

# Vladimir Bulovic

## 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.

135  
papers

19,289  
citations

59  
h-index

138  
g-index

148  
ext. papers

21,879  
ext. citations

15.3  
avg, IF

7.02  
L-index

#	Paper	IF	Citations
135	Predicting Low Toxicity and Scalable Solvent Systems for High-Speed Roll-to-Roll Perovskite Manufacturing. <i>Solar Rrl</i> , <b>2022</b> , 6, 2270034	7.1	
134	Impact of Photon Recycling, Grain Boundaries, and Nonlinear Recombination on Energy Transport in Semiconductors. <i>ACS Photonics</i> , <b>2022</b> , 9, 110-122	6.3	1
133	An Ultra-Thin Flexible Loudspeaker Based on a Piezoelectric Micro-Dome Array. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	
132	Voltage-controlled reversible modulation of colloidal quantum dot thin film photoluminescence. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 211104	3.4	2
131	Monolayer Hexagonal Boron Nitride: An Efficient Electron Blocking Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101238	15.6	0
130	Morphology control of perovskite films: a two-step, all solution process for conversion of lead selenide into methylammonium lead iodide. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1410-1417	7.8	4
129	Silver Nanowire Back Electrode Stabilized with Graphene Oxide Encapsulation for Inverted Semitransparent Organic Solar Cells with Longer Lifetime. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1431-1441	6.1	12
128	Nanocrystal-Sensitized Infrared-to-Visible Upconversion in a Microcavity under Subsolar Flux. <i>Nano Letters</i> , <b>2021</b> , 21, 1011-1016	11.5	10
127	Hybrid Approach to Fabricate Uniform and Active Molecular Junctions. <i>Nano Letters</i> , <b>2021</b> , 21, 1606-1612	11.5	2
126	Efficient perovskite solar cells via improved carrier management. <i>Nature</i> , <b>2021</b> , 590, 587-593	50.4	809
125	All-vacuum-deposited inorganic cesium lead halide perovskite light-emitting diodes. <i>APL Materials</i> , <b>2020</b> , 8, 051113	5.7	22
124	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , <b>2020</b> , 5, 35-49	62.3	369
123	Maximizing the external radiative efficiency of hybrid perovskite solar cells. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 697-706	2.1	4
122	Charge-Carrier Recombination in Halide Perovskites. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11007-11019	68.1	113
121	Lattice strain causes non-radiative losses in halide perovskites. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 596-606	35.4	211
120	An interface stabilized perovskite solar cell with high stabilized efficiency and low voltage loss. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2192-2199	35.4	353
119	M13 Virus-Based Framework for High Fluorescence Enhancement. <i>Small</i> , <b>2019</b> , 15, e1901233	11	13

118	Triplet-Sensitization by Lead Halide Perovskite Thin Films for Near-Infrared-to-Visible Upconversion. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 888-895	20.1	83
117	Micron-Scale Patterning of High Quantum Yield Quantum Dot LEDs. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800727	6.8	22
116	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803587	21.8	174
115	High-Speed Vapor Transport Deposition of Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32928-32936	9.5	13
114	Decreased Synthesis Costs and Waste Product Toxicity for Lead Sulfide Quantum Dot Ink Photovoltaics. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900061	5.9	8
113	Benefit from Photon Recycling at the Maximum-Power Point of State-of-the-Art Perovskite Solar Cells. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	30
112	Terahertz-Driven Stark Spectroscopy of CdSe and CdSe-CdS Core-Shell Quantum Dots. <i>Nano Letters</i> , <b>2019</b> , 19, 8125-8131	11.5	4
111	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25511-25520	13	19
110	The Impact of Atmosphere on the Local Luminescence Properties of Metal Halide Perovskite Grains. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706208	24	116
109	Graphene/Perovskite Schottky Barrier Solar Cells. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1700106	5.9	11
108	Stable Light-Emitting Diodes Using Phase-Pure Ruddlesden-Popper Layered Perovskites. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704217	24	210
107	Luminescence of III-IV-V thin film alloys grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 175101	2.5	2
106	Synthesis cost dictates the commercial viability of lead sulfide and perovskite quantum dot photovoltaics. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2295-2305	35.4	75
105	Probing buried recombination pathways in perovskite structures using 3D photoluminescence tomography. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2846-2852	35.4	32
104	An ingestible bacterial-electronic system to monitor gastrointestinal health. <i>Science</i> , <b>2018</b> , 360, 915-918	33.3	232
103	Interfacial Effects of Tin Oxide Atomic Layer Deposition in Metal Halide Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800591	21.8	44
102	Impact of microstructure on the electron-hole interaction in lead halide perovskites. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1358-1366	35.4	31
101	Tailoring metal halide perovskites through metal substitution: influence on photovoltaic and material properties. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 236-246	35.4	185

