Aurora Rizzo

List of Publications by Year in Descending Order

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	Correlating the chemical structure and charge transport ability of dibenzofulvene-based hole transporting materials for stable perovskite solar cells. *Journal of Materials Chemistry C*, **2022**, 10, 5981-5993	7.1	1
106	One-step polymer assisted roll-to-roll gravure-printed perovskite solar cells without using anti-solvent bathing. *Cell Reports Physical Science*, **2021**, 100639	6.1	6
105	Polymer-Assisted Single-Step Slot-Die Coating of Flexible Perovskite Solar Cells at Mild Temperature from Dimethyl Sulfoxide. *ChemPlusChem*, **2021**, 86, 1442-1450	2.8	6
104	Managing Growth and Dimensionality of Quasi 2D Perovskite Single-Crystalline Flakes for Tunable Excitons Orientation. *Advanced Materials*, **2021**, 33, e2102326	24	7
103	Production and Characterization of Polyethylene Terephthalate Nanoparticles. *Polymers*, **2021**, 13,	4.5	3
102	Implication of polymeric template agent on the formation process of hybrid halide perovskite film. *Nanotechnology*, **2021**,	3.4	5
101	Methylammonium-formamidinium reactivity in aged organometal halide perovskite inks. *Cell Reports Physical Science*, **2021**, 2, 100432	6.1	4
100	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. *Nanomaterials*, **2021**, 11,	5.4	3
99	Electronic transport, ionic activation energy and trapping phenomena in a polymer-hybrid halide perovskite composite. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 543-543	4.2	2
98	Two-step MAPbI3 deposition by low-vacuum proximity-space-effusion for high-efficiency inverted semitransparent perovskite solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 16456-16469	13	7
97	Improved Photostability in Fluorinated 2D Perovskite Single Crystals. *Nanomaterials*, **2021**, 11,	5.4	1
96	An Insight into Chemistry and Structure of Colloidal 2D-WS Nanoflakes: Combined XPS and XRD Study. *Nanomaterials*, **2021**, 11,	5.4	4
95	Effect of surface tension and drying time on inkjet-printed PEDOT:PSS for ITO-free OLED devices. *Journal of Science: Advanced Materials and Devices*, **2021**, 7, 100394-100394	4.2	2
94	Managing transparency through polymer/perovskite blending: A route toward thermostable and highly efficient, semi-transparent solar cells. *Nano Energy*, **2021**, 89, 106406	17.1	5
93	Photoluminescence emission induced by localized states in halide-passivated colloidal two-dimensional WS2 nanoflakes. *Journal of Materials Chemistry C*, **2021**, 9, 2398-2407	7.1	1
92	Simple Processing Additive-Driven 20% Efficiency for Inverted Planar Heterojunction Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 18431-18436	9.5	8
91	Biodegradable Carbon-based Ashes/Maize Starch Composite Films for Agricultural Applications. *Polymers*, **2020**, 12,	4.5	8

