of bis(arylimino)acenaphthene (BIAN) copper complexes as visible light harvesters for potential photovoltaic applications. 2016, 3, 651-662 High open voltage and superior light-harvesting dye-sensitized solar cells fabricated by flower-like hierarchical TiO2 composed with highly crystalline nanosheets. 2016, 307, 138-145 Surface modification of porous TiO2 electrode through pulse oxidative hydrolysis of TiCl3 as an	6.7	31 21 30 30
517 516 515 514 513	Synergistic carbon nanotube aerogel IPt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. 2016, 4, 3238-3244 Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO 2 nanostructures. Applied Surface Science, 2016, 368, 403-408 Development of bis(arylimino)acenaphthene (BIAN) copper complexes as visible light harvesters for potential photovoltaic applications. 2016, 3, 651-662 High open voltage and superior light-harvesting dye-sensitized solar cells fabricated by flower-like hierarchical TiO2 composed with highly crystalline nanosheets. 2016, 307, 138-145 Surface modification of porous TiO2 electrode through pulse oxidative hydrolysis of TiCl3 as an efficient light harvesting photoanode for dye-sensitized solar cells. 2016, 191, 256-262 Surface passivation of titanium dioxide via an electropolymerization method to improve the	6.7	31 21 30 30

509	Graphene-MoS2nanosheet composites as electrodes for dye sensitised solar cells. 2016 , 3, 035007	10
508	Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. 2016 , 138, 4201-9	476
507	Efficient dye-sensitized solar cells based on TiO 2 nanoparticles and skein-like nanotubes: Effect of arrangement modes of the layers and TiCl 4 treatment. 2016 , 61, 138-146	17
506	Graphene Oxide-Assisted Synthesis of Microsized Ultrathin Single-Crystalline Anatase TiO2 Nanosheets and Their Application in Dye-Sensitized Solar Cells. 2016 , 8, 2495-504	37
505	Fabrication and analysis of dye-sensitized solar cells (DSSCs) using porphyrin dyes with catechol anchoring groups. 2016 , 6, 14512-14521	32
504	Enhancement of gasBolid photocatalytic activity of nanocrystalline TiO2 by SiO2 opal photonic crystal. 2016 , 51, 2079-2089	9
503	Aggregates of plasmonic nanoparticles for broadband light trapping in dye-sensitized solar cells. 2016 , 18, 015902	4
502	Ultrafast synthesis of carbon-nanotube counter electrodes for dye-sensitized solar cells using an atmospheric-pressure plasma jet. 2016 , 98, 34-40	53
501	Nitrogen and yttrium co-doped mesoporous titania photoanodes applied in DSSCs. 2016 , 659, 15-22	21
500	Low-Temperature and Surfactant-Free Synthesis of Mesoporous TiO2 Sub-Micron Spheres for Efficient Dye-Sensitized Solar Cells. 2016 , 32, 17-23	12
499	Influence of surface disorder, oxygen defects and bandgap in TiO2 nanostructures on the photovoltaic properties of dye sensitized solar cells. 2016 , 144, 194-209	64
498	Theoretical investigation of regeneration mechanism of the metal-free sensitizer in dye sensitized solar cells. 2016 , 124, 156-164	12
497	Light scattering management of dye-sensitized solar cells based on double-layered photoanodes aided by uniform TiO 2 aggregates. 2016 , 73, 268-275	11
496	Probing photon localization effect between titania and photonic crystals on enhanced photocatalytic activity of titania film. 2016 , 284, 305-314	25
495	Combined theoretical and experimental approaches for development of squaraine dyes with small energy barrier for electron injection. 2017 , 159, 625-632	14
494	Improved efficiency of dye-sensitized solar cell based on randomly ordered pore structure fabricated by dry deposition method. 2017 , 17, 433-441	3
493	The influence of various concentrations of N-doped TiO2 as photoanode to increase the efficiency of dye-sensitized solar cell. 2017 ,	3
492	A D-FA organic dye IReduced graphene oxide covalent dyad as a new concept photosensitizer for light harvesting applications. 2017 , 115, 746-753	22

491	Performance enhancement of dye-sensitized solar cells (DSSCs) using a natural sensitizer. 2017,		4
490	Morphologically tuned 3D/1D rutile TiO2 hierarchical hybrid microarchitectures engineered by one-step surfactant free hydrothermal method. <i>Applied Surface Science</i> , 2017 , 405, 195-204	6.7	9
489	TiCl4 surface-treated SnO2 photoanodes for self-powered UV photodetectors and dye-sensitized solar cells. 2017 , 32, 443-450		13
488	Development of Graphene Nano-Platelet Ink for High Voltage Flexible Dye Sensitized Solar Cells with Cobalt Complex Electrolytes . 2017 , 19, 1600652		7
487	Cocktail co-sensitization of porphyrin dyes with additional donors and acceptors for developing efficient dye-sensitized solar cells. 2017 , 140, 36-46		34
486	Hydrothermal synthesis of TiO2 nanoparticles doped with trace amounts of strontium, and their application as working electrodes for dye sensitized solar cells: tunable electrical properties & enhanced photo-conversion performance. 2017 , 7, 2358-2364		26
485	Photocatalytic properties of mesoporous alumina containing Ni doped CdS nanostructures. 2017 , 242, 284-293		15
484	Niobium-Doped (001)-Dominated Anatase TiO Nanosheets as Photoelectrode for Efficient Dye-Sensitized Solar Cells. 2017 , 9, 9576-9583		34
483	Implementation of Single-Walled Carbon Nanohorns into Solar Cell Schemes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601883	21.8	17
482	A manufacturing cost estimation method with uncertainty analysis and its application to perovskite on glass photovoltaic modules. 2017 , 25, 390-405		124
481	Ethanol gas sensor based upon ZnO nanoparticles prepared by different techniques. 2017 , 7, 801-806		61
480	A graphene/carbon nanotube biofilm based solar-microbial fuel device for enhanced hydrogen generation. 2017 , 1, 191-198		20
479	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. 2017 , 5, 2833-2843		42
478	TiO2 photoanode surface modification via combined action of samarium and titanium salt in dye-sensitized solar cells. 2017 , 165, 45-51		11
477	Cross-Dehydrogenative Coupling (CDC) as Key-Transformations to Various D-EA Organic Dyes:		8
1,7,	C-H/C-H Synthetic Study Directed toward Dye-Sensitized Solar Cells Applications. 2017 , 82, 3538-3551		
476	C-H/C-H Synthetic Study Directed toward Dye-Sensitized Solar Cells Applications. 2017 , 82, 3538-3551 Mesoporous TiO2/graphene composite films for the photocatalytic degradation of eco-persistent pollutants. 2017 ,		1
	Mesoporous TiO2/graphene composite films for the photocatalytic degradation of eco-persistent		1

473	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. 2017 , 232, 44-53		14	
472	Graphene nanosheets as counter electrode with phenoxazine dye for efficient dye sensitized solar cell. 2017 , 44, 32-41		11	
471	Novel D-EA-EA coumarin dyes for highly efficient dye-sensitized solar cells: Effect of Ebridge on optical, electrochemical, and photovoltaic performance. 2017 , 345, 59-66		18	
470	Unsymmetrically Substituted Donor-FAcceptor-Type 5,15-Diazaporphyrin Sensitizers: Synthesis, Optical and Photovoltaic Properties. 2017 , 82, 695-704		6	
469	Single-crystalline anatase TiO2 nanoleaf: Simple topochemical synthesis and light-scattering effect for dye-sensitized solar cells. <i>Materials Letters</i> , 2017 , 196, 50-53	3.3	2	
468	Ag nanoparticle-filled TiO nanotube arrays prepared by anodization and electrophoretic deposition for dye-sensitized solar cells. 2017 , 28, 135207		20	
467	Engineering of Ruthenium(II) Photosensitizers with Non-Innocent Oxyquinolate and Carboxyamidoquinolate Ligands for Dye-Sensitized Solar Cells. 2017 , 23, 7497-7507		11	
466	Bioinspired study of energy and electron transfer in photovoltaic system. 2017 , 12, 285-296		3	
465	An overview of the environmental, economic, and material developments of the solar and wind sources coupled with the energy storage systems. <i>International Journal of Energy Research</i> , 2017 , 41, 1948-1962	4.5	40	
464	Correlation Between Charge Recombination and Lateral Hole-Hopping Kinetics in a Series of cis-Ru(phen')(dcb)(NCS) Dye-Sensitized Solar Cells. 2017 , 9, 33446-33454		30	
463	Iodine-Pseudohalogen Ionic Liquid-Based Electrolytes for Quasi-Solid-State Dye-Sensitized Solar Cells. 2017 , 9, 33437-33445		17	
462	The way to panchromatic copper(I)-based dye-sensitized solar cells: co-sensitization with the organic dye SQ2. 2017 , 5, 13717-13729		22	
461	Effect of 10 MeV electron irradiation on dye-sensitized solar cells. 2017 , 172, 342-353		5	
460	Charge generation and transfer performance enhancement of size-balanced CuInS2 quantum dots sensitized solar cells. 2017 , 28, 12741-12746		3	
459	Synthesis of cluster like TiO2 mesoporous spheres and nanorods and their applications in dye-sensitized solar cells. 2017 , 28, 14935-14943			
458	TiO2-coated window for facilitated gas evolution in PEC solar water splitting. 2017 , 7, 29665-29671		7	
457	Adsorption Energy Optimization of Co3O4 through Rapid Surface Sulfurization for Efficient Counter Electrode in Dye-Sensitized Solar Cells. 2017 , 121, 12524-12530		17	
456	Microstructure and optical properties of TiO2nanocrystallites[aTiO3:Pr3+ hybrid thick films. 2017, 10, 1750033		1	