100	Photoluminescent Arrays of Nanopatterned Monolayer MoS <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703688	15.6	28
99	Metal Halide Perovskite Polycrystalline Films Exhibiting Properties of Single Crystals. <i>Joule</i> , <b>2017</b> , 1, 1552168	21.67	222
98	Speed Limit for Triplet-Exciton Transfer in Solid-State PbS Nanocrystal-Sensitized Photon Upconversion. <i>ACS Nano</i> , <b>2017</b> , 11, 7848-7857	16.7	97
97	Terahertz-Driven Luminescence and Colossal Stark Effect in CdSe-CdS Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2017</b> , 17, 5375-5380	11.5	28
96	Direct-indirect character of the bandgap in methylammonium lead iodide perovskite. <i>Nature Materials</i> , <b>2017</b> , 16, 115-120	27	298
95	Plexciton Dirac points and topological modes. <i>Nature Communications</i> , <b>2016</b> , 7, 11783	17.4	52
94	The Impact of Phase Retention on the Structural and Optoelectronic Properties of Metal Halide Perovskites. <i>Advanced Materials</i> , <b>2016</b> , 28, 10757-10763	24	52
93	Photo-induced halide redistribution in organic-inorganic perovskite films. <i>Nature Communications</i> , <b>2016</b> , 7, 11683	17.4	621
92	In situ vapor-deposited parylene substrates for ultra-thin, lightweight organic solar cells. <i>Organic Electronics</i> , <b>2016</b> , 31, 120-126	3.5	45
91	V OC enhancement in polymer solar cells with isobenzofulvene-60 adducts. <i>Organic Electronics</i> , <b>2016</b> , 31, 48-55	3.5	8
90	Photovoltaic Performance of PbS Quantum Dots Treated with Metal Salts. <i>ACS Nano</i> , <b>2016</b> , 10, 3382-8	16.7	70
89	Oxidative Chemical Vapor Deposition of Neutral Hole Transporting Polymer for Enhanced Solar Cell Efficiency and Lifetime. <i>Advanced Materials</i> , <b>2016</b> , 28, 6399-404	24	19
88	Sub-50 mV NEM relay operation enabled by self-assembled molecular coating <b>2016</b> ,		18
87	All vapor-deposited lead-free doped CsSnBr <sub>3</sub> planar solar cells. <i>Nano Energy</i> , <b>2016</b> , 28, 469-474	17.1	108
86	Spin-dependent charge transfer state design rules in organic photovoltaics. <i>Nature Communications</i> , <b>2015</b> , 6, 6415	17.4	76
85	Open-circuit voltage deficit, radiative sub-bandgap states, and prospects in quantum dot solar cells. <i>Nano Letters</i> , <b>2015</b> , 15, 3286-94	11.5	193
84	Solid-State Solvation and Enhanced Exciton Diffusion in Doped Organic Thin Films under Mechanical Pressure. <i>ACS Nano</i> , <b>2015</b> , 9, 4412-8	16.7	7
83	The Role of Electron-Hole Separation in Thermally Activated Delayed Fluorescence in Donor-Acceptor Blends. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25591-25597	3.8	40

