

Aurora Rizzo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4583732/aurora-rizzo-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

107
papers

3,952
citations

33
h-index

61
g-index

119
ext. papers

4,389
ext. citations

7.6
avg, IF

5.14
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 107 | MAPbI ₃ -xCl _x Mixed Halide Perovskite for Hybrid Solar Cells: The Role of Chloride as Dopant on the Transport and Structural Properties. <i>Chemistry of Materials</i> , 2013 , 25, 4613-4618 | 9.6 | 658 |
| 106 | Sequential Growth of Magic-Size CdSe Nanocrystals. <i>Advanced Materials</i> , 2007 , 19, 548-552 | 24 | 259 |
| 105 | Bright White-Light-Emitting Device from Ternary Nanocrystal Composites. <i>Advanced Materials</i> , 2006 , 18, 2545-2548 | 24 | 189 |
| 104 | Elusive Presence of Chloride in Mixed Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3532-8 | 6.4 | 160 |
| 103 | Investigating charge dynamics in halide perovskite-sensitized mesostructured solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1889-1894 | 35.4 | 137 |
| 102 | Optical determination of Shockley-Read-Hall and interface recombination currents in hybrid perovskites. <i>Scientific Reports</i> , 2017 , 7, 44629 | 4.9 | 112 |
| 101 | Polarized light emitting diode by long-range nanorod self-assembling on a water surface. <i>ACS Nano</i> , 2009 , 3, 1506-12 | 16.7 | 106 |
| 100 | The Bright Side of Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4322-4334 | 6.4 | 100 |
| 99 | White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. <i>Journal of Applied Physics</i> , 2005 , 97, 113501 | 2.5 | 100 |
| 98 | Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13305-13317 | 3.8 | 91 |
| 97 | Hybrid Light-Emitting Diodes from Microcontact-Printing Double-Transfer of Colloidal Semiconductor CdSe/ZnS Quantum Dots onto Organic Layers. <i>Advanced Materials</i> , 2008 , 20, 1886-1891 | 24 | 82 |
| 96 | Blue light emitting diodes based on fluorescent CdSe/ZnS nanocrystals. <i>Applied Physics Letters</i> , 2007 , 90, 051106 | 3.4 | 76 |
| 95 | Effect of Mesostructured Layer upon Crystalline Properties and Device Performance on Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1628-37 | 6.4 | 69 |
| 94 | Multiscale morphology design of hybrid halide perovskites through a polymeric template. <i>Nanoscale</i> , 2015 , 7, 18956-63 | 7.7 | 67 |
| 93 | Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602600 | 21.8 | 65 |
| 92 | Growing perovskite into polymers for easy-processable optoelectronic devices. <i>Scientific Reports</i> , 2015 , 5, 7725 | 4.9 | 65 |
| 91 | White light with phosphorescent protein fibrils in OLEDs. <i>Nano Letters</i> , 2010 , 10, 2225-30 | 11.5 | 64 |

| | | | |
|----|---|------|----|
| 90 | Rational Design of Molecular Hole-Transporting Materials for Perovskite Solar Cells: Direct versus Inverted Device Configurations. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24778-24787 | 9.5 | 59 |
| 89 | Cooperative Effect of GO and Glucose on PEDOT:PSS for High VOC and Hysteresis-Free Solution-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 6985-6994 | 15.6 | 55 |
| 88 | NiO/MAPbI(3-x)Clx/PCBM: a model case for an improved understanding of inverted mesoscopic solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4283-9 | 9.5 | 52 |
| 87 | White electroluminescence from a microcontact-printing-deposited CdSe/ZnS colloidal quantum-dot monolayer. <i>Small</i> , 2008 , 4, 2143-7 | 11 | 52 |
| 86 | Poly-(3-hexylthiophene)/[6,6]-phenyl-C61-butyric-acid-methyl-ester bilayer deposition by matrix-assisted pulsed laser evaporation for organic photovoltaic applications. <i>Applied Physics Letters</i> , 2012 , 100, 073306 | 3.4 | 50 |
| 85 | Bulk Heterojunction versus Diffused Bilayer: The Role of Device Geometry in Solution p-Doped Polymer-Based Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1908-15 | 6.4 | 49 |
| 84 | Molecular-Level Switching of Polymer/Nanocrystal Non-Covalent Interactions and Application in Hybrid Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 111-119 | 15.6 | 47 |
| 83 | White-light-emitting diodes using semiconductor nanocrystals. <i>Mikrochimica Acta</i> , 2007 , 159, 207-215 | 5.8 | 45 |
| 82 | Tunable Out-of-Plane Excitons in 2D Single-Crystal Perovskites. <i>ACS Photonics</i> , 2018 , 5, 4179-4185 | 6.3 | 44 |
| 81 | Role of Polymer in Hybrid Polymer/PbS Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14972-14979 | 3.8 | 40 |
| 80 | Connecting the solution chemistry of PBI and MAI: a cyclodextrin-based supramolecular approach to the formation of hybrid halide perovskites. <i>Chemical Science</i> , 2018 , 9, 3200-3208 | 9.4 | 39 |
| 79 | Multifunctional platinum porphyrin dendrimers as emitters in undoped phosphorescent based light emitting devices. <i>Applied Physics Letters</i> , 2006 , 89, 061125 | 3.4 | 38 |
| 78 | Direct or Indirect Bandgap in Hybrid Lead Halide Perovskites?. <i>Advanced Optical Materials</i> , 2018 , 6, 1701854 | 18.5 | 36 |
| 77 | Polymeric rheology modifier allows single-step coating of perovskite ink for highly efficient and stable solar cells. <i>Nano Energy</i> , 2018 , 54, 400-408 | 17.1 | 36 |
| 76 | White light-emitting devices based on the combined emission from red CdSe/ZnS quantum dots, green phosphorescent, and blue fluorescent organic molecules. <i>Applied Physics Letters</i> , 2009 , 94, 243506 | 3.4 | 34 |
| 75 | Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. <i>Scientific Reports</i> , 2018 , 8, 15496 | 4.9 | 33 |
| 74 | Graded vertical phase separation of donor/acceptor species for polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 147-152 | 6.4 | 32 |
| 73 | Covalently Functionalized SWCNTs as Tailored p-Type Dopants for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27966-27973 | 9.5 | 31 |

