

Aravind Kumar Chandiran

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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	BiVO/CsPtl Vacancy-Ordered Halide Perovskite Heterojunction for Panchromatic Light Harvesting and Enhanced Charge Separation in Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16267-16278	9.5	6
33	Role of Copper in Enhancing Visible Light Absorption in Cs ₂ Ag(Bi, In, Sb)Cl ₆ Halide Double-Perovskite Materials. <i>Energy & Fuels</i> , 2021 , 35, 11479-11487	4.1	2
32	Manipulation of parity and polarization through structural distortion in light-emitting halide double perovskites. <i>Communications Materials</i> , 2021 , 2,	6	4
31	Enhanced H ₂ evolution through water splitting using TiO ₂ /ultrathin g-C ₃ N ₄ : A type II heterojunction photocatalyst fabricated by in situ thermal exfoliation. <i>Applied Physics Letters</i> , 2021 , 119, 093901	3.4	4
30	Cs Ptl Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16033-16038	16.4	19
29	Cs ₂ Ptl ₆ Halide Perovskite is Stable to Air, Moisture, and Extreme pH: Application to Photoelectrochemical Solar Water Oxidation. <i>Angewandte Chemie</i> , 2020 , 132, 16167-16172	3.6	3
28	Solar energy storage in a CsAgBiBr halide double perovskite photoelectrochemical cell. <i>Chemical Communications</i> , 2020 , 56, 7329-7332	5.8	8
27	Pyridyl- and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , 2017 , 82, 1057-1061	2.8	11
26	Investigation on the Interface Modification of TiO Surfaces by Functional Co-Adsorbents for High-Efficiency Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2017 , 18, 2724-2731	3.2	19
25	Double D-EA dye linked by 2,2'-bipyridine dicarboxylic acid: influence of para- and meta-substituted carboxyl anchoring group. <i>ChemPhysChem</i> , 2015 , 16, 1035-41	3.2	6
24	Analysis of electron transfer properties of ZnO and TiO ₂ photoanodes for dye-sensitized solar cells. <i>ACS Nano</i> , 2014 , 8, 2261-8	16.7	284
23	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. <i>Nano Letters</i> , 2014 , 14, 1190-1195	5.5	40
22	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400217	21.8	37
21	Sub-nanometer conformal TiO ₂ blocking layer for high efficiency solid-state perovskite absorber solar cells. <i>Advanced Materials</i> , 2014 , 26, 4309-12	24	136
20	Toward Higher Photovoltage: Effect of Blocking Layer on Cobalt Bipyridine Pyrazole Complexes as Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16799-16805	3.8	33
19	Sterically hindered phthalocyanines for dye-sensitized solar cells: influence of the distance between the aromatic core and the anchoring group. <i>ChemPhysChem</i> , 2014 , 15, 1033-6	3.2	46
18	Controlled synthesis of TiO ₂ nanoparticles and nanospheres using a microwave assisted approach for their application in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1662-1667	13	69

17	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. <i>Nanoscale</i> , 2014 , 6, 1508-14	7.7	151
16	Molecular Engineering of 2-Quinolinone Based Anchoring Groups for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16896-16903	3.8	35
15	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 1615-1623	15.6	92
14	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 501-5	6.4	15
13	Cyclopentadithiophene-functionalized Ru(II)-bipyridine sensitizers for dye-sensitized solar cells. <i>Polyhedron</i> , 2014 , 82, 132-138	2.7	1
12	Evaluating the Critical Thickness of TiO ₂ Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 2775-2781	15.6	55
11	Low-temperature crystalline titanium dioxide by atomic layer deposition for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3487-93	9.5	70
10	Anatase TiO ₂ Hollow Microspheres Fabricated by Continuous Spray Pyrolysis as a Scattering Layer in Dye-Sensitized Solar Cells. <i>Energy Procedia</i> , 2013 , 33, 223-227	2.3	22
9	The application of electrospun titania nanofibers in dye-sensitized solar cells. <i>Chimia</i> , 2013 , 67, 149-54	1.3	9
8	Electrical Properties of Nb-, Ga-, and Y-Substituted Nanocrystalline Anatase TiO ₂ Prepared by Hydrothermal Synthesis. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3192-3196	3.8	16
7	Mesoscopic CH ₃ NH ₃ PbI ₃ /TiO ₂ heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17396-9	16.4	1623
6	Subnanometer Ga ₂ O ₃ tunnelling layer by atomic layer deposition to achieve 1.1 V open-circuit potential in dye-sensitized solar cells. <i>Nano Letters</i> , 2012 , 12, 3941-7	11.5	175
5	Ga ³⁺ and Y ³⁺ Cationic Substitution in Mesoporous TiO ₂ Photoanodes for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9232-9240	3.8	70
4	Porphyrim-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <i>Science</i> , 2011 , 334, 629-34	33.3	5284
3	Doping a TiO ₂ Photoanode with Nb ⁵⁺ to Enhance Transparency and Charge Collection Efficiency in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15849-15856	3.8	140
2	Design of above-room-temperature ferroelectric two-dimensional layered halide perovskites. <i>Journal of Materials Chemistry A</i> ,	13	5
1	Acid- and Base-Stable Cs ₂ Pt(Cl,Br) ₆ Vacancy-Ordered Double Perovskites and Their Core-Shell Heterostructures for Solar Water Oxidation. <i>Solar Rrl</i> , 2101092	7.1	1