

Daniela Dragoman

List of Publications by Year in Descending Order

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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.

141
papers

1,958
citations

18
h-index

40
g-index

145
ext. papers

2,340
ext. citations

2.8
avg, IF

5.24
L-index

#	Paper	IF	Citations
141	Oxygen-vacancy induced ferroelectricity in nitrogen-doped nickel oxide. <i>Journal of Applied Physics</i> , 2022 , 131, 164304	2.5	
140	Perspectives on Atomic-Scale Switches for High-Frequency Applications Based on Nanomaterials. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
139	Plasmonic slot waveguide circuits for pulse shaping. <i>Optik</i> , 2021 , 231, 166419	2.5	
138	Multifunctionalities of 2D MoS2 self-switching diode as memristor and photodetector. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 126, 114451	3	7
137	Phase-controlling infrared thermal emitting metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 035103	1.7	1
136	HfO2-Based Ferroelectrics Applications in Nanoelectronics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000521	2.5	8
135	Reconfigurable logic gates in nanowires with Rashba spin-orbit interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 120, 114064	3	
134	Graphene bandgap induced by ferroelectric HfO doped with Zr (HfZrO). <i>Nanotechnology</i> , 2020 , 31, 275202	3.4	5
133	Electrical rectification in asymmetric graphene nanoribbons with pores. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114240	3	2
132	Wafer-scale graphene-ferroelectric HfO/Ge-HfO/HfO transistors acting as three-terminal memristors. <i>Nanotechnology</i> , 2020 , 31, 495207	3.4	4
131	Reduced Graphene Oxide Sheets as Inhibitors of the Photochemical Reactions of α -Lipoic Acid in the Presence of Ag and Au Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
130	Memtransistors Based on Nanopatterned Graphene Ferroelectric Field-Effect Transistors. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
129	Reconfigurable horizontal-vertical carrier transport in graphene/HfZrO field-effect transistors. <i>Nanotechnology</i> , 2020 , 31, 025203	3.4	1
128	A Ballistic Transport Model for an Artificial Neuron. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900936	1.6	
127	Ballistic 3-port interferometric logic gates in the quantum Hall regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 109, 144-151	3	3
126	Graphene bandgap induced by ferroelectric Pca2 HfO substrates: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15001-15006	3.6	10
125	Reconfigurable quantum logic gates using Rashba controlled spin polarized currents. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 111, 13-19	3	3

124	Sensing up to 40 atm Using Pressure-Sensitive Aero-GaN. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900012	2.5	11
123	2D Materials Nanoelectronics: New Concepts, Fabrication, Characterization From Microwaves up to Optical Spectrum. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800724	1.6	16
122	Electric and thermoelectric properties of graphene bilayers with extrinsic impurities under applied electric field. <i>Physica B: Condensed Matter</i> , 2019 , 561, 9-15	2.8	3
121	Ring-Shaped Plasmonic Logic Gates. <i>Plasmonics</i> , 2019 , 14, 71-78	2.4	5
120	Terahertz shielding properties of aero-GaN. <i>Semiconductor Science and Technology</i> , 2019 , 34, 12LT02	1.8	8
119	Photoconductive Behavior of the PPV/RGO Composites: Insights of Charge Transfer Process. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800392	1.3	4
118	Reconfigurable Plasmonic Logic Gates. <i>Plasmonics</i> , 2018 , 13, 2189-2195	2.4	9
117	Wafer-Scale Fabrication and Room-Temperature Experiments on Graphene-Based Gates for Quantum Computation. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 362-367	2.6	5
116	Wafer-scale very large memory windows in graphene monolayer/HfZrO ferroelectric capacitors. <i>Nanotechnology</i> , 2018 , 29, 425204	3.4	9
115	Current rectification effects in 6 nm thick HfxZr1-xOy ferroelectrics/Si planar heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 104, 241-246	3	2
114	Electromagnetic energy harvesting based on HfZrO tunneling junctions. <i>Nanotechnology</i> , 2018 , 29, 445204	3.4	5
113	Ballistic transport in graphene Y-junctions in transverse electric field. <i>Nanotechnology</i> , 2018 , 29, 355202	3.4	4
112	Solving the graphene electronics conundrum: High mobility and high on-off ratio in graphene nanopatterned transistors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 296-301	3	6
111	Tunable fractional Fourier transform implementation of electronic wave functions in atomically thin materials. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1828-1833	3	1
110	Learning mechanisms in memristor networks based on GaN nanomembranes. <i>Journal of Applied Physics</i> , 2018 , 124, 152110	2.5	6
109	Electric field effect in boron and nitrogen doped graphene bilayers. <i>Computational Materials Science</i> , 2018 , 155, 175-179	3.2	11
108	Tunable dielectric properties in polyacrylonitrile/multiwall carbon nanotube composites. <i>Polymer Composites</i> , 2017 , 38, 1741-1748	3	6
107	Fault-tolerant bandstructure of two-dimensional square photonic crystals with different dielectric rod shapes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017 , 24, 12-17	2.6	

