Kuo-Chuan Ho

List of Publications by Citations

462 papers	20,796 citations	72 h-index	112 g-index
481 ext. papers	22,459 ext. citations	7.8 avg, IF	7.15 L-index

#	Paper	IF	Citations
462	Highly conductive PEDOT:PSS electrode by simple film treatment with methanol for ITO-free polymer solar cells. *Energy and Environmental Science*, **2012**, 5, 9662	35.4	589
461	Organic dyes incorporating low-band-gap chromophores for dye-sensitized solar cells. *Organic Letters*, **2005**, 7, 1899-902	6.2	411
460	2,3-Disubstituted Thiophene-Based Organic Dyes for Solar Cells. *Chemistry of Materials*, **2008**, 20, 1830-1840	9.4	382
459	CoS acicular nanorod arrays for the counter electrode of an efficient dye-sensitized solar cell. *ACS Nano*, **2012**, 6, 7016-25	16.7	315
458	A ruthenium complex with superhigh light-harvesting capacity for dye-sensitized solar cells. *Angewandte Chemie - International Edition*, **2006**, 45, 5822-5	16.4	303
457	Zinc oxide based dye-sensitized solar cells: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 70, 920-935	16.2	229
456	FeS2 nanocrystal ink as a catalytic electrode for dye-sensitized solar cells. *Angewandte Chemie - International Edition*, **2013**, 52, 6694-8	16.4	212
455	Using modified poly(3,4-ethylene dioxythiophene): Poly(styrene sulfonate) film as a counter electrode in dye-sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2007**, 91, 1472-1477	6.4	199
454	Incorporating carbon nanotube in a low-temperature fabrication process for dye-sensitized TiO2 solar cells. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1628-1633	6.4	196
453	EIS analysis on low temperature fabrication of TiO2 porous films for dye-sensitized solar cells. *Electrochimica Acta*, **2008**, 53, 7514-7522	6.7	196
452	Molecularly Imprinted Electrochemical Sensors. *Electroanalysis*, **2010**, 22, 1795-1811	3	188
451	Investigation on Capacitance Mechanisms of Fe[sub 3]O[sub 4] Electrochemical Capacitors. *Journal of the Electrochemical Society*, **2006**, 153, A75	3.9	188
450	Organic dyes containing thienylfluorene conjugation for solar cells. *Chemical Communications*, **2005** , 4098-100	5.8	182
449	Recent progress in organic sensitizers for dye-sensitized solar cells. *RSC Advances*, **2015**, 5, 23810-23825	3.7	181
448	Multifunctionalized ruthenium-based supersensitizers for highly efficient dye-sensitized solar cells. *Angewandte Chemie - International Edition*, **2008**, 47, 7342-5	16.4	172
447	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. *Energy and Environmental Science*, **2011**, 4, 3448	35.4	171
446	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. *Biosensors and Bioelectronics*, **2011**, 27, 125-31	11.8	167

445	A high-performance counter electrode based on poly(3,4-alkylenedioxythiophene) for dye-sensitized solar cells. *Journal of Power Sources*, **2009**, 188, 313-318	8.9	163
444	Use of organic materials in dye-sensitized solar cells. *Materials Today*, **2017**, 20, 267-283	21.8	160
443	Synergistic improvements in stability and performance of lead iodide perovskite solar cells incorporating salt additives. *Journal of Materials Chemistry A*, **2016**, 4, 1591-1597	13	158
442	Viologen-based electrochromic materials and devices. *Journal of Materials Chemistry C*, **2019**, 7, 4622-4637	7.1	157
441	Platinum-free counter electrode comprised of metal-organic-framework (MOF)-derived cobalt sulfide nanoparticles for efficient dye-sensitized solar cells (DSSCs). *Scientific Reports*, **2014**, 4, 6983	4.9	151
440	Organic dyes containing carbazole as donor and π-linker: optical, electrochemical, and photovoltaic properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 2528-39	9.5	147
439	The effects of hydrothermal temperature and thickness of TiO2 film on the performance of a dye-sensitized solar cell. *Solar Energy Materials and Solar Cells*, **2006**, 90, 2391-2397	6.4	142