| | | | |
|----|--|------|----|
| 72 | Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013 , 6, 1565 | 35.4 | 29 |
| 71 | X-ray photoelectron spectroscopy of reduced graphene oxide prepared by a novel green method. <i>Vacuum</i> , 2015 , 119, 159-162 | 3.7 | 28 |
| 70 | Phototransport in networks of tetrapod-shaped colloidal semiconductor nanocrystals. <i>Nanoscale</i> , 2010 , 2, 2171-9 | 7.7 | 28 |
| 69 | Implications of TiO ₂ surface functionalization on polycrystalline mixed halide perovskite films and photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20811-20818 | 13 | 26 |
| 68 | Monodispersed vs. polydispersed systems for bulk heterojunction solar cells: the case of dithienopyrrole/anthracene based materials. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19752 | | 26 |
| 67 | Preparation of phosphorescent amyloid-like protein fibrils. <i>Chemistry - A European Journal</i> , 2010 , 16, 4190-5 | 4.8 | 26 |
| 66 | Addressing the Function of Easily Synthesized Hole Transporters in Direct and Inverted Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1069-1076 | 6.1 | 25 |
| 65 | GO/glucose/PEDOT:PSS ternary nanocomposites for flexible supercapacitors. <i>Composites Part B: Engineering</i> , 2018 , 148, 149-155 | 10 | 25 |
| 64 | Synthesis, Properties, and Modeling of Cs _{1-x} Rb _x SnBr ₃ Solid Solution: A New Mixed-Cation Lead-Free All-Inorganic Perovskite System. <i>Chemistry of Materials</i> , 2019 , 31, 3527-3533 | 9.6 | 21 |
| 63 | Organic photovoltaic devices with colloidal TiO ₂ nanorods as key functional components. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3987-95 | 3.6 | 21 |
| 62 | Engineering TiO ₂ /Perovskite Planar Heterojunction for Hysteresis-Less Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600493 | 4.6 | 21 |
| 61 | Elucidating the effect of the lead iodide complexation degree behind the morphology and performance of perovskite solar cells. <i>Nanoscale</i> , 2017 , 9, 3889-3897 | 7.7 | 20 |
| 60 | Mastering heterostructured colloidal nanocrystal properties for light-emitting diodes and solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6430-6446 | 7.1 | 20 |
| 59 | Light-Induced Formation of Pb ³⁺ Paramagnetic Species in Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2018 , 3, 1840-1847 | 20.1 | 20 |
| 58 | Synthesis and Photovoltaic Properties of Regioregular Head-to-Head Substituted Thiophene Hexadecamers. <i>Macromolecules</i> , 2012 , 45, 8284-8291 | 5.5 | 20 |
| 57 | Rheological and physical characterization of PEDOT: PSS/graphene oxide nanocomposites for perovskite solar cells. <i>Polymer Engineering and Science</i> , 2017 , 57, 546-552 | 2.3 | 19 |
| 56 | UV Reduced Graphene Oxide PEDOT:PSS Nanocomposite for Perovskite Solar Cells. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 725-730 | 2.6 | 18 |
| 55 | Attenuation lengths of low-energy electrons in solids: The case of CoO. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 18 |

