

Michele Sessolo

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130
papers

8,273
citations

48
h-index

89
g-index

135
ext. papers

9,410
ext. citations

10.7
avg, IF

6.3
L-index

#	Paper	IF	Citations
130	Recombination in Perovskite Solar Cells: Significance of Grain Boundaries, Interface Traps, and Defect Ions. <i>ACS Energy Letters</i> , 2017 , 2, 1214-1222	20.1	577
129	High transconductance organic electrochemical transistors. <i>Nature Communications</i> , 2013 , 4, 2133	17.4	464
128	Structural control of mixed ionic and electronic transport in conducting polymers. <i>Nature Communications</i> , 2016 , 7, 11287	17.4	452
127	High-performance transistors for bioelectronics through tuning of channel thickness. <i>Science Advances</i> , 2015 , 1, e1400251	14.3	359
126	Efficient vacuum deposited p-i-n and n-i-p perovskite solar cells employing doped charge transport layers. <i>Energy and Environmental Science</i> , 2016 , 9, 3456-3463	35.4	328
125	Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 366-375	6.4	283
124	Controlling the mode of operation of organic transistors through side-chain engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12017-12022	11.5	251
123	Hybrid organic-inorganic light-emitting diodes. <i>Advanced Materials</i> , 2011 , 23, 1829-45	24	232
122	Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602128	12.8	205
121	Vapor-Deposited Perovskites: The Route to High-Performance Solar Cell Production?. <i>Joule</i> , 2017 , 1, 431-442	27.8	205
120	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10252-9	16.4	189
119	Long-Living Light-Emitting Electrochemical Cells Control through Supramolecular Interactions. <i>Advanced Materials</i> , 2008 , 20, 3910-3913	24	175
118	Easy-to-fabricate conducting polymer microelectrode arrays. <i>Advanced Materials</i> , 2013 , 25, 2135-9	24	166
117	Efficient Polymer Light-Emitting Diode Using Air-Stable Metal Oxides as Electrodes. <i>Advanced Materials</i> , 2009 , 21, 79-82	24	162
116	Organic electrochemical transistors with maximum transconductance at zero gate bias. <i>Advanced Materials</i> , 2013 , 25, 7010-4	24	155
115	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. <i>Advanced Functional Materials</i> , 2008 , 18, 145-150	15.6	151
114	Air stable hybrid organic-inorganic light emitting diodes using ZnO as the cathode. <i>Applied Physics Letters</i> , 2007 , 91, 223501	3.4	142

113	Influence of device geometry on sensor characteristics of planar organic electrochemical transistors. <i>Advanced Materials</i> , 2010 , 22, 1012-6	24	130
112	Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fill-Factor Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 9839-9845	24	127
111	Vacuum Deposited Triple-Cation Mixed-Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703506	21.8	115
110	Structure-Luminescence Correlations in Europium-Doped Sol-Gel ZnO Nanopowders. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4049-4054	3.8	111
109	Delayed Luminescence in Lead Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13381-13390	3.8	109
108	Band unpinning and photovoltaic model for P3HT:PCBM organic bulk heterojunctions under illumination. <i>Chemical Physics Letters</i> , 2008 , 465, 57-62	2.5	105
107	Efficient photovoltaic and electroluminescent perovskite devices. <i>Chemical Communications</i> , 2015 , 51, 569-71	5.8	103
106	Ion-selective organic electrochemical transistors. <i>Advanced Materials</i> , 2014 , 26, 4803-7	24	103
105	Removing Leakage and Surface Recombination in Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 424-430	20.1	90
104	White-light phosphorescence emission from a single molecule: application to OLED. <i>Chemical Communications</i> , 2009 , 4672-4	5.8	85
103	Mixed Iodide-Bromide Methylammonium Lead Perovskite-based Diodes for Light Emission and Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3743-8	6.4	83
102	Perovskite solar cells prepared by flash evaporation. <i>Chemical Communications</i> , 2015 , 51, 7376-8	5.8	81
101	Highly phosphorescent perfect green emitting iridium(III) complex for application in OLEDs. <i>Chemical Communications</i> , 2007 , 3276-8	5.8	80
100	Interfacial Modification for High-Efficiency Vapor-Phase-Deposited Perovskite Solar Cells Based on a Metal Oxide Buffer Layer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1041-1046	6.4	76
99	Origin of the Enhanced Photoluminescence Quantum Yield in MAPbBr ₃ Perovskite with Reduced Crystal Size. <i>ACS Energy Letters</i> , 2018 , 3, 1458-1466	20.1	75
98	High voltage vacuum-deposited CH ₃ NH ₃ PbI ₃ /CH ₃ NH ₃ PbI ₃ tandem solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3292-3297	35.4	74
97	[Cu(bpy)(P ⁺ P)] ⁺ containing light-emitting electrochemical cells: improving performance through simple substitution. <i>Dalton Transactions</i> , 2014 , 43, 16593-6	4.3	72
96	Quantification of spatial inhomogeneity in perovskite solar cells by hyperspectral luminescence imaging. <i>Energy and Environmental Science</i> , 2016 , 9, 2286-2294	35.4	70