438	Porphyrin-based metal–organic framework thin films for electrochemical nitrite detection. *Electrochemistry Communications*, **2015**, 58, 51-56	5.1	138
437	Electrode modified with a composite film of ZnO nanorods and Ag nanoparticles as a sensor for hydrogen peroxide. *Talanta*, **2010**, 82, 340-7	6.2	132
436	Amperometric detection of morphine based on poly(3,4-ethylenedioxythiophene) immobilized molecularly imprinted polymer particles prepared by precipitation polymerization. *Analytica Chimica Acta*, **2005**, 542, 90-96	6.6	129
435	A high performance dye-sensitized solar cell with a novel nanocomposite film of PtNP/MWCNT on the counter electrode. *Journal of Materials Chemistry*, **2010**, 20, 4067		127
434	A complementary electrochromic device based on polyaniline and poly(3,4-ethylenedioxythiophene). *Solar Energy Materials and Solar Cells*, **2006**, 90, 506-520	6.4	125
433	Materials for the active layer of organic photovoltaics: ternary solar cell approach. *ChemSusChem*, **2013**, 6, 20-35	8.3	121
432	A review of electrode materials based on core–shell nanostructures for electrochemical supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 3516-3530	13	120
431	Enhancing dopamine detection using a glassy carbon electrode modified with MWCNTs, quercetin, and Nafion. *Biosensors and Bioelectronics*, **2009**, 24, 3504-9	11.8	118
430	Plastic dye-sensitized photo-supercapacitor using electrophoretic deposition and compression methods. *Journal of Power Sources*, **2010**, 195, 6225-6231	8.9	117
429	A paper-based electrode using a graphene dot/PEDOT:PSS composite for flexible solar cells. *Nano Energy*, **2017**, 36, 260-267	17.1	115
428	Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. *Electrochimica Acta*, **2011**, 57, 277-284	6.7	111

427	Iodine-free high efficient quasi solid-state dye-sensitized solar cell containing ionic liquid and polyaniline-loaded carbon black. *Journal of Materials Chemistry*, **2010**, 20, 2356		108
426	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. *Advanced Materials*, **2015**, 27, 7229-35	24	105
425	A ternary cascade structure enhances the efficiency of polymer solar cells. *Journal of Materials Chemistry*, **2010**, 20, 2820		103
424	A study on the electron transport properties of TiO2 electrodes in dye-sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2007**, 91, 1416-1420	6.4	103
423	Synthesis of Co3O4 nanosheets via electrodeposition followed by ozone treatment and their application to high-performance supercapacitors. *Journal of Power Sources*, **2012**, 214, 91-99	8.9	102
422	Amperometric Glucose Biosensor Based on Entrapment of Glucose Oxidase in a Poly(3,4-ethylenedioxythiophene) Film. *Electroanalysis*, **2006**, 18, 1408-1415	3	101
421	A Ruthenium Complex with Superhigh Light-Harvesting Capacity for Dye-Sensitized Solar Cells. *Angewandte Chemie*, **2006**, 118, 5954-5957	3.6	101
420	Influences of different TiO2 morphologies and solvents on the photovoltaic performance of dye-sensitized solar cells. *Journal of Power Sources*, **2009**, 188, 635-641	8.9	94
419	Highly porous PProDOT-Et2 film as counter electrode for plastic dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2009**, 11, 3375-9	3.6	94
418	Solid-state dye-sensitized solar cells based on spirofluorene (spiro-OMeTAD) and arylamines as hole transporting materials. *Physical Chemistry Chemical Physics*, **2012**, 14, 14099-109	3.6	93
417	Unsymmetrical squaraines incorporating the thiophene unit for panchromatic dye-sensitized solar cells. *Organic Letters*, **2010**, 12, 5454-7	6.2	92
416	Metal-organic framework/sulfonated polythiophene on carbon cloth as a flexible counter electrode for dye-sensitized solar cells. *Nano Energy*, **2017**, 32, 19-27	17.1	90