82	Tunneling Nanoelectromechanical Switches Based on Compressible Molecular Thin Films. <i>ACS Nano</i> , <b>2015</b> , 9, 7886-94	16.7	12
81	Pathways for solar photovoltaics. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1200-1219	35.4	293
80	p-i-n Heterojunction solar cells with a colloidal quantum-dot absorber layer. <i>Advanced Materials</i> , <b>2014</b> , 26, 4845-50	24	64
79	Improved performance and stability in quantum dot solar cells through band alignment engineering. <i>Nature Materials</i> , <b>2014</b> , 13, 796-801	27	1282
78	Electrically tunable organic vertical-cavity surface-emitting laser. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 073303	3.4	6
77	ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells (Adv. Mater. 20/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 2789-2789	24	2
76	Cyclobutadiene $\pi$ 60 Adducts: N-Type Materials for Organic Photovoltaic Cells with High VOC. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3061-3069	15.6	32
75	Graphene cathode-based ZnO nanowire hybrid solar cells. <i>Nano Letters</i> , <b>2013</b> , 13, 233-9	11.5	179
74	Emergence of colloidal quantum-dot light-emitting technologies. <i>Nature Photonics</i> , <b>2013</b> , 7, 13-23	33.9	1760
73	Origin of efficiency roll-off in colloidal quantum-dot light-emitting diodes. <i>Physical Review Letters</i> , <b>2013</b> , 110, 217403	7.4	124
72	Electrophoretic deposition of CdSe/ZnS quantum dots for light-emitting devices. <i>Advanced Materials</i> , <b>2013</b> , 25, 1420-3	24	72
71	Low-temperature solution-processed solar cells based on PbS colloidal quantum dot/CdS heterojunctions. <i>Nano Letters</i> , <b>2013</b> , 13, 994-9	11.5	118
70	Effect of synthetic accessibility on the commercial viability of organic photovoltaics. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 711	35.4	237
69	ZnO nanowire arrays for enhanced photocurrent in PbS quantum dot solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 2790-6	24	226
68	Coarsening and solidification via solvent-annealing in thin liquid films. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 723, 69-90	3.7	1
67	High-efficiency quantum-dot light-emitting devices with enhanced charge injection. <i>Nature Photonics</i> , <b>2013</b> , 7, 407-412	33.9	860
66	The application of oxidative chemical vapor deposited (oCVD) PEDOT to textured and non-planar photovoltaic device geometries for enhanced light trapping. <i>Organic Electronics</i> , <b>2013</b> , 14, 2257-2268	3.5	25
65	Lasing through a strongly-coupled mode by intra-cavity pumping. <i>Optics Express</i> , <b>2013</b> , 21, 12122-8	3.3	26

64	QLEDs for displays and solid-state lighting. <i>MRS Bulletin</i> , <b>2013</b> , 38, 703-711	3.2	154
63	Bilayer heterojunction polymer solar cells using unsubstituted polythiophene via oxidative chemical vapor deposition. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 99, 190-196	6.4	49
62	Cathode buffer layers based on vacuum and solution deposited poly(3,4-ethylenedioxythiophene) for efficient inverted organic solar cells. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 183301	3.4	24
61	Near-infrared photodetector consisting of J-aggregating cyanine dye and metal oxide thin films. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 113303	3.4	32
60	Improving the performance of P3HT-fullerene solar cells with side-chain-functionalized poly(thiophene) additives: a new paradigm for polymer design. <i>ACS Nano</i> , <b>2012</b> , 6, 3044-56	16.7	115
59	Study of field driven electroluminescence in colloidal quantum dot solids. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113701	2.5	30
58	Micron-Scale Molecular Organic Microcavity Arrays Patterned With Thin-Film Contact-Patterning. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 104-106	2.2	2
57	Multijunction organic photovoltaics with a broad spectral response. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 14548-53	3.6	14
56	Triplet exciton dissociation in singlet exciton fission photovoltaics. <i>Advanced Materials</i> , <b>2012</b> , 24, 6169-74	4	100
55	Contact printing of colloidal nanocrystal thin films for hybrid organic/quantum dot optoelectronic devices. <i>Nano Reviews</i> , <b>2012</b> , 3,		13
54	Twenty-fold enhancement of molecular fluorescence by coupling to a J-aggregate critically coupled resonator. <i>ACS Nano</i> , <b>2012</b> , 6, 467-71	16.7	26
53	Organic solar cells with graphene electrodes and vapor printed poly(3,4-ethylenedioxythiophene) as the hole transporting layers. <i>ACS Nano</i> , <b>2012</b> , 6, 6370-7	16.7	69
52	Top-illuminated Organic Photovoltaics on a Variety of Opaque Substrates with Vapor-printed Poly(3,4-ethylenedioxythiophene) Top Electrodes and MoO <sub>3</sub> Buffer Layer. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1404-1409	21.8	34
51	Transparent, near-infrared organic photovoltaic solar cells for window and energy-scavenging applications. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 113305	3.4	230
50	Photo-assisted water oxidation with cobalt-based catalyst formed from thin-film cobalt metal on silicon photoanodes. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2058	35.4	103
49	Electroluminescence from nanoscale materials via field-driven ionization. <i>Nano Letters</i> , <b>2011</b> , 11, 2927-32	11.5	42
48	Improved current extraction from ZnO/PbS quantum dot heterojunction photovoltaics using a MoO <sub>3</sub> interfacial layer. <i>Nano Letters</i> , <b>2011</b> , 11, 2955-61	11.5	237
47	Morphology of contact printed colloidal quantum dots in organic semiconductor films: Implications for QD-LEDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 120-123		1