90	One-step synthesis at room temperature of low dimensional perovskite single crystals with high optical quality. *Journal of Luminescence*, **2020**, 221, 117079	3.8	8
89	Molecular Doping for Hole Transporting Materials in Hybrid Perovskite Solar Cells. *Metals*, **2020**, 10, 14	2.3	5
88	Exploring the role of halide mixing in lead-free BZA2SnX4 two dimensional hybrid perovskites. *Journal of Materials Chemistry A*, **2020**, 8, 1875-1886	13	13
87	Highly Efficient All-Solid-State WO3-Perovskite Photovoltachromic Cells for Single-Glass Smart Windows. *ACS Applied Energy Materials*, **2020**, 3, 10453-10462	6.1	12
86	The Effect of Extended Ball-Milling upon Three-Dimensional and Two-Dimensional Perovskite Crystals Properties. *Applied Sciences (Switzerland)*, **2020**, 10, 4775	2.6	4
85	Quantum Nature of Light in Nonstoichiometric Bulk Perovskites. *ACS Nano*, **2019**, 13, 10711-10716	16.7	2
84	Mechanistic insight into the formation of colloidal WS2 nanoflakes in hot alkylamine media. *Nanoscale Advances*, **2019**, 1, 2772-2782	5.1	4
83	Rheological Tunability of Perovskite Precursor Solutions: From Spin Coating to Inkjet Printing Process. *Nanomaterials*, **2019**, 9,	5.4	15
82	Synthesis, Properties, and Modeling of Cs1−xRbxSnBr3 Solid Solution: A New Mixed-Cation Lead-Free All-Inorganic Perovskite System. *Chemistry of Materials*, **2019**, 31, 3527-3533	9.6	21
81	In-plane Aligned Colloidal 2D WS Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. *Scientific Reports*, **2019**, 9, 9002	4.9	12
80	Investigating temperature-induced structural changes of lead halide perovskites by in situ X-ray powder diffraction. *Journal of Applied Crystallography*, **2019**, 52, 1104-1118	3.8	2
79	Optimizing the Interface between Hole Transporting Material and Nanocomposite for Highly Efficient Perovskite Solar Cells. *Nanomaterials*, **2019**, 9,	5.4	14
78	Addressing the Function of Easily Synthesized Hole Transporters in Direct and Inverted Perovskite Solar Cells. *ACS Applied Energy Materials*, **2018**, 1, 1069-1076	6.1	25
77	Connecting the solution chemistry of PbI and MAI: a cyclodextrin-based supramolecular approach to the formation of hybrid halide perovskites. *Chemical Science*, **2018**, 9, 3200-3208	9.4	39
76	GO/glucose/PEDOT:PSS ternary nanocomposites for flexible supercapacitors. *Composites Part B: Engineering*, **2018**, 148, 149-155	10	25
75	Room-temperature processed films of colloidal carved rod-shaped nanocrystals of reduced tungsten oxide as interlayers for perovskite solar cells. *Physical Chemistry Chemical Physics*, **2018**, 20, 11396-11404	3.6	10
74	Direct or Indirect Bandgap in Hybrid Lead Halide Perovskites?. *Advanced Optical Materials*, **2018**, 6, 1701254	8.4	36
73	Light-Induced Formation of Pb3+ Paramagnetic Species in Lead Halide Perovskites. *ACS Energy Letters*, **2018**, 3, 1840-1847	20.1	20

72	Sequential deposition of hybrid halide perovskite starting both from lead iodide and lead chloride on the most widely employed substrates. *Thin Solid Films*, **2018**, 657, 110-117	2.2	3
71	Biodegradable extruded thermoplastic maize starch for outdoor applications. *Journal of Thermal Analysis and Calorimetry*, **2018**, 134, 549-558	4.1	7
70	Ambient condition retention of band-gap tuning in MAPbI induced by high pressure quenching. *Chemical Communications*, **2018**, 54, 13212-13215	5.8	14
69	Polymeric rheology modifier allows single-step coating of perovskite ink for highly efficient and stable solar cells. *Nano Energy*, **2018**, 54, 400-408	17.1	36
68	Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. *Scientific Reports*, **2018**, 8, 15496	4.9	33
67	Tunable Out-of-Plane Excitons in 2D Single-Crystal Perovskites. *ACS Photonics*, **2018**, 5, 4179-4185	6.3	44
66	Elucidating the effect of the lead iodide complexation degree behind the morphology and performance of perovskite solar cells. *Nanoscale*, **2017**, 9, 3889-3897	7.7	20
65	GO/PEDOT:PSS nanocomposites: effect of different dispersing agents on rheological, thermal, wettability and electrochemical properties. *Nanotechnology*, **2017**, 28, 174001	3.4	11
64	Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602600	21.8	65
63	Rheological and physical characterization of PEDOT: PSS/graphene oxide nanocomposites for perovskite solar cells. *Polymer Engineering and Science*, **2017**, 57, 546-552	2.3	19
62	Optical determination of Shockley-Read-Hall and interface recombination currents in hybrid perovskites. *Scientific Reports*, **2017**, 7, 44629	4.9	112
61	Thermally evaporated hybrid perovskite for hetero-structured green light-emitting diodes. *Applied Physics Letters*, **2017**, 111, 163301	3.4	14
60	Rational Design of Molecular Hole-Transporting Materials for Perovskite Solar Cells: Direct versus Inverted Device Configurations. *ACS Applied Materials & Interfaces*, **2017**, 9, 24778-24787	9.5	59
59	Cooperative Effect of GO and Glucose on PEDOT:PSS for High VOC and Hysteresis-Free Solution-Processed Perovskite Solar Cells. *Advanced Functional Materials*, **2016**, 26, 6985-6994	15.6	55
58	Covalently Functionalized SWCNTs as Tailored p-Type Dopants for Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 27966-27973	9.5	31
57	The Bright Side of Perovskites. *Journal of Physical Chemistry Letters*, **2016**, 7, 4322-4334	6.4	100
56	Mastering heterostructured colloidal nanocrystal properties for light-emitting diodes and solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 6430-6446	7.1	20
55	Charge Carrier Generation and Extraction in Hybrid Polymer/Quantum Dot Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 14356-14364	3.8	3

