

Juliette Mangeney

List of Publications by Year in descending order

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168
papers

1,909
citations

331670

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#	ARTICLE	IF	CITATIONS
1	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
2	Large terahertz electric dipole of a single graphene quantum dot. <i>Physical Review Research</i> , 2022, 4, .	3.6	2
3	Spintronic THz emitters based on transition metals and semi-metals/Pt multilayers. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	10
4	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
5	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021, 12, 1427.	12.8	31
6	Spin Injection Efficiency at Metallic Interfaces Probed by THz Emission Spectroscopy. <i>Advanced Optical Materials</i> , 2021, 9, 2100412.	7.3	22
7	Few picosecond dynamics of intraband transitions in THz HgTe nanocrystals. <i>Nanophotonics</i> , 2021, 10, 2753-2763.	6.0	10
8	Vacuum-field-induced THz transport gap in a carbon nanotube quantum dot. <i>Nature Communications</i> , 2021, 12, 5490.	12.8	10
9	Millimeter Wave Photonics with Terahertz Semiconductor Lasers. , 2021, , .		0
10	THz light-matter coupling in a hBN-encapsulated graphene quantum dot. , 2021, , .		0
11	Tamm Cavity in the Terahertz Spectral Range. <i>ACS Photonics</i> , 2020, 7, 2906-2914.	6.6	15
12	Ultrafast spin-currents and charge conversion at 3d-5d interfaces probed by time-domain terahertz spectroscopy. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	57
13	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
14	Mutually Synchronized Macroscopic Josephson Oscillations Demonstrated by Polarization Analysis of Superconducting Terahertz Emitters. <i>Physical Review Applied</i> , 2020, 13, .	3.8	18
15	Ultrafast response of harmonic modelocked THz lasers. <i>Light: Science and Applications</i> , 2020, 9, 51.	16.6	42
16	Ultra-long carrier lifetime in neutral graphene-hBN van der Waals heterostructures under mid-infrared illumination. <i>Nature Communications</i> , 2020, 11, 863.	12.8	34
17	Cavity-based photoconductive sources for real-time terahertz imaging. <i>Photonics Research</i> , 2020, 8, 858.	7.0	11
18	Ultrafast spin-charge interconversion in Rashba states probed by time-domain THz spectroscopy. , 2020, , .		0

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19	Time resolved spectroscopy of THz intersubband polaritons at small k vector. , 2020, , .		0
20	Cavity based THz photoconductive switches: real time THz imaging. , 2020, , .		0
21	THz spectroscopy for fundamental science and applications. Photoniques, 2020, , 33-38.	0.1	4
22	Giant optical nonlinearity interferences in quantum structures (Conference Presentation). , 2020, , .		0
23	High-power cavity-based terahertz photoconductive sources for real-time terahertz imaging (Conference Presentation). , 2020, , .		0
24	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
25	Ultraslow carrier recombination processes close to Dirac point in graphene/hBN heterostructures (Conference Presentation). , 2020, , .		0
26	Ultrafast response of Harmonic Modelocked THz Lasers. , 2020, , .		0
27	Synchrotron-like THz emitters based on corrugated graphene. , 2020, , .		0
28	Picosecond carrier dynamics in THz HgTe nanocrystals. , 2020, , .		1
29	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0
30	Ultra-slow recombination of carriers at low density and energy in neutral graphene-hBN van der Waals heterostructures. , 2020, , .		0
31	Photon-assisted tunneling in hBN encapsulated graphene quantum dot under coherent THz illumination. , 2020, , .		0
32	Cavity-based Terahertz Photoconductive sources for Real-Time Terahertz imaging. , 2020, , .		0
33	Ultrafast Spin-Charge Conversion in Rashba states probed by Terahertz time-domain emission spectroscopy. , 2020, , .		0
34	Energy levels and THz optical properties in Graphene Quantum Dots. , 2020, , .		0
35	THz cavity based on confined Tamm modes. , 2019, , .		0
36	Giant optical nonlinearity interferences in quantum structures. Science Advances, 2019, 5, eaaw7554.	10.3	10