415	2,7-Diaminofluorene-based organic dyes for dye-sensitized solar cells: effect of auxiliary donor on optical and electrochemical properties. *Journal of Organic Chemistry*, **2011**, 76, 4910-20	4.2	90
414	Amperometric morphine sensing using a molecularly imprinted polymer-modified electrode. *Analytica Chimica Acta*, **2005**, 542, 76-82	6.6	90
413	Single layer of nickel hydroxide nanoparticles covered on a porous Ni foam and its application for highly sensitive non-enzymatic glucose sensor. *Sensors and Actuators B: Chemical*, **2014**, 204, 159-166	8.5	87
412	Electrochemical characterization of the solvent-enhanced conductivity of poly(3,4-ethylenedioxythiophene) and its application in polymer solar cells. *Journal of Materials Chemistry*, **2009**, 19, 3704		87
411	Fabrication of NOx gas sensors using In2O3/ZnO composite films. *Sensors and Actuators B: Chemical*, **2010**, 146, 28-34	8.5	86
410	Economical low-light photovoltaics by using the Pt-free dye-sensitized solar cell with graphene dot/PEDOT:PSS counter electrodes. *Nano Energy*, **2015**, 18, 109-117	17.1	85

409	In situ growth of porphyrinic metal□organic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite. *Journal of Materials Chemistry A*, **2016**, 4, 10673-10682	13	85
408	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. *Organic Electronics*, **2009**, 10, 27-33	3.5	84
407	2,6-Conjugated anthracene sensitizers for high-performance dye-sensitized solar cells. *Energy and Environmental Science*, **2013**, 6, 2477	35.4	83
406	Fabrication of a ZnO film with a mosaic structure for a high efficient dye-sensitized solar cell. *Journal of Materials Chemistry*, **2010**, 20, 9379		83
405	A high performance electrochemical sensor for acetaminophen based on a rGO□PEDOT nanotube composite modified electrode. *Journal of Materials Chemistry A*, **2014**, 2, 7229-7237	13	82
404	Synthesis and applications of novel low bandgap star-burst molecules containing a triphenylamine core and dialkylated diketopyrrolopyrrole arms for organic photovoltaics. *Journal of Materials Chemistry*, **2012**, 22, 7945		81
403	Solution-processed zinc oxide nanoparticles as interlayer materials for inverted organic solar cells. *Solar Energy Materials and Solar Cells*, **2013**, 108, 156-163	6.4	81
402	A novel core□shell multi-walled carbon nanotube@graphene oxide nanoribbon heterostructure as a potential supercapacitor material. *Journal of Materials Chemistry A*, **2013**, 1, 11237	13	80
401	Chemiresistor-type NO gas sensor based on nickel phthalocyanine thin films. *Sensors and Actuators B: Chemical*, **2001**, 77, 253-259	8.5	79
400	Highly efficient plastic-based quasi-solid-state dye-sensitized solar□cells with light-harvesting mesoporous silica nanoparticles gel-electrolyte. *Journal of Power Sources*, **2014**, 245, 411-417	8.9	76
399	Effects of mesoscopic poly(3,4-ethylenedioxythiophene) films as counter electrodes for dye-sensitized solar cells. *Thin Solid Films*, **2010**, 518, 1716-1721	2.2	76
398	Post metalation of solvothermally grown electroactive porphyrin metal-organic framework thin films. *Chemical Communications*, **2015**, 51, 2414-7	5.8	75
397	Y-shaped metal-free D□A)2 sensitizers for high-performance dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 3092	13	75
396	A microfluidic system utilizing molecularly imprinted polymer films for amperometric detection of morphine. *Sensors and Actuators B: Chemical*, **2007**, 121, 576-582	8.5	75
395	Detection of nitrite using poly(3,4-ethylenedioxythiophene) modified SPCEs. *Sensors and Actuators B: Chemical*, **2009**, 140, 51-57	8.5	74
394	PEDOT-decorated nitrogen-doped graphene as the transparent composite film for the counter electrode of a dye-sensitized solar cell. *Nano Energy*, **2015**, 12, 374-385	17.1	73