Enhancement of the Mie scattering effect using floatstone-like TiO2 spherical micropigment. 2017, 455 133, 187-193 ReviewBingle-Walled Carbon Nanohorn-Based Dye-Sensitized Solar Cells. 2017, 6, M3140-M3147 454 Influence of annealing on optical and photovoltaic properties of nanostructured TiO2films. 2017, 453 3 168, 012054 TiO Anatase Solutions for Electron Transporting Layers in Organic Photovoltaic Cells. 2017, 18, 2390-2396 452 Wirelike dinuclear ruthenium(II)polyterpyridine complexes based on DPA architecture: 451 5 Experimental and theoretical investigation. 2017, 340, 170-180 Interrelationship between TiO nanoparticle size and kind/size of dyes in the mechanism and 450 11 conversion efficiency of dye sensitized solar cells. 2017, 19, 11187-11196 Fabrication of dye sensitized solar cells with improved multi-layer photonodes of hydrothermally 2 449 grown TiO2 nanocrystals in different autoclaving pHs. 2017, 28, 9548-9558 448 Novel flexible photoanode based on Ag nanowire/polymer composite electrode. **2017**, 28, 10092-10097 Enhanced Efficiency of Dye-Sensitized Solar Cells with Mesoporous Macroporous TiO2 Photoanode 447 11 Obtained Using ZnO Template. 2017, 46, 3801-3807 446 Photovoltaics: Role of Nanotechnology in Dye-Sensitized Solar Cells. 2017, 101-132 Choosing the right nanoparticle size designing novel ZnO electrode architectures for efficient 8 445 dye-sensitized solar cells. 2017, 5, 7516-7522 Fabrication of dye-sensitized solar cells using a both-ends-opened TiO 2 nanotube/nanoparticle 13 444 hetero-nanostructure. **2017**, 51, 122-128 Role of pH on electrical, optical and photocatalytic properties of ZnO based nanoparticles. 2017, 443 11 28, 9788-9797 A detailed investigation on the performance of dye-sensitized solar cells based on reduced 442 17 graphene oxide-doped TiO2 photoanode. 2017, 52, 8070-8083 High performance dye-sensitized solar cells based on platinum nanoroses counter electrode. 2017, 8 441 320, 409-413 Harnessing Photovoltage: Effects of Film Thickness, TiO Nanoparticle Size, MgO and Surface 440 15 Capping with DSCs. 2017, 9, 3050-3059 Improvement in light harvesting and device performance of dye sensitized solar cells using 439 23 electrophoretic deposited hollow TiO2 NPs scattering layer. 2017, 161, 255-262 W-doped TiO2 mesoporous electron transport layer for efficient hole transport material free 438 61 perovskite solar cells employing carbon counter electrodes. 2017, 342, 489-494

437	Suitability of N-propanoic acid spiropyrans and spirooxazines for use as sensitizing dyes in dye-sensitized solar cells. 2017 , 19, 2981-2989	5
436	Zinc oxide nanostructure-based dye-sensitized solar cells. 2017 , 52, 4743-4795	59
435	Long wavelength optical absorption and photovoltaic performance enhancement on CuInS2 and PbS quantum dot co-sensitized solar cells. 2017 , 701, 131-137	10
434	International round-robin inter-comparison of dye-sensitized and crystalline silicon solar cells. 2017 , 340, 309-318	8
433	Ultrathin Buffer Layers of SnO2 by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. 2017 , 121, 342-350	84
432	Electrostatic blocking barrier as an effective strategy to inhibit electron recombination in DSSCs. 2017 , 255, 92-98	13
431	Efficient Solar Cells Based on Porphyrin Dyes with Flexible Chains Attached to the Auxiliary Benzothiadiazole Acceptor: Suppression of Dye Aggregation and the Effect of Distortion. 2017 , 9, 36875-368	85 ⁷
430	Molybdenum trioxide thin film recombination barrier layers for dye sensitized solar cells. 2017 , 7, 48853-4886	5021
429	Photovoltaic Properties and Long-Term Durability of Porphyrin-Sensitized Solar Cells with Silicon-Based Anchoring Groups. <i>ACS Omega</i> , 2017 , 2, 6958-6967	19
428	Temperature-dependent Crystallization of MoS Nanoflakes on Graphene Nanosheets for Electrocatalysis. 2017 , 12, 479	23
427	Enhanced light trapping in dye-sensitized solar cell by coupling to 1D photonic crystal and accounting for finite coherence length. 2017 , 64, 2385-2393	2
426	Direct CH Arylation as a Chemoselective Single-Step Access to Acceptor Type Building Blocks. 2017 , 359, 3805-3817	7
425	Synthesis and characterization of Nb 2 O 5 mesostructures with tunable morphology and their application in dye-sensitized solar cells. 2017 , 202, 289-301	10
424	Simple adjustments to the molecular planarity of organic sensitizers: towards highly selective optimization of energy levels. 2017 , 41, 11853-11859	3
423	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO2 Electrodes. Advanced Energy Materials, 2017 , 7, 1700886	19
422	Influence of surface properties of the titanium dioxide porous films on the characteristics of solar cells. 2017 , 66, 614-621	5
421	A comparative study of the influence of N,N'-dialkyl vs. N,N'-diaryl-based electron donor ancillary ligands on photocurrent and photovoltage in dye-sensitized solar cells (DSSCs). 2017 , 19, 20847-20860	14
420	Comparison of chitosan and chitosan nanoparticles on the performance and charge recombination of water-based gel electrolyte in dye sensitized solar cells. 2017 , 175, 1-6	23

419	A new series of azobenzene-bridged metal-free organic dyes and application on DSSC. 2017, 146, 512-519	18
418	A bioinspired dye sensitized solar cell based on a rhodamine-functionalized peptide immobilized on nanocrystalline TiO 2. 2017 , 347, 227-234	4
417	Insights into the limitations of solar cells sensitized with ruthenium dyes revealed in time-resolved spectroscopy studies. 2017 , 19, 20463-20473	12
416	Structure-Property Relationship Study of Donor and Acceptor 2,6-Disubstituted BODIPY Derivatives for High Performance Dye-Sensitized Solar Cells. 2017 , 23, 14747-14759	11
415	Photocatalytic activity of ZnO nanoparticles with optimization of defects. 2017, 95, 468-476	104
414	In situ study of spray deposited titania photoanodes for scalable fabrication of solid-state dye-sensitized solar cells. 2017 , 40, 317-326	32
413	Morphologically-dependent photocatalytic and gas sensing application of Dy-doped ZnO nanoparticles. 2017 , 726, 1274-1285	32
412	Phenothiazine organic dyes containing dithieno[3,2-b:2?,3?-d]pyrrole (DTP) units for dye-sensitized solar cells. 2017 , 157, 94-102	19
411	Enhanced efficiency of over 10% in dye-sensitized solar cells through C and N single- and co-doped TiO2 single-layer electrodes. 2017 , 41, 9453-9460	6
410	Binder-free MWCNT/TiO2 multilayer nanocomposite as an efficient thin interfacial layer for photoanode of dye sensitized solar cell. 2017 , 71, 20-28	12
409	Molecular-scale observation of YD2- o -C8 self-assembled monolayer on TiO 2 (1 1 0). 2017 , 665, 103-107	1
408	A novel porous Ti/TiN/Ti thin film as a working electrode for back-contact, monolithic and non-TCO dye-sensitized solar cells. 2017 , 1, 851-858	3
407	Preparation of Zr-doped mesoporous TiO2 particles and their applications in the novel working electrode of a dye-sensitized solar cell. 2017 , 28, 2186-2197	10
406	Engineered core-shell nanofibers for electron transport study in dye-sensitized solar cells. 2017 , 7, 065008	4
405	Optical properties of core/shell nanoparticles: Comparison of TiO 2 /Ag and Ag/TiO 2 structures. 2017 , 4, 4890-4895	
404	Impact of drying procedure on the morphology and structure of TiO2 xerogels and the performance of dye sensitized solar cells. 2017 , 81, 693-703	8
403	Hierarchical porous photoanode based on acid boric catalyzed sol for dye sensitized solar cells. Applied Surface Science, 2017 , 394, 37-46	8
402	Harvesting Solar Energy Using Inexpensive and Benign Materials. 2017 , 1537-1580	1

(2018-2017)

401	Synthesis and characterization of new triphenylamine-based dyes with novel anchoring groups for dye-sensitized solar cell applications. 2017 , 28, 1859-1868	О
400	Branched and linear alkoxy chains-wrapped push-pull porphyrins for developing efficient dye-sensitized solar cells. 2017 , 137, 421-429	29
399	Influence of saffron carotenoids and mulberry anthocyanins as natural sensitizers on performance of dye-sensitized solar cells. 2017 , 23, 779-787	6
398	Understanding the Role of Electron Donor in Truxene Dye Sensitized Solar Cells with Cobalt Electrolytes. 2017 , 5, 97-104	23
397	Tailored Fabrication of Transferable and Hollow Weblike Titanium Dioxide Structures. 2017, 18, 64-71	4
396	Photovoltaic performances of DSCs fabricated with a screen-printable TiO2-submicrosphere paste. 2017 , 332, 432-439	3
395	Dye-Sensitized Solar Cells that use an Aqueous Choline Chloride-Based Deep Eutectic Solvent as Effective Electrolyte Solution. 2017 , 5, 345-353	59
394	Clean and flexible synthesis of TiO2 nanocrystallites for dye-sensitized and perovskite solar cells. 2017 , 159, 336-344	7
393	Carbon-doped freestanding TiO2 nanotube arrays in dye-sensitized solar cells. 2017, 41, 285-289	16
392	Carbon-doped titanum dioxide nanocrystals for highly efficient dye-sensitized solar cells. 2017 , 281, 636-641	22
391	Low-Temperature Fabrication of Mesoporous Titania Thin Films. 2017, 2, 2315-2325	5
390	Improving the Efficiency of Dye-Sensitized Solar Cells by Growing Longer ZnO Nanorods on TiO2 Photoanodes. 2017 , 2017, 1-8	5
389	Performance Enhancement of Dye-Sensitized Solar Cells Using a Natural Sensitizer. 2017, 2017, 1-5	28
388	Organic Dyes Containing Coplanar Dihexyl-Substituted Dithienosilole Groups for Efficient Dye-Sensitised Solar Cells. 2017 , 2017, 1-14	6
387	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. 2017 , 2017, 1-31	71
386	Parametric Optimization of Dye-Sensitized Solar Cells Using Far red Sensitizing Dye with Cobalt Electrolyte. 2017 , 924, 012001	1
385	Porphyrin sensitizers with modified indoline donors for dye-sensitized solar cells. 2018 , 6, 3927-3936	35
384	Dual functional passivating layer of graphene/TiO2 for improved performance of dye-sensitized solar cells. 2018 , 8, 1001-1013	16