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37	Probing Ultrafast Switch-on Dynamics of Frequency Tuneable Semiconductor Lasers Using Terahertz Time-domain Spectroscopy. , 2019, , .		0
38	Cavity based THz photoconductive switch: towards high average power. , 2019, , .		0
39	THz excited state level spacing in encapsulated graphene quantum dots. , 2019, , .		0
40	THz absorption in Graphene Quantum Dots. , 2019, , .		0
41	Interdigitated photoconductive switches for terahertz pulses emission with electrical control of polarization. , 2019, , .		0
42	Building blocks and concepts for THz remote sensing and communications. , 2019, , .		3
43	Self-Starting Harmonic Emission and Active Harmonic Modelocking in THz QCLs. , 2019, , .		0
44	Hot carrier recombination close to the Dirac point in graphene-hBN van der Waals heterostructures. , 2019, , .		0
45	High-speed THz spectroscopic imaging at ten kilohertz pixel rate with amplitude and phase contrast. Optics Express, 2019, 27, 10866.	3.4	11
46	Large-area photoconductive switches as emitters of terahertz pulses with fully electrically controlled linear polarization. Optics Express, 2019, 27, 14784.	3.4	12
47	Fourier limit pulse train from an active mode-locked quantum-cascade laser (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
48	Harmonic mode-locking of THz quantum cascade lasers (Conference Presentation). , 2019, , .		0
49	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. ACS Photonics, 2018, 5, 890-896.	6.6	4
50	Field-effect transistors as electrically controllable nonlinear rectifiers for the characterization of terahertz pulses. APL Photonics, 2018, 3, .	5.7	21
51	2D Materials Coupled to Hybrid Metal-Dielectric Waveguides for THz Technology. , 2018, , .		1
52	THz band gap in encapsulated graphene quantum dots. , 2018, , .		2
53	Terahertz Pulses Emitters with Full Electrical Control on Polarization for THz-TDS. , 2018, , .		0
54	Sub-picosecond pulsed THz FET detector characterization in plasmonic detection regime based on autocorrelation technique. Semiconductor Science and Technology, 2018, 33, 124013.	2.0	14

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55	High permittivity processed SrTiO ₃ for metamaterials applications at terahertz frequencies. Scientific Reports, 2018, 8, 15275.	3.3	7
56	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. Nature Communications, 2018, 9, 3076.	12.8	16
57	Multi-THz sideband generation on an optical telecom carrier at room temperature (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock		
58	Monolithic echoless photoconductive switches for high-resolution terahertz time-domain spectroscopy (Conference Presentation). , 2018, , .		0
59	Coupling Surface Plasmon Polariton Modes to Complementary THz Metasurfaces Tuned by Inter Meta-Atom Distance. Advanced Optical Materials, 2017, 5, 1600884.	7.3	20
60	Evidence of Fermi level pinning at the Dirac point in epitaxial multilayer graphene. Physical Review B, 2017, 95, .	3.2	8
61	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. Applied Physics Letters, 2017, 110, .	3.3	18
62	Short THz pulse generation from a dispersion compensated modelocked quantum cascade laser. , 2017, , .		0
63	Efficient detection of short-pulse THz radiation with field effect transistors. , 2017, , .		1
64	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. Laser and Photonics Reviews, 2017, 11, 1700013.	8.7	67
65	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
66	Saturable absorption in multilayer epitaxial graphene driven by mid-infrared quantum cascade lasers. , 2017, , .		0
67	Monolithic echo-less photoconductive switches for high-resolution terahertz time-domain spectroscopy. , 2017, , .		0
68	Spectral emission control of terahertz quantum cascade laser via injection seeding technique (Conference Presentation). , 2017, , .		0
69	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
70	Temperature-dependent THz conductivity of graphene. , 2016, , .		0
71	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
72	Diffraction-limited ultrabroadband terahertz spectroscopy. Scientific Reports, 2016, 6, 24811.	3.3	18

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73	Echo-less photoconductive antenna sources for high-resolution terahertz time-domain spectroscopy. , 2016, , .		0
74	Echo-Less Photoconductive Antenna Sources for High-Resolution Terahertz Time-Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 20-25.	3.1	16
75	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. Optics Express, 2016, 24, 2174.	3.4	11
76	Echo-less Photoconductive Antenna sources for High-resolution Terahertz Time-domain Spectroscopy. , 2016, , .		0
77	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0
78	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
79	Generating ultrafast pulses of light from quantum cascade lasers. Optica, 2015, 2, 944.	9.3	52
80	Far-field engineering of metal-metal terahertz quantum cascade lasers with integrated horn antennas. , 2015, , .		0
81	THz emission from graphene induced by dynamical photon drag. , 2015, , .		1
82	Ultrabroadband THz emission with controlled wave-front from LTG GaAs large area interdigitated photoconductive antenna. , 2015, , .		0
83	Terahertz pulse generation from quantum cascade lasers. , 2015, , .		1
84	Terahertz Generation by Dynamical Photon Drag Effect in Graphene. , 2015, , .		0
85	20 THz broadband generation using semi-insulating GaAs interdigitated photoconductive antennas. Optics Express, 2014, 22, 26358.	3.4	58
86	Terahertz Generation by Dynamical Photon Drag Effect in Graphene Excited by Femtosecond Optical Pulses. Nano Letters, 2014, 14, 5797-5802.	9.1	84
87	Bistability and nonlinear negative differential conductance in semiconductor superlattices illuminated by laser light. Applied Physics Letters, 2013, 103, 092106.	3.3	0
88	Broadband THz generation using Interdigitated Photoconductive antennas with a 15 fs, high power oscillator. , 2013, , .		0
89	Subwavelength metallic waveguides as a tool for extreme confinement of THz surface waves. Scientific Reports, 2013, 3, 1369.	3.3	25
90	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