95	Lead acetate precursor based p-i-n perovskite solar cells with enhanced reproducibility and low hysteresis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14121-14125	13	67
94	Fully Vacuum-Processed Wide Band Gap Mixed-Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 214-219	20.1	66
93	Hybrid organic-inorganic light emitting diodes: effect of the metal oxide. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4047		61
92	Solvent-Free Synthesis and Thin-Film Deposition of Cesium Copper Halides with Bright Blue Photoluminescence. <i>Chemistry of Materials</i> , 2019 , 31, 10205-10210	9.6	57
91	Origin of the Chemiresistive Response of Ultrathin Films of Conductive Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15086-15090	16.4	57
90	Highly luminescent perovskite/aluminum oxide composites. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11286-11289	7.1	54
89	Solar cells. Perovskite solar cells join the major league. <i>Science</i> , 2015 , 350, 917	33.3	54
88	Perovskite-Perovskite Homojunctions via Compositional Doping. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2770-2775	6.4	54
87	A facile biofunctionalisation route for solution processable conducting polymer devices. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2537-2545	7.3	54
86	White Hybrid Organic/Inorganic Light-Emitting Diode Using ZnO as the Air-Stable Cathode. <i>Chemistry of Materials</i> , 2009 , 21, 439-441	9.6	52
85	Phosphorescent hybrid organic-inorganic light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 2198-201	24	52
84	Single-Source Vacuum Deposition of Mechanosynthesized Inorganic Halide Perovskites. <i>Chemistry of Materials</i> , 2018 , 30, 7423-7427	9.6	49
83	Vacuum deposited perovskite solar cells employing dopant-free triazatruxene as the hole transport material. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 237-241	6.4	48
82	Luminescent copper(i) complexes with bisphosphane and halogen-substituted 2,2'-bipyridine ligands. <i>Dalton Transactions</i> , 2018 , 47, 14263-14276	4.3	45
81	[Cu(P [^] P)(N [^] N)][PF ₆] compounds with bis(phosphane) and 6-alkoxy, 6-alkylthio, 6-phenyloxy and 6-phenylthio-substituted 2,2'-bipyridine ligands for light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8460-8471	7.1	44
80	Photovoltaic devices employing vacuum-deposited perovskite layers. <i>MRS Bulletin</i> , 2015 , 40, 660-666	3.2	44
79	Consistent Device Simulation Model Describing Perovskite Solar Cells in Steady-State, Transient, and Frequency Domain. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23320-23328	9.5	40
78	Photoluminescence quantum yield exceeding 80% in low dimensional perovskite thin-films via passivation control. <i>Chemical Communications</i> , 2017 , 53, 8707-8710	5.8	40