106	Extraordinary tunability of high-frequency devices using Hf _{0.3} Zr _{0.7} O ₂ ferroelectric at very low applied voltages. <i>Applied Physics Letters</i> , 2017 , 110, 103104	3.4	25
105	Characterization of optical fields with quantized orbital angular momentum by invariants of higher order moments of radial coordinates. <i>Journal of Modern Optics</i> , 2017 , 64, 2328-2335	1.1	0
104	Very large phase shift of microwave signals in a 6 nm Hf Zr O ferroelectric at ≈ 3 V. <i>Nanotechnology</i> , 2017 , 28, 38LT04	3.4	19
103	Influence of TiO and Si on the exciton-phonon interaction in Pbl and CdS semiconductors evidenced by Raman spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 365702	1.8	3
102	Plasmonic ambient light sensing with MoS ₂ -graphene heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 85, 164-168	3	6
101	Ultra-lightweight pressure sensor based on graphene aerogel decorated with piezoelectric nanocrystalline films. <i>Nanotechnology</i> , 2016 , 27, 475203	3.4	12
100	Ballistic electron propagation through periodic few-layer graphene nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 84, 60-70	3	1
99	Ballistic electron transport in wrinkled superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 81, 131-135	3	1
98	Room temperature on-wafer ballistic graphene field-effect-transistor with oblique double-gate. <i>Journal of Applied Physics</i> , 2016 , 119, 244305	2.5	8
97	Memristive GaN ultrathin suspended membrane array. <i>Nanotechnology</i> , 2016 , 27, 295204	3.4	8
96	MoS ₂ thin films as electrically tunable materials for microwave applications. <i>Applied Physics Letters</i> , 2015 , 107, 243109	3.4	15
95	Graphene-based room-temperature implementation of a modified Deutsch-Jozsa quantum algorithm. <i>Nanotechnology</i> , 2015 , 26, 485201	3.4	6
94	Negative differential resistance in graphene-based ballistic field-effect transistor with oblique top gate. <i>Nanotechnology</i> , 2014 , 25, 415201	3.4	19
93	Low-energy equivalence between periodically gated graphene structures and bilayer-like gated graphene. <i>Applied Physics Letters</i> , 2014 , 104, 183110	3.4	2
92	Smart antennas based on graphene. <i>Journal of Applied Physics</i> , 2014 , 116, 114302	2.5	17
91	Memory effect in carbon quantum DOT/BE1500N composites. <i>Current Applied Physics</i> , 2014 , 14, 1625-1632		5
90	Effects of graded distribution of scattering centers on ballistic transport. <i>Journal of Applied Physics</i> , 2014 , 116, 124316	2.5	2
89	Enhanced architectures for room-temperature reversible logic gates in graphene. <i>Applied Physics Letters</i> , 2014 , 105, 113109	3.4	5

