

Cristina Roldn-Carmona

List of Publications by Year in Descending Order

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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.

60
papers

5,562
citations

32
h-index

68
g-index

68
ext. papers

6,381
ext. citations

15
avg, IF

5.73
L-index

#	Paper	IF	Citations
60	Crystallographically Oriented Hybrid Perovskites via Thermal Vacuum Codeposition. <i>Solar Rrl</i> , 2021 , 5, 2100191	7.1	2
59	Cation optimization for burn-in loss-free perovskite solar devices. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5374-5380	13	2
58	D π -Type Triazatruxene-Based Dopant-Free Hole Transporting Materials for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000173	7.1	21
57	Azatruxene-Based, Dumbbell-Shaped, Donor-Bridge-Donor Hole-Transporting Materials for Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2020 , 26, 11039-11047	4.8	4
56	Benzothiadiazole Aryl-amine Based Materials as Efficient Hole Carriers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32712-32718	9.5	14
55	Co-evaporation as an optimal technique towards compact methylammonium bismuth iodide layers. <i>Scientific Reports</i> , 2020 , 10, 10640	4.9	10
54	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie</i> , 2020 , 132, 5341-5345	3.6	6
53	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5303-5307	16.4	14
52	Band-bending induced passivation: high performance and stable perovskite solar cells using a perhydropoly(silazane) precursor. <i>Energy and Environmental Science</i> , 2020 , 13, 1222-1230	35.4	72
51	Doped but Stable: Spirobisacridine Hole Transporting Materials for Hysteresis-Free and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1792-1800	16.4	29
50	Gradient band structure: high performance perovskite solar cells using poly(bisphenol A anhydride-co-1,3-phenylenediamine). <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17113-17119	13	11
49	Applications of Self-Assembled Monolayers for Perovskite Solar Cells Interface Engineering to Address Efficiency and Stability. <i>Advanced Energy Materials</i> , 2020 , 10, 2002989	21.8	34
48	Universal approach toward high-efficiency two-dimensional perovskite solar cells via a vertical-rotation process. <i>Energy and Environmental Science</i> , 2020 , 13, 3093-3101	35.4	46
47	An Efficient Approach to Fabricate Air-Stable Perovskite Solar Cells via Addition of a Self-Polymerizing Ionic Liquid. <i>Advanced Materials</i> , 2020 , 32, e2003801	24	37
46	Molecular Design and Operational Stability: Toward Stable 3D/2D Perovskite Interlayers. <i>Advanced Science</i> , 2020 , 7, 2001014	13.6	23
45	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5713-5720	6.4	29
44	Copper sulfide nanoparticles as hole-transporting-material in a fully-inorganic blocking layers n-i-p perovskite solar cells: Application and working insights. <i>Applied Surface Science</i> , 2019 , 478, 607-614	6.7	27

43	Inexpensive Hole-Transporting Materials Derived from Triarylamine Base Afford Efficient and Stable Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 11388	3.6	1
42	Inexpensive Hole-Transporting Materials Derived from Triarylamine Base Afford Efficient and Stable Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11266-11272	16.4	30
41	Retarding Thermal Degradation in Hybrid Perovskites by Ionic Liquid Additives. <i>Advanced Functional Materials</i> , 2019 , 29, 1902021	15.6	56
40	Air-Stable n-i-p Planar Perovskite Solar Cells Using Nickel Oxide Nanocrystals as Sole Hole-Transporting Material. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4890-4899	6.1	29
39	Application of a Tetra-TPD-Type Hole-Transporting Material Fused by a Triarylamine Base Core in Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900224	7.1	3
38	Introduction of a Bifunctional Cation Affords Perovskite Solar Cells Stable at Temperatures Exceeding 80 °C. <i>ACS Energy Letters</i> , 2019 , 4, 2989-2994	20.1	13
37	Metal-Halide Perovskites for Gate Dielectrics in Field-Effect Transistors and Photodetectors Enabled by PMMA Lift-Off Process. <i>Advanced Materials</i> , 2018 , 30, e1707412	24	30
36	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. <i>Joule</i> , 2018 , 2, 788-798	27.8	147
35	Picosecond Capture of Photoexcited Electrons Improves Photovoltaic Conversion in MAPbI ₃ :C-Doped Planar and Mesoporous Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1801496	24	13
34	Surface passivation of perovskite layers using heterocyclic halides: Improved photovoltaic properties and intrinsic stability. <i>Nano Energy</i> , 2018 , 50, 220-228	17.1	57
33	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 604-613	35.4	387
32	One-Year stable perovskite solar cells by 2D/3D interface engineering. <i>Nature Communications</i> , 2017 , 8, 15684	17.4	1253
31	Highly efficient perovskite solar cells with a compositionally engineered perovskite/hole transporting material interface. <i>Energy and Environmental Science</i> , 2017 , 10, 621-627	35.4	350
30	Molecularly Engineered Phthalocyanines as Hole-Transporting Materials in Perovskite Solar Cells Reaching Power Conversion Efficiency of 17.5%. <i>Advanced Energy Materials</i> , 2017 , 7, 1601733	21.8	79
29	Low-Cost TiS ₂ as Hole-Transport Material for Perovskite Solar Cells. <i>Small Methods</i> , 2017 , 1, 1700250	12.8	35
28	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. <i>Nature Energy</i> , 2017 , 2, 972-979	62.3	339
27	Copper Thiocyanate Inorganic Hole-Transporting Material for High-Efficiency Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 1112-1117	20.1	98
26	Benzotrithiophene-Based Hole-Transporting Materials for 18.2 % Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016 , 128, 6378-6382	3.6	44