383	The Study of Blocking Effect of Nb2O5in Dye-Sensitized Solar Cells under Low Power Lighting. Journal of the Electrochemical Society, 2018 , 165, F409-F416	3.9	13
382	Molecular engineering of rhodanine dyes for highly efficient D-EA organic sensitizer. 2018 , 156, 53-60		7
381	Enhanced Donor Acceptor Character of a Porphyrin Dye Incorporating Naphthobisthiadiazole for Efficient Near-Infrared Light Absorption. 2018 , 2018, 2537-2547		11
380	Metallophthalocyanines bearing four 3-(pyrrol-1-yl)phenoxy units as photosensitizer for dye-sensitized solar cells. 2018 , 156, 267-275		11
379	Anatase TiO2 nanocrystals via dihydroxy bis (ammonium lactato) titanium (IV) acidic hydrolysis and its performance in dye-sensitized solar cells. 2018 , 25, 1499-1504		2
378	Simplified and quick electrical modeling for dye sensitized solar cells: An experimental and theoretical investigation. 2018 , 116, 273-280		4
377	Enhancement of quantum efficiency by co-adsorbing small julolidine dye and bulky triphenylamine dye in dye-sensitized solar cells. 2018 , 356, 403-410		7
376	Influence of heat treatment on the properties of hydrothermally grown 3D/1D TiO2 hierarchical hybrid microarchitectures over TiO2 seeded FTO substrates. <i>Applied Surface Science</i> , 2018 , 449, 122-13	1 ^{6.7}	8
375	Solar Paint from TiO Particles Supported Quantum Dots for Photoanodes in Quantum Dot-Sensitized Solar Cells. <i>ACS Omega</i> , 2018 , 3, 1102-1109	3.9	20
374	Synthesis of Polypyrrole Inverse Opals through an AirWater Interface Polymerization Method and Their Application in Dye-Sensitized Solar Cells. 2018 , 219, 1700489		2
373	Single-Layer TiO2 Film Composed of Mesoporous Spheres for High-Efficiency and Stable Dye-Sensitized Solar Cells. 2018 , 6, 3411-3418		20
372	Influence of defects of nanostructured ZnO films on the photovoltaic characteristics of perovskite solar cells. 2018 , 289, 012001		2
371	Quasi-Solid-State Dye-Sensitized Solar Cells Containing a Charged Thermoplastic Elastomeric Gel Electrolyte and Hydrophilic/phobic Photosensitizers. <i>Solar Rrl</i> , 2018 , 2, 1700145	7.1	10
370	Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO -Filmed Ultramicroelectrode. 2018 , 57, 3758-3762		40
369	Flexible lignin-derived electrospun carbon nanofiber mats as a highly efficient and binder-free counter electrode for dye-sensitized solar cells. 2018 , 53, 7637-7647		20
368	Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO2-Filmed Ultramicroelectrode. 2018 , 130, 3820-3824		14
367	Dye-Sensitized Photoelectrochemical Cells. 2018 , 503-565		2
366	Improvement in Energy Conversion Efficiency by Modification of Photon Distribution within the Photoanode of Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2018 , 3, 698-705	3.9	16

365	New iodide-based amino acid molecules for more sustainable electrolytes in dye-sensitized solar cells. 2018 , 20, 1059-1064	5
364	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. 2018 , 160, 64-75	14
363	Monte Carlo simulation for optimization of a simple and efficient bifacial DSSC with a scattering layer in the middle. 2018 , 161, 64-73	10
362	Improved efficiency of ZnO hierarchical particle based dye sensitized solar cell by incorporating thin passivation layer in photo-anode. 2018 , 124, 1	9
361	Ellipsoidal TiO2 mesocrystals as bi-functional photoanode materials for dye-sensitized solar cells. 2018 , 261, 365-374	10
360	Improving on the interparticle connection for performance enhancement of flexible quantum dot sensitized solar cells. 2018 , 105, 91-97	4
359	Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular Photovoltaics. 2018 , 2, 1108-1117	189
358	Photoelectrochemical Performance for Water Oxidation Improved by Molecular Nickel Porphyrin-Integrated WO /TiO Photoanode. 2018 , 11, 1746-1750	18
357	Interrelationship between the Ancillary Ligand Structure, AcidBase Properties, and TiO2 Surface Coverage of Rull Dyes. 2018 , 2018, 2680-2688	5
356	Porphyrin sensitizers containing an auxiliary benzotriazole acceptor for dye-sensitized solar cells: Effects of steric hindrance and cosensitization. 2018 , 155, 323-331	28
355	Scanning photocurrent microscopy of 3D printed light trapping structures in dye-sensitized solar cells. 2018 , 180, 103-109	16
354	Wide-Range Near-Infrared Sensitizing 1 H-Benzo[c, d]indol-2-ylidene-Based Squaraine Dyes for Dye-Sensitized Solar Cells. 2018 , 83, 4389-4401	14
353	The colour rendering index and correlated colour temperature of dye-sensitized solar cell for adaptive glazing application. 2018 , 163, 537-544	49
352	A novel synthesis of the bottom-straight and top-bent dual TiO2 nanowires for dye-sensitized solar cells. 2018 , 29, 1455-1462	8
351	Influence of photoanode architecture on light scattering mechanism and device performance of dye-sensitized solar cells using TiO2 hollow cubes and nanoparticles. 2018 , 86, 81-91	9
350	Synergistic effects of inter- and intra-particle porosity of TiO2 nanoparticles on photovoltaic performance of dye-sensitized solar cells. 2018 , 266, 214-222	7
349	Studies on the efficiency enhancement of co-sensitized, transparent DSSCs by employment of core-shell-shell gold nanorods. 2018 , 470, 407-415	5
348	An alternate method to extract performance characteristics in dye sensitized solar cells. 2018 , 154, 640-655	2

347	Freeze-casted TiO2 photoelectrodes with hierarchical porous structures for efficient light harvesting ability in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018 , 449, 405-411	6.7	3
346	Synthesis and properties of new benzothiadiazole-based push-pull dyes for p-type dye sensitized solar cells. 2018 , 148, 154-166		21
345	Porphyrins as Multifunctional Interconnects in Networks of ZnO Nanoparticles and their Application in Dye-Sensitized Solar Cells. 2018 , 2, 213-222		6
344	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. 2018 , 6, 702-734		106
343	Interfacial electron transfer yields in dye-sensitized NiO photocathodes correlated to excited-state dipole orientation of ruthenium chromophores. 2018 , 96, 865-874		9
342	An investigation of the dye-sensitized solar cell performance using graphene-titania (TrGO) photoanode with conventional dye and natural green chlorophyll dye. 2018 , 74, 267-276		28
341	Effect of cerium ion modifications on the photoelectrochemical properties of TiO2-based dye-sensitized solar cells. 2018 , 75, 102-108		12
340	Unravelling the effect of charge dynamics at the plasmonic metal/semiconductor interface for CO photoreduction. 2018 , 9, 4986		94
339	Improving Interfacial Charge-Transfer Transitions in Nb-Doped TiO2 Electrodes with 7,7,8,8-Tetracyanoquinodimethane. 2018 , 8, 367		2
338	Electrochemical and Photoelectrochemical Properties of Nickel Oxide (NiO) With Nanostructured Morphology for Photoconversion Applications. 2018 , 6, 601		29
337	Polyaniline (PANI)/reduced graphene oxide (rGO) composite as a counter electrode for dye solar cells 2018 , 1123, 012012		4
336	Facile fabrication of hyper-branched TiO2 hollow spheres for high efficiency dye-sensitized solar cells. 2018 , 174, 888-896		4
335	Synthesis, Morphological Analysis and Photovoltaic Performance of Thallium- and Yttrium-Doped Titanium Dioxide-Based Dye-Sensitized Solar Cells. 2018 , 47, 6193-6209		4
334	Organic Sensitizers with Extended Conjugation Frameworks as Cosensitizers of Porphyrins for Developing Efficient Dye-Sensitized Solar Cells. 2018 , 10, 38880-38891		51
333	TiCl4-free 100.6 cm2 active area dye-sensitized solar cells with ~8% power conversion efficiency. 2018 , 176, 320-324		1
332	Designing Novel Poly(oxyalkylene)-Segmented Ester-Based Polymeric Dispersants for Efficient TiO Photoanodes of Dye-Sensitized Solar Cells. 2018 , 10, 38394-38403		2
331	Hysteresis in Hole-free Perovskite Solar Cells with Carbon Counter Electrode Doped Reduced Graphene Oxide (RGO). 2018 , 210, 02046		
330	Improved Performance of Dye-Sensitized Solar Cells with TiO2 Nanoparticles/Zn-Doped TiO2 Hollow Fiber Photoanodes. 2018 , 11, 2922		27

