

Juliette Mangeney

List of Publications by Year in descending order

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168
papers

1,909
citations

331670

21
h-index

302126

39
g-index

170
all docs

170
docs citations

170
times ranked

2039
citing authors

#	ARTICLE	IF	CITATIONS
1	High speed and high responsivity germanium photodetector integrated in a Silicon-On-Insulator microwaveguide. Optics Express, 2007, 15, 9843.	3.4	196
2	Terahertz radiation from heavy-ion-irradiated In _{0.53} Ga _{0.47} As photoconductive antenna excited at 1.55 μm. Applied Physics Letters, 2005, 87, 193510.	3.3	90
3	Terahertz intersubband absorption in GaN/AlGaN step quantum wells. Applied Physics Letters, 2010, 97, .	3.3	87
4	Terahertz Generation by Dynamical Photon Drag Effect in Graphene Excited by Femtosecond Optical Pulses. Nano Letters, 2014, 14, 5797-5802.	9.1	84
5	Ultrahigh speed germanium-on-silicon-on-insulator photodetectors for 1.31 and 1.55 μm operation. Applied Physics Letters, 2005, 87, 231109.	3.3	81
6	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. Laser and Photonics Reviews, 2017, 11, 1700013.	8.7	67
7	Continuous wave terahertz generation up to 2THz by photomixing on ion-irradiated In _{0.53} Ga _{0.47} As at 1.55 μm wavelengths. Applied Physics Letters, 2007, 91, .	3.3	58
8	20 THz broadband generation using semi-insulating GaAs interdigitated photoconductive antennas. Optics Express, 2014, 22, 26358.	3.4	58
9	Ultrafast spin-currents and charge conversion at 3d-5d interfaces probed by time-domain terahertz spectroscopy. Applied Physics Reviews, 2020, 7, .	11.3	57
10	Generating ultrafast pulses of light from quantum cascade lasers. Optica, 2015, 2, 944.	9.3	52
11	Ultrafast response of harmonic modelocked THz lasers. Light: Science and Applications, 2020, 9, 51.	16.6	42
12	Comparison of light- and heavy-ion-irradiated quantum-wells for use as ultrafast saturable absorbers. Applied Physics Letters, 2001, 79, 2722-2724.	3.3	34
13	Ultra-long carrier lifetime in neutral graphene-hBN van der Waals heterostructures under mid-infrared illumination. Nature Communications, 2020, 11, 863.	12.8	34
14	Femto-second electron transit time characterization in GaN/AlGaN quantum cascade detector at 1.5 micron. Applied Physics Letters, 2011, 99, .	3.3	32
15	Millimeter wave photonics with terahertz semiconductor lasers. Nature Communications, 2021, 12, 1427.	12.8	31
16	Emission characteristics of ion-irradiated In _{0.53} Ga _{0.47} As based photoconductive antennas excited at 1.55 μm. Optics Express, 2007, 15, 8943.	3.4	30
17	Ion-irradiated In _{0.53} Ga _{0.47} As photoconductive antennas for THz generation and detection at 1.55 μm wavelength. Comptes Rendus Physique, 2008, 9, 142-152.	0.9	30
18	Thermal stability of ion-irradiated InGaAs with (sub-) picosecond carrier lifetime. Applied Physics Letters, 2003, 82, 856-858.	3.3	28

