Aravind Kumar Chandiran

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34 papers	8,491 citations	19 h-index	36 g-index
36 ext. papers	8,877 ext. citations	8.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
34	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. *Science*, **2011**, 334, 629-34	33.3	5284
33	Mesoscopic CH3NH3PbI3/TiO2 heterojunction solar cells. *Journal of the American Chemical Society*, **2012**, 134, 17396-9	16.4	1623
32	Analysis of electron transfer properties of ZnO and TiO2 photoanodes for dye-sensitized solar cells. *ACS Nano*, **2014**, 8, 2261-8	16.7	284
31	Subnanometer Ga2O3 tunnelling layer by atomic layer deposition to achieve 1.1 V open-circuit potential in dye-sensitized solar cells. *Nano Letters*, **2012**, 12, 3941-7	11.5	175
30	Yttrium-substituted nanocrystalline TiO□photoanodes for perovskite based heterojunction solar cells. *Nanoscale*, **2014**, 6, 1508-14	7.7	151
29	Doping a TiO2 Photoanode with Nb5+ to Enhance Transparency and Charge Collection Efficiency in Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 15849-15856	3.8	140
28	Sub-nanometer conformal TiO□blocking layer for high efficiency solid-state perovskite absorber solar cells. *Advanced Materials*, **2014**, 26, 4309-12	24	136
27	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2014**, 24, 1615-1623	15.6	92
26	Low-temperature crystalline titanium dioxide by atomic layer deposition for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 3487-93	9.5	70
25	Ga3+ and Y3+ Cationic Substitution in Mesoporous TiO2 Photoanodes for Photovoltaic Applications. *Journal of Physical Chemistry C*, **2011**, 115, 9232-9240	3.8	70
24	Controlled synthesis of TiO2 nanoparticles and nanospheres using a microwave assisted approach for their application in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 1662-1667	13	69
23	Evaluating the Critical Thickness of TiO2 Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2013**, 23, 2775-2781	15.6	55
22	Sterically hindered phthalocyanines for dye-sensitized solar cells: influence of the distance between the aromatic core and the anchoring group. *ChemPhysChem*, **2014**, 15, 1033-6	3.2	46
21	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. *Nano Letters*, **2014**, 14, 1190-5	11.5	40
20	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400217	21.8	37
19	Molecular Engineering of 2-Quinolinone Based Anchoring Groups for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16896-16903	3.8	35
18	Toward Higher Photovoltage: Effect of Blocking Layer on Cobalt Bipyridine Pyrazole Complexes as Redox Shuttle for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16799-16805	3.8	33

17	Anatase TiO2 Hollow Microspheres Fabricated by Continuous Spray Pyrolysis as a Scattering Layer in Dye-Sensitised Solar Cells. *Energy Procedia*, **2013**, 33, 223-227	2.3	22
16	Cs PtI Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. *Angewandte Chemie - International Edition*, **2020**, 59, 16033-16038	16.4	19
15	Investigation on the Interface Modification of TiO Surfaces by Functional Co-Adsorbents for High-Efficiency Dye-Sensitized Solar Cells. *ChemPhysChem*, **2017**, 18, 2724-2731	3.2	19
14	Electrical Properties of Nb-, Ga-, and Y-Substituted Nanocrystalline Anatase TiO2 Prepared by Hydrothermal Synthesis. *Journal of the American Ceramic Society*, **2012**, 95, 3192-3196	3.8	16
13	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. *Journal of Physical Chemistry Letters* , **2014**, 5, 501-5	6.4	15
12	Pyridyl- and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dye-Sensitized Solar Cells. *ChemPlusChem*, **2017**, 82, 1057-1061	2.8	11
11	The application of electrospun titania nanofibers in dye-sensitized solar cells. *Chimia*, **2013**, 67, 149-54	1.3	9
10	Solar energy storage in a CsAgBiBr halide double perovskite photoelectrochemical cell. *Chemical Communications*, **2020**, 56, 7329-7332	5.8	8
9	Double D-□A dye linked by 2,2∀bipyridine dicarboxylic acid: influence of para- and meta-substituted carboxyl anchoring group. *ChemPhysChem*, **2015**, 16, 1035-41	3.2	6
8	BiVO/CsPtI Vacancy-Ordered Halide Perovskite Heterojunction for Panchromatic Light Harvesting and Enhanced Charge Separation in Photoelectrochemical Water Oxidation. *ACS Applied Materials & Interfaces*, **2021**, 13, 16267-16278	9.5	6
7	Design of above-room-temperature ferroelectric two-dimensional layered halide perovskites. *Journal of Materials Chemistry A*,	13	5
6	Manipulation of parity and polarization through structural distortion in light-emitting halide double perovskites. *Communications Materials*, **2021**, 2,	6	4
5	Enhanced H2 evolution through water splitting using TiO2/ultrathin g-C3N4: A type II heterojunction photocatalyst fabricated by in situ thermal exfoliation. *Applied Physics Letters*, **2021**, 119, 093901	3.4	4
4	Cs2PtI6 Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. *Angewandte Chemie*, **2020**, 132, 16167-16172	3.6	3
3	Role of Copper in Enhancing Visible Light Absorption in Cs2Ag(Bi, In, Sb)Cl6 Halide Double-Perovskite Materials. *Energy & Fuels*, **2021**, 35, 11479-11487	4.1	2
2	Cyclopentadithiophene-functionalized Ru(II)-bipyridine sensitizers for dye-sensitized solar cells. *Polyhedron*, **2014**, 82, 132-138	2.7	1
1	Acid- and Base-Stable Cs 2 Pt(Cl,Br) 6 Vacancy-Ordered Double Perovskites and Their Core□Shell Heterostructures for Solar Water Oxidation. *Solar Rrl*,2101092	7.1	1