| | | | |
|----|--|-----|----|
| 54 | Pulsed laser deposition of a dense and uniform Au nanoparticles layer for surface plasmon enhanced efficiency hybrid solar cells. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 17 |
| 53 | Dislocations in AlIBVI single crystals. <i>Physica Status Solidi A</i> , 1988 , 105, 101-112 | | 16 |
| 52 | Rheological Tunability of Perovskite Precursor Solutions: From Spin Coating to Inkjet Printing Process. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 15 |
| 51 | Thermally evaporated hybrid perovskite for hetero-structured green light-emitting diodes. <i>Applied Physics Letters</i> , 2017 , 111, 163301 | 3.4 | 14 |
| 50 | Optimizing the Interface between Hole Transporting Material and Nanocomposite for Highly Efficient Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 14 |
| 49 | Ambient condition retention of band-gap tuning in MAPbI ₃ induced by high pressure quenching. <i>Chemical Communications</i> , 2018 , 54, 13212-13215 | 5.8 | 14 |
| 48 | Exploring the role of halide mixing in lead-free BZA ₂ SnX ₄ two dimensional hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1875-1886 | 13 | 13 |
| 47 | In-plane Aligned Colloidal 2D WS ₂ Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , 2019 , 9, 9002 | 4.9 | 12 |
| 46 | All-donor poly(arylene-ethynylene)s containing anthracene and silole-based units: Synthesis, electronic, and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4860-4872 | 2.5 | 12 |
| 45 | Highly Efficient All-Solid-State WO ₃ -Perovskite Photovoltachromic Cells for Single-Glass Smart Windows. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10453-10462 | 6.1 | 12 |
| 44 | GO/PEDOT:PSS nanocomposites: effect of different dispersing agents on rheological, thermal, wettability and electrochemical properties. <i>Nanotechnology</i> , 2017 , 28, 174001 | 3.4 | 11 |
| 43 | Improved photovoltaic performances by post-deposition acidic treatments on tetrapod shaped colloidal nanocrystal solids. <i>Nanotechnology</i> , 2012 , 23, 305403 | 3.4 | 11 |
| 42 | Room-temperature processed films of colloidal carved rod-shaped nanocrystals of reduced tungsten oxide as interlayers for perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11396-11404 | 3.6 | 10 |
| 41 | Nanowalled polymer microtubes fabricated by using strained semiconductor templates. <i>Nanotechnology</i> , 2010 , 21, 245305 | 3.4 | 10 |
| 40 | The attenuation length of low energy electrons in Yb. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 305002 | 1.8 | 9 |
| 39 | Rod-coil block copolymer as nanostructuring compatibilizer for efficient CdSe NCs/PCPDTBT hybrid solar cells. <i>European Polymer Journal</i> , 2016 , 78, 352-363 | 5.2 | 9 |
| 38 | In Situ X-ray Absorption Spectroscopy X-ray Diffraction Investigation of Nb ₂ O ₅ Nanoclusters in MgH ₂ during Hydrogen Desorption. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7765-7770 | 3.8 | 8 |
| 37 | Simple Processing Additive-Driven 20% Efficiency for Inverted Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18431-18436 | 9.5 | 8 |