329	Data on the porphyrin effect and influence of dopant ions on dye as sensitizer in dye-sensitized solar cells. 2018 , 20, 2020-2026	5
328	In-situ temperature and thickness control grown 2D-MoS2 via pulsed laser ablation for photovoltaic devices. 2018 , 174, 286-295	19
327	Carbon Counter Electrodes for Dye-Sensitized and Perovskite Solar Cells. 2018, 457-485	1
326	Molecular engineering of ruthenium-diacetylide organometallic complexes towards efficient green dye for DSSC. 2018 , 158, 326-333	8
325	High-performance dye-sensitized solar cells using Ag-doped CoS counter electrodes 2018 , 8, 18792-18799	13
324	Organic Sensitizers for Photoanode Water Splitting in Dye-Sensitized Photoelectrochemical Cells. 2018 , 5, 2395-2402	9
323	Research on optimal solar array layout for near-space airship with thermal effect. 2018, 170, 1-13	14
322	Synthesis, structural characterization and antimicrobial activities of polyindole stabilized Ag-Co3O4 nanocomposite by reflux condensation method. 2018 , 216, 305-315	15
321	Brookite-Based Dye-Sensitized Solar Cells: Influence of Morphology and Surface Chemistry on Cell Performance. 2018 , 122, 14277-14288	10
320	Numerical simulation of highly efficient dye sensitized solar cell by replacing the liquid electrolyte with a semiconductor solid layer. 2018 , 169, 214-223	8
319	Performance analysis of (hbox {TiO}_{2})-flavylium compound-based dye-sensitized solar cell (DSSC): a DFTIIDDFT approach. 2018 , 17, 1143-1152	6
318	Optimization of TiO2/MWCNT composites for efficient dye sensitized solar cells. 2018 , 29, 12681-12689	5
317	Using nanodiamond particles in photoanode of dye-sensitised solar cell. 2018 , 13, 154-156	2
316	Dye-Sensitized Solar Cells Prepared with Mexican Pre-Hispanic Dyes. 2018 , 2018, 1-8	11
315	Erbium-doped nanoparticles/films for enhancing percentage photodegradation of direct red-31 dye. 2018 , 29, 14960-14970	6
314	Test of Different Sensitizing Dyes in Dye-Sensitized Solar Cells Based on Nb2O5 Photoanodes. 2018 , 11, 975	5
313	Anisotropic One-Dimensional Aqueous Polymer Gel Electrolyte for Photoelectrochemical Devices: Improvement in Hydrophobic TiO2Dye/Electrolyte Interface. 2018 , 1, 3665-3673	29
312	SiO2-TiO2 doped with Er3+/Yb3+/Eu3+ photoluminescent material: A spectroscopy and structural study about potential application for improvement of the efficiency on solar cells. 2018 , 107, 295-307	18

311	A review of transparent solar photovoltaic technologies. 2018 , 94, 779-791	213
310	Ruthenium Complexes as Sensitizers in Dye-Sensitized Solar Cells. 2018 , 6, 52	69
309	Solvent free solid-state synthesis of Pr6O11/g-C3N4 visible light active photocatalyst for degradation of AV7 dye. 2018 , 107, 154-163	3
308	TiO2/TNO homojunction introduced in a dye-sensitized solar cell with a novel TNO transparent conductive oxide film. 2018 , 101, 5071-5079	2
307	Effect of AOT Microemulsion Composition on the Hydrodynamic Diameter and Electrophoretic Mobility of Titanium Oxide Nanoparticles. 2018 , 92, 948-954	2
306	Screen Printed PbDIFilms and Their Application to Photoresponsive and Photoelectrochemical Devices. 2018 , 11,	4
305	PTA-based ruthenium complexes as photosensitizers for dye-sensitized solar cells. 2018 , 557, 14-19	4
304	SnO Transparent Printing Pastes from Powders for Photon Conversion in SnO -Based Dye-Sensitized Solar Cells. 2019 , 25, 14205-14213	6
303	Dye sensitized solar cells based on double-layered titanium dioxide and their evaluation in tropical hot desert climate of Saudi Arabia. 2019 , 133, 106206	2
302	Solar cells sensitized with porphyrin dyes with a carbazole donor: The effects of an auxiliary benzothiadiazole acceptor and bulky substituents on the donor. 2019 , 171, 107776	11
301	Design of SnO2@Air@TiO2 hierarchical urchin-like double-hollow nanospheres for high performance dye-sensitized solar cells. 2019 , 189, 412-420	8
300	Optimizing a Simple Natural Dye Production Method for Dye-Sensitized Solar Cells: Examples for Betalain (Bougainvillea and Beetroot Extracts) and Anthocyanin Dyes. 2019 , 9, 2515	31
299	Tuning Anatase-Rutile Phase Transition Temperature: TiO2/SiO2 Nanoparticles Applied in Dye-Sensitized Solar Cells. 2019 , 2019, 1-9	11
298	One-Step Synthesis of TiO/Graphene Nanocomposites by Laser Pyrolysis with Well-Controlled Properties and Application in Perovskite Solar Cells. <i>ACS Omega</i> , 2019 , 4, 11906-11913	21
297	Variation in hydrophobic chain length of co-adsorbents to improve dye-sensitized solar cell performance. 2019 , 21, 16771-16778	6
296	Low cost greendye sensitized solar cells based on New Fuchsin dye with aqueous electrolyte and platinum-free counter electrodes. 2019 , 188, 913-923	17
295	Inhibiting Charge Recombination in -Ru(NCS) Diimine Sensitizers with Aromatic Substituents. 2019 , 11, 43223-43234	4
294	Simulation study on bubble motion in capillaries based on lattice boltzmann method. 2019 , 1300, 012008	

293	Phenothiazine-based derivatives for optoelectronic applications: A review. 2019 , 257, 116189	32
292	Doped quaternary metal chalcogenides Cu2ZnSnS4 nanocrystals as efficient light harvesters for solar cell devices. 2019 , 30, 20860-20869	2
291	Thin-film coating; historical evolution, conventional deposition technologies, stress-state micro/nano-level measurement/models and prospects projection: a critical review. 2019 , 6, 122001	21
290	Graphene/TiO2 Nanocomposites: Synthesis Routes, Characterization, and Solar Cell Applications. 2019 , 353-394	1
289	Output performance Optimization of High-Altitude Airship based on Attitude and Solar Array Layout. 2019 ,	O
288	Post-treatment of Nb2O5 compact layer in dye-sensitized solar cells for low-level lighting applications. 2019 , 30, 15105-15115	6
287	Optimizing Dye Adsorption in GraphenelliO2 Photoanodes for the Enhancement of Photoconversion Efficiency of DSSC Devices. 2019 , 9, 1240-1248	6
286	Facile Interfacial Engineering of Mesoporous TiO for Low-Temperature Processed Perovskite Solar Cells. 2019 , 9,	5
285	Highly ordered combined structure of anodic TiO2 nanotubes and TiO2 nanoparticles prepared by a novel route for dye-sensitized solar cells. 2019 , 23, 1231-1240	4
284	Study of Dye Sensitized Solar Cell using Mirabilis Jalapa Flower Extract. 2019 , 8, 357-361	1
283	Design and Fabrication of Long-Term Stable Dye-Sensitized Solar Cells: Effect of Water Contents in Electrolytes on the Performance. 2019 , 6, 125-131	7
282	High performance flexible dye-sensitized solar cells base on multiple functional optimizations. 2019 , 180, 423-428	5
281	Geometric Effect of Grating-Patterned Electrode for High Conversion Efficiency of Dye-Sensitized Solar Cells. 2019 , 1, 161-166	3
280	Fully Ambient Air Processed Perovskite Solar Cell Based on Co(Co,Cr)2O4/TiO2 PN Heterojunction Array in Photoanode. 2019 , 123, 4044-4055	5
279	Performance of CoTiO3 as an oxide perovskite material for the light scattering layer of dye-sensitized solar cells. 2019 , 43, 3760-3768	13
278	Fabrication of a patterned Pt counter electrode for dye-sensitized solar cells using neutralized H2PtCl6[6H2O paste. 2019 , 18, 163-166	2
277	Dye-sensitized solar cells with shear-exfoliated graphene. 2019 , 180, 16-24	10
276	Synthesis of near-infrared absorbing and fluorescing thiophene-fused BODIPY dyes with strong electron-donating groups and their application in dye-sensitised solar cells. 2019 , 43, 1156-1165	19

275	Preparation of Nano-Ag-TiO2 Composites by Co-60 Gamma Irradiation to Enhance the Photocurrent of Dye-Sensitized Solar Cells. 2019 , 2019, 1-8	1
274	ZnO-based dye-sensitized solar cells. 2019 , 145-204	1
273	Progress on Electrolytes Development in Dye-Sensitized Solar Cells. 2019 , 12,	95
272	Effect of annealing on the photocatalytic activity of chemically prepared TiO2 thin films under visible light. 2019 , 193, 163006	5
271	An evaluation of fluorinated titanium oxide nanocrystals with UV exposure treatment for oxygen vacancy control. <i>Applied Surface Science</i> , 2019 , 489, 824-830	2
270	Judging the feasibility of TiO as photocatalyst for chemical energy conversion by quantitative reactivity determinants. 2019 , 21, 13144-13150	11
269	Thiazolocatechol: Electron-Withdrawing Catechol Anchoring Group for Dye-Sensitized Solar Cells. 2019 , 20, 2689-2695	3
268	Renaissance of Fused Porphyrins: Substituted Methylene-Bridged Thiophene-Fused Strategy for High-Performance Dye-Sensitized Solar Cells. 2019 , 141, 9910-9919	125
267	Pulsed Laser Fabrication of TiO Buffer Layers for Dye Sensitized Solar Cells. 2019 , 9,	8
266	Energy-Level Control via Molecular Planarization and Its Effect on Interfacial Charge-Transfer Processes in Dye-Sensitized Solar Cells. 2019 , 123, 13531-13537	15
265	Azulenocyanines immobilized on graphene; on the way to panchromatic absorption and efficient DSSC blocking layers. 2019 , 11, 10709-10715	16
264	Novel 4,4?-bis(alkylphenyl/alkyloxyphenyl)-2,2?-bithiophene bridged cyclic thiourea functionalized triphenylamine sensitizers for efficient dye-sensitized solar cells. 2019 , 186, 1-8	16
263	Activated coconut shell charcoal based counter electrode for dye-sensitized solar cells. 2019, 71, 93-97	25
262	Homoleptic and Heteroleptic Copper Complexes as Redox Couples in Dye-Sensitized Solar Cells. 2019 , 3, 636	5
261	Energy Harvesting Under Dim-Light Condition With Dye-Sensitized and Perovskite Solar Cells. 2019 , 7, 209	32
260	Hydrothermally grown ZnO nanoparticles for photodegradation of textile dye. 2019,	6
259	The study of nitroxide radical redox-couple and anatase surface interaction: a guide to choose the best sensitizer. 2019 , 138, 1	3
258	Screen printing process control for coating high throughput titanium dioxide films toward printable mesoscopic perovskite solar cells. 2019 , 12, 344-351	13