393	A dye-sensitized photo-supercapacitor based on PProDOT-Et2 thick films. *Journal of Power Sources*, **2010**, 195, 6232-6238	8.9	73
392	Fluorene-based sensitizers with a phenothiazine donor: effect of mode of donor tethering on the performance of dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 2249-62	9.5	72

391	Copper zinc tin sulfide as a catalytic material for counter electrodes in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 562-569	13	72
390	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. *Journal of Materials Chemistry*, **2012**, 22, 5550		72
389	The influence of surface morphology of TiO2 coating on the performance of dye-sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2006**, 90, 2398-2404	6.4	72
388	Amperometric detection of morphine at a Prussian blue-modified indium tin oxide electrode. *Biosensors and Bioelectronics*, **2004**, 20, 3-8	11.8	72
387	A low-cost counter electrode of ITO glass coated with a graphene/Nafion composite film for use in dye-sensitized solar cells. *Carbon*, **2012**, 50, 4192-4202	10.4	71
386	A novel polymer gel electrolyte for highly efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 8471	13	71
385	Achieving Low-Energy Driven Viologens-Based Electrochromic Devices Utilizing Polymeric Ionic Liquids. *ACS Applied Materials & Interfaces*, **2016**, 8, 30351-30361	9.5	70
384	Designing a carbon nanotubes-interconnected ZIF-derived cobalt sulfide hybrid nanocage for supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 1479-1490	13	69
383	A composite catalytic film of PEDOT:PSS/TiN NPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. *Journal of Materials Chemistry*, **2011**, 21, 19021		68
382	Effects of co-adsorbate and additive on the performance of dye-sensitized solar cells: A photophysical study. *Solar Energy Materials and Solar Cells*, **2007**, 91, 1426-1431	6.4	68
381	Nanoclimbing-wall-like CoSe 2 /carbon composite film for the counter electrode of a highly efficient dye-sensitized solar cell: A study on the morphology control. *Nano Energy*, **2016**, 22, 594-606	17.1	67
380	Synthesis of redox polymer nanobeads and nanocomposites for glucose biosensors. *ACS Applied Materials & Interfaces*, **2013**, 5, 7852-61	9.5	67
379	A novel poly(3,4-ethylenedioxythiophene)/iron phthalocyanine/multi-wall carbon nanotubes nanocomposite with high electrocatalytic activity for nitrite oxidation. *Talanta*, **2010**, 82, 1905-11	6.2	67
378	A Switchable High-Sensitivity Photodetecting and Photovoltaic Device with Perovskite Absorber. *Journal of Physical Chemistry Letters*, **2015**, 6, 1773-9	6.4	66
377	A coral-like film of Ni@NiS with core shell particles for the counter electrode of an efficient dye-sensitized solar cell. *Journal of Materials Chemistry A*, **2014**, 2, 5816-5824	13	66
376	Multiwalled Carbon Graphene Oxide Nanoribbon as the Counter Electrode for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16626-16634	3.8	66
375	Novel pyrenoimidazole-based organic dyes for dye-sensitized solar cells. *Organic Letters*, **2011**, 13, 2622-5	6.2	66
374	Electrical properties of single and multiple poly(3,4-ethylenedioxythiophene) nanowires for sensing nitric oxide gas. *Analytica Chimica Acta*, **2009**, 640, 68-74	6.6	66

373	Spectroelectrochemical studies of manganese phthalocyanine thin films for applications in electrochromic devices. *Journal of Electroanalytical Chemistry*, **2002**, 524-525, 81-89	4.1	66
372	Printed Multicolor High-Contrast Electrochromic Devices. *ACS Applied Materials & Interfaces*, **2015**, 7, 25069-76	9.5	65
371	Ni3Se4 hollow architectures as catalytic materials for the counter electrodes of dye-sensitized solar cells. *Nano Energy*, **2014**, 10, 201-211	17.1	65