| | | | |
|----|--|------|---|
| 36 | Biodegradable Carbon-based Ashes/Maize Starch Composite Films for Agricultural Applications. <i>Polymers</i> , 2020 , 12, | 4.5 | 8 |
| 35 | One-step synthesis at room temperature of low dimensional perovskite single crystals with high optical quality. <i>Journal of Luminescence</i> , 2020 , 221, 117079 | 3.8 | 8 |
| 34 | Synthesis of Reduced Graphite Oxide by a Novel Green Process Based on UV Light Irradiation. <i>Science of Advanced Materials</i> , 2015 , 7, 2445-2451 | 2.3 | 8 |
| 33 | Biodegradable extruded thermoplastic maize starch for outdoor applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 549-558 | 4.1 | 7 |
| 32 | Surface chemistry of arenethiolate-capped PbS quantum dots and application as colloiddally stable photovoltaic ink. <i>Thin Solid Films</i> , 2014 , 560, 2-9 | 2.2 | 7 |
| 31 | Managing Growth and Dimensionality of Quasi 2D Perovskite Single-Crystalline Flakes for Tunable Excitons Orientation. <i>Advanced Materials</i> , 2021 , 33, e2102326 | 24 | 7 |
| 30 | Two-step MAPbI ₃ deposition by low-vacuum proximity-space-effusion for high-efficiency inverted semitransparent perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16456-16469 | 13 | 7 |
| 29 | Three-dimensional self-assembly of networked branched TiO ₂ nanocrystal scaffolds for efficient room-temperature processed depleted bulk heterojunction solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5026-33 | 9.5 | 6 |
| 28 | Angular distribution of field emitted electrons from vertically aligned carbon nanotube arrays. <i>Applied Physics Letters</i> , 2012 , 100, 053116 | 3.4 | 6 |
| 27 | One-step polymer assisted roll-to-roll gravure-printed perovskite solar cells without using anti-solvent bathing. <i>Cell Reports Physical Science</i> , 2021 , 100639 | 6.1 | 6 |
| 26 | Polymer-Assisted Single-Step Slot-Die Coating of Flexible Perovskite Solar Cells at Mild Temperature from Dimethyl Sulfoxide. <i>ChemPlusChem</i> , 2021 , 86, 1442-1450 | 2.8 | 6 |
| 25 | Molecular Doping for Hole Transporting Materials in Hybrid Perovskite Solar Cells. <i>Metals</i> , 2020 , 10, 14 | 2.3 | 5 |
| 24 | Light energy harvesting with nano-dipoles. <i>Nanoscale</i> , 2012 , 4, 1728-33 | 7.7 | 5 |
| 23 | Implication of polymeric template agent on the formation process of hybrid halide perovskite film. <i>Nanotechnology</i> , 2021 , | 3.4 | 5 |
| 22 | Managing transparency through polymer/perovskite blending: A route toward thermostable and highly efficient, semi-transparent solar cells. <i>Nano Energy</i> , 2021 , 89, 106406 | 17.1 | 5 |
| 21 | Mechanistic insight into the formation of colloidal WS ₂ nanoflakes in hot alkylamine media. <i>Nanoscale Advances</i> , 2019 , 1, 2772-2782 | 5.1 | 4 |
| 20 | Room-temperature treatments for all-inorganic nanocrystal solar cell devices. <i>Thin Solid Films</i> , 2014 , 560, 44-48 | 2.2 | 4 |
| 19 | The Effect of Extended Ball-Milling upon Three-Dimensional and Two-Dimensional Perovskite Crystals Properties. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4775 | 2.6 | 4 |

| | | | |
|----|---|------|---|
| 18 | Methylammonium-formamidinium reactivity in aged organometal halide perovskite inks. <i>Cell Reports Physical Science</i> , 2021 , 2, 100432 | 6.1 | 4 |
| 17 | An Insight into Chemistry and Structure of Colloidal 2D-WS Nanoflakes: Combined XPS and XRD Study. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 4 |
| 16 | Charge Carrier Generation and Extraction in Hybrid Polymer/Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14356-14364 | 3.8 | 3 |
| 15 | Sequential deposition of hybrid halide perovskite starting both from lead iodide and lead chloride on the most widely employed substrates. <i>Thin Solid Films</i> , 2018 , 657, 110-117 | 2.2 | 3 |
| 14 | Production and Characterization of Polyethylene Terephthalate Nanoparticles. <i>Polymers</i> , 2021 , 13, | 4.5 | 3 |
| 13 | Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 3 |
| 12 | Quantum Nature of Light in Nonstoichiometric Bulk Perovskites. <i>ACS Nano</i> , 2019 , 13, 10711-10716 | 16.7 | 2 |
| 11 | MAPbI ₃ -xCl _x mixed halide perovskite for hybrid solar cells: the role of chloride as dopant on the transport and structural properties. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1667, 41 | | 2 |
| 10 | Morphological Study of CdSe Nanocrystals Passivated with a Low Band Gap Rod-Coil Diblock Copolymer for Hybrid Solar Cells. <i>Advances in Science and Technology</i> , 2014 , 93, 235-240 | 0.1 | 2 |
| 9 | Investigating Charge Dynamics in Halide Perovskite Sensitized Mesostructured Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1667, 7 | | 2 |
| 8 | Investigating temperature-induced structural changes of lead halide perovskites by in situ X-ray powder diffraction. <i>Journal of Applied Crystallography</i> , 2019 , 52, 1104-1118 | 3.8 | 2 |
| 7 | Electronic transport, ionic activation energy and trapping phenomena in a polymer-hybrid halide perovskite composite. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 543-543 | 4.2 | 2 |
| 6 | Effect of surface tension and drying time on inkjet-printed PEDOT:PSS for ITO-free OLED devices. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 7, 100394-100394 | 4.2 | 2 |
| 5 | Hybrid colloidal nanocrystal-organics based LEDs 2008 , | | 1 |
| 4 | Carbon nanotubeBased cold cathodes: Field emission angular properties and temporal stability. <i>Journal of Applied Physics</i> , 2016 , 120, 164305 | 2.5 | 1 |
| 3 | Improved Photostability in Fluorinated 2D Perovskite Single Crystals. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 1 |
| 2 | Photoluminescence emission induced by localized states in halide-passivated colloidal two-dimensional WS ₂ nanoflakes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2398-2407 | 7.1 | 1 |
| 1 | Correlating the chemical structure and charge transport ability of dibenzofulvene-based hole transporting materials for stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5981-5993 | 7.1 | 1 |