77	Fullerene imposed high open-circuit voltage in efficient perovskite based solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3667-3672	13	38
76	Vacuum-Deposited 2D/3D Perovskite Heterojunctions. <i>ACS Energy Letters</i> , 2019 , 4, 2893-2901	20.1	38
75	Ionically Assisted Charge Injection in Hybrid Organic-Inorganic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2694-2698	9.5	38
74	Ionic iridium complex and conjugated polymer used to solution-process a bilayer white light-emitting diode. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 630-4	9.5	36
73	Influence of hole transport material ionization energy on the performance of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 523-527	7.1	33
72	Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. <i>ACS Energy Letters</i> , 2021 , 6, 827-836	20.1	33
71	Molecular Passivation of MoO ₃ : Band Alignment and Protection of Charge Transport Layers in Vacuum-Deposited Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6945-6949	9.6	32
70	Efficient Vacuum-Deposited Perovskite Solar Cells with Stable Cubic FA _{1-x} MA _x PbI ₃ . <i>ACS Energy Letters</i> , 2020 , 5, 3053-3061	20.1	32
69	Bright and stable light-emitting electrochemical cells based on an intramolecularly stacked, 2-naphthyl-substituted iridium complex. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7047-7055	7.1	31
68	Room-Temperature Cubic Phase Crystallization and High Stability of Vacuum-Deposited Methylammonium Lead Triiodide Thin Films for High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1902692	24	30
67	Phosphane tuning in heteroleptic [Cu(N [^] N)(P [^] P)] complexes for light-emitting electrochemical cells. <i>Dalton Transactions</i> , 2019 , 48, 446-460	4.3	29
66	Lithium salt additives and the influence of their counterion on the performances of light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10781-10785	7.1	28
65	A physical interpretation of impedance at conducting polymer/electrolyte junctions. <i>AIP Advances</i> , 2014 , 4, 017127	1.5	28
64	Low-dimensional non-toxic A ₃ Bi ₂ X ₉ compounds synthesized by a dry mechanochemical route with tunable visible photoluminescence at room temperature. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6236-6240	7.1	27
63	Efficient Light-Emitting Electrochemical Cells Using Small Molecular Weight, Ionic, Host-Guest Systems. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R3160-R3163	2	24
62	Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 835-839	20.1	21
61	Short Photoluminescence Lifetimes in Vacuum-Deposited CH ₃ NH ₃ PbI ₃ Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5167-5172	6.4	21
60	Efficient Photo- and Electroluminescence by Trap States Passivation in Vacuum-Deposited Hybrid Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36187-36193	9.5	21

59	Engineering charge injection interfaces in hybrid light-emitting electrochemical cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19520-4	9.5	20
58	Deposition Kinetics and Compositional Control of Vacuum-Processed CHNHPbI Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6852-6859	6.4	20
57	Mechanochemical Synthesis of Sn(II) and Sn(IV) Iodide Perovskites and Study of Their Structural, Chemical, Thermal, Optical, and Electrical Properties. <i>Energy Technology</i> , 2020 , 8, 1900788	3.5	20
56	Efficient wide band gap double cation double halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3203-3207	13	19
55	Incorporation of potassium halides in the mechanosynthesis of inorganic perovskites: feasibility and limitations of ion-replacement and trap passivation.. <i>RSC Advances</i> , 2018 , 8, 41548-41551	3.7	19
54	Interface engineering in efficient vacuum deposited perovskite solar cells. <i>Organic Electronics</i> , 2016 , 37, 396-401	3.5	18
53	Reinforced Room-Temperature Spin Filtering in Chiral Paramagnetic Metallopeptides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17572-17580	16.4	18
52	Highly photoluminescent, dense solid films from organic-capped CH ₃ NH ₃ PbBr ₃ perovskite colloids. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6771-6777	7.1	18
51	Charge Noise in Organic Electrochemical Transistors. <i>Physical Review Applied</i> , 2017 , 7,	4.3	17
50	Perovskite Luminescent Materials. <i>Topics in Current Chemistry</i> , 2016 , 374, 52	7.2	17
49	Flexible light-emitting electrochemical cells with single-walled carbon nanotube anodes. <i>Organic Electronics</i> , 2016 , 30, 36-39	3.5	17
48	Room-Temperature Vacuum Deposition of CsPbI ₂ Br Perovskite Films from Multiple Sources and Mixed Halide Precursors. <i>Chemistry of Materials</i> , 2020 , 32, 8641-8652	9.6	17
47	A new cross-linkable 9,10-diphenylanthracene derivative as a wide bandgap host for solution-processed organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12948-12954	7.1	17
46	Colloids of Naked CHNHPbBr Perovskite Nanoparticles: Synthesis, Stability, and Thin Solid Film Deposition. <i>ACS Omega</i> , 2018 , 3, 1298-1303	3.9	16
45	Influence of mobile ions on the electroluminescence characteristics of methylammonium lead iodide perovskite diodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18614-18620	13	16
44	Zinc oxide nanocrystals as electron injecting building blocks for plastic light sources. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4916		16
43	Solution processed organic light-emitting diodes using a triazatruxene crosslinkable hole transporting material.. <i>RSC Advances</i> , 2018 , 8, 35719-35723	3.7	16
42	Efficient Perovskite Light-Emitting Diodes: Effect of Composition, Morphology, and Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41586-41591	9.5	16