257	Improving the Performance of Dye-Sensitized Solar Cells. 2019 , 7, 77	57
256	An Ultrasonication Based Facile Protocol to Synthesize Mesoporous Nanocrystalline TiO2 as Photo Anode for Application in Quantum Dot/Perovskite Sensitized Solar Cell. 2019 , 48, 3183-3193	2
255	Solar Cells Sensitized with Porphyrin Dyes Containing Oligo(Ethylene Glycol) Units: A High Efficiency Beyond 12 . 2019 , 12, 2802-2809	22
254	Controlled synthesis of symbiotic structured TiO2 microspheres to improve the performance of dye-sensitized solar cells. 2019 , 183, 587-593	13
253	A Comparative Study of TiO2 Paste Preparation Methods Using Solvothermally Synthesised Anatase Nanoparticles in Dye-Sensitised Solar Cells. 2019 , 9, 979	1
252	Analyzing of DSSCs Fabricated by Nb:TiO2 Characterized and Synthesized with Sol G el in the Magnetic Field. 2019 , 48, 3208-3219	O
251	Colloidally synthesized defect-rich (hbox {MoSe}_{2}) nanosheets for superior catalytic activity. 2019 , 42, 1	8
250	Silver nanoparticles produced by laser ablation for a study on the effect of SERS with low laser power on N719 dye and Rhodamine-B. 2019 , 4, 723-731	2
249	Design and optical characterisation of an efficient light trapping structure for dye-sensitized solar cell integrated windows. 2019 , 12, 41-49	5
248	Polypyrrole/Ionic Liquid/Au Nanoparticle Counter-Electrodes for Dye-Sensitized Solar Cells: Improving Charge-Transfer Resistance at the CE/Electrolyte Interface. <i>Journal of the</i> 3.9 Electrochemical Society, 2019 , 166, H3188-H3194	5
247	3-Mercaptopropionic, 4-Mercaptobenzoic, and Oleic Acid-Capped CdSe Quantum Dots: Interparticle Distance, Anchoring Groups, and Surface Passivation. 2019 , 2019, 1-9	6
246	Targeted and selective HOMO energy control by fine regulation of molecular planarity and its effect on the interfacial charge transfer process in dye-sensitized solar cells. 2019 , 21, 6256-6264	6
245	A carbon doped anatase TiO2 as a promising semiconducting layer in Ru-dyes based dye-sensitized solar cells. 2019 , 489, 263-268	17
244	Facile Secondary Deposition for Improving Quantum Dot Loading in Fabricating Quantum Dot Solar Cells. 2019 , 141, 4300-4307	47
243	Demonstration of Photovoltaic Action and Enhanced Stability from a Quasi-Two-Dimensional Hybrid OrganicIhorganic Copper⊞alide Material Incorporating Divalent Organic Groups. 2019 , 2, 2178-2187	3
242	Influence of One Specific Carbonflarbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid Organicshorganic Bismuth Iodide Materials. 2019 , 2, 1579-1587	4
241	Optimizing room temperature binder free TiO 2 paste for high efficiency flexible polymer dye sensitized solar cells. 2019 , 4, 015007	5
240	The deterministic role of resonance energy transfer in the performance of bio-inspired colloidal silver nanoparticles incorporated dye sensitized solar cells. 2019 , 114, 28-36	8

239	Transition metal oxides as Pt-free counter electrodes for liquid-junction photovoltaic devices. 2019 , 57, 784-791	4
238	Intrinsic anomalous scaling of epitaxial vanadium dioxide thin films on titanium dioxide. 2019 , 9, 095045	2
237	Enhanced photocatalytic water splitting of a SILAR deposited FeO film on TiO nanoparticles 2019 , 9, 31860-31866	5
236	Magnetically separable indium doped ZnSNiFe2O4 heterostructure photocatalyst for mineralization of acid violet 7 dye. 2019 , 221, 483-492	8
235	Effect of TiCl4-based TiO2 compact and blocking layers on efficiency of dye-sensitized solar cells. 2019 , 66, 459-466	4
234	Structure-property relationships: D ouble-tail versus double-flaplfuthenium complex structures for high efficiency dye-sensitized solar cells. 2019 , 177, 724-736	14
233	Photovoltaic applications: Status and manufacturing prospects. 2019 , 102, 318-332	50
232	Dye-Sensitized Solar Cells as Potential Candidate for Indoor/Diffused Light Harvesting Applications: From BIPV to Self-powered IoTs. 2019 , 281-316	13
231	ABC-ABC-Type Directly meso-meso Linked Porphyrin Dimers. 2019 , 25, 538-547	8
230	Hydrothermal growth of a composite TiO2 hollow spheres/TiO2 nanorods powder and its application in high performance dye-sensitized solar cells. 2019 , 833, 143-150	12
229	New LbL-TiO2/ZnO Compact Films to Improve Performance of Dye-Sensitized Solar Cells. 2019 , 4, 265-270	1
228	Synthesis and applications of nano-TiO: a review. 2019 , 26, 3262-3291	139
227	Nature and photoreactivity of TiO2-rGO nanocomposites in aqueous suspensions under UV-A irradiation. 2019 , 241, 375-384	30
226	CNT fibres as dual counter-electrode/current-collector in highly efficient and stable dye-sensitized solar cells. 2019 , 141, 488-496	36
225	Efficiency improvement of TiO2 nanowire arrays based dye-sensitized solar cells through further enhancing the specific surface area. 2019 , 505, 62-68	8
224	An unconventional helical push-pull system for solar cells. 2019 , 161, 382-388	6
223	Activated carbon doped WO3 for photocatalytic degradation of rhodamine-B. 2020 , 10, 869-877	19
222	The planarization of side chain in carbazole sensitizer and its effect on optical, electrochemical, and interfacial charge transfer properties. 2020 , 174, 108036	8

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221	Prospecting technologies for photovoltaic solar energy: Overview of its technical-commercial viability. <i>International Journal of Energy Research</i> , 2020 , 44, 651-668	4.5	12
220	Lily (Iris Persica) pigments as new sensitizer and TiO2 nanofibers as photoanode electrode in dye sensitized solar cells. 2020 , 202, 163710		5
219	Diketopyrrolopyrrole/perylene-diimide and thiophene based D-EA low bandgap polymer sensitizers for application in dye sensitized solar cells. 2020 , 174, 108032		9
218	Prospective life cycle assessment of third-generation photovoltaics at the pre-industrial scale: A long-term scenario approach. 2020 , 121, 109703		37
217	Diatom frustules enhancing the efficiency of gel polymer electrolyte based dye-sensitized solar cells with multilayer photoelectrodes. 2020 , 2, 199-209		10
216	Designed structure of bilayer TiO2Nb2O5 photoanode for increasing the performance of dye-sensitized solar cells. 2020 , 31, 2298-2307		4
215	Efficiency and Stability Enhancement of Fully Ambient Air Processed Perovskite Solar Cells Using TiO2 Paste with Tunable Pore Structure. 2020 , 7, 1900939		4
214	Facile synthesis of hollow urchin-like Nb2O5 nanostructures and their performance in dye-sensitized solar cells. 2020 , 24, 273-281		3
213	Chemically tuned, bi-functional polar interlayer for TiO2 photoanodes in fibre-shaped dye-sensitized solar cells. 2020 , 8, 2549-2562		9
212	Paper Dye-Sensitized Solar CellBased on Carbon-Nanotube-Composite Papers. 2020, 13, 57		5
211	Effect of Ligand Structures of Copper Redox Shuttles on Photovoltaic Performance of Dye-Sensitized Solar Cells. 2020 , 59, 452-459		27
210	A review on spectral converting nanomaterials as a photoanode layer in dye-sensitized solar cells with implementation in energy storage devices. 2020 , 2, e120		7
209	Role of dye-induced corrosion in determining the efficiency of ZnO-based DSSC: the case of ZnO nanoforest in N719. 2020 , 31, 2202-2220		8
208	Sustainable Advanced Manufacturing of Printed Electronics: An Environmental Consideration. 2020		5
207	Quantitative methods for evaluating the conversion performance of spectrum conversion films and testing plant responses under simulated solar conditions. 2020 , 61, 999-1009		5
206	Comprehensive performance analysis of dye-sensitized solar cells using single layer TiO2 photoanode deposited using screen printing technique. 2020 , 223, 165595		2
205	Enhancing the electron transfer process of TiO2-based DSSC using DC magnetron sputtered ZnO as an efficient alternative for blocking layer. 2020 , 86, 105915		6
204	New tetrazole based dyes as efficient co-sensitizers for dsscs: Structure-properties relationship. 2020 , 87, 105964		8

