

Aravind Kumar Chandiran

List of Publications by Year in descending order

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36
papers

9,258
citations

361045

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docs citations

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times ranked

11244
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Porphyrin-Sensitized Solar Cells with Cobalt (II/III)-Based Redox Electrolyte Exceed 12 Percent Efficiency. <i>Science</i> , 2011, 334, 629-634. | 6.0 | 5,637 |
| 2 | Mesoscopic $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{TiO}_2$ Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 17396-17399. | 6.6 | 1,801 |
| 3 | Analysis of Electron Transfer Properties of ZnO and TiO_2 Photoanodes for Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2014, 8, 2261-2268. | 7.3 | 326 |
| 4 | Subnanometer Ga_2O_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, 3941-3947. | 4.5 | 188 |
| 5 | Yttrium-substituted nanocrystalline TiO_2 photoanodes for perovskite based heterojunction solar cells. <i>Nanoscale</i> , 2014, 6, 1508-1514. | 2.8 | 162 |
| 6 | 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. | 1.5 | 153 |
| 7 | Sub-Nanometer Conformal TiO_2 Blocking Layer for High Efficiency Solid-State Perovskite Absorber Solar Cells. <i>Advanced Materials</i> , 2014, 26, 4309-4312. | 11.1 | 148 |
| 8 | 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. | 7.8 | 99 |
| 9 | 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. | 5.2 | 80 |
| 10 | 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. | 1.5 | 73 |
| 11 | Low-Temperature Crystalline Titanium Dioxide by Atomic Layer Deposition for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3487-3493. | 4.0 | 70 |
| 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. | 7.8 | 56 |
| 13 | 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, 1033-1036. | 1.0 | 49 |
| 14 | Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. <i>Nano Letters</i> , 2014, 14, 1190-1195. | 4.5 | 42 |
| 15 | Molecular Engineering of 2-Quinolinone Based Anchoring Groups for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16896-16903. | 1.5 | 41 |
| 16 | Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400217. | 10.2 | 37 |
| 17 | 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. | 1.5 | 35 |
| 18 | Cs_2Ptl_6 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. | 7.2 | 34 |

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|----|---|-----|-----------|
| 19 | 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. | 1.8 | 26 |
| 20 | Investigation on the Interface Modification of TiO ₂ Surfaces by Functional Co ^{II} Adsorbents for High-Efficiency Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2017, 18, 2724-2731. | 1.0 | 26 |
| 21 | Design of above-room-temperature ferroelectric two-dimensional layered halide perovskites. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8719-8738. | 5.2 | 22 |
| 22 | BiVO ₄ /Cs ₂ PtI ₆ 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. | 4.0 | 17 |
| 23 | Manipulation of parity and polarization through structural distortion in light-emitting halide double perovskites. <i>Communications Materials</i> , 2021, 2, . | 2.9 | 17 |
| 24 | Electrical Properties of Nb ⁵⁺ , Ga ³⁺ , and Y ³⁺ -Substituted Nanocrystalline Anatase TiO ₂ Prepared by Hydrothermal Synthesis. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3192-3196. | 1.9 | 16 |
| 25 | Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 501-505. | 2.1 | 15 |
| 26 | Pyridyl- and Picolinic Acid Substituted Zinc(II) Phthalocyanines for Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , 2017, 82, 1057-1061. | 1.3 | 14 |
| 27 | 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. | 2.5 | 12 |
| 28 | Enhanced H ₂ evolution through water splitting using TiO ₂ /ultrathin g-C ₃ N ₄ : A type II heterojunction photocatalyst fabricated by <i>in situ</i> thermal exfoliation. <i>Applied Physics Letters</i> , 2021, 119, . | 1.5 | 12 |
| 29 | The Application of Electrospun Titania Nanofibers in Dye-sensitized Solar Cells. <i>Chimia</i> , 2013, 67, 149-154. | 0.3 | 11 |
| 30 | Cs ₂ PtI 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. | 1.6 | 11 |
| 31 | Solar energy storage in a Cs ₂ AgBiBr ₆ halide double perovskite photoelectrochemical cell. <i>Chemical Communications</i> , 2020, 56, 7329-7332. | 2.2 | 10 |
| 32 | Double D-π-A Dye Linked by 2,2'-Bipyridine Dicarboxylic Acid: Influence of <i>para</i> - and <i>meta</i> -Substituted Carboxyl Anchoring Group. <i>ChemPhysChem</i> , 2015, 16, 1035-1041. | 1.0 | 6 |
| 33 | Structural distortion induced broad emission in vacancy-ordered halide triple perovskites. <i>Dalton Transactions</i> , 2022, 51, 2789-2797. | 1.6 | 5 |
| 34 | 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> , 2022, 6, . | 3.1 | 4 |
| 35 | Investigation of charge collection layers for thin film rhenium sulfide solar cells. <i>Applied Surface Science</i> , 2022, 602, 154212. | 3.1 | 2 |
| 36 | Cyclopentadithiophene-functionalized Ru(II)-bipyridine sensitizers for dye-sensitized solar cells. <i>Polyhedron</i> , 2014, 82, 132-138. | 1.0 | 1 |