Vittal Ramamurthy

List of Publications by Year
in descending order

36	1,658	236925 25	377865 34
papers	citations	h-index	g-index

36	36	36	2417
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly efficient dye-sensitized solar cell with a ZnO nanosheet-based photoanode. Energy and Environmental Science, 2011, 4, 3448.	30.8	196
2	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.	6.7	131
3	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.	6.7	114
4	Fabrication of a ZnO film with a mosaic structure for a high efficient dye-sensitized solar cell. Journal of Materials Chemistry, 2010, 20, 9379.	6.7	85
5	A novel polymer gel electrolyte for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 8471.	10.3	79
6	A highly efficient dye-sensitized solar cell with a platinum nanoflowers counter electrode. Journal of Materials Chemistry, 2012, 22, 5550.	6.7	76
7	Multiwalled Carbon Nanotube@Reduced Graphene Oxide Nanoribbon as the Counter Electrode for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16626-16634.	3.1	76
8	A composite catalytic film of PEDOT:PSS/TiNâ€“NPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. Journal of Materials Chemistry, 2011, 21, 19021.	6.7	73
9	A coral-like film of Ni@NiS with coreâ€“shell particles for the counter electrode of an efficient dye-sensitized solar cell. Journal of Materials Chemistry A, 2014, 2, 5816-5824.	10.3	70
10	All-solid-state dye-sensitized solar cells incorporating SWCNTs and crystal growth inhibitor. Journal of Materials Chemistry, 2010, 20, 3619.	6.7	63
11	Efficient titanium nitride/titanium oxide composite photoanodes for dye-sensitized solar cells and water splitting. Journal of Materials Chemistry A, 2015, 3, 4695-4705.	10.3	50
12	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.	6.7	48
13	A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. Journal of Materials Chemistry, 2012, 22, 14727.	6.7	46
14	Electrocatalytic Zinc Composites as the Efficient Counter Electrodes of Dye-Sensitized Solar Cells: Study on the Electrochemical Performances and Density Functional Theory Calculations. ACS Applied Materials & Interfaces, 2015, 7, 28254-28263.	8.0	44
15	Lowâ€temperature flexible Ti/TiO₂ photoanode for dyeâ€sensitized solar cells with binderâ€free TiO₂ paste. Progress in Photovoltaics: Research and Applications, 2012, 20, 181-190.	8.1	35
16	Nanocomposite Graphene/Pt Electrocatalyst as Economical Counter Electrode for Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2014, 1, 416-425.	3.4	35
17	Improved exchange reaction in an ionic liquid electrolyte of a quasi-solid-state dye-sensitized solar cell by using 15-crown-5-functionalized MWCNT. Journal of Materials Chemistry, 2011, 21, 18467.	6.7	32
18	TiO 2 nanosheets with highly exposed (001)-facets for enhanced photovoltaic performance of dye-sensitized solar cells. Nano Energy, 2014, 10, 212-221.	16.0	30

#	Article	IF	Citations
19	Dye-sensitized solar cells with low-cost catalytic films of polymer-loaded carbon black on their counter electrode. RSC Advances, 2013, 3, 5871.	3.6	29
20	Double-Wall TiO₂ Nanotubes for Dye-Sensitized Solar Cells: A Study of Growth Mechanism. ACS Sustainable Chemistry and Engineering, 2018, 6, 3907-3915.	6.7	29
21	Solid-state dye-sensitized solar cell with a charge transfer layer comprising two ionic liquids and a carbon material. Journal of Materials Chemistry, 2011, 21, 15471.	6.7	28
22	Transparent grapheneâ€“platinum nanohybrid films for counter electrodes in high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 8742.	10.3	28
23	Hierarchical TiO_{1.1}Se_{0.9}-wrapped carbon cloth as the TCO-free and Pt-free counter electrode for iodide-based and cobalt-based dye-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 14079-14091.	10.3	28
24	A dual-functional Pt/CNT TCO-free counter electrode for dye-sensitized solar cell. Journal of Materials Chemistry, 2012, 22, 25311.	6.7	27
25	Hollow microflower arrays of PEDOT and their application for the counter electrode of a dye-sensitized solar cell. Journal of Materials Chemistry A, 2013, 1, 10693.	10.3	26
26	Hierarchically assembled microspheres consisting of nanosheets of highly exposed (001)-facets TiO₂ for dye-sensitized solar cells. RSC Advances, 2016, 6, 14178-14191.	3.6	26
27	Enhanced performance of a dye-sensitized solar cell with an amphiphilic polymer-gelled ionic liquid electrolyte. Journal of Materials Chemistry A, 2013, 1, 3055.	10.3	25
28	Transparent Cobalt Selenide/Graphene Counter Electrode for Efficient Dye-Sensitized Solar Cells with Co²⁺/³⁺-Based Redox Couple. ACS Applied Materials & Interfaces, 2020, 12, 44597-44607.	8.0	25
29	Electrochemical synthesis of a doubleâ€layer film of ZnO nanosheets/nanoparticles and its application for dyeâ€sensitized solar cells. Progress in Photovoltaics: Research and Applications, 2014, 22, 440-451.	8.1	22
30	Control of morphology and size of platinum crystals through amphiphilic polymer-assisted microemulsions and their uses in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 12305.	6.7	19
31	Surface modification of TiO₂ nanotube arrays with Y₂O₃ barrier layer: controlling charge recombination dynamics in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 8281-8287.	10.3	18
32	Mesoporous anatase-TiO 2 spheres consisting of nanosheets of exposed (001)-facets for [Co(byp) 3] 2+/3+ based dye-sensitized solar cells. Nano Energy, 2016, 22, 136-148.	16.0	17
33	Multifunctional TiO₂ Microflowers with Nanopetals as Scattering Layer for Enhanced Quasiâ€Solidâ€State Dyeâ€Sensitized Solar Cell Performance. ChemElectroChem, 2014, 1, 532-535.	3.4	16
34	Cobalt Oxide Electrodes-Problem and a Solution Through a Novel Approach using Cetyltrimethylammonium Bromide (CTAB). Catalysis Reviews - Science and Engineering, 2015, 57, 145-191.	12.9	12
35	TiO<inf>2</inf> compact layer with photonic crystals: Application to back-illuminated dye-sensitized solar cells. , 2011, , .		0
36	Electrocatalytic SiC Nanoparticles/PEDOT:PSS Composite Thin Films as the Counter Electrodes of Dye-Sensitized Solar Cells. ChemElectroChem, 2014, 1, 961-961.	3.4	0