

Silvia Colella

List of Publications by Year in descending order

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73
papers

3,665
citations

172207

29
h-index

128067

60
g-index

74
all docs

74
docs citations

74
times ranked

6293
citing authors

#	ARTICLE	IF	CITATIONS
1	MAPbI _{3-x} Cl _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.	3.2	732
2	Stark Effect in Perovskite/TiO ₂ Solar Cells: Evidence of Local Interfacial Order. <i>Nano Letters</i> , 2014, 14, 2168-2174.	4.5	200
3	Elusive Presence of Chloride in Mixed Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3532-3538.	2.1	175
4	Optical determination of Shockley-Read-Hall and interface recombination currents in hybrid perovskites. <i>Scientific Reports</i> , 2017, 7, 44629.	1.6	175
5	Investigating charge dynamics in halide perovskite-sensitized mesostructured solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1889-1894.	15.6	151
6	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2- <i>b</i>][1]benzothiophene. <i>Advanced Materials</i> , 2016, 28, 7106-7114.	11.1	138
7	Molecular Tailoring of Phenothiazine-Based Hole-Transporting Materials for High-Performing Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1029-1034.	8.8	134
8	Forthcoming perspectives of photoelectrochromic devices: a critical review. <i>Energy and Environmental Science</i> , 2016, 9, 2682-2719.	15.6	122
9	Essential Role of the Ancillary Ligand in the Color Tuning of Iridium Tetrazolate Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 10509-10521.	1.9	119
10	The Bright Side of Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4322-4334.	2.1	115
11	Multiscale morphology design of hybrid halide perovskites through a polymeric template. <i>Nanoscale</i> , 2015, 7, 18956-18963.	2.8	80
12	Growing perovskite into polymers for easy-processable optoelectronic devices. <i>Scientific Reports</i> , 2015, 5, 7725.	1.6	78
13	Effect of Mesostructured Layer upon Crystalline Properties and Device Performance on Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1628-1637.	2.1	78
14	Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602600.	10.2	78
15	Cooperative Effect of GO and Glucose on PEDOT:PSS for High <i>V</i> _{OC} and Hysteresis-Free Solution-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 6985-6994.	7.8	61
16	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.	8.2	60
17	NiO/MAPbI _{3-x} Cl _x /PCBM: A Model Case for an Improved Understanding of Inverted Mesoscopic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4283-4289.	4.0	59
18	Sensitized near-infrared emission from ytterbium(III) via direct energy transfer from iridium(III) in a heterometallic neutral complex. <i>Dalton Transactions</i> , 2008, , 2385.	1.6	57

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19	Connecting the solution chemistry of PbI_2 and MAI: a cyclodextrin-based supramolecular approach to the formation of hybrid halide perovskites. <i>Chemical Science</i> , 2018, 9, 3200-3208.	3.7	55
20	Direct or Indirect Bandgap in Hybrid Lead Halide Perovskites?. <i>Advanced Optical Materials</i> , 2018, 6, 1701254.	3.6	54
21	Polariton-Induced Enhanced Emission from an Organic Dye under the Strong Coupling Regime. <i>Advanced Optical Materials</i> , 2014, 2, 1076-1081.	3.6	46
22	Nitrogen Soaking Promotes Lattice Recovery in Polycrystalline Hybrid Perovskites. <i>Advanced Energy Materials</i> , 2019, 9, 1803450.	10.2	46
23	Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. <i>Scientific Reports</i> , 2018, 8, 15496.	1.6	42
24	X-ray photoelectron spectroscopy of reduced graphene oxide prepared by a novel green method. <i>Vacuum</i> , 2015, 119, 159-162.	1.6	39
25	Covalently Functionalized SWCNTs as Tailored p-Type Dopants for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27966-27973.	4.0	38
26	GO/glucose/PEDOT:PSS ternary nanocomposites for flexible supercapacitors. <i>Composites Part B: Engineering</i> , 2018, 148, 149-155.	5.9	37
27	Texture of MAPbI_3 Layers Assisted by Chloride on Flat TiO_2 Substrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19808-19816.	1.5	36
28	Fully Vapor-Deposited Heterostructured Light-Emitting Diode Based on Organo-Metal Halide Perovskite. <i>Advanced Electronic Materials</i> , 2016, 2, 1500325.	2.6	35
29	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.	2.5	33
30	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.	5.2	31
31	Rheological Tunability of Perovskite Precursor Solutions: From Spin Coating to Inkjet Printing Process. <i>Nanomaterials</i> , 2019, 9, 582.	1.9	31
32	First disubstituted dibenzothiophene-5,5-dioxide monodispersed molecular materials for efficient blue-electroluminescence. <i>Journal of Materials Chemistry</i> , 2010, 20, 1012-1018.	6.7	29
33	Light-Induced Formation of Pb^{3+} Paramagnetic Species in Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2018, 3, 1840-1847.	8.8	28
34	Low band gap poly(1,4-arylene-2,5-thienylene)s with benzothiadiazole units: Synthesis, characterization and application in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3490-3503.	3.0	26
35	Rheological and physical characterization of PEDOT: PSS/graphene oxide nanocomposites for perovskite solar cells. <i>Polymer Engineering and Science</i> , 2017, 57, 546-552.	1.5	25
36	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.	5.2	25