88	Ballistic charge carrier transmission through graphene multi-barrier structures in uniform magnetic field. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 425302	3	3
87	Effect of Schrödinger-Dirac transformations on electron transport in graphene-based structures surrounded by conducting regions. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 245301	3	1
86	Graphene as a high impedance surface for ultra-wideband electromagnetic waves. <i>Journal of Applied Physics</i> , 2013 , 114, 184308	2.5	17
85	Enhancement of higher harmonics in graphene-based coupled coplanar line microwave multipliers. <i>Journal of Applied Physics</i> , 2013 , 114, 154304	2.5	6
84	Finite oscillator obtained through finite frame quantization. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 355301	2	2
83	Dirac-Schrödinger transformations in contacted graphene structures. <i>Journal of Applied Physics</i> , 2013 , 113, 214312	2.5	4
82	Berry phase and traversal time in asymmetric graphene structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 816-820	3	5
81	Applications of multi-barrier structures in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1687-1691	3	5
80	Properties of finite Gaussians and the discrete-continuous transition. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 425305	2	7
79	Graphene-like metal-on-silicon field-effect transistor. <i>Nanotechnology</i> , 2012 , 23, 305201	3.4	3
78	Composite metamaterial for ballistic electrons. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 485104	3	0
77	Terahertz generation using a resonant-tunneling-like configuration in graphene. <i>Journal of Applied Physics</i> , 2011 , 109, 124307	2.5	7
76	Complex conjugate media: Alternative configurations for miniaturized lasers. <i>Optics Communications</i> , 2011 , 284, 2095-2098	2	21
75	DNA hybridization detection in a miniaturized electromagnetic band gap resonator. <i>Applied Physics Letters</i> , 2011 , 99, 253106	3.4	8
74	Ultrabroadband photodetection based on graphene ink. <i>Nanotechnology</i> , 2010 , 21, 455202	3.4	12
73	Terahertz antenna based on graphene. <i>Journal of Applied Physics</i> , 2010 , 107, 104313	2.5	116
72	Graphene for Microwaves. <i>IEEE Microwave Magazine</i> , 2010 , 11, 81-86	1.2	74
71	Microwave switching of graphene field effect transistor at and far from the Dirac point. <i>Applied Physics Letters</i> , 2010 , 96, 103105	3.4	11

70	Multiple negative differential resistances in crossed carbon nanotubes. <i>Journal of Applied Physics</i> , 2009 , 105, 114303	2.5	2
69	Writing simple RF electronic devices on paper with carbon nanotube ink. <i>Nanotechnology</i> , 2009 , 20, 375203	3.4	41
68	Graphene-based quantum electronics. <i>Progress in Quantum Electronics</i> , 2009 , 33, 165-214	9.1	86
67	Relativistic aberrations in quantum phase space. <i>Optics Communications</i> , 2009 , 282, 1042-1046	2	1
66	Classical versus complex fractional Fourier transformation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 274-7	1.8	10
65	Terahertz Bloch oscillations in periodic graphene structures. <i>Applied Physics Letters</i> , 2008 , 93, 103105	3.4	16
64	Plasmonics: Applications to nanoscale terahertz and optical devices. <i>Progress in Quantum Electronics</i> , 2008 , 32, 1-41	9.1	149
63	The AharonovBohm effect in the momentum space. <i>Optics Communications</i> , 2008 , 281, 2685-2689	2	1
62	Giant thermoelectric effect in graphene. <i>Applied Physics Letters</i> , 2007 , 91, 203116	3.4	203
61	Negative differential resistance of electrons in graphene barrier. <i>Applied Physics Letters</i> , 2007 , 90, 143113	3.4	86
60	Physical mechanism of negative differential conductance in substrateless metallic carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 36, 158-162	3	6
59	Metamaterials for ballistic electrons. <i>Journal of Applied Physics</i> , 2007 , 101, 104316	2.5	12
58	Modeling of rf energy sensing and harvesting using the giant thermoelectric effect in carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 91, 173117	3.4	6
57	Proposal for multiple-valued logic in gated semiconducting carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 33, 178-181	3	3
56	Spin-polarized beam splitter for ballistic electrons. <i>Physica B: Condensed Matter</i> , 2005 , 367, 92-100	2.8	3
55	Terahertz continuous wave amplification in semiconductor carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 25, 492-496	3	19
54	Phase Space Formulation of Quantum Mechanics. Insight into the Measurement Problem. <i>Physica Scripta</i> , 2005 , 72, 290-296	2.6	8
53	Terahertz fields and applications. <i>Progress in Quantum Electronics</i> , 2004 , 28, 1-66	9.1	278