203	Design and fabrication of carbon dots decorated WO3 nanosheets hybrid photoanodes for sunlight-driven dye-sensitized solar cell applications. 2020 , 31, 14553-14562	1
202	Ferroelectric polyoxometalate-modified nano semiconductor TiO2 for increasing electron lifetime and inhibiting electron recombination in dye-sensitized solar cells. 2020 , 7, 3072-3080	5
201	Dye-sensitized solar cells (DSSCs) as a potential photovoltaic technology for the self-powered internet of things (IoTs) applications. 2020 , 207, 874-892	47
200	Heavy Metal Effects on the Photovoltaic Properties of Metallocorroles in Dye-Sensitized Solar Cells. 2020 , 3, 12460-12467	9
199	Origin of the electrocatalytic activity in carbon nanotube fiber counter-electrodes for solar-energy conversion. 2020 , 2, 4400-4409	6
198	Impact of Tin concentration in ITO films on Optoelectronic sensor performance. 2020 , 872, 012168	
197	Solvent Effects on Dye Sensitizers Derived from Anthocyanidins for Applications in Photocatalysis. 2020 ,	2
196	Photoelectrochemical performance of thermally sulfurized CdxZn1-xS photoanode: Enhancement with reduced graphene oxide support. 2020 , 162, 182-195	5
195	Reduced energy band offset between photoanode and dye in SnO2-based DSCs with Cu doping. 2020 , 95, 2201	1
194	Optimization of Photogenerated Charge Carrier Lifetimes in ALD Grown TiO for Photonic Applications. 2020 , 10,	8
193	TiO2/GO nanocomposites: synthesis, characterization, and DSSC application. 2020, 135, 1	4
192	Polyiodide solid-state dye-sensitized solar cell produced from a standard liquid I/13lelectrolyte. 2020 , 8, 19991-19999	7
191	Bifacial Dye-Sensitized Solar Cells with Enhanced Light Scattering and Improved Power Conversion Efficiency under Full Sun and Indoor Light Conditions. 2020 , 3, 12584-12595	14
190	Optical properties of Red pigment for Dye Sensitized Solar Cells. 2020 , 948, 012021	3
189	Enhanced efficiency of dye co-sensitized solar cells based on pulsed-laser-synthesized cadmium-selenide quantum dots. 2020 , 209, 108-117	10
188	Replication of the Surface Wettability of Plant Leaves with Different Surface Morphologies Using Soft Lithography. 2020 , 19, 1950018	1
187	Controlling dye coverage instead of addition of organic acid to reduce dye aggregation in dye-sensitized solar cells. 2020 , 202, 507-513	2
186	Spectroscopic insights into high defect tolerance of Zn:CuInSe2 quantum-dot-sensitized solar cells. 2020 , 5, 409-417	35

(2020-2020)

185	Photocurrent generation by a photosystem I-NiO photocathode for a p-type biophotovoltaic tandem cell 2020 , 10, 15734-15739	7
184	Nanostructured photoanode materials and their deposition methods for efficient and economical third generation dye-sensitized solar cells: A comprehensive review. 2020 , 129, 109919	29
183	Efficiency enhancement in dye-sensitized solar cells using hierarchical TiO2 submicron size spheres as a light scattering layer. 2020 , 24, 2261-2269	2
182	Hybrid 1D/2D Carbon Nanostructure-Incorporated Titania Photoanodes for Perovskite Solar Cells. 2020 , 3, 6195-6204	10
181	Efficient dye-sensitized solar cell based on a new porphyrin complex as an inorganic photosensitizer. 2020 , 132, 1	
180	Synthesis and characterization of rhenium(I) 4,4?-dicarboxy-2,2?-bipyridine tricarbonyl complexes for solar energy conversion. 2020 , 511, 119815	6
179	Synthesis of platinum/reduced graphene oxide composite pastes for fabrication of cathodes in dye-sensitized solar cells with screen-printing technology. 2020 , 118, 108033	6
178	Unconventional Application of Direct Ink Writing: Surface Force-Driven Patterning of Low Viscosity Inks. 2020 , 12, 15875-15884	6
177	Eco-Friendly Sugar-Based Natural Deep Eutectic Solvents as Effective Electrolyte Solutions for Dye-Sensitized Solar Cells. 2020 , 7, 1707-1712	12
176	Functionalized metal oxide nanoparticles for efficient dye-sensitized solar cells (DSSCs): A review. 2020 , 3, 472-481	30
175	Electrical Potential and Topography of the Surface of a Calcium-Phosphate Coating Deposited with RF-Magnetron Discharge. 2020 , 14, 200-206	3
174	Tandem system of dyes sensitized solar cellphoto electro chemical (DSSC-PEC) employing TiO2 nanotube/BiOBr as dark cathode for nitrogen fixation. 2020 ,	
173	Effect of TiO2 particle and pore size on DSSC efficiency. 2020 , 9, 1	6
172	Ruthenium complexes based dye sensitized solar cells: Fundamentals and research trends. 2020 , 207, 59-76	42
171	Nanoporous NiO nanosheets-based nanohybrid catalyst for efficient reduction of triiodide ions. 2020 , 197, 546-552	8
170	Increase the Quantum Dots Sensitized TiO2 Solar Cell Efficiency Adding n%Yb3+¶%Er3+ Doped NaYF4: Submicrometer-Sized Rods. 2020 , 10, 785-794	2
169	Al/Zn co-incorporated Cu I hBe quantum dots for high efficiency quantum dot sensitized solar cells. 2020 , 44, 4304-4310	5
168	Biomolecular photosensitizers for dye-sensitized solar cells: Recent developments and critical insights. 2020 , 121, 109678	54

Effects of TiO2 Blocking Layer on Photovoltaic Characteristics of TiO2/Nb2O5 Dye Sensitized Solar 167 Cells. 2020, 5, 1049-1058 166 Multifunctional nanostructured materials for next generation photovoltaics. 2020, 70, 104480 25 Dye-Sensitized Solar Cell. 2020, 287-333 165 Cation Effects in p-Type Dye-Sensitized Solar Cells. 2020, 3, 1496-1505 164 7 Impact of the implementation of a mesoscopic TiO2 film from a low-temperature method on the 163 2 performance and degradation of hybrid perovskite solar cells. 2020, 201, 836-845 Refractory plasmonics enabling 20% efficient lead-free perovskite solar cells. 2020, 10, 6732 162 15 Achieving a superior electrocatalytic activity of carbon cloth via atomic layer deposition as a 161 7 flexible counter electrode for efficient dye-sensitized solar cells. 2020, 458, 228043 Design, synthesis, and photophysical properties of Re(I) tricarbonyl 1,10-phenanthroline 160 4 complexes. 2021, 1223, 128739 Y-shaped organic dyes with D2A configuration as efficient co-sensitizers for ruthenium-based 12 159 dye sensitized solar cells. 2021, 481, 228952 158 Charge accumulation kinetics in multi-redox molecular catalysts immobilised on TiO. 2020, 12, 946-959 6 Tunable synthesis of mesoporous titania with different morphologies for dye-sensitized solar cells. 1 157 2021, 32, 99-105 Enhanced photovoltaic performance of quantum-dot-sensitized solar cells using Graphene/Cu2-xSe 156 9 composite counter electrode. 2021, 851, 156869 Micro-wheels composed of self-assembled tungsten oxide nanorods supported platinum counter 155 3 electrode for highly efficient liquid-junction photovoltaic devices. 2021, 214, 214-219 Apparatus-dependent sol-gel synthesis of TiO2 nanoparticles for dye-sensitized solar cells. 2021, 154 42, 432-439 Selective suppression of {112} anatase facets by fluorination for enhanced TiO2 particle size and 153 \circ phase stability at elevated temperatures. Sustainable biomaterials for solar energy technologies. **2021**, 557-592 152 Optically Active Metal Oxides for Photovoltaic Applications. 2021, 165-195 151

Bioinspired solar cells: contribution of biology to light harvesting systems. 2021, 593-632

150

149	Dye-catalyst dyads for photoelectrochemical water oxidation based on metal-free sensitizers 2021 , 11, 5311-5319	2
148	Power Voltage Characteristics of Fabricated DSSC Incorporating Multiple Organic Dyes as Photosensitizer. 2021 , 13, 221-235	1
147	Advanced research trends in dye-sensitized solar cells. 2021 , 9, 10527-10545	64
146	Nanocrystalline TiO2 Films: Synthesis and Low-Temperature Luminescent and Photovoltaic Properties. 2021 , 66, 117-123	2
145	Augmentation in photocurrent through organic ionic plastic crystals as an efficient redox mediator for solid-state mesoscopic photovoltaic devices. 2021 , 5, 1466-1476	2
144	Conjugating pillararene dye in dye-sensitized solar cells. 2021 , 2, 100326	6
143	Interfacial Engineering at Quantum Dot-Sensitized TiO Photoelectrodes for Ultrahigh Photocurrent Generation. 2021 , 13, 6208-6218	1
142	The Rise of Dye-Sensitized Solar Cells: From Molecular Photovoltaics to Emerging Solid-State Photovoltaic Technologies. 2021 , 104, e2000230	8
141	Dye-Sensitized Nonstoichiometric Strontium Titanate Core-Shell Photocathodes for Photoelectrosynthesis Applications. 2021 , 13, 15261-15269	1
140	Improving Ag-TiO2nanocompositeslturrent density by TiCl4 pretreated on FTO glass for dye-sensitised solar cells. 2021 , 16, 381-386	O
139	The effect of TEOS concentration in polysulphide electrolyte and CuS counter electrode on enhancing the performance of CdS quantum dot sensitized solar cells. 2021 , 51, 1111	1
138	Effect of different dosage of gamma irradiation on quasi-solid-state conducting polymer electrolyte and its application as high performance dye-sensitized solar cells. 2021 , 176, 651-661	
137	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. 2021 , 1, 409-426	19
136	Stepwise optimizing photovoltaic performance of dye-sensitized cells made under 50-lux dim light. 2021 , 29, 533-545	O
135	Efficiency enhancement in dye-sensitized solar cells with co-sensitized, triple layered photoanode by enhanced light scattering and spectral responses. 2021 , 44, 1	1
134	Effects of side substituents in bithiophene spacer on the performance of dye-sensitized solar cells with cobalt electrolyte. 2021 , 218, 503-511	4
133	Evaluation of the Suitability of Natural Flower Dyes Spectra on Dye-Sensitized Solar Cell (DSSC) Containing TiO2 and I-/I-3 With Respect to Stability and Efficiency. 2021 , 11, 838-846	0
132	The effect of graphene quantum dots/ZnS co-passivation on enhancing the photovoltaic performance of CdS quantum dot sensitized solar cells. <i>International Journal of Energy Research</i> , 4. 2021 , 45, 15879-15891	.5 2

