## Miguel Muñoz Rojo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Energy Dissipation in Monolayer MoS <sub>2</sub> Electronics. Nano Letters, 2017, 17, 3429-3433.	4.5	177
2	Ultrahigh thermal isolation across heterogeneously layered two-dimensional materials. Science Advances, 2019, 5, eaax1325.	4.7	149
3	Low Variability in Synthetic Monolayer MoS <sub>2</sub> Devices. ACS Nano, 2017, 11, 8456-8463.	7.3	147
4	A Review on Principles and Applications of Scanning Thermal Microscopy (SThM). Advanced Functional Materials, 2020, 30, 1900892.	7.8	98
5	Review on measurement techniques of transport properties of nanowires. Nanoscale, 2013, 5, 11526.	2.8	91
6	Ultra-low thermal conductivities in large-area Si-Ge nanomeshes for thermoelectric applications. Scientific Reports, 2016, 6, 32778.	1.6	84
7	Anisotropic Effects on the Thermoelectric Properties of Highly Oriented Electrodeposited Bi2Te3 Films. Scientific Reports, 2016, 6, 19129.	1.6	76
8	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. Journal of Applied Physics, 2019, 126, .	1.1	75
9	Decrease in thermal conductivity in polymeric P3HT nanowires by size-reduction induced by crystal orientation: new approaches towards thermal transport engineering of organic materials. Nanoscale, 2014, 6, 7858-7865.	2.8	63
10	Fabrication of Bi2Te3 nanowire arrays and thermal conductivity measurement by 3ï‰-scanning thermal microscopy. Journal of Applied Physics, 2013, 113, .	1.1	56
11	Thermal conductivity measurements of high and low thermal conductivity films using a scanning hot probe method in the 3ï‰ mode and novel calibration strategies. Nanoscale, 2015, 7, 15404-15412.	2.8	50
12	Improvement of Bismuth Telluride electrodeposited films by the addition of Sodium Lignosulfonate. Electrochimica Acta, 2014, 123, 117-126.	2.6	47
13	Nanoscale Heterogeneities in Monolayer MoSe <sub>2</sub> Revealed by Correlated Scanning Probe Microscopy and Tip-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2018, 1, 572-579.	2.4	45
14	Thermal conductivity of Bi <sub>2</sub> Te <sub>3</sub> nanowires: how size affects phonon scattering. Nanoscale, 2017, 9, 6741-6747.	2.8	41
15	Spatially Resolved Thermometry of Resistive Memory Devices. Scientific Reports, 2017, 7, 15360.	1.6	41
16	Localized Heating and Switching in MoTe <sub>2</sub> -Based Resistive Memory Devices. Nano Letters, 2020, 20, 1461-1467.	4.5	38
17	Monolithic mtesla-level magnetic induction by self-rolled-up membrane technology. Science Advances, 2020, 6, eaay4508.	4.7	35
18	Thermoelectric Skutterudite/oxide nanocomposites: Effective decoupling of electrical and thermal conductivity by functional interfaces. Nano Energy, 2017, 31, 393-402.	8.2	34

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19	Solid‣tate Thermal Control Devices. Advanced Electronic Materials, 2021, 7, 2000625.	2.6	32
20	Low thermal conductivity and improved thermoelectric performance of nanocrystalline silicon germanium films by sputtering. Nanotechnology, 2016, 27, 175401.	1.3	30
21	Dual-Layer Dielectric Stack for Thermally Isolated Low-Energy Phase-Change Memory. IEEE Transactions on Electron Devices, 2017, 64, 4496-4502.	1.6	29
22	Enhancement of thermoelectric efficiency of doped PCDTBT polymer films. RSC Advances, 2015, 5, 66687-66694.	1.7	27
23	Localized Triggering of the Insulator-Metal Transition in VO <sub>2</sub> Using a Single Carbon Nanotube. ACS Nano, 2019, 13, 11070-11077.	7.3	25
24	Fluidic and Mechanical Thermal Control Devices. Advanced Electronic Materials, 2021, 7, 2000623.	2.6	20
25	Direct measurement of nanoscale filamentary hot spots in resistive memory devices. Science Advances, 2022, 8, eabk1514.	4.7	20
26	Tuning Electrical and Thermal Transport in AlGaN/GaN Heterostructures via Buffer Layer Engineering. Advanced Functional Materials, 2018, 28, 1705823.	7.8	19
27	Toward a solid-state thermal diode for room-temperature magnetocaloric energy conversion. Journal of Applied Physics, 2020, 127, .	1.1	17
28	Spatial potential ripples of azimuthal surface modes in topological insulator Bi2Te3 nanowires. Scientific Reports, 2016, 6, 19014.	1.6	15
29	Thermal transport across graphene step junctions. 2D Materials, 2019, 6, 011005.	2.0	15
30	Significant Phonon Drag Enables High Power Factor in the AlGaN/GaN Two-Dimensional Electron Gas. Nano Letters, 2019, 19, 3770-3776.	4.5	13
31	High electrical conductivity in out of plane direction of electrodeposited Bi2Te3 films. AIP Advances, 2015, 5, .	0.6	12
32	Thermal rectification in multilayer phase change material structures for energy storage applications. IScience, 2021, 24, 102843.	1.9	11
33	Electrical contact resistances of thermoelectric thin films measured by Kelvin probe microscopy. Applied Physics Letters, 2013, 103, .	1.5	10
34	Fabrication and Mechanical Characterization of Semi-Free-Standing (Conjugated) Polymer Thin Films. Langmuir, 2014, 30, 5217-5223.	1.6	10
35	Modeling of transient thermoelectric transport in Harman method for films and nanowires. International Journal of Thermal Sciences, 2015, 89, 193-202.	2.6	9
36	Ferrofluidic thermal switch in a magnetocaloric device. IScience, 2022, 25, 103779.	1.9	9

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#	Article	IF	CITATIONS
37	Highly Efficient Antimicrobial Ceramics Based on Electrically Charged Interfaces. ACS Applied Materials & Material	4.0	6
38	Probing Self-Heating in RRAM Devices by Sub-100 nm Spatially Resolved Thermometry. , 2018, , .		5
39	Indirectly Heated Switch as a Platform for Nanosecond Probing of Phase Transition Properties in Chalcogenides. IEEE Transactions on Electron Devices, 2021, 68, 1298-1303.	1.6	5
40	Graphene-based electromechanical thermal switches. 2D Materials, 2021, 8, 035055.	2.0	4
41	Thermoelectrics: Tuning Electrical and Thermal Transport in AlGaN/GaN Heterostructures via Buffer Layer Engineering (Adv. Funct. Mater. 22/2018). Advanced Functional Materials, 2018, 28, 1870152.	7.8	3
42	Effect of nanostructuration on the thermal conductivity of thermoelectric materials. , 2013, , .		2
43	Process-induced anomalous current transport in graphene/InAlN/GaN heterostructured diodes. , 2019, , .		1
44	Localized Heating in Mo'l'ei-Based Resistive Memory Devices. , 2018, , .		0
45	Low Power Nanoscale Switching of VO <sub>2</sub> using Carbon Nanotube Heaters. , 2018, , .		0