46	Direct monolithic integration of organic photovoltaic circuits on unmodified paper. <i>Advanced Materials</i> , <b>2011</b> , 23, 3499-3505	24	221
45	Practical roadmap and limits to nanostructured photovoltaics. <i>Advanced Materials</i> , <b>2011</b> , 23, 5712-27	24	150
44	Paper Electronics: Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper (Adv. Mater. 31/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 3499-3499	24	34
43	Performance Comparison of Different Organic Molecular Floating-Gate Memories. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 594-599	2.6	23
42	Intracavity optical pumping of J-aggregate microcavity exciton polaritons. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	20
41	Colloidal quantum dot light-emitting devices. <i>Nano Reviews</i> , <b>2010</b> , 1,		297
40	Quantum dot/J-aggregate blended films for light harvesting and energy transfer. <i>Nano Letters</i> , <b>2010</b> , 10, 3995-9	11.5	68
39	Nanoscale morphology revealed at the interface between colloidal quantum dots and organic semiconductor films. <i>Nano Letters</i> , <b>2010</b> , 10, 2421-6	11.5	23
38	Tunable Infrared Emission From Printed Colloidal Quantum Dot/Polymer Composite Films on Flexible Substrates. <i>Journal of Display Technology</i> , <b>2010</b> , 6, 90-93		22
37	Air-stable operation of transparent, colloidal quantum dot based LEDs with a unipolar device architecture. <i>Nano Letters</i> , <b>2010</b> , 10, 24-9	11.5	133
36	Colloidal PbS quantum dot solar cells with high fill factor. <i>ACS Nano</i> , <b>2010</b> , 4, 3743-52	16.7	385
35	Direct formation of a water oxidation catalyst from thin-film cobalt. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1726	35.4	55
34	Contact-printed microelectromechanical systems. <i>Advanced Materials</i> , <b>2010</b> , 22, 1840-4	24	25
33	Interfacial recombination for fast operation of a planar organic/QD infrared photodetector. <i>Advanced Materials</i> , <b>2010</b> , 22, 5250-4	24	54
32	Inkjet-Printed Quantum Dot/Polymer Composites for Full-Color AC-Driven Displays. <i>Advanced Materials</i> , <b>2009</b> , 21, 2151-2155	24	319
31	Quantum Dot/Polymer Composites for Displays: Inkjet-Printed Quantum Dot/Polymer Composites for Full-Color AC-Driven Displays (Adv. Mater. 21/2009). <i>Advanced Materials</i> , <b>2009</b> , 21, NA-NA	24	2
30	Heterojunction photovoltaics using printed colloidal quantum dots as a photosensitive layer. <i>Nano Letters</i> , <b>2009</b> , 9, 860-3	11.5	66
29	Photoluminescence quenching of tris-(8-hydroxyquinoline) aluminum thin films at interfaces with metal oxide films of different conductivities. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	30



