Michele Sessolo

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.

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	Quadruple-Cation Wide-Bandgap Perovskite Solar Cells with Enhanced Thermal Stability Enabled by Vacuum Deposition.. *ACS Energy Letters*, **2022**, 7, 1355-1363	20.1	7
129	Intrinsic Organic Semiconductors as Hole Transport Layers in p‐i‐n Perovskite Solar Cells. *Solar Rrl*, **2022**, 6, 2100882	7.1	3
128	Tuning the Optical Absorption of Sn-, Ge-, and Zn-Substituted Cs2AgBiBr6 Double Perovskites: Structural and Electronic Effects. *Chemistry of Materials*, **2021**, 33, 8028-8035	9.6	2
127	Low Temperature, Vacuum-Processed Bismuth Triiodide Solar Cells with Organic Small-Molecule Hole Transport Bilayer. *Energy Technology*, **2021**, 9, 2100661	3.5	
126	A counterion study of a series of [Cu(P^P)(N^N)][A] compounds with bis(phosphane) and 6-methyl and 6,6′-dimethyl-substituted 2,2′-bipyridine ligands for light-emitting electrochemical cells. *Dalton Transactions*, **2021**,	4.3	2
125	Vacuum-Deposited Microcavity Perovskite Photovoltaic Devices. *ACS Photonics*, **2021**, 8, 2067-2073	6.3	2
124	Wide-Bite-Angle Diphosphine Ligands in Thermally Activated Delayed Fluorescent Copper(I) Complexes: Impact on the Performance of Electroluminescence Applications. *Inorganic Chemistry*, **2021**, 60, 10323-10339	5.1	5
123	Crystal Reorientation and Amorphization Induced by Stressing Efficient and Stable P‐I‐N Vacuum-Processed MAPbI3 Perovskite Solar Cells. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000065	1.6	6
122	Efficient Wide-Bandgap Mixed-Cation and Mixed-Halide Perovskite Solar Cells by Vacuum Deposition. *ACS Energy Letters*, **2021**, 6, 827-836	20.1	33
121	Potential and limitations of CsBi3I10 as a photovoltaic material. *Journal of Materials Chemistry A*, **2020**, 8, 15670-15674	13	11
120	Tunable Wide-Bandgap Monohalide Perovskites. *Advanced Optical Materials*, **2020**, 8, 2000423	8.1	4
119	The shiny side of copper: bringing copper(i) light-emitting electrochemical cells closer to application.. *RSC Advances*, **2020**, 10, 22631-22644	3.7	10
118	Remote Modification of Bidentate Phosphane Ligands Controlling the Photonic Properties in Their Complexes: Enhanced Performance of [Cu(RN-xantphos)(N^N)][PF6] in Light-Emitting Electrochemical Cells. *Advanced Optical Materials*, **2020**, 8, 1901689	8.1	11
117	High voltage vacuum-processed perovskite solar cells with organic semiconducting interlayers.. *RSC Advances*, **2020**, 10, 6640-6646	3.7	12
116	Dual-source vacuum deposition of pure and mixed halide 2D perovskites: thin film characterization and processing guidelines. *Journal of Materials Chemistry C*, **2020**, 8, 1902-1908	7.1	12
115	Preparation and Characterization of Mixed Halide MAPbI3−xClx Perovskite Thin Films by Three-Source Vacuum Deposition. *Energy Technology*, **2020**, 8, 1900784	3.5	5
114	Highly Photoluminescent Blue Ionic Platinum-Based Emitters. *Inorganic Chemistry*, **2020**, 59, 1145-1152	5.1	12