25	Low-voltage, high-brightness and deep-red light-emitting electrochemical cells (LECs) based on new ruthenium(ii) phenanthroimidazole complexes. <i>Dalton Transactions</i> , 2016 , 45, 7195-9	4.3	26
24	Benzotrithiophene-Based Hole-Transporting Materials for 18.2 % Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6270-4	16.4	165
23	Enhanced TiO ₂ /MAPbI ₃ Electronic Coupling by Interface Modification with PbI ₂ . <i>Chemistry of Materials</i> , 2016 , 28, 3612-3615	9.6	54
22	Ruthenium phenanthroimidazole complexes for near infrared light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9674-9679	7.1	25
21	Tuning the Emission of Cationic Iridium (III) Complexes Towards the Red Through Methoxy Substitution of the Cyclometalating Ligand. <i>Scientific Reports</i> , 2015 , 5, 12325	4.9	62
20	A comparative study of Ir(III) complexes with pyrazino[2,3-f][1,10]phenanthroline and pyrazino[2,3-f][4,7]phenanthroline ligands in light-emitting electrochemical cells (LECs). <i>Dalton Transactions</i> , 2015 , 44, 14771-81	4.3	34
19	High efficiency methylammonium lead triiodide perovskite solar cells: the relevance of non-stoichiometric precursors. <i>Energy and Environmental Science</i> , 2015 , 8, 3550-3556	35.4	335
18	Efficient photovoltaic and electroluminescent perovskite devices. <i>Chemical Communications</i> , 2015 , 51, 569-71	5.8	103
17	Dynamically doped white light emitting tandem devices. <i>Advanced Materials</i> , 2014 , 26, 770-4	24	38
16	Flexible high efficiency perovskite solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 994	35.4	357
15	UV-Vis reflection spectroscopy under variable angle incidence at the air-liquid interface. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4012-22	3.6	5
14	Red emitting [Ir(C ^N) ₂ (N ^N) ₂] ⁺ complexes employing bidentate 2,2',6',6''-terpyridine ligands for light-emitting electrochemical cells. <i>Dalton Transactions</i> , 2014 , 43, 4653-67	4.3	37
13	Fluorine-free blue-green emitters for light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5793-5804	7.1	52
12	Engineering charge injection interfaces in hybrid light-emitting electrochemical cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19520-4	9.5	20
11	High efficiency single-junction semitransparent perovskite solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 2968-2973	35.4	237
10	Iridium(III) complexes with phenyl-tetrazoles as cyclometalating ligands. <i>Inorganic Chemistry</i> , 2014 , 53, 7709-21	5.1	57
9	Metal-Oxide-Free Methylammonium Lead Iodide Perovskite-Based Solar Cells: the Influence of Organic Charge Transport Layers. <i>Advanced Energy Materials</i> , 2014 , 4, 1400345	21.8	148
8	Light-emitting electrochemical cells: recent progress and future prospects. <i>Materials Today</i> , 2014 , 17, 217-223	21.8	211

- 7 Efficient methylammonium lead iodide perovskite solar cells with active layers from 300 to 900 nm. *APL Materials*, **2014**, 2, 081504 5.7 91
- 6 Pulsed-current versus constant-voltage light-emitting electrochemical cells with trifluoromethyl-substituted cationic iridium(III) complexes. *Journal of Materials Chemistry C*, **2013**, 1, 2241 7.1 58
- 5 Revisiting the Brewster Angle Microscopy: the relevance of the polar headgroup. *Advances in Colloid and Interface Science*, **2012**, 173, 12-22 14.3 35
- 4 Molecular organization and effective energy transfer in iridium metallosurfactant-porphyrin assemblies embedded in Langmuir-Schaefer films. *Physical Chemistry Chemical Physics*, **2011**, 13, 2834-43^{3.6} 21
- 3 Control of the Lateral Organization in Langmuir Monolayers via Molecular Aggregation of Dyes. *Journal of Physical Chemistry C*, **2010**, 114, 16685-16695 3.8 16
- 2 High-energy, efficient and transparent electrode for lithium batteries. *Journal of Materials Chemistry*, **2010**, 20, 2847 23
- 1 Interfacial passivation of wide-bandgap perovskite solar cells and tandem solar cells. *Journal of Materials Chemistry A*, 13 5