Aravind Kumar Chandiran

List of Publications by Year
in descending order

36 papers	9,258 citations	361045 20 h-index	344852 36 g-index
36 all docs	36 docs citations	36 times ranked	11244 citing authors

#	Article	IF	Citations
1	Structural distortion induced broad emission in vacancy-ordered halide triple perovskites. Dalton Transactions, 2022, 51, 2789-2797.	1.6	5
2	Design of above-room-temperature ferroelectric two-dimensional layered halide perovskites. Journal of Materials Chemistry A, 2022, 10, 8719-8738.	5.2	22
3	Acidâ€•and Baseâ€Stable Cs₂Pt(Cl,Br)₆ Vacancyâ€Ordered Double Perovskites and Their Coreâ€“Shell Heterostructures for Solar Water Oxidation. Solar Rrl, 2022, 6, .	3.1	4
4	Investigation of charge collection layers for thin film rhenium sulfide solar cells. Applied Surface Science, 2022, 602, 154212.	3.1	2
5	BiVO₄/Cs₂PtI₆ 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.	4.0	17
6	Role of Copper in Enhancing Visible Light Absorption in Cs₂Ag(Bi, In, Sb)Cl₆ Halide Double-Perovskite Materials. Energy & Fuels, 2021, 35, 11479-11487.	2.5	12
7	Manipulation of parity and polarization through structural distortion in light-emitting halide double perovskites. Communications Materials, 2021, 2, .	2.9	17
8	Enhanced H2 evolution through water splitting using TiO2/ultrathin g-C3N4: A type II heterojunction photocatalyst fabricated by <i>in situ</i> thermal exfoliation. Applied Physics Letters, 2021, 119, .	1.5	12
9	Cs₂PtI₆ Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. Angewandte Chemie - International Edition, 2020, 59, 16033-16038.	7.2	34
10	Cs₂PtI₆ Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. Angewandte Chemie, 2020, 132, 16167-16172.	1.6	11
11	Solar energy storage in a Cs₂AgBiBr₆ halide double perovskite photoelectrochemical cell. Chemical Communications, 2020, 56, 7329-7332.	2.2	10
12	Pyridylâ€•and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dyeâ€Sensitized Solar Cells. ChemPlusChem, 2017, 82, 1057-1061.	1.3	14
13	Investigation on the Interface Modification of TiO₂ Surfaces by Functional Coâ€Adsorbents for Highâ€Efficiency Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2017, 18, 2724-2731.	1.0	26
14	Double Dâ€“Ï€â€“A Dye Linked by 2,2â€²â€Bipyridine Dicarboxylic Acid: Influence of <i>paraâ€‹</i> and <i>metaâ€‹</i>Substituted Carboxyl Anchoring Group. ChemPhysChem, 2015, 16, 1035-1041.	1.0	6
15	Analysis of Electron Transfer Properties of ZnO and TiO₂ Photoanodes for Dye-Sensitized Solar Cells. ACS Nano, 2014, 8, 2261-2268.	7.3	326
16	Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. Nano Letters, 2014, 14, 1190-1195.	4.5	42
17	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400217.	10.2	37
18	Subâ€Nanometer Conformal TiO₂ Blocking Layer for High Efficiency Solidâ€State Perovskite Absorber Solar Cells. Advanced Materials, 2014, 26, 4309-4312.	11.1	148

#	Article	IF	Citations
19	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.	1.5	35
20	Sterically Hindered Phthalocyanines for Dyeâ€Sensitized Solar Cells: Influence of the Distance between the Aromatic Core and the Anchoring Group. ChemPhysChem, 2014, 15, 1033-1036.	1.0	49
21	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.	5.2	80
22	Yttrium-substituted nanocrystalline TiO₂photoanodes for perovskite based heterojunction solar cells. Nanoscale, 2014, 6, 1508-1514.	2.8	162
23	Molecular Engineering of 2-Quinolinone Based Anchoring Groups for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16896-16903.	1.5	41
24	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2014, 24, 1615-1623.	7.8	99
25	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. Journal of Physical Chemistry Letters, 2014, 5, 501-505.	2.1	15
26	Cyclopentadithiophene-functionalized Ru(II)-bipyridine sensitizers for dye-sensitized solar cells. Polyhedron, 2014, 82, 132-138.	1.0	1
27	Evaluating the Critical Thickness of TiO₂ Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 2775-2781.	7.8	56
28	Low-Temperature Crystalline Titanium Dioxide by Atomic Layer Deposition for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 3487-3493.	4.0	70
29	Anatase TiO2 Hollow Microspheres Fabricated by Continuous Spray Pyrolysis as a Scattering Layer in Dye-Sensitised Solar Cells. Energy Procedia, 2013, 33, 223-227.	1.8	26
30	The Application of Electrospun Titania Nanofibers in Dye-sensitized Solar Cells. Chimia, 2013, 67, 149-154.	0.3	11
31	Mesoscopic CH₃NH₃PbI₃/TiO₂ Heterojunction Solar Cells. Journal of the American Chemical Society, 2012, 134, 17396-17399.	6.6	1,801
32	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, 3941-3947.	4.5	188
33	Electrical Properties of <scp><scp>Nb</scp></scp>â€, <scp><scp>Ga</scp></scp>â€, and <scp><scp>Y</scp></scp>â€Substituted Nanocrystalline Anatase <scp><scp>TiO</scp></scp>₂ Prepared by Hydrothermal Synthesis. Journal of the American Ceramic Society, 2012, 95, 3192-3196.	1.9	16
34	Ga³⁺ and Y³⁺ Cationic Substitution in Mesoporous TiO₂ Photoanodes for Photovoltaic Applications. Journal of Physical Chemistry C, 2011, 115, 9232-9240.	1.5	73
35	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)â€“Based Redox Electrolyte Exceed 12 Percent Efficiency. Science, 2011, 334, 629-634.	6.0	5,637
36	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.	1.5	153