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19	Direct intensity sampling of a modelocked terahertz quantum cascade laser. Applied Physics Letters, 2012, 101, .	3.3	27
20	Ultrafast response (~ 42.2 ps) of ion-irradiated InGaAs photoconductive switch at 1.55 μ m. Applied Physics Letters, 2003, 83, 5551-5553.	3.3	26
21	Subwavelength metallic waveguides as a tool for extreme confinement of THz surface waves. Scientific Reports, 2013, 3, 1369.	3.3	25
22	THz Photoconductive Antennas Made From Ion-Bombarded Semiconductors. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 455-473.	2.2	23
23	Spin Injection Efficiency at Metallic Interfaces Probed by THz Emission Spectroscopy. Advanced Optical Materials, 2021, 9, 2100412.	7.3	22
24	Field-effect transistors as electrically controllable nonlinear rectifiers for the characterization of terahertz pulses. APL Photonics, 2018, 3, .	5.7	21
25	Metal-semiconductor-metal Ge photodetectors integrated in silicon waveguides. Applied Physics Letters, 2008, 92, 151114.	3.3	20
26	High photocarrier mobility in ultrafast ion-irradiated In _{0.53} Ga _{0.47} As for terahertz applications. Journal Physics D: Applied Physics, 2009, 42, 195103.	2.8	20
27	Carrier localization in InN/InGaN multiple-quantum wells with high In-content. Applied Physics Letters, 2012, 101, 062109.	3.3	20
28	Coupling Surface Plasmon Polariton Modes to Complementary THz Metasurfaces Tuned by Inter-Metal Atom Distance. Advanced Optical Materials, 2017, 5, 1600884.	7.3	20
29	All-optical discrimination at 1.5 μ m using an ultrafast saturable absorber vertical cavity device. Electronics Letters, 2000, 36, 1486.	1.0	19
30	Terahertz radiation generated and detected by Br ⁺ -irradiated In _{0.53} Ga _{0.47} As photoconductive antenna excited at 800 nm wavelength. Applied Physics Letters, 2006, 89, 083519.	3.3	19
31	Temperature dependence of the absorption saturation relaxation time in light- and heavy-ion-irradiated bulk GaAs. Applied Physics Letters, 2002, 80, 4711-4713.	3.3	18
32	Ultrafast carrier dynamics in Br^+ -irradiated InP studied by time-resolved terahertz spectroscopy. Physical Review B, 2008, 78, .	3.3	18
33	Ultrafast relaxation and optical saturation of intraband absorption of GaN/AlN quantum dots. Applied Physics Letters, 2009, 94, .	3.3	18
34	Optical phase detection in a 4-N,N-dimethylamino-4 π -methyl-stilbazolium tosylate crystal for terahertz time domain spectroscopy system at 1.55 μ m wavelength. Applied Physics Letters, 2010, 97, .	3.3	18
35	Diffraction-limited ultrabroadband terahertz spectroscopy. Scientific Reports, 2016, 6, 24811.	3.3	18
36	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. Applied Physics Letters, 2017, 110, .	3.3	18

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37	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. <i>Physical Review Applied</i> , 2020, 13, .	3.8	18
38	Photomixing at 1.55 μm in ion-irradiated In(0.53)Ga(0.47)As on InP. <i>Optics Express</i> , 2006, 14, 1856.	3.4	17
39	THz surface plasmon modes on planar Goubau lines. <i>Optics Express</i> , 2012, 20, 8466.	3.4	16
40	Echo-Less Photoconductive Antenna Sources for High-Resolution Terahertz Time-Domain Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 20-25.	3.1	16
41	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. <i>Nature Communications</i> , 2018, 9, 3076.	12.8	16
42	Tamm Cavity in the Terahertz Spectral Range. <i>ACS Photonics</i> , 2020, 7, 2906-2914.	6.6	15
43	Sub-picosecond pulsed THz FET detector characterization in plasmonic detection regime based on autocorrelation technique. <i>Semiconductor Science and Technology</i> , 2018, 33, 124013.	2.0	14
44	Intensity-invariant subpicosecond absorption saturation in heavy-ion irradiated bulk GaAs. <i>Applied Physics Letters</i> , 1998, 73, 3715-3717.	3.3	13
45	Conduction mechanisms in ion-irradiated InGaAs layers. <i>Journal of Applied Physics</i> , 2005, 97, 063515.	2.5	13
46	Ultrafast Spin-Charge Conversion at SnBi ₂ Te ₄ /Co Topological Insulator Interfaces Probed by Terahertz Emission Spectroscopy. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	13
47	Ultra-broadband THz pulses with electric field amplitude exceeding 100 kV/cm at a 200 kHz repetition rate. <i>Optics Express</i> , 2022, 30, 15556.	3.4	13
48	Subgap optical absorption and recombination center efficiency in bulk GaAs irradiated by light or heavy ions. <i>Applied Physics Letters</i> , 2000, 76, 40-42.	3.3	12
49	Large-area photoconductive switches as emitters of terahertz pulses with fully electrically controlled linear polarization. <i>Optics Express</i> , 2019, 27, 14784.	3.4	12
50	System application of 1.5 μm ultrafast saturable absorber in 10 Gbit/s long-haul transmission. <i>Electronics Letters</i> , 2000, 36, 1725.	1.0	11
51	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. <i>Optics Express</i> , 2016, 24, 2174.	3.4	11
52	Ultrasensitive Photoresponse of Graphene Quantum Dots in the Coulomb Blockade Regime to THz Radiation. <i>Nano Letters</i> , 2020, 20, 5408-5414.	9.1	11
53	High-speed THz spectroscopic imaging at ten kilohertz pixel rate with amplitude and phase contrast. <i>Optics Express</i> , 2019, 27, 10866.	3.4	11
54	Cavity-based photoconductive sources for real-time terahertz imaging. <i>Photonics Research</i> , 2020, 8, 858.	7.0	11