52	Terahertz oscillations in semiconducting carbon nanotube resonant-tunneling diodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 24, 282-289	3	36
51	Time-frequency signal processing of terahertz pulses. <i>Applied Optics</i> , 2004 , 43, 3848-53	1.7	7
50	Noninterferometric and nontomographic iterative method for field retrieval. <i>Applied Optics</i> , 2004 , 43, 4208-13	1.7	1
49	Biased micromechanical cantilever arrays as optical image memory. <i>Applied Optics</i> , 2003 , 42, 1515-9	1.7	3
48	Redundancy of phase-space distribution functions in complex field recovery problems. <i>Applied Optics</i> , 2003 , 42, 1932-7	1.7	11
47	Correlation-based phase space beam characterization. <i>Applied Optics</i> , 2003 , 42, 4147-51	1.7	1
46	Reconfigurable electro-optical waveguide for optical processing. <i>Applied Optics</i> , 2003 , 42, 6439-44	1.7	3
45	Unambiguous coherence retrieval from intensity measurements. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 290-5	1.8	6
44	Single-chip device for tunneling time measurements. <i>Journal of Applied Physics</i> , 2003 , 93, 6133-6136	2.5	6
43	Tunable fractional Fourier transformer for ballistic electrons. <i>Journal of Applied Physics</i> , 2003 , 94, 4131-4134	2.5	4
42	Carbon nanotube zoom lenses. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 93-96	2.6	
41	The asymmetry of the tunneling time in type II semiconductor heterostructures. <i>Optical and Quantum Electronics</i> , 2002 , 34, 1097-1109	2.4	1
40	n-step optical simulation of the n-qubit state: Applications in optical computing. <i>Optik</i> , 2002 , 113, 425-428	2.5	6
39	Tomographic amplitude and phase recovery of vertical-cavity surface-emitting lasers by use of the ambiguity function. <i>Optics Letters</i> , 2002 , 27, 1519-21	3	10
38	Amplitude and phase recovery of rotationally symmetric beams. <i>Applied Optics</i> , 2002 , 41, 5512-8	1.7	7
37	Proposal for a three-qubit teleportation experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 288, 121-124	2.3	2
36	Micro/nano-optoelectromechanical systems. <i>Progress in Quantum Electronics</i> , 2001 , 25, 229-290	9.1	17
35	Quantum coherent versus classical coherent light. <i>Optical and Quantum Electronics</i> , 2001 , 33, 239-252	2.4	3