54	UV Reduced Graphene Oxide PEDOT:PSS Nanocomposite for Perovskite Solar Cells. *IEEE Nanotechnology Magazine*, **2016**, 15, 725-730	2.6	18
53	Carbon nanotube□Based cold cathodes: Field emission angular properties and temporal stability. *Journal of Applied Physics*, **2016**, 120, 164305	2.5	1
52	Rod-coil block copolymer as nanostructuring compatibilizer for efficient CdSe NCs/PCPDTBT hybrid solar cells. *European Polymer Journal*, **2016**, 78, 352-363	5.2	9
51	Engineering TiO2/Perovskite Planar Heterojunction for Hysteresis-Less Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600493	4.6	21
50	Growing perovskite into polymers for easy-processable optoelectronic devices. *Scientific Reports*, **2015**, 5, 7725	4.9	65
49	Role of Polymer in Hybrid Polymer/PbS Quantum Dot Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 14972-14979	3.8	40
48	Effect of Mesostructured Layer upon Crystalline Properties and Device Performance on Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 1628-37	6.4	69
47	In Situ X-ray Absorption Spectroscopy□X-ray Diffraction Investigation of Nb□□ Nanoclusters in MgH2 during Hydrogen Desorption. *Journal of Physical Chemistry C*, **2015**, 119, 7765-7770	3.8	8
46	Multiscale morphology design of hybrid halide perovskites through a polymeric template. *Nanoscale*, **2015**, 7, 18956-63	7.7	67
45	Implications of TiO2 surface functionalization on polycrystalline mixed halide perovskite films and photovoltaic devices. *Journal of Materials Chemistry A*, **2015**, 3, 20811-20818	13	26
44	X-ray photoelectron spectroscopy of reduced graphene oxide prepared by a novel green method. *Vacuum*, **2015**, 119, 159-162	3.7	28
43	Molecular-Level Switching of Polymer/Nanocrystal Non-Covalent Interactions and Application in Hybrid Solar Cells. *Advanced Functional Materials*, **2015**, 25, 111-119	15.6	47
42	NiO/MAPbI(3-x)Clx/PCBM: a model case for an improved understanding of inverted mesoscopic solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 4283-9	9.5	52
41	Synthesis of Reduced Graphite Oxide by a Novel Green Process Based on UV Light Irradiation. *Science of Advanced Materials*, **2015**, 7, 2445-2451	2.3	8
40	Investigating charge dynamics in halide perovskite-sensitized mesostructured solar cells. *Energy and Environmental Science*, **2014**, 7, 1889-1894	35.4	137
39	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. *Thin Solid Films*, **2014**, 560, 44-48	2.2	4
38	Three-dimensional self-assembly of networked branched TiO□nanocrystal scaffolds for efficient room-temperature processed depleted bulk heterojunction solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 5026-33	9.5	6
37	Elusive Presence of Chloride in Mixed Halide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 3532-8	6.4	160