113	Dry Mechanochemical Synthesis of Highly Luminescent, Blue and Green Hybrid Perovskite Solids. *Advanced Optical Materials*, **2020**, 8, 1901494	8.1	9
112	Deposition Kinetics and Compositional Control of Vacuum-Processed CHNHPbI Perovskite. *Journal of Physical Chemistry Letters*, **2020**, 11, 6852-6859	6.4	20
111	Enamine-based hole transporting materials for vacuum-deposited perovskite solar cells. *Sustainable Energy and Fuels*, **2020**, 4, 5017-5023	5.8	3
110	Tunable luminescent lead bromide complexes. *Journal of Materials Chemistry C*, **2020**, 8, 15996-16000	7.1	2
109	Reinforced Room-Temperature Spin Filtering in Chiral Paramagnetic Metallopeptides. *Journal of the American Chemical Society*, **2020**, 142, 17572-17580	16.4	18
108	Efficient Vacuum-Deposited Perovskite Solar Cells with Stable Cubic FA1□MAxPbI3. *ACS Energy Letters*, **2020**, 5, 3053-3061	20.1	32
107	Room-Temperature Vacuum Deposition of CsPbI2Br Perovskite Films from Multiple Sources and Mixed Halide Precursors. *Chemistry of Materials*, **2020**, 32, 8641-8652	9.6	17
106	Use of Hydrogen Molybdenum Bronze in Vacuum-Deposited Perovskite Solar Cells. *Energy Technology*, **2020**, 8, 1900734	3.5	2
105	Mechanochemical Synthesis of Sn(II) and Sn(IV) Iodide Perovskites and Study of Their Structural, Chemical, Thermal, Optical, and Electrical Properties. *Energy Technology*, **2020**, 8, 1900788	3.5	20
104	Phosphane tuning in heteroleptic [Cu(N^N)(P^P)] complexes for light-emitting electrochemical cells. *Dalton Transactions*, **2019**, 48, 446-460	4.3	29
103	Low-dimensional iodide perovskite nanocrystals enable efficient red emission. *Nanoscale*, **2019**, 11, 12793-12797	7.7	11
102	Red Light-Emitting Electrochemical Cells Employing Pyridazine-Bridged Cationic Diiridium Complexes. *ECS Journal of Solid State Science and Technology*, **2019**, 8, R84-R87	2	5
101	Consistent Device Simulation Model Describing Perovskite Solar Cells in Steady-State, Transient, and Frequency Domain. *ACS Applied Materials & Interfaces*, **2019**, 11, 23320-23328	9.5	40
100	Molecular Passivation of MoO3: Band Alignment and Protection of Charge Transport Layers in Vacuum-Deposited Perovskite Solar Cells. *Chemistry of Materials*, **2019**, 31, 6945-6949	9.6	32
99	Low-dimensional non-toxic A3Bi2X9 compounds synthesized by a dry mechanochemical route with tunable visible photoluminescence at room temperature. *Journal of Materials Chemistry C*, **2019**, 7, 6236-6240	7.1	27
98	Quantifying the Composition of Methylammonium Lead Iodide Perovskite Thin Films with Infrared Spectroscopy. *Journal of Physical Chemistry C*, **2019**, 123, 22083-22088	3.8	4
97	Room-Temperature Cubic Phase Crystallization and High Stability of Vacuum-Deposited Methylammonium Lead Triiodide Thin Films for High-Efficiency Solar Cells. *Advanced Materials*, **2019**, 31, e1902692	24	30
96	Short Photoluminescence Lifetimes in Vacuum-Deposited CHNHPbI Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers. *Journal of Physical Chemistry Letters*, **2019**, 10, 5167-5172	6.4	21

