Kazuteru Nonomura

List of Publications by Year
in descending order

33	2,387	394421 19	395702 33
papers	citations	h-index	g-index

33	33	33	3818
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Zinc Phthalocyanine Conjugated Dimers as Efficient Dopantâ€Free Hole Transporting Materials in Perovskite Solar Cells. ChemPhotoChem, 2020, 4, 307-314.	3.0	19
2	Effect of TiO2 Photoanodes Morphology and Dye Structure on Dye-Regeneration Kinetics Investigated by Scanning Electrochemical Microscopy. Electrochem, 2020, 1, 329-343.	3.3	1
3	Blocking the Charge Recombination with Diiodide Radicals by TiO₂ Compact Layer in Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2019, 166, B3203-B3208.	2.9	10
4	Diverging surface reactions at TiO₂- or ZnO-based photoanodes in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2019, 21, 13047-13057.	2.8	20
5	Toward an alternative approach for the preparation of low-temperature titanium dioxide blocking underlayers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 10729-10738.	10.3	13
6	Novel Blue Organic Dye for Dye-Sensitized Solar Cells Achieving High Efficiency in Cobalt-Based Electrolytes and by Co-Sensitization. ACS Applied Materials & Interfaces, 2016, 8, 32797-32804.	8.0	67
7	3,4-Ethylenedioxythiophene-based cobalt complex: an efficient co-mediator in dye-sensitized solar cells with poly(3,4-ethylenedioxythiophene) counter-electrode. Electrochimica Acta, 2015, 179, 237-240.	5.2	13
8	Facile route to freestanding CH3NH3PbI3 crystals using inverse solubility. Scientific Reports, 2015, 5, 11654.	3.3	112
9	Direct light-induced polymerization of cobalt-based redox shuttles: an ultrafast way towards stable dye-sensitized solar cells. Chemical Communications, 2015, 51, 16308-16311.	4.1	73
10	Spectral splitting photovoltaics using perovskite and wideband dye-sensitized solar cells. Nature Communications, 2015, 6, 8834.	12.8	122
11	Reducing Massâ€Transport Limitations in Cobaltâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells by Photoanode Modification. ChemPhysChem, 2014, 15, 1216-1221.	2.1	20
12	Current progress and future perspectives for organic/inorganic perovskite solar cells. Materials Today, 2014, 17, 16-23.	14.2	349
13	Infiltration of Spiro-MeOTAD hole transporting material into nanotubular TiO2 electrode for solid-state dye-sensitized solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 187, 67-74.	3.5	1
14	Photovoltage enhancement from cyanobiphenyl liquid crystals and 4-tert-butylpyridine in Co(ii/iii) mediated dye-sensitized solar cells. Chemical Communications, 2013, 49, 9101.	4.1	20
15	Decoupling light absorption and charge transport properties in near IR-sensitized Fe2O3 regenerative cells. Energy and Environmental Science, 2013, 6, 3280.	30.8	14
16	Nanoclay Gelation Approach toward Improved Dye-Sensitized Solar Cell Efficiencies: An Investigation of Charge Transport and Shift in the TiO₂ Conduction Band. ACS Applied Materials & Interfaces, 2013, 5, 444-450.	8.0	49
17	Influence of 4-tert-Butylpyridine in DSCs with CoII/III Redox Mediator. Journal of Physical Chemistry C, 2013, 117, 15515-15522.	3.1	42
18	Effect of the Preparation Procedure on the Morphology of Thin TiO₂ Films and Their Device Performance in Small-Molecule Bilayer Hybrid Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 5997-6004.	8.0	25

#	Article	IF	Citations
19	Defect minimization and morphology optimization in TiO2 nanotube thin films, grown on transparent conducting substrate, for dye synthesized solar cell application. Thin Solid Films, 2012, 522, 71-78.	1.8	12
20	Effect of Cation on Dye Regeneration Kinetics of N719-Sensitized TiO2 Films in Acetonitrile-Based and Ionic-Liquid-Based Electrolytes Investigated by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2012, 116, 4316-4323.	3.1	39
21	A selective co-sensitization approach to increase photon conversion efficiency and electron lifetime in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 16182.	2.8	74
22	Trends in patent applications for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 7376.	30.8	26
23	Ruthenium sensitizer with a thienylvinylbipyridyl ligand for dye-sensitized solar cells. Dalton Transactions, 2011, 40, 8361.	3.3	10
24	How the Nature of Triphenylamine-Polyene Dyes in Dye-Sensitized Solar Cells Affects the Open-Circuit Voltage and Electron Lifetimes. Langmuir, 2010, 26, 2592-2598.	3.5	359
25	Nanoparticulate Dye-Semiconductor Hybrid Materials Formed by Electrochemical Self-Assembly as Electrodes in Photoelectrochemical Cells. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 518-530.	1.5	1
26	The Effect of UV-Irradiation (under Short-Circuit Condition) on Dye-Sensitized Solar Cells Sensitized with a Ru-Complex Dye Functionalized with a (diphenylamino)Styryl-Thiophen Group. International Journal of Photoenergy, 2009, 2009, 1-9.	2.5	4
27	Organic chromophore-sensitized ZnO solar cells: Electrolyte-dependent dye desorption and band-edge shifts. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 202, 159-163.	3.9	26
28	Photoelectrochemical kinetics of Eosin Y-sensitized zinc oxide films investigated by scanning electrochemical microscopy under illumination with different LED. Electrochimica Acta, 2009, 55, 458-464.	5.2	38
29	Tuning the HOMO and LUMO Energy Levels of Organic Chromophores for Dye Sensitized Solar Cells. Journal of Organic Chemistry, 2007, 72, 9550-9556.	3.2	576
30	Photoelectrochemical Kinetics of Eosin Y-Sensitized Zinc Oxide Films Investigated by Scanning Electrochemical Microscopy. Chemistry - A European Journal, 2006, 12, 5832-5839.	3.3	63
31	Hybrid thin films of ZnO with porphyrins and phthalocyanines prepared by one-step electrodeposition. Journal of Porphyrins and Phthalocyanines, 2004, 08, 1366-1375.	0.8	15
32	Improved photoelectrochemical performance of electrodeposited ZnO/EosinY hybrid thin films by dye re-adsorption. Chemical Communications, 2004, , 400-401.	4.1	141
33	One-step electrochemical synthesis of ZnO/Ru(dcbpy)2(NCS)2 hybrid thin films and their photoelectrochemical properties. Electrochimica Acta, 2003, 48, 3071-3078.	5.2	33