370	2-Alkyl-5-thienyl-substituted benzo[1,2-b:4,5-b′]dithiophene-based donor molecules for solution-processed organic solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 9494-500	9.5	65
369	Detection of uric acid based on multi-walled carbon nanotubes polymerized with a layer of molecularly imprinted PMAA. *Sensors and Actuators B: Chemical*, **2010**, 146, 466-471	8.5	65
368	Organic dyes containing fluorene decorated with imidazole units for dye-sensitized solar cells. *Journal of Organic Chemistry*, **2014**, 79, 3159-72	4.2	64
367	Power overshoot in two-chambered microbial fuel cell (MFC). *Bioresource Technology*, **2011**, 102, 4742-611		64
366	Cycling and at-rest stabilities of a complementary electrochromic device containing poly(3,4-ethylenedioxythiophene) and Prussian blue. *Solar Energy Materials and Solar Cells*, **2006**, 90, 521-537	6.4	64
365	Efficiency Enhancement of Hybrid Perovskite Solar Cells with MEH-PPV Hole-Transporting Layers. *Scientific Reports*, **2016**, 6, 34319	4.9	63
364	Electro-optical properties of new anthracene based organic dyes for dye-sensitized solar cells. *Dyes and Pigments*, **2011**, 91, 33-43	4.6	63
363	Photovoltaic electrochromic device for solar cell module and self-powered smart glass applications. *Solar Energy Materials and Solar Cells*, **2012**, 99, 154-159	6.4	62
362	All-solid-state dye-sensitized solar cells incorporating SWCNTs and crystal growth inhibitor. *Journal of Materials Chemistry*, **2010**, 20, 3619		62
361	Efficient and stable plastic dye-sensitized solar cells based on a high light-harvesting ruthenium sensitizer. *Journal of Materials Chemistry*, **2009**, 19, 5009		62
360	Amperometric detection of hydrogen peroxide at a Prussian Blue-modified FTO electrode. *Sensors and Actuators B: Chemical*, **2005**, 108, 738-745	8.5	62
359	High-performance dipolar organic dyes with an electron-deficient diphenylquinoxaline moiety in the π-conjugation framework for dye-sensitized solar cells. *Chemistry - A European Journal*, **2012**, 18, 12085-95	4.8	61
358	Design equations for complementary electrochromic devices: application to the tungsten oxide–Prussian blue system. *Electrochimica Acta*, **2001**, 46, 2151-2158	6.7	61
357	Composite films of carbon black nanoparticles and sulfonated-polythiophene as flexible counter electrodes for dye-sensitized solar cells. *Journal of Power Sources*, **2016**, 302, 155-163	8.9	60
356	The influence of charge trapping on the electrochromic performance of poly(3,4-alkylenedioxythiophene) derivatives. *ACS Applied Materials & Interfaces*, **2010**, 2, 351-9	9.5	60

355	An electrochromic device based on Prussian blue, self-immobilized vinyl benzyl viologen, and ferrocene. *Solar Energy Materials and Solar Cells*, **2016**, 147, 75-84	6.4	59
354	A novel molecularly imprinted polymer thin film as biosensor for uric acid. *Talanta*, **2010**, 80, 1145-51	6.2	59
353	A gold surface plasmon enhanced mesoporous titanium dioxide photoelectrode for the plastic-based flexible dye-sensitized solar cells. *Journal of Power Sources*, **2015**, 288, 221-228	8.9	58
352	Organic dyes containing fluoren-9-ylidene chromophores for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 5766	13	58
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350	Fabrication of multilayer organic solar cells through a stamping technique. *Journal of Materials Chemistry*, **2009**, 19, 4077		58
349	Enhanced performance of a flexible dye-sensitized solar cell with a composite semiconductor film of ZnO nanorods and ZnO nanoparticles. *Electrochimica Acta*, **2012**, 62, 341-347	6.7	57
348	Co-sensitization promoted light harvesting for organic dye-sensitized solar cells using unsymmetrical squaraine dye and novel pyrenoimidazole-based dye. *Journal of Power Sources*, **2013**, 240, 779-785	8.9	57
