Alessandro Grillo

List of Publications by Citations

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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.

31 papers	528 citations	12 h-index	22 g-index
34 ext. papers	754 ext. citations	5.2 avg, IF	4.18 L-index

#	Paper	IF	Citations
31	Asymmetric Schottky Contacts in Bilayer MoS2 Field Effect Transistors. *Advanced Functional Materials*, **2018**, 28, 1800657	15.6	119
30	Pressure-Tunable Ambipolar Conduction and Hysteresis in Thin Palladium Diselenide Field Effect Transistors. *Advanced Functional Materials*, **2019**, 29, 1902483	15.6	65
29	Gas dependent hysteresis in MoS 2 field effect transistors. *2D Materials*, **2019**, 6, 045049	5.9	47
28	Field Emission in Ultrathin PdSe2 Back-Gated Transistors. *Advanced Electronic Materials*, **2020**, 6, 2000096	6.4	35
27	Contact resistance and mobility in back-gate graphene transistors. *Nano Express*, **2020**, 1, 010001	2	28
26	Field Emission Characterization of MoS Nanoflowers. *Nanomaterials*, **2019**, 9,	5.4	24
25	High field-emission current density from Ga2O3 nanopillars. *Applied Physics Letters*, **2019**, 114, 193101	3.4	23
24	Observation of 2D Conduction in Ultrathin Germanium Arsenide Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 12998-13004	9.5	22
23	Bias Tunable Photocurrent in Metal-Insulator-Semiconductor Heterostructures with Photoresponse Enhanced by Carbon Nanotubes. *Nanomaterials*, **2019**, 9,	5.4	20
22	Electron Irradiation of Metal Contacts in Monolayer MoS Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 40532-40540	9.5	18
21	WS Nanotubes: Electrical Conduction and Field Emission Under Electron Irradiation and Mechanical Stress. *Small*, **2020**, 16, e2002880	11	16
20	Coexistence of Negative and Positive Photoconductivity in Few-Layer PtSe2 Field-Effect Transistors. *Advanced Functional Materials*,2105722	15.6	14
19	Graphene Schottky Junction on Pillar Patterned Silicon Substrate. *Nanomaterials*, **2019**, 9,	5.4	12
18	Gate-Controlled Field Emission Current from MoS2 Nanosheets. *Advanced Electronic Materials*, **2021**, 7, 2000838	6.4	12
17	A Current–Voltage Model for Double Schottky Barrier Devices. *Advanced Electronic Materials*, **2021**, 7, 2000979	6.4	10
16	Graphene-Silicon Device for Visible and Infrared Photodetection. *ACS Applied Materials & Interfaces*, **2021**, 13, 47895-47903	9.5	10
15	Impact of Impurities on the Electrical Conduction of Anisotropic Two-Dimensional Materials. *Physical Review Applied*, **2020**, 13,	4.3	9

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14	Environmental effects on transport properties of PdSe2 field effect transistors. *Materials Today: Proceedings*, **2020**, 20, 50-53	1.4	9
13	Field Emission Characteristics of InSb Patterned Nanowires. *Advanced Electronic Materials*, **2020**, 6, 2000402	6.2	8
12	Field emission from two-dimensional GeAs. *Journal Physics D: Applied Physics*, **2021**, 54, 105302	3	7
11	Effect of silicon doping on graphene/silicon Schottky photodiodes. *Materials Today: Proceedings*, **2020**, 20, 82-86	1.4	7
10	Field emission from mono and two-dimensional nanostructures. *Materials Today: Proceedings*, **2020**, 20, 64-68	1.4	3
9	Memory effects in black phosphorus field effect transistors. *2D Materials*, **2022**, 9, 015028	5.9	3
8	Electrical Conduction and Photoconduction in PtSe2 Ultrathin Films. *Materials Proceedings*, **2021**, 4, 28	0.3	2
7	Air Pressure, Gas Exposure and Electron Beam Irradiation of 2D Transition Metal Dichalcogenides. *Applied Sciences (Switzerland)*, **2020**, 10, 5840	2.6	2
6	Persistent Photoconductivity, Hysteresis and Field Emission in MoS2 Back-Gate Field-Effect Transistors **2018**,		2
5	Field Emission from Graphene Layers. *Lecture Notes in Electrical Engineering*, **2023**, 213-220	0.2	1
4	Sensors Based on Multiwalled Carbon Nanotubes. *Materials Proceedings*, **2021**, 4, 59	0.3	0
3	Temperature Dependence of Germanium Arsenide Field-Effect Transistors Electrical Properties. *Materials Proceedings*, **2021**, 4, 26	0.3	
2	Molybdenum Disulfide Field Effect Transistors under Electron Beam Irradiation and External Electric Fields. *Materials Proceedings*, **2021**, 4, 25	0.3	
1	Direct Contacting of 2D Nanosheets by Metallic Nanoprobes. *Materials Proceedings*, **2021**, 4, 16	0.3	