28	Quantum dot light-emitting devices with electroluminescence tunable over the entire visible spectrum. <i>Nano Letters</i> , <b>2009</b> , 9, 2532-6	11.5	713
27	Synthesis of J-aggregating dibenz[a,j]anthracene-based macrocycles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5659-66	16.4	67
26	Lateral heterojunction photodetector consisting of molecular organic and colloidal quantum dot thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 043307	3.4	29
25	An Organic Active-Matrix Imager. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 527-532	2.9	49
24	Contact printing of quantum dot light-emitting devices. <i>Nano Letters</i> , <b>2008</b> , 8, 4513-7	11.5	245
23	Using Integrated Optical Feedback to Counter Pixel Aging and Stabilize Light Output of Organic LED Display Technology. <i>Journal of Display Technology</i> , <b>2008</b> , 4, 308-313		2
22	Predicting the linear optical response of J-aggregate microcavity exciton-polariton devices. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	7
21	Planarization in Electrochemically Fabricated Nanodimensional Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 7318-7325	3.8	
20	Lateral organic bilayer heterojunction photoconductors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 063305	3.4	18
19	Bias-induced photoluminescence quenching of single colloidal quantum dots embedded in organic semiconductors. <i>Nano Letters</i> , <b>2007</b> , 7, 3781-6	11.5	55
18	Solid state cavity QED: Strong coupling in organic thin films. <i>Organic Electronics</i> , <b>2007</b> , 8, 94-113	3.5	94
17	Micropatterning metal electrode of organic light emitting devices using rapid polydimethylsiloxane lift-off. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 043102	3.4	30
16	Electroluminescence from a mixed red-green-blue colloidal quantum dot monolayer. <i>Nano Letters</i> , <b>2007</b> , 7, 2196-200	11.5	367
15	Color-saturated green-emitting QD-LEDs. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 5796-9	16.4	233
14	Color-Saturated Green-Emitting QD-LEDs. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 5928-5931	3.6	16
13	NiO as an inorganic hole-transporting layer in quantum-dot light-emitting devices. <i>Nano Letters</i> , <b>2006</b> , 6, 2991-4	11.5	204
12	35.1: Invited Paper: Quantum Dot Light Emitting Devices for Pixelated Full Color Displays. <i>Digest of Technical Papers SID International Symposium</i> , <b>2006</b> , 37, 1368	0.5	1
11	Strong coupling in a microcavity LED. <i>Physical Review Letters</i> , <b>2005</b> , 95, 036401	7.4	187



10	Photodetectors based on treated CdSe quantum-dot films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 213505	3.4	210
9	Method for fabrication of saturated RGB quantum dot light-emitting devices <b>2005</b> ,		13
8	Forming oriented organic crystals from amorphous thin films on patterned substrates via solvent-vapor annealing. <i>Organic Electronics</i> , <b>2005</b> , 6, 211-220	3.5	51
7	Large-Area Ordered Quantum-Dot Monolayers via Phase Separation During Spin-Casting. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1117-1124	15.6	232
6	Blue luminescence from (CdS)ZnS core-shell nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2154-8	16.4	355
5	Tuning the performance of hybrid organic/inorganic quantum dot light-emitting devices. <i>Organic Electronics</i> , <b>2003</b> , 4, 123-130	3.5	197
4	Electroluminescence from single monolayers of nanocrystals in molecular organic devices. <i>Nature</i> , <b>2002</b> , 420, 800-3	50.4	2182
3	Polymer-on-Polymer Stamping on Micro- and Nano-Scales. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 736, 1		1
2	Colloidal quantum dot light emitting devices 148-172		4
1	Predicting Low Toxicity and Scalable Solvent Systems for High-Speed Roll-to-Roll Perovskite Manufacturing. <i>Solar Rrl</i> , 2100567	7.1	4