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91	Identification of several propagation regimes for terahertz surface waves guided by planar Goubau lines. Applied Physics Letters, 2013, 103, .	3.3	8
92	High order optical sideband generation with Terahertz quantum cascade lasers. , 2013, , .		0
93	Extreme confinement of THz surface waves by subwavelength metallic waveguides. , 2013, , .		0
94	THz plasmonic waveguides with low-loss and low-group velocity dispersion using flexible thin substrate. , 2013, , .		0
95	Direct optical sampling of a modelocked terahertz Quantum Cascade Laser. , 2013, , .		0
96	Intensity sampling of a modelocked terahertz quantum cascade laser. , 2013, , .		0
97	THz surface plasmon modes on planar Goubau lines. Optics Express, 2012, 20, 8466.	3.4	16
98	Direct intensity sampling of a modelocked terahertz quantum cascade laser. Applied Physics Letters, 2012, 101, .	3.3	27
99	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
100	Optical wavelength shifting using resonant non-linearities in THz quantum cascade lasers. , 2012, , .		0
101	Confinement of THz surface waves on the subwavelength size metal waveguide. Applied Physics A: Materials Science and Processing, 2012, 109, 993-995.	2.3	0
102	Critical comparison of carrier lifetime at 1.55 μm of ion-irradiated InGaAs, cold-implanted InGaAsP, and ErAs:GaAs. , 2012, , .		2
103	Nonlinear Absorption at Optical Telecommunication Wavelengths of InN Films Deposited by RF Sputtering. IEEE Photonics Technology Letters, 2012, 24, 1998-2000.	2.5	5
104	Carrier localization in InN/InGaN multiple-quantum wells with high In-content. Applied Physics Letters, 2012, 101, 062109.	3.3	20
105	III-nitride intersubband photonics. Proceedings of SPIE, 2012, , .	0.8	0
106	THz Photoconductive Antennas Made From Ion-Bombarded Semiconductors. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 455-473.	2.2	23
107	Femto-second electron transit time characterization in GaN/AlGaIn quantum cascade detector at 1.5 micron. Applied Physics Letters, 2011, 99, .	3.3	32
108	Properties of planar Goubau waveguides in the THz spectral range. , 2011, , .		0

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109	Carrier waves in photomixer illuminated with a laser induced interference pattern. , 2011, , .		0
110	Picosecond carrier lifetimes in dilute GaInNAs grown on InP substrate. Applied Physics Letters, 2011, 99, .	3.3	5
111	Comparison of GaAs and DAST electro-optic crystals for THz time domain spectroscopy using 1.55 μm fiber laser pulses. Proceedings of SPIE, 2011, , .	0.8	0
112	Travelling wave photomixers based on double plasmon waveguide driven at 1.55 μm wavelength. , 2011, , .		0
113	GaN/AlGaIn nanostructures for intersubband optoelectronics. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1421-1424.	1.8	4
114	Optical phase detection in a 4-N,N-dimethylamino-4'-nitro-methyl-stilbazolium tosylate crystal for terahertz time domain spectroscopy system at 1.55 μm wavelength. Applied Physics Letters, 2010, 97, .	3.3	18
115	CW THz generation by In _{0.53} Ga _{0.47} As photomixer with TEM-Horn antenna driven at 1.55 μm wavelengths. , 2010, , .		1
116	THz time domain spectroscopy system using 1.55 μm laser pulses and phase modulation detection in DAST crystal. , 2010, , .		0
117	Terahertz intersubband absorption in GaN/AlGaIn step quantum wells. Applied Physics Letters, 2010, 97, .	3.3	87
118	Terahertz generation and power limits in In _{0.53} Ga _{0.47} As photomixer coupled to transverse-electromagnetic-horn antenna driven at 1.55 μm wavelengths. Applied Physics Letters, 2010, 97, 161109.	3.3	7
119	All-fiber continuous wave coherent homodyne terahertz spectrometer operating at 1.55 μm wavelengths. , 2009, , .		4
120	GHz modulation of tunable THz radiation from photomixing at 1.55 μm . , 2009, , .		0
121	Epitaxial growth and picosecond carrier dynamics at 1.55 μm of GaInAs/GaInNAs superlattices. , 2009, , .		0
122	Epitaxial growth and picosecond carrier dynamics of GaInAs/GaInNAs superlattices. Applied Physics Letters, 2009, 95, 141910.	3.3	6
123	Transfer of a GHz modulation from an optical carrier at telecom wavelengths to a free space THz beam. , 2009, , .		0
124	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
125	Room temperature intraband Raman emission and ultrafast carrier relaxation in GaN/AlN quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S650-S653.	0.8	0
126	Ultrafast relaxation and optical saturation of intraband absorption of GaN/AlN quantum dots. Applied Physics Letters, 2009, 94, .	3.3	18