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55	Demonstration of high robustness to SNR impairment in 20 Gbit/s long-haul transmission using 1.5 [micro sign]m saturable absorber. Electronics Letters, 2000, 36, 1944.	1.0	10
56	Gigahertz modulation of tunable terahertz radiation from photomixers driven at telecom wavelengths. Applied Physics Letters, 2008, 93, .	3.3	10
57	Giant optical nonlinearity interferences in quantum structures. Science Advances, 2019, 5, eaaw7554.	10.3	10
58	Few picosecond dynamics of intraband transitions in THz HgTe nanocrystals. Nanophotonics, 2021, 10, 2753-2763.	6.0	10
59	Vacuum-field-induced THz transport gap in a carbon nanotube quantum dot. Nature Communications, 2021, 12, 5490.	12.8	10
60	Spintronic THz emitters based on transition metals and semi-metals/Pt multilayers. Applied Physics Letters, 2022, 120, .	3.3	10
61	Two-port vectorial terahertz electro-optic sampling system. Applied Physics Letters, 2008, 92, .	3.3	9
62	Infrared response of a metamaterial made of gold wires and split ring resonators deposited on silicon. Optical and Quantum Electronics, 2007, 39, 273-284.	3.3	8
63	Identification of several propagation regimes for terahertz surface waves guided by planar Goubau lines. Applied Physics Letters, 2013, 103, .	3.3	8
64	Evidence of Fermi level pinning at the Dirac point in epitaxial multilayer graphene. Physical Review B, 2017, 95, .	3.2	8
65	THz active devices and applications: a survey of recent researches. , 2005, , .		7
66	Terahertz generation and power limits in In _{0.53} Ga _{0.47} As photomixer coupled to transverse-electromagnetic-horn antenna driven at 1.55â€¹¼m wavelengths. Applied Physics Letters, 2010, 97, 161109.	3.3	7
67	High permittivity processed SrTiO ₃ for metamaterials applications at terahertz frequencies. Scientific Reports, 2018, 8, 15275.	3.3	7
68	42 GHz waveguide germanium-on-silicon vertical PIN photodetector. , 2008, , .		6
69	Epitaxial growth and picosecond carrier dynamics of GaInAs/GaInNAs superlattices. Applied Physics Letters, 2009, 95, 141910.	3.3	6
70	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser (Laser Photonics Rev. 11(4)/2017). Laser and Photonics Reviews, 2017, 11, 1770042.	8.7	6
71	Electrical properties of 1.55â€¹m sensitive ion-irradiated InGaAs with subpicosecond carrier lifetime. Electronics Letters, 2003, 39, 681.	1.0	5
72	Carrier dynamics in Ga _{0.53} In _{0.47} Asâ€¹nP near-surface quantum wells. Applied Physics Letters, 2005, 87, 012107.	3.3	5

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73	Picosecond carrier lifetimes in dilute GaInNAs grown on InP substrate. Applied Physics Letters, 2011, 99, .	3.3	5
74	Ultrafast carrier response of Br ⁺ -irradiated In _{0.53} Ga _{0.47} As excited at telecommunication wavelengths. Journal of Applied Physics, 2012, 111, 093721.	2.5	5
75	Nonlinear Absorption at Optical Telecommunication Wavelengths of InN Films Deposited by RF Sputtering. IEEE Photonics Technology Letters, 2012, 24, 1998-2000.	2.5	5
76	All-fiber continuous wave coherent homodyne terahertz spectrometer operating at 1.55 μm wavelengths. , 2009, , .		4
77	GaN/AlGaIn nanostructures for intersubband optoelectronics. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1421-1424.	1.8	4
78	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. ACS Photonics, 2018, 5, 890-896.	6.6	4
79	THz spectroscopy for fundamental science and applications. Photoniques, 2020, , 33-38.	0.1	4
80	35 GHz bandwidth germanium-on-silicon photodetector. , 0, , .		3
81	High emission and detection efficiency of terahertz beam with heavy-ion-irradiated InP material excited at 0.8 μm . Electronics Letters, 2006, 42, 879.	1.0	3
82	Voltage bistability of coherent electron injection and nonlinear dynamics of a Bloch oscillation in a semiconductor superlattice. Physical Review B, 2015, 91, .	3.2	3
83	Building blocks and concepts for THz remote sensing and communications. , 2019, , .		3
84	Optical sampling by ultra-fast high-contrast saturable absorber created by heavy ion irradiation. Electronics Letters, 1999, 35, 1667.	1.0	2
85	Germanium on silicon photodetectors for telecom wavelengths. , 2007, , .		2
86	Ge photodetectors integrated in Si waveguides. , 2008, , .		2
87	Critical comparison of carrier lifetime at 1.55 μm of ion-irradiated InGaAs, cold-implanted InGaAsP, and ErAs:GaAs. , 2012, , .		2
88	THz band gap in encapsulated graphene quantum dots. , 2018, , .		2
89	Large terahertz electric dipole of a single graphene quantum dot. Physical Review Research, 2022, 4, .	3.6	2
90	Ge-on-silicon vertical PIN photodetectors. , 2009, , .		1

