

Achilleas Savva

List of Publications by Year in descending order

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59
papers

3,123
citations

134610

34
h-index

182931

54
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62
all docs

62
docs citations

62
times ranked

3597
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Bioelectronics for <i>In Vitro</i> Systems. <i>Chemical Reviews</i> , 2022, 122, 4700-4790.	23.0	49
2	Understanding electrochemical properties of supported lipid bilayers interfaced with organic electronic devices. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8050-8060.	2.7	20
3	A Low-Swelling Polymeric Mixed Conductor Operating in Aqueous Electrolytes. <i>Advanced Materials</i> , 2021, 33, e2005723.	11.1	33
4	Polaron Delocalization in Donor-Acceptor Polymers and its Impact on Organic Electrochemical Transistor Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7777-7785.	7.2	84
5	Polaron Delocalization in Donor-Acceptor Polymers and its Impact on Organic Electrochemical Transistor Performance. <i>Angewandte Chemie</i> , 2021, 133, 7856-7864.	1.6	16
6	Influence of Side Chains on the n-Type Organic Electrochemical Transistor Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4253-4266.	4.0	76
7	Mixed Conduction in an n-Type Organic Semiconductor in the Absence of Hydrophilic Side Chains. <i>Advanced Functional Materials</i> , 2021, 31, 2010165.	7.8	71
8	Regiochemistry-Driven Organic Electrochemical Transistor Performance Enhancement in Ethylene Glycol-Functionalized Polythiophenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 11007-11018.	6.6	74
9	Reversible Electrochemical Charging of n-Type Conjugated Polymer Electrodes in Aqueous Electrolytes. <i>Journal of the American Chemical Society</i> , 2021, 143, 14795-14805.	6.6	62
10	An electroactive and thermo-responsive material for the capture and release of cells. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113405.	5.3	4
11	The Effect of Alkyl Spacers on the Mixed Ionic-Electronic Conduction Properties of n-Type Polymers. <i>Advanced Functional Materials</i> , 2021, 31, 2008718.	7.8	67
12	Functional Infectious Nanoparticle Detector: Finding Viruses by Detecting Their Host Entry Functions Using Organic Bioelectronic Devices. <i>ACS Nano</i> , 2021, 15, 18142-18152.	7.3	19
13	Biofuel powered glucose detection in bodily fluids with an n-type conjugated polymer. <i>Nature Materials</i> , 2020, 19, 456-463.	13.3	187
14	In Situ Electrochemical Synthesis of a Conducting Polymer Composite for Multimetabolite Sensing. <i>Advanced Materials Technologies</i> , 2020, 5, 1900943.	3.0	39
15	Ethylene Glycol-Based Side Chain Length Engineering in Polythiophenes and its Impact on Organic Electrochemical Transistor Performance. <i>Chemistry of Materials</i> , 2020, 32, 6618-6628.	3.2	92
16	Optical and Electronic Ion Channel Monitoring from Native Human Membranes. <i>ACS Nano</i> , 2020, 14, 12538-12545.	7.3	51
17	Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. <i>Nature Communications</i> , 2020, 11, 3004.	5.8	82
18	The Key Role of Side Chain Linkage in Structure Formation and Mixed Conduction of Ethylene Glycol Substituted Polythiophenes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13029-13039.	4.0	78

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19	Balancing Ionic and Electronic Conduction for High-Performance Organic Electrochemical Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 1907657.	7.8	131
20	Enzyme-Free Detection of Glucose with a Hybrid Conductive Gel Electrode. <i>Advanced Materials Interfaces</i> , 2019, 6, 1800928.	1.9	51
21	On the Role of Contact Resistance and Electrode Modification in Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2019, 31, e1902291.	11.1	52
22	High-Performance Organic Electrochemical Transistors Based on Conjugated Polyelectrolyte Copolymers. <i>Chemistry of Materials</i> , 2019, 31, 5286-5295.	3.2	56
23	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO ₃) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019, 2, 8090-8097.	2.5	51
24	Solvent Engineering for High-Performance n-Type Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900249.	2.6	59
25	Inverted Perovskite Photovoltaics Using Flame Spray Pyrolysis Solution Based CuAlO ₂ /Cu ⁺ O Hole-Selective Contact. <i>ACS Applied Energy Materials</i> , 2019, 2, 2276-2287.	2.5	29
26	BMP-2 functionalized PEDOT:PSS-based OECTs for stem cell osteogenic differentiation monitoring. <i>Flexible and Printed Electronics</i> , 2019, 4, 044006.	1.5	11
27	Role of the Anion on the Transport and Structure of Organic Mixed Conductors. <i>Advanced Functional Materials</i> , 2019, 29, 1807034.	7.8	116
28	Influence of Water on the Performance of Organic Electrochemical Transistors. <i>Chemistry of Materials</i> , 2019, 31, 927-937.	3.2	140
29	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2018, 30, 2945-2953.	3.2	199
30	Lipid bilayer formation on organic electronic materials. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5218-5227.	2.7	12
31	Employing surfactant-assisted hydrothermal synthesis to control CuGaO ₂ nanoparticle formation and improved carrier selectivity of perovskite solar cells. <i>Materials Today Energy</i> , 2018, 8, 57-64.	2.5	35
32	Visualizing the Solid-Liquid Interface of Conjugated Copolymer Films Using Fluorescent Liposomes. <i>ACS Applied Bio Materials</i> , 2018, 1, 1348-1354.	2.3	12
33	Direct metabolite detection with an n-type accumulation mode organic electrochemical transistor. <i>Science Advances</i> , 2018, 4, eaat0911.	4.7	183
34	Ionic-to-electronic coupling efficiency in PEDOT:PSS films operated in aqueous electrolytes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12023-12030.	2.7	108
35	Photovoltaic limitations of BODIPY:fullerene based bulk heterojunction solar cells. <i>Synthetic Metals</i> , 2017, 226, 25-30.	2.1	14
36	Influence of the Hole Transporting Layer on the Thermal Stability of Inverted Organic Photovoltaics Using Accelerated-Heat Lifetime Protocols. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14136-14144.	4.0	43

