

# Abdelouahad El Fatimy

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,473  
citations

361413

20  
h-index

414414

32  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorene"an emerging two-dimensional material: recent advances in synthesis, functionalization, and applications. 2D Materials, 2022, 9, 032001.	4.4	25
2	Adjustment of Terahertz Properties Assigned to the First Lowest Transition of (D+, X) Excitonic Complex in a Single Spherical Quantum Dot Using Temperature and Pressure. Applied Sciences (Switzerland), 2021, 11, 5969.	2.5	4
3	Nanostructured graphene for nanoscale electron paramagnetic resonance spectroscopy. JPhys Materials, 2020, 3, 014013.	4.2	11
4	Effect of defect-induced cooling on graphene hot-electron bolometers. Carbon, 2019, 154, 497-502.	10.3	15
5	Ambient effects on photogating in MoS <sub>2</sub> photodetectors. Nanotechnology, 2019, 30, 284004.	2.6	36
6	Ultra-broadband photodetectors based on epitaxial graphene quantum dots. Nanophotonics, 2018, 7, 735-740.	6.0	28
7	Highly sensitive MoS <sub>2</sub> photodetectors with graphene contacts. Nanotechnology, 2018, 29, 20LT01.	2.6	38
8	Nanostructured epitaxial graphene for ultra-broadband optoelectronic detectors (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462		
9	Epitaxial graphene quantum dots for high-performance terahertz bolometers. Nature Nanotechnology, 2016, 11, 335-338.	31.5	116
10	Nanotransistor based THz plasma detectors: low temperatures, graphene, linearity, and circular polarization studies. , 2013, , .		2
11	Temperature, back gate and polarization studies in nanotransistor based THz plasma detectors. , 2013, , .		0
12	Field Effect Transistors for Terahertz Detection and Emission. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 618-628.	2.2	40
13	Terahertz detection by field effect transistors security imaging. Proceedings of SPIE, 2011, , .	0.8	0
14	THz Emission Related to Hot Plasmons and Plasma Wave Instability in Field Effect Transistors. Acta Physica Polonica A, 2011, 120, 924-926.	0.5	2
15	Terahertz Detection of Quantum Cascade Laser Emission by Plasma Waves in Field Effect Transistors. Acta Physica Polonica A, 2011, 120, 930-932.	0.5	1
16	Plasma excitations in field effect transistors for terahertz detection and emission. Comptes Rendus Physique, 2010, 11, 433-443.	0.9	12
17	Tunable room temperature THz emission from AlGaIn/GaN high electron mobility transistors. , 2010, , .		0
18	THz communication system based on a THz Quantum Cascade Laser and a Hot Electron Bolometer. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
19	AlGaIn/GaN high electron mobility transistors as a voltage-tunable room temperature terahertz sources. Journal of Applied Physics, 2010, 107, .	2.5	133
20	Room temperature Terahertz hot electron bolometric detector based on AlGaAs/GaAs two dimensional electron gas. , 2010, , .		0
21	Field Effect Transistors for Terahertz Detection: Physics and First Imaging Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1319.	2.2	199
22	Field effect transistors for terahertz imaging. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2828-2833.	0.8	9
23	Broadband terahertz imaging of documents written with lead pencils. Optics Communications, 2009, 282, 3104-3107.	2.1	54
24	Plasma wave field effect transistor as a resonant detector for 1 terahertz imaging applications. Optics Communications, 2009, 282, 3055-3058.	2.1	28
25	Terahertz plasmon-resonant microchip emitters and their possible sensing and spectroscopic applications. , 2009, , .		2
26	Application of plasmon-resonant microchip emitters to broadband terahertz spectroscopic measurement. Journal of the Optical Society of America B: Optical Physics, 2009, 26, A52.	2.1	21
27	Tunable room temperature terahertz sources based on two dimensional plasma instability in GaN HEMTs. Journal of Physics: Conference Series, 2009, 193, 012072.	0.4	2
28	Plasmon-resonant Microchip Emitters and Their Applications to Terahertz Spectroscopy. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2009, 5, 341-345.	0.4	0
29	Plasma oscillations in nanotransistors for room temperature detection and emission of terahertz radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 244-248.	0.8	13
30	Nitride based nanotransistors as new sources and detectors of THz radiations. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1947-1949.	0.8	1
31	Terahertz imaging with GaAs field-effect transistors. Electronics Letters, 2008, 44, 408.	1.0	54
32	Broadening of the plasmon resonance due to plasmon-plasmon intermode scattering in terahertz high-electron-mobility transistors. Applied Physics Letters, 2008, 93, .	3.3	27
33	Plasmon-plasmon scattering in two-dimensional electron channel of a terahertz nanotransistor. , 2008, , .		0
34	Room temperature terahertz imaging by a GaAs-HEMT transistor associated with a THz time domain spectrometer. , 2008, , .		0
35	Terahertz Emission from Collapsing Field Domains during Switching of a Gallium Arsenide Bipolar Transistor. Physical Review Letters, 2007, 99, 176601.	7.8	30
36	Room temperature detection and emission of Terahertz radiation by plasma oscillations in nanometer size transistors. , 2007, , .		3

#	ARTICLE	IF	CITATIONS
37	Plasma wave resonant detection of terahertz radiations by nanometric transistors. Low Temperature Physics, 2007, 33, 291-294.	0.6	14
38	Room temperature tunable detection of subterahertz radiation by plasma waves in nanometer InGaAs transistors. Applied Physics Letters, 2006, 89, 222109.	3.3	67
39	Resonant and voltage-tunable terahertz detection in InGaAs~InP nanometer transistors. Applied Physics Letters, 2006, 89, 131926.	3.3	192
40	Plasma Wave HEMTs for THz applications. , 2006, , .		0
41	Terahertz detection by GaN/AlGaIn transistors. Electronics Letters, 2006, 42, 1342.	1.0	96
42	Electron mobility in quasi-ballistic Si MOSFETs. Solid-State Electronics, 2006, 50, 632-636.	1.4	24
43	Room-temperature terahertz emission from nanometer field-effect transistors. Applied Physics Letters, 2006, 88, 141906.	3.3	122
44	Room-temperature terahertz emission from nanometer field-effect transistors. , 2006, , .		2
45	Terahertz Detection Related to Plasma Excitations in Nanometer Gate Length Field Effect Transistor.. Materials Research Society Symposia Proceedings, 2006, 958, 1.	0.1	0
46	Terahertz Emission and Detection by Plasma Waves in Nanometer Size Field Effect Transistors. IEICE Transactions on Electronics, 2006, E89-C, 926-930.	0.6	2
47	Ballistic and pocket limitations of mobility in nanometer Si metal-oxide semiconductor field-effect transistors. Applied Physics Letters, 2005, 87, 053507.	3.3	44
48	Influence of ballistic and pocket effects on electron mobility in si MOSFETs. , 0, , .		2