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91	CW THz generation by In _{0.53} Ga _{0.47} As photomixer with TEM-Horn antenna driven at 1.55 μm wavelengths. , 2010, , .		1
92	THz emission from graphene induced by dynamical photon drag. , 2015, , .		1
93	Terahertz pulse generation from quantum cascade lasers. , 2015, , .		1
94	Efficient detection of short-pulse THz radiation with field effect transistors. , 2017, , .		1
95	2D Materials Coupled to Hybrid Metal-Dielectric Waveguides for THz Technology. , 2018, , .		1
96	Ultrafast response of active and self-starting harmonic mode-locked THz laser (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T		0
97	Picosecond carrier dynamics in THz HgTe nanocrystals. , 2020, , .		1
98	Ultrafast 1.55 μm sensitive photoconductor obtained by ion-irradiated InGaAs layer. , 0, , .		0
99	Thermal stability of ion-irradiated InGaAs with subpicosecond carrier lifetime. , 2004, , .		0
100	Dynamics of carrier -capture processes in Ga _{0.47} /In _{0.53} /As/InP near-surface quantum wells. , 0, , .		0
101	A 210-GHz bandwidth electrooptic sampler for large signal characterization of InP-based components. IEEE Photonics Technology Letters, 2005, 17, 2679-2681.	2.5	0
102	Photomixing at 1.55 μm in ion-irradiated In _{0.53} Ga _{0.47} As on InP. , 2006, , .		0
103	2 port vectorial THz electro-optic sampling system. , 2008, , .		0
104	2-port vectorial THz electro-optic sampling system. , 2008, , .		0
105	CW generation up to 2 THz by ion-irradiated In _{0.53} Ga _{0.47} As photomixer driven at 1.55 μm wavelengths. , 2008, , .		0
106	GHz modulation of tunable THz radiation from photomixing at 1.55 μm . , 2009, , .		0
107	Epitaxial growth and picosecond carrier dynamics at 1.55 μm of GaInAs/GaInNAs superlattices. , 2009, , .		0
108	Transfer of a GHz modulation from an optical carrier at telecom wavelengths to a free space THz beam. , 2009, , .		0

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109	Room temperature intraband Raman emission and ultrafast carrier relaxation in GaN/AlN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, S650-S653.	0.8	0
110	THz time domain spectroscopy system using 1.55 μm laser pulses and phase modulation detection in DAST crystal. , 2010, , .		0
111	Properties of planar Goubau waveguides in the THz spectral range. , 2011, , .		0
112	Carrier waves in photomixer illuminated with a laser induced interference pattern. , 2011, , .		0
113	Comparison of GaAs and DAST electro-optic crystals for THz time domain spectroscopy using 1.55 μm fiber laser pulses. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
114	Travelling wave photomixers based on double plasmon waveguide driven at 1.55 μm wavelength. , 2011, , .		0
115	Optical wavelength shifting using resonant non-linearities in THz quantum cascade lasers. , 2012, , .		0
116	Confinement of THz surface waves on the subwavelength size metal waveguide. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 993-995.	2.3	0
117	III-nitride intersubband photonics. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
118	Bistability and nonlinear negative differential conductance in semiconductor superlattices illuminated by laser light. <i>Applied Physics Letters</i> , 2013, 103, 092106.	3.3	0
119	Broadband THz generation using Interdigitated Photoconductive antennas with a 15 fs, high power oscillator. , 2013, , .		0
120	Critical comparison of the THz performance from ErAs:GaAs and Br-irradiated In _{0.53} Ga _{0.47} As 1.55- μm -driven photoconductive antennas. , 2013, , .		0
121	High order optical sideband generation with Terahertz quantum cascade lasers. , 2013, , .		0
122	Extreme confinement of THz surface waves by subwavelength metallic waveguides. , 2013, , .		0
123	THz plasmonic waveguides with low-loss and low-group velocity dispersion using flexible thin substrate. , 2013, , .		0
124	Direct optical sampling of a modelocked terahertz Quantum Cascade Laser. , 2013, , .		0
125	Far-field engineering of metal-metal terahertz quantum cascade lasers with integrated horn antennas. , 2015, , .		0
126	Ultrabroadband THz emission with controlled wave-front from LTC GaAs large area interdigitated photoconductive antenna. , 2015, , .		0