95	Vacuum-Deposited 2D/3D Perovskite Heterojunctions. *ACS Energy Letters*, **2019**, 4, 2893-2901	20.1	38
94	Efficient Vacuum Deposited P-I-N Perovskite Solar Cells by Front Contact Optimization. *Frontiers in Chemistry*, **2019**, 7, 936	5	10
93	Ruthenium pentamethylcyclopentadienyl mesitylene dimer: a sublimable n-dopant and electron buffer layer for efficient n‐i‐p perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 25796-25801	13	4
92	Solvent-Free Synthesis and Thin-Film Deposition of Cesium Copper Halides with Bright Blue Photoluminescence. *Chemistry of Materials*, **2019**, 31, 10205-10210	9.6	57
91	Influence of hole transport material ionization energy on the performance of perovskite solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 523-527	7.1	33
90	Vacuum Deposited Triple-Cation Mixed-Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1703506	21.8	115
89	Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. *ACS Energy Letters*, **2018**, 3, 835-839	20.1	21
88	Interfacial Modification for High-Efficiency Vapor-Phase-Deposited Perovskite Solar Cells Based on a Metal Oxide Buffer Layer. *Journal of Physical Chemistry Letters*, **2018**, 9, 1041-1046	6.4	76
87	Colloids of Naked CHNHPbBr Perovskite Nanoparticles: Synthesis, Stability, and Thin Solid Film Deposition. *ACS Omega*, **2018**, 3, 1298-1303	3.9	16
86	Fully Vacuum-Processed Wide Band Gap Mixed-Halide Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 214-219	20.1	66
85	Hansen theory applied to the identification of nonhazardous solvents for hybrid perovskite thin-films processing. *Polyhedron*, **2018**, 147, 9-14	2.7	8
84	[Cu(P^P)(N^N)][PF6] compounds with bis(phosphane) and 6-alkoxy, 6-alkylthio, 6-phenyloxy and 6-phenylthio-substituted 2,2?-bipyridine ligands for light-emitting electrochemical cells. *Journal of Materials Chemistry C*, **2018**, 6, 8460-8471	7.1	44
83	Perovskite-Perovskite Homojunctions via Compositional Doping. *Journal of Physical Chemistry Letters*, **2018**, 9, 2770-2775	6.4	54
82	Phosphomolybdic acid as an efficient hole injection material in perovskite optoelectronic devices. *Dalton Transactions*, **2018**, 48, 30-34	4.3	7
81	Solution processed organic light-emitting diodes using a triazatruxene crosslinkable hole transporting material.. *RSC Advances*, **2018**, 8, 35719-35723	3.7	16
80	Incorporation of potassium halides in the mechanosynthesis of inorganic perovskites: feasibility and limitations of ion-replacement and trap passivation.. *RSC Advances*, **2018**, 8, 41548-41551	3.7	19
79	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. *Journal of Materials Chemistry C*, **2018**, 6, 12679-12688	7.1	9
78	Origin of the Chemiresistive Response of Ultrathin Films of Conductive Metal–Organic Frameworks. *Angewandte Chemie*, **2018**, 130, 15306-15310	3.6	15

77	Perovskite Light-Emitting Devices Fundamentals and Working Principles **2018**, 199-221		
76	A new cross-linkable 9,10-diphenylanthracene derivative as a wide bandgap host for solution-processed organic light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 12948-12954	7.1	17
75	High voltage vacuum-deposited CH3NH3PbI3CH3NH3PbI3 tandem solar cells. *Energy and Environmental Science*, **2018**, 11, 3292-3297	35.4	74
74	Efficient Photo- and Electroluminescence by Trap States Passivation in Vacuum-Deposited Hybrid Perovskite Thin Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 36187-36193	9.5	21
73	Efficient Perovskite Light-Emitting Diodes: Effect of Composition, Morphology, and Transport Layers. *ACS Applied Materials & Interfaces*, **2018**, 10, 41586-41591	9.5	16
72	Single-Source Vacuum Deposition of Mechanosynthesized Inorganic Halide Perovskites. *Chemistry of Materials*, **2018**, 30, 7423-7427	9.6	49
71	Origin of the Chemiresistive Response of Ultrathin Films of Conductive Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 15086-15090	16.4	57
70	Luminescent copper(i) complexes with bisphosphane and halogen-substituted 2,2Rbipyridine ligands. *Dalton Transactions*, **2018**, 47, 14263-14276	4.3	45
69	Origin of the Enhanced Photoluminescence Quantum Yield in MAPbBr3 Perovskite with Reduced Crystal Size. *ACS Energy Letters*, **2018**, 3, 1458-1466	20.1	75
68	Highly photoluminescent, dense solid films from organic-capped CH3NH3PbBr3 perovskite colloids. *Journal of Materials Chemistry C*, **2018**, 6, 6771-6777	7.1	18
67	Influence of doped charge transport layers on efficient perovskite solar cells. *Sustainable Energy and Fuels*, **2018**, 2, 2429-2434	5.8	14
66	Removing Leakage and Surface Recombination in Planar Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 424-430	20.1	90
65	Vacuum deposited perovskite solar cells employing dopant-free triazatruxene as the hole transport material. *Solar Energy Materials and Solar Cells*, **2017**, 163, 237-241	6.4	48
64	Efficient wide band gap double cation double halide perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 3203-3207	13	19
63	Charge Noise in Organic Electrochemical Transistors. *Physical Review Applied*, **2017**, 7,	4.3	17
62	Recombination in Perovskite Solar Cells: Significance of Grain Boundaries, Interface Traps, and Defect Ions. *ACS Energy Letters*, **2017**, 2, 1214-1222	20.1	577
61	Delayed Luminescence in Lead Halide Perovskite Nanocrystals. *Journal of Physical Chemistry C*, **2017**, 121, 13381-13390	3.8	109
60	Effect of the precursorRs stoichiometry on the optoelectronic properties of methylammonium lead bromide perovskites. *Journal of Luminescence*, **2017**, 189, 120-125	3.8	9