34	Quantum interference as phase space filtering. <i>Optik</i> , 2001 , 112, 31-36	2.5	5
33	The interference term in the Wigner distribution function and the Aharonov-Bohm effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 285, 109-114	2.3	8
32	Terahertz field characterization using Fabry-Perot-like cantilevers. <i>Applied Physics Letters</i> , 2001 , 79, 581-583	2.5	6
31	On the similarities between the Wigner distribution function in classical and quantum optics. <i>Optik</i> , 2001 , 112, 497-501	2.5	4
30	One-step measurement of optical fields in multimode circular fibers. <i>Applied Optics</i> , 2001 , 40, 4655-60	1.7	
29	The formulation of Fermi's golden rule in phase space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 274, 93-97	2.3	7
28	Optical analogue of a type II semiconductor heterostructure. <i>Journal of Applied Physics</i> , 2000 , 88, 1-6	2.5	32
27	Can the Wigner transform of a two-dimensional rotationally symmetric beam be fully recovered from the Wigner transform of its one-dimensional approximation?. <i>Optics Letters</i> , 2000 , 25, 281-3	3	6
26	Analytical treatment of wave packet tunneling through a resonant double barrier heterostructure. <i>Journal of Applied Physics</i> , 1999 , 86, 2677-2683	2.5	4
25	Band-engineered semiconductor optical waveguides for integral transform implementation. <i>Journal of Applied Physics</i> , 1999 , 85, 3409-3412	2.5	1
24	Optical analogue structures to mesoscopic devices. <i>Progress in Quantum Electronics</i> , 1999 , 23, 131-188	9.1	55
23	Tunneling time asymmetry in semiconductor heterostructures. <i>IEEE Journal of Quantum Electronics</i> , 1999 , 35, 1887-1893	2	10
22	Variant fractional Fourier transformer for optical pulses. <i>Optics Letters</i> , 1999 , 24, 933-5	3	9
21	Optical modelling of quantum dots. <i>Optics Communications</i> , 1998 , 150, 331-338	2	6
20	Temporal implementation of Fourier-related transforms. <i>Optics Communications</i> , 1998 , 145, 33-37	2	18
19	Recovery of longitudinally variant refractive index profile from the measurement of the Wigner transform. <i>Optics Communications</i> , 1998 , 153, 360-367	2	3
18	Hemispherical-rod microlens as a variant fractional Fourier transformer. <i>Optics Letters</i> , 1998 , 23, 1499-501		6
17	The relation between light diffraction and the fractional Fourier transform. <i>Journal of Modern Optics</i> , 1998 , 45, 2117-2124	1.1	2

16	Time-frequency characterization of magnetostatic envelope soliton waves. <i>Applied Physics Letters</i> , 1997 , 70, 714-716	3.4	1
15	Beam-propagation method based on the Wigner transform: a new formulation. <i>Optics Letters</i> , 1997 , 22, 1050-2	3	2
14	Optical modeling of quantum wire arrays. <i>IEEE Journal of Quantum Electronics</i> , 1997 , 33, 375-381	2	8
13	Near and far field optical beam characterization using the fractional Fourier transform. <i>Optics Communications</i> , 1997 , 141, 5-9	2	9
12	Wigner distribution function expression for the tunnelling time in quantum resonant structures. <i>Optical and Quantum Electronics</i> , 1997 , 29, 79-82	2.4	5
11	The modeling of the quantum tunneling time through heterostructures using optical layered media. <i>Optics Communications</i> , 1997 , 133, 129-134	2	8
10	Phase space characterization of solitons with the Wigner transform. <i>Optics Communications</i> , 1997 , 137, 437-444	2	3
9	Time-frequency modeling of atomic force microscopy. <i>Optics Communications</i> , 1997 , 140, 220-225	2	1
8	Integrated optic-devices characterization with the Wigner transform. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996 , 2, 181-186	3.8	4
7	Tunneling-time asymmetry in resonant quantum structures. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1150-1154	2	22
6	Tunneling-time properties in type II quantum resonant structures. <i>IEEE Journal of Quantum Electronics</i> , 1996 , 32, 1932-1936	2	3
5	The Wigner distribution function and the energy conservation of a light beam. <i>Journal of Modern Optics</i> , 1996 , 43, 1127-1133	1.1	3
4	The Wigner distribution function of self-Fourier functions. <i>Journal of Modern Optics</i> , 1996 , 43, 1933-1938	1.1	6
3	Calculation of the tunneling time through type II resonant heterostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 210, 121-124	2.3	8
2	Fractional Fourier-related functions. <i>Optics Communications</i> , 1996 , 128, 91-98	2	7
1	Phase Space Representation of Modes in Optical Waveguides. <i>Journal of Modern Optics</i> , 1995 , 42, 1815-1823	1.1	8