41	Perovskite photovoltaics: Hovering solar cells. <i>Nature Materials</i> , 2015 , 14, 964-6	27	15
40	Aqueous electrolyte-gated ZnO transistors for environmental and biological sensing. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10277-10281	7.1	15
39	Origin of the Chemiresistive Response of Ultrathin Films of Conductive Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018 , 130, 15306-15310	3.6	15
38	Influence of doped charge transport layers on efficient perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2429-2434	5.8	14
37	Efficient photoluminescent thin films consisting of anchored hybrid perovskite nanoparticles. <i>Chemical Communications</i> , 2016 , 52, 11351-11354	5.8	13
36	High voltage vacuum-processed perovskite solar cells with organic semiconducting interlayers.. <i>RSC Advances</i> , 2020 , 10, 6640-6646	3.7	12
35	Dual-source vacuum deposition of pure and mixed halide 2D perovskites: thin film characterization and processing guidelines. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1902-1908	7.1	12
34	Highly Photoluminescent Blue Ionic Platinum-Based Emitters. <i>Inorganic Chemistry</i> , 2020 , 59, 1145-1152	5.1	12
33	Low-dimensional iodide perovskite nanocrystals enable efficient red emission. <i>Nanoscale</i> , 2019 , 11, 12793-12797	7.7	11
32	Potential and limitations of CsBi3I10 as a photovoltaic material. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15670-15674	13	11
31	Remote Modification of Bidentate Phosphane Ligands Controlling the Photonic Properties in Their Complexes: Enhanced Performance of [Cu(RN-xantphos)(N ⁺ N)] ⁺ [PF ₆ ⁻] in Light-Emitting Electrochemical Cells. <i>Advanced Optical Materials</i> , 2020 , 8, 1901689	8.1	11
30	The shiny side of copper: bringing copper(i) light-emitting electrochemical cells closer to application.. <i>RSC Advances</i> , 2020 , 10, 22631-22644	3.7	10
29	Efficient Vacuum Deposited P-I-N Perovskite Solar Cells by Front Contact Optimization. <i>Frontiers in Chemistry</i> , 2019 , 7, 936	5	10
28	Effect of the precursor's stoichiometry on the optoelectronic properties of methylammonium lead bromide perovskites. <i>Journal of Luminescence</i> , 2017 , 189, 120-125	3.8	9
27	High Photoluminescence Quantum Yields in Organic Semiconductor-Perovskite Composite Thin Films. <i>ChemSusChem</i> , 2017 , 10, 3788-3793	8.3	9
26	Dry Mechanochemical Synthesis of Highly Luminescent, Blue and Green Hybrid Perovskite Solids. <i>Advanced Optical Materials</i> , 2020 , 8, 1901494	8.1	9
25	Exploring the effect of the cyclometallating ligand in 2-(pyridine-2-yl)benzo[d]thiazole-containing iridium(III) complexes for stable light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12679-12688	7.1	9
24	Hansen theory applied to the identification of nonhazardous solvents for hybrid perovskite thin-films processing. <i>Polyhedron</i> , 2018 , 147, 9-14	2.7	8