347	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. *Biosensors and Bioelectronics*, **2013**, 43, 173-9	11.8	57
346	Graphene-modified polyaniline as the catalyst material for the counter electrode of a dye-sensitized solar cell. *Journal of Power Sources*, **2012**, 217, 152-157	8.9	56
345	Co-sensitization promoted light harvesting for plastic dye-sensitized solar cells. *Journal of Power Sources*, **2011**, 196, 2416-2421	8.9	56
344	High-performance aqueous/organic dye-sensitized solar cells based on sensitizers containing triethylene oxide methyl ether. *ChemSusChem*, **2015**, 8, 2503-13	8.3	55
343	Electrophoretic deposition of ZnO film and its compression for a plastic based flexible dye-sensitized solar cell. *Journal of Power Sources*, **2011**, 196, 4859-4864	8.9	55
342	Selective conditions for the fabrication of a flexible dye-sensitized solar cell with Ti/TiO2 photoanode. *Journal of Power Sources*, **2010**, 195, 4344-4349	8.9	55
341	A composite film of TiS2/PEDOT:PSS as the electrocatalyst for the counter electrode in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 14888	13	54
340	Electrophoretic deposition of mesoporous TiO2 nanoparticles consisting of primary anatase nanocrystallites on a plastic substrate for flexible dye-sensitized solar cells. *Chemical Communications*, **2011**, 47, 8346-8	5.8	54
339	Complementary inverter circuits based on p-SnO2 and n-In2O3 thin film transistors. *Applied Physics Letters*, **2008**, 92, 232103	3.4	54
338	A photo-physical and electrochemical impedance spectroscopy study on the quasi-solid state dye-sensitized solar cells based on poly(vinylidene fluoride-co-hexafluoropropylene). *Journal of Power Sources*, **2008**, 185, 1605-1612	8.9	54

337	Dye-sensitized solar cells with reduced graphene oxide as the counter electrode prepared by a green photothermal reduction process. *ChemPhysChem*, **2014**, 15, 1175-81	3.2	53
336	Enhanced Charge Collection in MOF-525-PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. *Advanced Science*, **2017**, 4, 1700261	13.6	52
335	Facile Synthesis of Boron-doped Graphene Nanosheets with Hierarchical Microstructure at Atmosphere Pressure for Metal-free Electrochemical Detection of Hydrogen Peroxide. *Electrochimica Acta*, **2015**, 172, 52-60	6.7	52
334	Polymer-dispersed MWCNT gel electrolytes for high performance of dye-sensitized solar cells. *Journal of Materials Chemistry*, **2012**, 22, 6982		52
333	Detection of nicotine based on molecularly imprinted TiO2-modified electrodes. *Analytica Chimica Acta*, **2009**, 633, 119-26	6.6	52
332	Performance of gelled-type dye-sensitized solar cells associated with glass transition temperature of the gelatinizing polymers. *European Polymer Journal*, **2008**, 44, 608-614	5.2	52
331	Thermally Cured Dual Functional Viologen-Based All-in-One Electrochromic Devices with Panchromatic Modulation. *ACS Applied Materials & Interfaces*, **2016**, 8, 4175-84	9.5	51
330	Inkjet-printed porphyrinic metal□organic framework thin films for electrocatalysis. *Journal of Materials Chemistry A*, **2016**, 4, 11094-11102	13	50
329	Insights into the co-sensitizer adsorption kinetics for complementary organic dye-sensitized solar cells. *Journal of Power Sources*, **2014**, 247, 906-914	8.9	50
328	Using a PEDOT:PSS modified electrode for detecting nitric oxide gas. *Sensors and Actuators B: Chemical*, **2009**, 140, 402-406	8.5	50
327	A quasi solid-state dye-sensitized solar cell containing binary ionic liquid and polyaniline-loaded carbon black. *Journal of Power Sources*, **2010**, 195, 3933-3938	8.9	50
326	A novel photoelectrochromic device with dual application based on poly(3,4-alkylenedioxythiophene) thin film and an organic dye. *Journal of Power Sources*, **2008**, 185, 1505-1508	8.9	50