131	Modeling and performance analysis of dye-sensitized solar cell based on ZnO compact layer and TiO2 photoanode. 2021 ,	1
130	An approach for designing smart manufacturing for the research and development of dye-sensitize solar cell. 1	
129	A novel porphyrin dye with phenoxazine as donor unit for efficient dye-sensitized solar cells. 2021 , 190, 109308	3
128	Electrical Characterization and Efficiency Enhancement of Dye Sensitized Solar Cell Using Natural Sensitizer and TiO2 Nanoparticles Deposited by Electrophoretic Technique. 2021 , 11, 1004-1013	Ο
127	Tandem DSSC fabrication by controlled infiltration of organic dyes in mesoporous electrode using electric-field assisted spray technique. 2021 , 223, 318-325	2
126	Low-cost Preparation of WO3/BiVO4 Nanocomposite Photoanodes for Photoelectrochemical Water Oxidation. 2021 , 812, 012007	
125	Enhancement in photoelectric performance of dye-sensitized solar cells with inverted pyramid structures based on nanoimprint lithography. 2021 , 11, 075103	O
124	Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions. 2021 , 192, 109227	26
123	A Statistical Study of Assembly Parameter Modifications Effects on the Photovoltaic Response of Dye-Sensitized Solar Cells. 2021 , 50, 6149-6158	1
122	Effect of ZnO Nanomaterial and Red and Green Cabbage Dyes on the Performance of Dye-Sensitised Solar Cells. 2021 , 11, 1057	1
121	Low dye content efficient dye-sensitized solar cells using carbon doped-titania paste from convenient green synthetic process. 2021 , 525, 120487	
120	Performance analysis of TiO2 based dye sensitized solar cell prepared by screen printing and doctor blade deposition techniques. 2021 , 226, 9-19	8
119	Optimal Dye Sensitized Solar Cell and Photocapacitor Performance with Efficient Electrocatalytic SWCNH Assisted Carbon Electrode.	5
118	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatforms as Building Blocks for Photovoltaic Energy Applications. 2021 , 9, 727574	O
117	Plasmonic enhancement of visible light absorption in Ag-TiO2 based dye-sensitized solar cells. 2021 , 3, 100037	2
116	Dye-sensitized solar cells strike back. 2021 , 50, 12450-12550	38
115	Supramolecular organicihorganic domains integrating fullerene-based acceptors with polyoxometalate-bis-pyrene tweezers for organic photovoltaic applications.	2
114	A brief review on carbon nanomaterial counter electrodes for N719 based dye-sensitized solar cells. 2021 , 43, 2975-2978	3

(2009-2021)

113	Effect of Au Nanoparticles and Scattering Layer in Dye-Sensitized Solar Cells Based on Freestanding TiO Nanotube Arrays. 2021 , 11,	1
112	A Combined Experimental and Computational Study of Chrysanthemin as a Pigment for Dye-Sensitized Solar Cells. 2021 , 26,	2
111	Enhancement of interface transportation using atomic layer deposition fabricated ultrathin InN for quantum dot solar cells. 2021 , 70, 187702-187702	
110	Precursor Modification and Refluxing Effects on Titania Nanostructures Prepared via Sol Gel Reflux Synthesis. 127-134	1
109	Harvesting Solar Energy Using Inexpensive and Benign Materials. 2012 , 1217-1261	2
108	Solar Energy. 2013 , 79-96	1
107	Plasmon-Enhanced Excitonic Solar Cells. 2014 , 515-544	3
106	New organic dyes with varied arylamine donors as effective co-sensitizers for ruthenium complex N719 in dye sensitized solar cells. 2020 , 451, 227776	22
105	Fine-tuning of charge transport properties of porphyrin donors for organic solar cell. 2020, 312, 113403	3
104	Template assisted nanoporous TiO2 nanoparticles: The effect of oxygen vacancy defects on photovoltaic performance of DSSC and QDSSC. 2018 , 159, 920-929	32
103	Graphene-Based Interconnects for Stable Dye-Sensitized Solar Modules. 2021 , 4, 98-110	5
102	CHAPTER 8. Hierarchical Nanostructures for Photo-Electro-Chemical Cells. 2014 , 174-203	1
101	Comparative study on deposition of fluorine-doped tin dioxide thin films by conventional and ultrasonic spray pyrolysis methods for dye-sensitized solar modules. 2018 , 8, 1	1
100	An Overview of the Operational Principles, Light Harvesting and Trapping Technologies, and Recent Advances of the Dye Sensitized Solar Cells (Review). 2020 , 56, 334-363	5
99	Review on Dye-Sensitized Solar Cells (DSSCs). 2018 , 145-150	18
98	Development of Macro-Porous Silicon Based Dye-Sensitized Solar Cells with Improved Light Trapping. 2016 , 7, 218-227	8
97	PREPARATION OF MESOPOROUS ZnO MICROSPHERES AND THEIR APPLICATION IN DYE?SENSITIZED SOLAR CELLS. 2010 , 29, 1-5	1
96	Study on Sol-hydrothermal Synthesis of TiO2 Nanoparticles and their Photoelectric Properties Sensitized by Dye. 2009 , 24, 1110-1114	2

95	Synthesis of Rutile TiO2 Nanorod and Application in Dye-sensitized Solar Cell. 2011 , 26, 119-122	7
94	Synthesis and Photocatalytic Properties of SnO2-Mixed and Sn-Doped TiO2Nanoparticles. 2012 , 22, 352-357	8
93	Photochromic dye-sensitized solar cells. 2015 , 2, 503-509	7
92	The Preparation of Dye-Sensitized Solar Cell Paste Used the Peroxo Titanium Complex and Characteristics by Annealing Temperature. 2015 , 22, 396-402	4
91	Effects of Ion Doping on the Optical Properties of Dye-Sensitized Solar Cells. 2014 , 04, 187-193	3
90	The Effect of a Sol-gel Formed TiO2Blocking Layer on the Efficiency of Dye-sensitized Solar Cells. 2011 , 32, 3629-3633	18
89	An Organic Nitrile Dye with Strong Donor and Acceptor Groups for Dye-Sensitized Solar Cells. 2011 , 32, 2083-2086	14
88	Solar Energy Conversion by the Regular Array of TiO2Nanotubes Anchored with ZnS/CdSSe/CdS Quantum Dots Formed by Sequential Ionic Bath Deposition. 2013 , 34, 856-862	5
87	Improved Energy Conversion Efficiency of Dye-sensitized Solar Cells Fabricated using Open-ended TiO2Nanotube Arrays with Scattering Layer. 2014 , 35, 1165-1168	10
86	CdSe-sensitized Photoelectrochemical Solar Cell Prepared by Spray Pyrolysis Deposition Method. 2011 , 14, 104-109	1
85	Electron-Density and Electron-Lifetime Profile in Nanocrystalline-TiO2 Electrode of Dye-Sensitized Solar Cells Analysed by Voltage Decay and Charge Extraction. 2011 , 2011, 1-5	1
84	Electrochemical Investigation of PEDOT Counter Electrode for Dye-Sensitized Solar Cells. 2021,	O
83	Terminal group engineering of organic co-sensitizers for thiourea dye based dye-sensitized solar cells. 2021 , 230, 312-320	1
82	Enhanced Dispersion of High Performance Dye-sensitized Solar Cells. 2009 , 22, 501-505	
81	Silver /Silver Oxide Nanoparticles as Potential Sensitizers in Dye-Sensitized Solar Cells. 2010 ,	
80	Transient 2D IR spectroscopy of charge injection at organic-inorganic interfaces. 2010 ,	
79	Effect of Electrochemical Properties and Optical Transmittance of Carbon Nanotubes Counter Electrodes on the Energy Conversion Efficiency of Dye-sensitized Solar Cells. 2011 , 24, 333-339	
78	Research of fluorescent properties of photo-induced electron transfer of 5(6)-carboxyfluorescein dye-sensitized TiO2 nanoparticles. 2012 , 61, 090505	

77	A Study on the ZnO Anti-reflection Layer of Dye Sensitized Solar Cell using Zinc Nitrate Solution. 2012 , 61, 705-710	
76	DSSCs Efficiency by Thickness of TiO2Photoelectrode and Thickness Differences Between Two Substrates. 2012 , 25, 537-542	1
75	Theory and Literature Survey: Application of BLH to Solar Cells. 2013, 95-116	
74	Examining Impact of Particle Deagglomeration Techniques on Microstructure and Properties of Oxide Materials Through Nanoindentation. 2014 , 231-250	
73	Improved Performance of Quasi-solid State Dye-Sensitized Solar Cells After Photoanode Surface Treatment with Novel Materials. 2014 , 361-372	
7 ²	DSSCs Efficiencies of Photo Electrode Thickness and Modified Photo Electrode Surface Area. 2014 , 27, 115-120	
71	Harvesting Solar Energy Using Inexpensive and Benign Materials. 2015, 1-35	
70	Effective Manufacture of Free-Standing TiO2 Nanotube Arrays Without Bottom Barrier Layer for Dye-Sensitized Solar Cell. 2015 , 963-978	
69	SCF Cycle Convergence, Structure Optimization, and Vibrational Modes of Coumarin (Benzopyrone). 2015 , 5, 206-217	
68	Preparation of iron diselenide/reduced graphene oxide composite and its application in dyesensitized solar cells. 2016 , 65, 118802	2
67	Introduction. 2017 , 1-40	
66	Numerical Analysis of Temperature Change in Sandwich Structure During Laser Sealing. 2017 , 11, 301-310	1
65	Electro-deposition under a modulated electrical field as an enhanced method for the preparation of an efficient photoanode of dye-sensitized solar cells. 2018 , 22, 157-167	
64	(199191) - 199191 - 111 - 	
63	Review on Dye-Sensitized Solar Cells (DSSCs). 2018 , 29-34	2
62	From Nanomaterials and Nanotechnologies to the Alternative Energy. 2018, 19, 442-486	O
61	Transformerless PV Three Level NPC Central Inverter. 2020 , 669-678	
60	One-step fabrication of high refractive index inorganic nanostructures. 1	

