Francesca Urban

List of Publications by Year
in descending order

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41 papers	1,349 citations	361045 20 h-index	360668 35 g-index
43 all docs	43 docs citations	43 times ranked	1483 citing authors

#	Article	IF	Citations
1	Asymmetric Schottky Contacts in Bilayer MoS₂ Field Effect Transistors. Advanced Functional Materials, 2018, 28, 1800657.	7.8	162
2	Field Emission from Carbon Nanostructures. Applied Sciences (Switzerland), 2018, 8, 526.	1.3	125
3	A WSe₂ vertical field emission transistor. Nanoscale, 2019, 11, 1538-1548.	2.8	100
4	Pressureâ€Tunable Ambipolar Conduction and Hysteresis in Thin Palladium Diselenide Field Effect Transistors. Advanced Functional Materials, 2019, 29, 1902483.	7.8	98
5	Gas dependent hysteresis in MoS ₂ field effect transistors. 2D Materials, 2019, 6, 045049.	2.0	79
6	Transport and Field Emission Properties of MoS2 Bilayers. Nanomaterials, 2018, 8, 151.	1.9	70
7	Grapheneâ€“Silicon Schottky Diodes for Photodetection. IEEE Nanotechnology Magazine, 2018, 17, 1133-1137.	1.1	69
8	Field Emission in Ultrathin PdSe₂ Backâ€Gated Transistors. Advanced Electronic Materials, 2020, 6, 2000094.	2.6	66
9	Environmental Effects on the Electrical Characteristics of Back-Gated WSe2 Field-Effect Transistors. Nanomaterials, 2018, 8, 901.	1.9	58
10	Contact resistance and mobility in back-gate graphene transistors. Nano Express, 2020, 1, 010001.	1.2	55
11	Effect of Electron Irradiation on the Transport and Field Emission Properties of Few-Layer MoS₂ Field-Effect Transistors. Journal of Physical Chemistry C, 2019, 123, 1454-1461.	1.5	51
12	Electron Irradiation of Metal Contacts in Monolayer MoS₂ Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 40532-40540.	4.0	44
13	Field Emission Characterization of MoS2 Nanoflowers. Nanomaterials, 2019, 9, 717.	1.9	40
14	Observation of 2D Conduction in Ultrathin Germanium Arsenide Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 12998-13004.	4.0	40
15	Gateâ€Controlled Field Emission Current from MoS₂ Nanosheets. Advanced Electronic Materials, 2021, 7, 2000838.	2.6	37
16	High field-emission current density from Î²-Ga2O3 nanopillars. Applied Physics Letters, 2019, 114, .	1.5	33
17	Bias Tunable Photocurrent in Metal-Insulator-Semiconductor Heterostructures with Photoresponse Enhanced by Carbon Nanotubes. Nanomaterials, 2019, 9, 1598.	1.9	29
18	Electron irradiation of multilayer PdSe₂ field effect transistors. Nanotechnology, 2020, 31, 375204.	1.3	28

#	Article	IF	Citations
19	Isotropic conduction and negative photoconduction in ultrathin PtSe2 films. Applied Physics Letters, 2020, 117, 193102.	1.5	25
20	Nanotip Contacts for Electric Transport and Field Emission Characterization of Ultrathin MoS2 Flakes. Nanomaterials, 2020, 10, 106.	1.9	25
21	Field Emission Characteristics of InSb Patterned Nanowires. Advanced Electronic Materials, 2020, 6, 2000402.	2.6	18
22	Environmental effects on transport properties of PdSe2 field effect transistors. Materials Today: Proceedings, 2020, 20, 50-53.	0.9	15
23	Space charge limited current and photoconductive effect in few-layer MoS₂. Journal of Physics: Conference Series, 2019, 1226, 012013.	0.3	14
24	Magnetotransport and magnetic properties of amorphous $$mathrm{NdNi}_5$$ thin films. Scientific Reports, 2020, 10, 13693.	1.6	9
25	Effect of silicon doping on graphene/silicon Schottky photodiodes. Materials Today: Proceedings, 2020, 20, 82-86.	0.9	8
26	Influence of the Thermomechanical Characteristics of Low-Density Polyethylene Substrates on the Thermoresistive Properties of Graphite Nanoplatelet Coatings. Coatings, 2021, 11, 332.	1.2	8
27	Thermoresistive Properties of Graphite Platelet Films Supported by Different Substrates. Materials, 2019, 12, 3638.	1.3	7
28	Persistent Photoconductivity, Hysteresis and Field Emission in MoS2 Back-Gate Field-Effect Transistors. , 2018, , .		5
29	Two-dimensional effects in Fowler-Nordheim field emission from transition metal dichalcogenides. Journal of Physics: Conference Series, 2019, 1226, 012018.	0.3	5
30	Air Pressure, Gas Exposure and Electron Beam Irradiation of 2D Transition Metal Dichalcogenides. Applied Sciences (Switzerland), 2020, 10, 5840.	1.3	5
31	PtSe₂ phototransistors with negative photoconductivity. Journal of Physics: Conference Series, 2021, 1866, 012001.	0.3	5
32	Field emission from mono and two-dimensional nanostructures. Materials Today: Proceedings, 2020, 20, 64-68.	0.9	4
33	Electrical transport in two-dimensional PdSe2 and Mos2 nanosheets. , 2020, , .		3
34	Electrical Conduction and Photoconduction in PtSe2 Ultrathin Films. Materials Proceedings, 2020, 4, .	0.2	2
35	Vacuum Gauge from Ultrathin MoS2 Transistor. Lecture Notes in Electrical Engineering, 2021, , 45-53.	0.3	1
36	Temperature Dependence of Germanium Arsenide Field-Effect Transistors Electrical Properties. Materials Proceedings, 2021, 4, 26.	0.2	1

#	Article	IF	Citations
37	Sensors Based on Multiwalled Carbon Nanotubes. Materials Proceedings, 2021, 4, 59.	0.2	1
38	Structural and Electrical Properties of Graphite Platelet Films Deposited on Low-Density Polyethylene Substrate. Materials Proceedings, 2020, 4, .	0.2	0
39	Molybdenum Disulfide Field Effect Transistors under Electron Beam Irradiation and External Electric Fields. Materials Proceedings, 2021, 4, 25.	0.2	0
40	Direct Contacting of 2D Nanosheets by Metallic Nanoprobes. Materials Proceedings, 2020, 4, .	0.2	0
41	Role of disorder in the superconducting proximity effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>a</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>Nd</mml:mi> bilayers. Physical Review B, 2021, 104, .	1.1	0