23	Molecular ionic junction for enhanced electronic charge transfer. <i>Langmuir</i> , 2009 , 25, 79-83	4	8
22	Phosphomolybdic acid as an efficient hole injection material in perovskite optoelectronic devices. <i>Dalton Transactions</i> , 2018 , 48, 30-34	4.3	7
21	Stable Light-Emitting Electrochemical Cells Using Hyperbranched Polymer Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2104249	15.6	7
20	Quadruple-Cation Wide-Bandgap Perovskite Solar Cells with Enhanced Thermal Stability Enabled by Vacuum Deposition. <i>ACS Energy Letters</i> , 2022 , 7, 1355-1363	20.1	7
19	Crystal Reorientation and Amorphization Induced by Stressing Efficient and Stable p-i-n Vacuum-Processed MAPbI ₃ Perovskite Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000065	1.6	6
18	Red Light-Emitting Electrochemical Cells Employing Pyridazine-Bridged Cationic Diiridium Complexes. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, R84-R87	2	5
17	Inverted solution processable OLEDs using a metal oxide as electron injection contact 2008 ,		5
16	Preparation and Characterization of Mixed Halide MAPbI _{3-x} Cl _x Perovskite Thin Films by Three-Source Vacuum Deposition. <i>Energy Technology</i> , 2020 , 8, 1900784	3.5	5
15	Wide-Bite-Angle Diphosphine Ligands in Thermally Activated Delayed Fluorescent Copper(I) Complexes: Impact on the Performance of Electroluminescence Applications. <i>Inorganic Chemistry</i> , 2021 , 60, 10323-10339	5.1	5
14	Tunable Wide-Bandgap Monohalide Perovskites. <i>Advanced Optical Materials</i> , 2020 , 8, 2000423	8.1	4
13	Quantifying the Composition of Methylammonium Lead Iodide Perovskite Thin Films with Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22083-22088	3.8	4
12	Ruthenium pentamethylcyclopentadienyl mesitylene dimer: a sublimable n-dopant and electron buffer layer for efficient n-i-p perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25796-25801 ¹³		4
11	Enamine-based hole transporting materials for vacuum-deposited perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5017-5023	5.8	3
10	Intrinsic Organic Semiconductors as Hole Transport Layers in p-i-n Perovskite Solar Cells. <i>Solar Rrl</i> , 2022 , 6, 2100882	7.1	3
9	Tuning the Optical Absorption of Sn-, Ge-, and Zn-Substituted Cs ₂ AgBiBr ₆ Double Perovskites: Structural and Electronic Effects. <i>Chemistry of Materials</i> , 2021 , 33, 8028-8035	9.6	2
8	A counterion study of a series of [Cu(P [^] P)(N [^] N)][A] compounds with bis(phosphane) and 6-methyl and 6,6Rdimethyl-substituted 2,2Rbipyridine ligands for light-emitting electrochemical cells. <i>Dalton Transactions</i> , 2021 ,	4.3	2
7	Tunable luminescent lead bromide complexes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15996-16000	7.1	2
6	Vacuum-Deposited Microcavity Perovskite Photovoltaic Devices. <i>ACS Photonics</i> , 2021 , 8, 2067-2073	6.3	2

- 5 Use of Hydrogen Molybdenum Bronze in Vacuum-Deposited Perovskite Solar Cells. *Energy Technology*, **2020**, 8, 1900734 3.5 2
- 4 Simple approach for an electron extraction layer in all-vacuum processed n-i-p perovskite solar cell. *Energy Advances*, 1
- 3 Cell-array biosensors 137-154
- 2 Low Temperature, Vacuum-Processed Bismuth Triiodide Solar Cells with Organic Small-Molecule Hole Transport Bilayer. *Energy Technology*, **2021**, 9, 2100661 3.5
- 1 Perovskite Light-Emitting Devices [Fundamentals and Working Principles **2018**, 199-221