59	Investigations of anodization parameters and TiCl4 treatments on TiO2 nanostructures for highly optimized dye-sensitized solar cells. 2021 , 27, 101578	O
58	Basic Concepts, Engineering, and Advances in Dye-Sensitized Solar Cells. 2020 , 185-233	1
57	Development of dye-sensitized solar cell module and its optimization. 2022, 137-157	0
56	Comparing the planar and porous Nb-doped TiO2 photoanode of triple cation perovskite solar cells. 2022 , 138, 106259	1
55	Bifacial dye-sensitized solar cells utilizing green colored NIR sensitive unsymmetrical squaraine dye.	2
54	Synthesis of nitrogen and sulfur co-doped reduced graphene oxide by hydrothermal method for fabrication of cathodes in dye-sensitized solar cells. 2022 , 31, 100318	2
53	Tuning the dye aerosol impaction and TiO2 nanoparticle stacking structures for High-Efficiency Dye-Sensitized solar cells. 2021 , 33, 103367-103367	
52	Holistically modulating charge recombination via trisiloxane surface treatment for efficient dye-sensitized solar cells. 2021 , 896, 162864	3
51	Review of Dye-Sensitized Solar Cell (DSSCs) Development. 2021 , 13, 496-509	2
50	Optical properties of Sr2YF7 material doped with Yb3+, Er3+, and Eu3+ ions for solar cell application. 2022 , 897, 163189	2
49	Dye sensitized solar cells go beyond using perovskite and spinel inorganic materials: A review. 2022 , 157, 112047	3
48	One-Step Hydrothermal Deposition of ZnOIIiO2 Heterojunction Nanostructures as Photoelectrochemical Performance for Sb2S3 Quantum-Dot-Sensitized Solar Cells by High-Efficiency Enhancement. 2021 , 66, 1117-1124	O
47	A small-sized DSSC panel based on the Uruguayan national flower dye tested at the Antarctic Artigas Base. 2022 , 13, 2	O
46	Mesocrystal TiO2 films: in situ topotactic transformation and application in dye-sensitised solar cells. 2022 , 6, 502-511	O
45	Polypyridyl copper complexes as dye sensitizer and redox mediator for dye-sensitized solar cells. 2022 , 134, 107182	6
44	Advancements, frontiers and analysis of metal oxide semiconductor, dye, electrolyte and counter electrode of dye sensitized solar cell. 2022 , 233, 378-407	2
43	A New Type of Architecture of Dye-Sensitized Solar Cells as an Alternative Pathway to Outdoor Photovoltaics. 2022 , 15, 2486	O
42	Intrinsic and Extrinsic Incorporation of Indium and Single-Walled Carbon Nanotubes for Improved ZnO-Based DSSCs. <i>Advanced Energy Materials</i> , 2022 , 12, 2103662	21. 8 0

41	Coactive impact of a novel multifunctional alum co-adsorbent for dye-sensitized solar cells DSSC. <i>Materials Letters</i> , 2022 , 317, 132088	3.3	O
40	Instability of dye-sensitized solar cells using natural dyes and approaches to improving stability [] An overview. Sustainable Energy Technologies and Assessments, 2022, 52, 102196	4.7	Ο
39	Data_Sheet_1.docx. 2018,		
38	Data_Sheet_1.pdf. 2019 ,		
37	Role of artificial neural networks in predicting design and efficiency of dye sensitized solar cells. <i>International Journal of Energy Research</i> ,	4.5	
36	Mesoporous Dye-Sensitized Solar Cells. 2012 , 447-462		
35	ReviewRecent Advancements in Dye-Sensitized Solar Cells; From Photoelectrode to Counter Electrode. <i>Journal of the Electrochemical Society</i> ,	3.9	2
34	Process Engineering of Semi-transparent DSSC Modules and Panel Incorporating an Organic Sensitizer. <i>Solar Rrl</i> ,	7.1	1
33	Tuning of Structural and Magnetic Properties of SrSnO3 Nanorods in Fabrication of Blocking Layers for Enhanced Performance of Dye-Sensitized Solar Cells. <i>ACS Omega</i> ,	3.9	
32	Ni-doped TiO 2 / TiO 2 homojunction photoanodes for efficient dye-sensitized solar cells. International Journal of Energy Research,	4.5	O
31	Dye-Sensitized Solar Cells. Springer Handbooks, 2022, 1137-1214	1.3	
30	Synthesis and Luminescence Characterization of Downconversion and Downshifting Phosphor for Efficiency Enhancement of Solar Cells: Perspectives and Challenges. <i>ACS Applied Electronic Materials</i> ,	4	
29	Investigation of Charge Collection Layers for Thin Film Rhenium Sulfide Solar Cells. <i>Applied Surface Science</i> , 2022 , 154212	6.7	0
28	719 dye as a Sensitizer for Dye-Sensitized Solar Cells (DSSCs): A Review of Its Functions and Certain Rudimentary Principles. <i>Environmental Progress and Sustainable Energy</i> ,	2.5	1
27	Ruthenium (II) Complexes Bearing N -Heterocyclic Carbene Based C^N Donor Sets in Dye-Sensitized Solar Cells.		
26	Calix[4]arene-Based Sensitizers for Host-Guest Supramolecular Dyads for Solar Energy Conversion in Photoelectrochemical Cells 2022 , 2022,		O
25	Recent Progress in One Dimensional TiO2 Nanomaterials as Photoanode in Dye-Sensitized Solar Cells.		О
24	Effect of reducing agents on co-precipitation synthesis of titanium dioxide/reduced graphene oxide composite materials for upgrading the performance of dye-sensitized solar cells. 2022 , 118145		1

23	Enhanced Photocatalytic Activity of Titanium Dioxide in Nitrogen Fixation by Photon Localization Effect of SiO2 Opal Photonic Crystal.	O
22	Hydroxamic acid preadsorption raises efficiency of cosensitized solar cells.	9
21	Immobilised TiO 2 mesocrystals with exposed {001} facets for efficient dye-sensitized solar cells.	O
20	Ruthenium Complexes Bearing Bis - N -heterocyclic Carbene Donors in TiO 2 Sensitization for Dye-Sensitized Solar Cells.	O
19	Novel tert-butylated spirobifluorene -based organic sensitizers for dye-sensitized solar cells. 2022 , 126953	O
18	Preparation of TiO2/CX composite photoanode and its breathing-like mode photoelectrocatalytic degradation of solubilized PHE in soil washing effluent. 2023 , 304, 122346	O
17	Precise design of VO 2 thin films for smart windows by employing thickness dependent refractive index.	1
16	Quantum dots, passivation layer and cocatalysts for enhanced photoelectrochemical hydrogen production.	O
15	A DSSC Electrolyte Preparation Method Considering Light Path and Light Absorption. 2022, 13, 1930	O
14	Enhance Photovoltaic Performance of WO3/CdS Heterostructure Photoanodes for High Performance of Dye Sensitized Solar Cells (DSSCs).	O
13	Energy level tuning of push-pull porphyrin sensitizer by trifluoromethyl group for dye-sensitized solar cells. A-L	O
12	Computational and Experimental Studies of the Wide Bandgap Semiconductors NH4TiOF3 and (NH4)2TiOF4.	O
11	A Comparative Study of Organic Dye-Sensitized Solar Cells Based on Anatase TiO2 and Amorphous Free Mixed Phases Anatase/Rutile P25 TiO2 Photoanodes. 2023 , 13, 121	O
10	Graphene loaded TiO2 submicron spheres scattering layer for efficient dye-sensitized solar cell. 2023 , 138009	O
9	2D-Nanolayer (2D-NL)-Based Hybrid Materials: A Next-Generation Material for Dye-Sensitized Solar Cells. 2023 , 12, 570	2
8	DFT study of UV和is-properties of thiophene-containing Cu(Ediketonato)2 中	O
7	TiO2 mesocrystals: Immobilisation, surface fluorination and application in photocatalytic water treatment. 2023 , 616, 156487	O
6	High-yield TiO2 submicron sphere/nanoparticle-blended scattering layer for efficient and scalable dye-sensitized solar cells.	O

CITATION REPORT

5	Recent Progress of Carbonaceous Materials in Third Generation Solar Cells: DSSCs. 2023 , 165-188	O
4	Modification of Dye-Sensitized Solar Cells by SWCNT Composition as the Active Layer and Introducing TiO2@SiO2 CoreBhell Nanostructure for Light Scattering Layer: Toward Efficiency Enhancement. 2023 , 70, 2437-2444	O
3	Dimensional Reduction of Cs2AgBiBr6 Using Alkyl Ammonium Cations CH3(CH2)nNH3+ (n = 1, 2, 3, and 6) of Varying Chain Lengths and Their Role in Structural and Optoelectronic Properties. 2023 , 62, 5836-5844	0
2	Improving the Electron Transport Performance of TiO 2 Film by Regulating TiCl 4 Post-Treatment for High-Efficiency Carbon-Based Perovskite Solar Cells.	o
1	Preparation of Nanostructured Sn/Ti Oxide Hybrid Films with Terpineol/PEG-Based Nanofluids: Perovskite Solar Cell Applications. 2023 , 16, 3136	O