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127	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
128	Temperature-dependent THz conductivity of graphene. , 2016, , .		0
129	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
130	Echo-less photoconductive antenna sources for high-resolution terahertz time-domain spectroscopy. , 2016, , .		0
131	Short THz pulse generation from a dispersion compensated modelocked quantum cascade laser. , 2017, , .		0
132	Saturable absorption in multilayer epitaxial graphene driven by mid-infrared quantum cascade lasers. , 2017, , .		0
133	Monolithic echo-less photoconductive switches for high-resolution terahertz time-domain spectroscopy. , 2017, , .		0
134	Terahertz Pulses Emitters with Full Electrical Control on Polarization for THz-TDS. , 2018, , .		0
135	THz cavity based on confined Tamm modes. , 2019, , .		0
136	Probing Ultrafast Switch-on Dynamics of Frequency Tuneable Semiconductor Lasers Using Terahertz Time-domain Spectroscopy. , 2019, , .		0
137	Cavity based THz photoconductive switch: towards high average power. , 2019, , .		0
138	THz excited state level spacing in encapsulated graphene quantum dots. , 2019, , .		0
139	THz absorption in Graphene Quantum Dots. , 2019, , .		0
140	Interdigitated photoconductive switches for terahertz pulses emission with electrical control of polarization. , 2019, , .		0
141	Self-Starting Harmonic Emission and Active Harmonic Modelocking in THz QCLs. , 2019, , .		0
142	Hot carrier recombination close to the Dirac point in graphene-hBN van der Waals heterostructures. , 2019, , .		0
143	Millimeter Wave Photonics with Terahertz Semiconductor Lasers. , 2021, , .		0
144	THz light-matter coupling in a hBN-encapsulated graphene quantum dot. , 2021, , .		0

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145	Intensity sampling of a modelocked terahertz quantum cascade laser. , 2013, , .		0
146	Terahertz Generation by Dynamical Photon Drag Effect in Graphene. , 2015, , .		0
147	Echo-less Photoconductive Antenna sources for High-resolution Terahertz Time-domain Spectroscopy. , 2016, , .		0
148	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0
149	Terahertz nonlinear optics with a compact semiconductor device. SPIE Newsroom, 0, , .	0.1	0
150	Spectral emission control of terahertz quantum cascade laser via injection seeding technique (Conference Presentation). , 2017, , .		0
151	Multi-THz sideband generation on an optical telecom carrier at room temperature (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		0
152	Monolithic echoless photoconductive switches for high-resolution terahertz time-domain spectroscopy (Conference Presentation). , 2018, , .		0
153	Fourier limit pulse train from an active mode-locked quantum-cascade laser (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		0
154	Harmonic mode-locking of THz quantum cascade lasers (Conference Presentation). , 2019, , .		0
155	Ultrafast spin-charge interconversion in Rashba states probed by time-domain THz spectroscopy. , 2020, , .		0
156	Time resolved spectroscopy of THz intersubband polaritons at small k vector. , 2020, , .		0
157	Cavity based THz photoconductive switches: real time THz imaging. , 2020, , .		0
158	Giant optical nonlinearity interferences in quantum structures (Conference Presentation). , 2020, , .		0
159	High-power cavity-based terahertz photoconductive sources for real-time terahertz imaging (Conference Presentation). , 2020, , .		0
160	Ultraslow carrier recombination processes close to Dirac point in graphene/hBN heterostructures (Conference Presentation). , 2020, , .		0
161	Ultrafast response of Harmonic Modelocked THz Lasers. , 2020, , .		0
162	Synchrotron-like THz emitters based on corrugated graphene. , 2020, , .		0

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163	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0
164	Ultra-slow recombination of carriers at low density and energy in neutral graphene-hBN van der Waals heterostructures. , 2020, , .		0
165	Photon-assisted tunneling in hBN encapsulated graphene quantum dot under coherent THz illumination. , 2020, , .		0
166	Cavity-based Terahertz Photoconductive sources for Real-Time Terahertz imaging. , 2020, , .		0
167	Ultrafast Spin-Charge Conversion in Rashba states probed by Terahertz time-domain emission spectroscopy. , 2020, , .		0
168	Energy levels and THz optical properties in Graphene Quantum Dots. , 2020, , .		0