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37	Engineering TiO ₂ /Perovskite Planar Heterojunction for Hysteresis-Free Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600493.	1.9	24
38	Optimizing the Interface between Hole Transporting Material and Nanocomposite for Highly Efficient Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1627.	1.9	23
39	One-step polymer assisted roll-to-roll gravure-printed perovskite solar cells without using anti-solvent bathing. <i>Cell Reports Physical Science</i> , 2021, 2, 100639.	2.8	23
40	Managing transparency through polymer/perovskite blending: A route toward thermostable and highly efficient, semi-transparent solar cells. <i>Nano Energy</i> , 2021, 89, 106406.	8.2	20
41	UV Reduced Graphene Oxide PEDOT:PSS Nanocomposite for Perovskite Solar Cells. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 725-730.	1.1	19
42	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.	2.5	19
43	Chemical insights into perovskite ink stability. <i>CheM</i> , 2022, 8, 31-45.	5.8	19
44	Thermally evaporated hybrid perovskite for hetero-structured green light-emitting diodes. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	18
45	Methylammonium-formamidinium reactivity in aged organometal halide perovskite inks. <i>Cell Reports Physical Science</i> , 2021, 2, 100432.	2.8	18
46	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.	1.3	16
47	High Mobility in Solution-Processed 2,7-Dialkyl[1]benzothieno[3,2-b][1]benzothiophene-Based Field-Effect Transistors Prepared with a Simplified Deposition Method. <i>ChemPlusChem</i> , 2014, 79, 371-374.	1.3	14
48	GO/PEDOT:PSS nanocomposites: effect of different dispersing agents on rheological, thermal, wettability and electrochemical properties. <i>Nanotechnology</i> , 2017, 28, 174001.	1.3	14
49	Monodispersed molecular donors for bulk hetero-junction solar cells: from molecular properties to device performances. <i>Chemical Communications</i> , 2010, 46, 6273.	2.2	13
50	Spray coating fabrication of organic solar cells bypassing the limit of orthogonal solvents. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	13
51	Implication of polymeric template agent on the formation process of hybrid halide perovskite films. <i>Nanotechnology</i> , 2021, 32, 265707.	1.3	13
52	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.	1.3	12
53	Simple Processing Additive-Driven 20% Efficiency for Inverted Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18431-18436.	4.0	12
54	Nanopatterning the graphite surface with ordered macrocyclic or ribbon-like assemblies of isocytosine derivatives: an STM study. <i>CrystEngComm</i> , 2011, 13, 5535.	1.3	11

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55	Aryl 5-substitution of a phenyl-pyridine based ligand as a viable way to influence the opto-electronic properties of bis-cyclometalated Ir(III) heteroleptic complexes. Dalton Transactions, 2013, 42, 8939.	1.6	11
56	Robust, High-Performing Maize-Perovskite-Based Solar Cells with Improved Stability. ACS Applied Energy Materials, 2021, 4, 11194-11203.	2.5	11
57	Molecular Doping for Hole Transporting Materials in Hybrid Perovskite Solar Cells. Metals, 2020, 10, 14.	1.0	9
58	Synthesis of Reduced Graphite Oxide by a Novel Green Process Based on UV Light Irradiation. Science of Advanced Materials, 2015, 7, 2445-2451.	0.1	9
59	Synthesis, characterization and photovoltaic properties of random poly(arylene-vinylene)s containing benzothiadiazole. Polymer, 2011, 52, 2740-2746.	1.8	8
60	The Effect of Extended Ball-Milling upon Three-Dimensional and Two-Dimensional Perovskite Crystals Properties. Applied Sciences (Switzerland), 2020, 10, 4775.	1.3	8
61	Titanium Dioxide Mesoporous Electrodes for Solid-State Dye-Sensitized Solar Cells: Cross-Analysis of the Critical Parameters. Advanced Energy Materials, 2014, 4, 1301362.	10.2	7
62	Inclusion of 2D Transition Metal Dichalcogenides in Perovskite Inks and Their Influence on Solar Cell Performance. Nanomaterials, 2021, 11, 1706.	1.9	7
63	Selective self-assembly and light emission tuning of layered hybrid perovskites on patterned graphene. Nanoscale, 2018, 10, 3198-3211.	2.8	6
64	Electronic transport, ionic activation energy and trapping phenomena in a polymer-hybrid halide perovskite composite. Journal of Science: Advanced Materials and Devices, 2021, 6, 543-550.	1.5	6
65	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.	0.8	5
66	MAPbI _{3-x} Cl _x 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.	0.1	4
67	Investigating Charge Dynamics in Halide Perovskite Sensitized Mesostructured Solar Cells. Materials Research Society Symposia Proceedings, 2014, 1667, 7.	0.1	2
68	Quantum Nature of Light in Nonstoichiometric Bulk Perovskites. ACS Nano, 2019, 13, 10711-10716.	7.3	2
69	Plasma-Deposited Fluorocarbon Coatings on Methylammonium Lead Iodide Perovskite Films. Energies, 2022, 15, 4512.	1.6	1
70	Isothermal Titration Calorimetry Study of a Bistable Supramolecular System: Reversible Complexation of Cryptand[2.2.2] with Potassium Ions. ChemPhysChem, 2014, 15, 2743-2748.	1.0	0
71	Polymer Nanocomposites based on in situ reduced graphene oxide for photovoltaic applications in innovative hybrid solar cells. , 2015, , .		0
72	PEDOT:PSS/GO nanocomposites: Determination of the aspect ratio by indirect measurements. AIP Conference Proceedings, 2016, , .	0.3	0

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73	Charge Carrier Mobility: Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2-b][1]benzothiophene (Adv.) Tj ETQq1 1 0.784314 rgBT /Over		