36	MAPbI3-xClx mixed halide perovskite for hybrid solar cells: the role of chloride as dopant on the transport and structural properties. *Materials Research Society Symposia Proceedings*, **2014**, 1667, 41		2
35	Morphological Study of CdSe Nanocrystals Passivated with a Low Band Gap Rod-Coil Diblock Copolymer for Hybrid Solar Cells. *Advances in Science and Technology*, **2014**, 93, 235-240	0.1	2
34	Investigating Charge Dynamics in Halide Perovskite Sensitized Mesostructured Solar Cells. *Materials Research Society Symposia Proceedings*, **2014**, 1667, 7		2
33	Surface chemistry of arenethiolate-capped PbS quantum dots and application as colloidally stable photovoltaic ink. *Thin Solid Films*, **2014**, 560, 2-9	2.2	7
32	MAPbI3-xClx Mixed Halide Perovskite for Hybrid Solar Cells: The Role of Chloride as Dopant on the Transport and Structural Properties. *Chemistry of Materials*, **2013**, 25, 4613-4618	9.6	658
31	All-donor poly(arylene-ethynylene)s containing anthracene and silole-based units: Synthesis, electronic, and photovoltaic properties. *Journal of Polymer Science Part A*, **2013**, 51, 4860-4872	2.5	12
30	Pulsed laser deposition of a dense and uniform Au nanoparticles layer for surface plasmon enhanced efficiency hybrid solar cells. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	17
29	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. *Energy and Environmental Science*, **2013**, 6, 1565	35.4	29
28	Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. *Journal of Physical Chemistry C*, **2013**, 117, 13305-13317	3.8	91
27	Graded vertical phase separation of donor/acceptor species for polymer solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 100, 147-152	6.4	32
26	Bulk Heterojunction versus Diffused Bilayer: The Role of Device Geometry in Solution p-Doped Polymer-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2012**, 3, 1908-15	6.4	49
25	Light energy harvesting with nano-dipoles. *Nanoscale*, **2012**, 4, 1728-33	7.7	5
24	Synthesis and Photovoltaic Properties of Regioregular Head-to-Head Substituted Thiophene Hexadecamers. *Macromolecules*, **2012**, 45, 8284-8291	5.5	20
23	Organic photovoltaic devices with colloidal TiO2 nanorods as key functional components. *Physical Chemistry Chemical Physics*, **2012**, 14, 3987-95	3.6	21
22	Angular distribution of field emitted electrons from vertically aligned carbon nanotube arrays. *Applied Physics Letters*, **2012**, 100, 053116	3.4	6
21	Monodispersed vs. polydispersed systems for bulk heterojunction solar cells: the case of dithienopyrrole/anthracene based materials. *Journal of Materials Chemistry*, **2012**, 22, 19752		26
20	Poly-(3-hexylthiophene)/[6,6]-phenyl-C61-butyric-acid-methyl-ester bilayer deposition by matrix-assisted pulsed laser evaporation for organic photovoltaic applications. *Applied Physics Letters*, **2012**, 100, 073306	3.4	50
19	Improved photovoltaic performances by post-deposition acidic treatments on tetrapod shaped colloidal nanocrystal solids. *Nanotechnology*, **2012**, 23, 305403	3.4	11

18	Nanowalled polymer microtubes fabricated by using strained semiconductor templates. *Nanotechnology*, **2010**, 21, 245305	3.4	10
17	White light with phosphorescent protein fibrils in OLEDs. *Nano Letters*, **2010**, 10, 2225-30	11.5	64
16	Phototransport in networks of tetrapod-shaped colloidal semiconductor nanocrystals. *Nanoscale*, **2010**, 2, 2171-9	7.7	28
15	The attenuation length of low energy electrons in Yb. *Journal of Physics Condensed Matter*, **2010**, 22, 305002	1.8	9
14	Preparation of phosphorescent amyloid-like protein fibrils. *Chemistry - A European Journal*, **2010**, 16, 4190-5	4.8	26
13	White light-emitting devices based on the combined emission from red CdSe/ZnS quantum dots, green phosphorescent, and blue fluorescent organic molecules. *Applied Physics Letters*, **2009**, 94, 243506	3.4	34
12	Polarized light emitting diode by long-range nanorod self-assembling on a water surface. *ACS Nano*, **2009**, 3, 1506-12	16.7	106
11	Attenuation lengths of low-energy electrons in solids: The case of CoO. *Physical Review B*, **2008**, 77,	3.3	18
10	Hybrid colloidal nanocrystal-organics based LEDs **2008**,		1
9	White electroluminescence from a microcontact-printing-deposited CdSe/ZnS colloidal quantum-dot monolayer. *Small*, **2008**, 4, 2143-7	11	52
8	Hybrid Light-Emitting Diodes from Microcontact-Printing Double-Transfer of Colloidal Semiconductor CdSe/ZnS Quantum Dots onto Organic Layers. *Advanced Materials*, **2008**, 20, 1886-1891	24	82
7	Blue light emitting diodes based on fluorescent CdSe/ZnS nanocrystals. *Applied Physics Letters*, **2007**, 90, 051106	3.4	76
6	Sequential Growth of Magic-Size CdSe Nanocrystals. *Advanced Materials*, **2007**, 19, 548-552	24	259
5	White-light-emitting diodes using semiconductor nanocrystals. *Mikrochimica Acta*, **2007**, 159, 207-215	5.8	45
4	Bright White-Light-Emitting Device from Ternary Nanocrystal Composites. *Advanced Materials*, **2006**, 18, 2545-2548	24	189
3	Multifunctional platinum porphyrin dendrimers as emitters in undoped phosphorescent based light emitting devices. *Applied Physics Letters*, **2006**, 89, 061125	3.4	38
2	White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. *Journal of Applied Physics*, **2005**, 97, 113501	2.5	100
1	Dislocations in AIIIBVI single crystals. *Physica Status Solidi A*, **1988**, 105, 101-112		16