59	Efficient Monolithic Perovskite/Perovskite Tandem Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602121	21.8	205
58	Vapor-Deposited Perovskites: The Route to High-Performance Solar Cell Production?. *Joule*, **2017**, 1, 431-442	27.8	205
57	High Photoluminescence Quantum Yields in Organic Semiconductor-Perovskite Composite Thin Films. *ChemSusChem*, **2017**, 10, 3788-3793	8.3	9
56	Photoluminescence quantum yield exceeding 80% in low dimensional perovskite thin-films via passivation control. *Chemical Communications*, **2017**, 53, 8707-8710	5.8	40
55	Efficient Light-Emitting Electrochemical Cells Using Small Molecular Weight, Ionic, Host-Guest Systems. *ECS Journal of Solid State Science and Technology*, **2016**, 5, R3160-R3163	2	24
54	Efficient photoluminescent thin films consisting of anchored hybrid perovskite nanoparticles. *Chemical Communications*, **2016**, 52, 11351-11354	5.8	13
53	Efficient vacuum deposited p-i-n and n-i-p perovskite solar cells employing doped charge transport layers. *Energy and Environmental Science*, **2016**, 9, 3456-3463	35.4	328
52	Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fill-Factor Solar Cells. *Advanced Materials*, **2016**, 28, 9839-9845	24	127
51	Perovskite Luminescent Materials. *Topics in Current Chemistry*, **2016**, 374, 52	7.2	17
50	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. *Journal of the American Chemical Society*, **2016**, 138, 10252-9	16.4	189
49	Interface engineering in efficient vacuum deposited perovskite solar cells. *Organic Electronics*, **2016** , 37, 396-401	3.5	18
48	Structural control of mixed ionic and electronic transport in conducting polymers. *Nature Communications*, **2016**, 7, 11287	17.4	452
47	Influence of mobile ions on the electroluminescence characteristics of methylammonium lead iodide perovskite diodes. *Journal of Materials Chemistry A*, **2016**, 4, 18614-18620	13	16
46	Lithium salt additives and the influence of their counterion on the performances of light-emitting electrochemical cells. *Journal of Materials Chemistry C*, **2016**, 4, 10781-10785	7.1	28
45	Fullerene imposed high open-circuit voltage in efficient perovskite based solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3667-3672	13	38
44	Flexible light-emitting electrochemical cells with single-walled carbon nanotube anodes. *Organic Electronics*, **2016**, 30, 36-39	3.5	17
43	Quantification of spatial inhomogeneity in perovskite solar cells by hyperspectral luminescence imaging. *Energy and Environmental Science*, **2016**, 9, 2286-2294	35.4	70
42	Controlling the mode of operation of organic transistors through side-chain engineering. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12017-12022	11.5	251

41	Perovskite solar cells prepared by flash evaporation. *Chemical Communications*, **2015**, 51, 7376-8	5.8	81
40	Highly luminescent perovskite□luminum oxide composites. *Journal of Materials Chemistry C*, **2015**, 3, 11286-11289	7.1	54
39	Perovskite photovoltaics: Hovering solar cells. *Nature Materials*, **2015**, 14, 964-6	27	15
38	Mixed Iodide-Bromide Methylammonium Lead Perovskite-based Diodes for Light Emission and Photovoltaics. *Journal of Physical Chemistry Letters*, **2015**, 6, 3743-8	6.4	83
37	Solar cells. Perovskite solar cells join the major league. *Science*, **2015**, 350, 917	33.3	54
36	Efficient photovoltaic and electroluminescent perovskite devices. *Chemical Communications*, **2015**, 51, 569-71	5.8	103
35	Photovoltaic devices employing vacuum-deposited perovskite layers. *MRS Bulletin*, **2015**, 40, 660-666	3.2	44
34	High-performance transistors for bioelectronics through tuning of channel thickness. *Science Advances*, **2015**, 1, e1400251	14.3	359
33	Lead acetate precursor based p-i-n perovskite solar cells with enhanced reproducibility and low hysteresis. *Journal of Materials Chemistry A*, **2015**, 3, 14121-14125	13	67
32	Engineering charge injection interfaces in hybrid light-emitting electrochemical cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 19520-4	9.5	20
31	A facile biofunctionalisation route for solution processable conducting polymer devices. *Journal of Materials Chemistry B*, **2014**, 2, 2537-2545	7.3	54
30	Ion-selective organic electrochemical transistors. *Advanced Materials*, **2014**, 26, 4803-7	24	103
29	Bright and stable light-emitting electrochemical cells based on an intramolecularly □stacked, 2-naphthyl-substituted iridium complex. *Journal of Materials Chemistry C*, **2014**, 2, 7047-7055	7.1	31
28	[Cu(bpy)(P^P)]+ containing light-emitting electrochemical cells: improving performance through simple substitution. *Dalton Transactions*, **2014**, 43, 16593-6	4.3	72
27	Aqueous electrolyte-gated ZnO transistors for environmental and biological sensing. *Journal of Materials Chemistry C*, **2014**, 2, 10277-10281	7.1	15
26	A physical interpretation of impedance at conducting polymer/electrolyte junctions. *AIP Advances*, **2014**, 4, 017127	1.5	28
25	High transconductance organic electrochemical transistors. *Nature Communications*, **2013**, 4, 2133	17.4	464
24	Ionic iridium complex and conjugated polymer used to solution-process a bilayer white light-emitting diode. *ACS Applied Materials & Interfaces*, **2013**, 5, 630-4	9.5	36