325	Enhancement of photocurrent of polymer-gelled dye-sensitized solar cell by incorporation of exfoliated montmorillonite nanoplatelets. *Journal of Polymer Science Part A*, **2008**, 46, 47-53	2.5	50
324	Benzimidazole-Branched Isomeric Dyes: Effect of Molecular Constitution on Photophysical, Electrochemical, and Photovoltaic Properties. *Journal of Organic Chemistry*, **2016**, 81, 640-53	4.2	49
323	Pyrene-based organic dyes with thiophene containing □linkers for dye-sensitized solar cells: optical, electrochemical and theoretical investigations. *Physical Chemistry Chemical Physics*, **2011**, 13, 17210-21	3.6	49
322	All-solid-state electrochromic device based on poly(butyl viologen), Prussian blue, and succinonitrile. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1755-1760	6.4	49
321	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with M□CoSe2 (M = Zn, Mn, and Cu). *Journal of Materials Chemistry A*, **2019**, 7, 12565-12581	13	48
320	Heteroleptic ruthenium antenna-dye for high-voltage dye-sensitized solar cells. *Journal of Materials Chemistry*, **2010**, 20, 7158		48

319	Dibenzo[f,h]thieno[3,4-b] quinoxaline-based small molecules for efficient bulk-heterojunction solar cells. *Organic Letters*, **2009**, 11, 4898-901	6.2	48
318	Novel polymer gel electrolyte with organic solvents for quasi-solid-state dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 18489-96	9.5	47
317	Ionic liquid-doped poly(3,4-ethylenedioxythiophene) counter electrodes for dye-sensitized solar cells: Cationic and anionic effects on the photovoltaic performance. *Nano Energy*, **2014**, 9, 1-14	17.1	47
316	In situ fabrication of conducting polymer composite film as a chemical resistive CO2 gas sensor. *Microelectronic Engineering*, **2013**, 111, 409-415	2.5	47
315	An efficient flexible dye-sensitized solar cell with a photoanode consisting of TiO2 nanoparticle-filled and SrO-coated TiO2 nanotube arrays. *Journal of Materials Chemistry*, **2010**, 20, 7201		47
314	Fabrication and characterization of plastic-based flexible dye-sensitized solar cells consisting of crystalline mesoporous titania nanoparticles as photoanodes. *Journal of Materials Chemistry*, **2011**, 21, 17511		47
313	A photovoltaic cell incorporating a dye-sensitized ZnS/ZnO composite thin film and a hole-injecting PEDOT layer. *Solar Energy Materials and Solar Cells*, **2005**, 86, 229-241	6.4	47
312	Boron-doped carbon nanotubes as metal-free electrocatalyst for dye-sensitized solar cells: Heteroatom doping level effect on tri-iodide reduction reaction. *Journal of Power Sources*, **2018**, 375, 29-36	8.9	46
311	Binary room-temperature ionic liquids based electrolytes solidified with SiO2 nanoparticles for dye-sensitized solar cells. *Journal of Power Sources*, **2009**, 190, 573-577	8.9	46
310	Anomalous p-channel amorphous oxide transistors based on tin oxide and their complementary circuits. *Applied Physics Letters*, **2008**, 92, 122113	3.4	46
309	Multifunctionalized Ruthenium-Based Supersensitizers for Highly Efficient Dye-Sensitized Solar Cells. *Angewandte Chemie*, **2008**, 120, 7452-7455	3.6	46
308	Metal-free branched alkyl tetrathienoacene (TTAR)-based sensitizers for high-performance dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 12310-12321	13	45
307	Efficient titanium nitride/titanium oxide composite photoanodes for dye-sensitized solar cells and water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 4695-4705	13	45
306	Using a low temperature crystallization process to prepare anatase TiO2 buffer layers for air-stable inverted polymer solar cells. *Energy and Environmental Science*, **2010**, 3, 654	35.4	45
305	Solvent-annealing-induced self-organization of poly(3-hexylthiophene), a high-performance electrochromic material. *ACS Applied Materials & Interfaces*, **2009**, 1, 2821-8	9.5	45
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