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37	Room temperature nanoparticulate interfacial layers for perovskite solar cells via solvothermal synthesis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20381-20389.	5.2	33
38	The influence of additives in the stoichiometry of hybrid lead halide perovskites. <i>AIP Advances</i> , 2017, 7, .	0.6	7
39	The effect of hole transporting layer in charge accumulation properties of p-i-n perovskite solar cells. <i>APL Materials</i> , 2017, 5, .	2.2	80
40	Improved Performance and Reliability of p-i-n Perovskite Solar Cells via Doped Metal Oxides. <i>Advanced Energy Materials</i> , 2016, 6, 1600285.	10.2	67
41	High performance indium tin oxide-free solution-processed organic light emitting diodes based on inkjet-printed fine silver grid lines. <i>Flexible and Printed Electronics</i> , 2016, 1, 035004.	1.5	22
42	The appearance of Ti ³⁺ states in solution-processed TiO _x buffer layers in inverted organic photovoltaics. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	5
43	Solution-processed star-shaped oligomers in normal and inverted organic solar cells. <i>Synthetic Metals</i> , 2016, 215, 229-234.	2.1	2
44	Baselines for Lifetime of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600910.	10.2	42
45	Linking the HOMO-LUMO gap to torsional disorder in P3HT/PCBM blends. <i>Journal of Chemical Physics</i> , 2015, 143, 224704.	1.2	17
46	Methods for Improving the Lifetime Performance of Organic Photovoltaics with Low-Costing Encapsulation. <i>ChemPhysChem</i> , 2015, 16, 1134-1154.	1.0	72
47	High-Performance Inverted Organic Photovoltaics Without Hole-Selective Contact. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24608-24615.	4.0	9
48	Photovoltaic analysis of the effects of PEDOT:PSS-additives hole selective contacts on the efficiency and lifetime performance of inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 507-514.	3.0	59
49	Evaporation-free inverted organic photovoltaics using a mixture of silver nanoparticle ink formulations for solution-processed top electrodes. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	10
50	Inkjet printing processing conditions for bulk-heterojunction solar cells using two high-performing conjugated polymer donors. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 474-480.	3.0	27
51	Investigating electrodes degradation in organic photovoltaics through reverse engineering under accelerated humidity lifetime conditions. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 544-550.	3.0	41
52	Cesium-doped zinc oxide as electron selective contact in inverted organic photovoltaics. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	31
53	Synergistic effects of buffer layer processing additives for enhanced hole carrier selectivity in inverted Organic Photovoltaics. <i>Organic Electronics</i> , 2013, 14, 3123-3130.	1.4	32
54	The Effect of Organic and Metal Oxide Interfacial layers on the Performance of Inverted Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2013, 3, 391-398.	10.2	40

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55	Highly efficient indium tin oxide-free organic photovoltaics using inkjet-printed silver nanoparticle current collecting grids. Applied Physics Letters, 2012, 101, .	1.5	47
56	Superhydrophobic polymerâ€particle composite films produced using various particle sizes. Surface and Interface Analysis, 2012, 44, 870-875.	0.8	71
57	Bioelectronic Interfaces for Optical Stimulation of Neurons In-Vitro. , 0, , .		0
58	Influence of side chains on the n-type organic electrochemical transistor performance. , 0, , .		0
59	Multifunctional Organic Bioelectronic Interfaces for Monitoring and Controlling Cellular Activity. , 0, , .		0