

Roger Llopis

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,259
citations

471509

17
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

2058
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-dimensional spin field-effect switch. Nature Communications, 2016, 7, 13372.	12.8	168
2	Room-temperature Spin Transport in C ₆₀ -Based Spin Valves. Advanced Materials, 2011, 23, 1609-1613.	21.0	147
3	A molecular spin-photovoltaic device. Science, 2017, 357, 677-680.	12.6	147
4	A Light-controlled Resistive Switching Memory. Advanced Materials, 2012, 24, 2496-2500.	21.0	138
5	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. Advanced Materials, 2016, 28, 2609-2615.	21.0	77
6	Room-temperature air-stable spin transport in bathocuproine-based spin valves. Nature Communications, 2013, 4, .	12.8	74
7	Unveiling the mechanisms of the spin Hall effect in Ta. Physical Review B, 2018, 98, .	3.2	56
8	Resistive switching dependence on atomic layer deposition parameters in HfO ₂ -based memory devices. Journal of Materials Chemistry C, 2014, 2, 3204-3211.	5.5	52
9	Determination of energy level alignment at metal/molecule interfaces by in-device electrical spectroscopy. Nature Communications, 2014, 5, 4161.	12.8	40
10	Energy Level Alignment at Metal/Solution-processed Organic Semiconductor Interfaces. Advanced Materials, 2017, 29, 1606901.	21.0	37
11	Tuning the resistive switching properties of TiO ₂ films. Applied Physics Letters, 2015, 106, .	3.3	35
12	Flexible semi-transparent organic spin valve based on bathocuproine. Applied Physics Letters, 2014, 105, .	3.3	33
13	Spin doping using transition metal phthalocyanine molecules. Nature Communications, 2016, 7, 13751.	12.8	30
14	Graphene as an electrode for solution-processed electron-transporting organic transistors. Nanoscale, 2017, 9, 10178-10185.	5.6	30
15	C ₆₀ -based hot-electron magnetic tunnel transistor. Applied Physics Letters, 2012, 101, 102404.	3.3	26
16	Tuning the charge flow between Marcus regimes in an organic thin-film device. Nature Communications, 2019, 10, 2089.	12.8	25
17	Room-temperature Operation of a p-type Molecular Spin Photovoltaic Device on a Transparent Substrate. Advanced Materials, 2020, 32, e1906908.	21.0	20
18	C ₆₀ /NiFe combination as a promising platform for molecular spintronics. Organic Electronics, 2012, 13, 366-372.	2.6	18

#	ARTICLE	IF	CITATIONS
19	Resistive switching in rectifying interfaces of metal-semiconductor-metal structures. Applied Physics Letters, 2013, 103, .	3.3	15
20	Tailoring palladium nanocontacts by electromigration. Applied Physics Letters, 2013, 102, .	3.3	15
21	Frequency driven inversion of tunnel magnetoimpedance and observation of positive tunnel magnetocapacitance in magnetic tunnel junctions. Applied Physics Letters, 2016, 109, 052401.	3.3	10
22	Non-conventional metallic electrodes for organic field-effect transistors. Organic Electronics, 2012, 13, 2301-2306.	2.6	9
23	One-transistor one-resistor (1T1R) cell for large-area electronics. Applied Physics Letters, 2018, 113, .	3.3	9
24	Reliable determination of the Cu/n-Si Schottky barrier height by using in-device hot-electron spectroscopy. Applied Physics Letters, 2015, 107, .	3.3	8
25	Strain Effects on the Energy-Level Alignment at Metal/Organic Semiconductor Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 12717-12722.	8.0	8
26	In situ electrical characterization of palladium-based single electron transistors made by electromigration technique. AIP Advances, 2014, 4, .	1.3	7
27	Gate-tunable graphene-organic interface barrier for vertical transistor and logic inverter. Applied Physics Letters, 2018, 113, .	3.3	7
28	Three-terminal resistive switching memory in a transparent vertical-configuration device. Applied Physics Letters, 2014, 104, .	3.3	5
29	Top dielectric induced ambipolarity in an n-channel dual-gated organic field effect transistor. Journal of Materials Chemistry C, 2019, 7, 10389-10393.	5.5	5
30	Modulation of spin accumulation by nanoscale confinement using electromigration in a metallic lateral spin valve. Nanotechnology, 2016, 27, 095201.	2.6	3
31	Non-Hebbian Learning Implementation in Light-Controlled Resistive Memory Devices. PLoS ONE, 2012, 7, e52042.	2.5	2
32	Tuning ambipolarity in a polymer field effect transistor using graphene electrodes. Journal of Materials Chemistry C, 2020, 8, 8120-8124.	5.5	2
33	An Artificial Neuron Founded on Resistive Switching of Mott Insulators. , 2017, , .		1