23	Organic electrochemical transistors with maximum transconductance at zero gate bias. *Advanced Materials*, **2013**, 25, 7010-4	24	155
22	Easy-to-fabricate conducting polymer microelectrode arrays. *Advanced Materials*, **2013**, 25, 2135-9	24	166
21	Zinc oxide nanocrystals as electron injecting building blocks for plastic light sources. *Journal of Materials Chemistry*, **2012**, 22, 4916		16
20	Hybrid organic-inorganic light-emitting diodes. *Advanced Materials*, **2011**, 23, 1829-45	24	232
19	Hybrid organic-inorganic light emitting diodes: effect of the metal oxide. *Journal of Materials Chemistry*, **2010**, 20, 4047		61
18	Ionically Assisted Charge Injection in Hybrid Organic–Inorganic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2010**, 2, 2694-2698	9.5	38
17	Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2010**, 94, 366-375	6.4	283
16	Influence of device geometry on sensor characteristics of planar organic electrochemical transistors. *Advanced Materials*, **2010**, 22, 1012-6	24	130
15	Phosphorescent hybrid organic-inorganic light-emitting diodes. *Advanced Materials*, **2010**, 22, 2198-201	24	52
14	Efficient Polymer Light-Emitting Diode Using Air-Stable Metal Oxides as Electrodes. *Advanced Materials*, **2009**, 21, 79-82	24	162
13	Molecular ionic junction for enhanced electronic charge transfer. *Langmuir*, **2009**, 25, 79-83	4	8
12	White-light phosphorescence emission from a single molecule: application to OLED. *Chemical Communications*, **2009**, 4672-4	5.8	85
11	White Hybrid Organic–Inorganic Light-Emitting Diode Using ZnO as the Air-Stable Cathode. *Chemistry of Materials*, **2009**, 21, 439-441	9.6	52
10	Structure–Luminescence Correlations in Europium-Doped Sol–Gel ZnO Nanopowders. *Journal of Physical Chemistry C*, **2008**, 112, 4049-4054	3.8	111
9	Inverted solution processable OLEDs using a metal oxide as electron injection contact **2008**,		5
8	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. *Advanced Functional Materials*, **2008**, 18, 145-150	15.6	151
7	Long-Living Light-Emitting Electrochemical Cells – Control through Supramolecular Interactions. *Advanced Materials*, **2008**, 20, 3910-3913	24	175
6	Band unpinning and photovoltaic model for P3HT:PCBM organic bulk heterojunctions under illumination. *Chemical Physics Letters*, **2008**, 465, 57-62	2.5	105

5	Highly phosphorescent perfect green emitting iridium(iii) complex for application in OLEDs. *Chemical Communications*, **2007**, 3276-8	5.8	80
4	Air stable hybrid organic-inorganic light emitting diodes using ZnO as the cathode. *Applied Physics Letters*, **2007**, 91, 223501	3.4	142
3	Cell-array biosensors137-154		
2	Stable Light-Emitting Electrochemical Cells Using Hyperbranched Polymer Electrolyte. *Advanced Functional Materials*,2104249	15.6	7
1	Simple approach for an electron extraction layer in all-vacuum processed n-i-p perovskite solar cell. *Energy Advances*,		1