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127	Ge-on-silicon vertical PIN photodetectors. , 2009, , .		1
128	Ion-irradiated In _{0.53} Ga _{0.47} As photoconductive antennas for THz generation and detection at 1.55 μ m wavelength. Comptes Rendus Physique, 2008, 9, 142-152.	0.9	30
129	2 port vectorial THz electro-optic sampling system. , 2008, , .		0
130	2-port vectorial THz electro-optic sampling system. , 2008, , .		0
131	42 GHz waveguide germanium-on-silicon vertical PIN photodetector. , 2008, , .		6
132	Metal-semiconductor-metal Ge photodetectors integrated in silicon waveguides. Applied Physics Letters, 2008, 92, 1511-14.	3.3	20
133	Two-port vectorial terahertz electro-optic sampling system. Applied Physics Letters, 2008, 92, .	3.3	9
134	Gigahertz modulation of tunable terahertz radiation from photomixers driven at telecom wavelengths. Applied Physics Letters, 2008, 93, .	3.3	10
135	CW generation up to 2 THz by ion-irradiated In _{0.53} Ga _{0.47} As photomixer driven at 1.55 μ m wavelengths. , 2008, , .		0
136	Ultrafast carrier dynamics in InP studied by time-resolved terahertz spectroscopy. Physical Review B, 2008, 78, .	3.3	18
137	Ge photodetectors integrated in Si waveguides. , 2008, , .		2
138	Continuous wave terahertz generation up to 2THz by photomixing on ion-irradiated In _{0.53} Ga _{0.47} As at 1.55 μ m wavelengths. Applied Physics Letters, 2007, 91, .	3.3	58
139	Germanium on silicon photodetectors for telecom wavelengths. , 2007, , .		2
140	Emission characteristics of ion-irradiated In _{0.53} Ga _{0.47} As based photoconductive antennas excited at 1.55 μ m. Optics Express, 2007, 15, 8943.	3.4	30
141	High speed and high responsivity germanium photodetector integrated in a Silicon-On-Insulator microwaveguide. Optics Express, 2007, 15, 9843.	3.4	196
142	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
143	Photomixing at 1.55 μ m in ion-irradiated In(0.53)Ga(0.47)As on InP. Optics Express, 2006, 14, 1856.	3.4	17
144	High emission and detection efficiency of terahertz beam with heavy-ion-irradiated InP material excited at 0.8 μ m. Electronics Letters, 2006, 42, 879.	1.0	3

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145	Photomixing at 1.55 μm in ion-irradiated $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ on InP , 2006, , .		0
146	Terahertz radiation generated and detected by Br^+ -irradiated $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ photoconductive antenna excited at 800nm wavelength. Applied Physics Letters, 2006, 89, 083519.	3.3	19
147	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
148	Conduction mechanisms in ion-irradiated InGaAs layers. Journal of Applied Physics, 2005, 97, 063515.	2.5	13
149	Terahertz radiation from heavy-ion-irradiated $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ photoconductive antenna excited at 1.55 μm . Applied Physics Letters, 2005, 87, 193510.	3.3	90
150	THz active devices and applications: a survey of recent researches. , 2005, , .		7
151	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
152	Carrier dynamics in $\text{Ga}_{0.53}\text{In}_{0.47}\text{As}/\text{InP}$ near-surface quantum wells. Applied Physics Letters, 2005, 87, 012107.	3.3	5
153	Thermal stability of ion-irradiated InGaAs with subpicosecond carrier lifetime. , 2004, , .		0
154	Ultrafast response (~ 2.2 ps) of ion-irradiated InGaAs photoconductive switch at 1.55 μm . Applied Physics Letters, 2003, 83, 5551-5553.	3.3	26
155	Electrical properties of 1.55 μm sensitive ion-irradiated InGaAs with subpicosecond carrier lifetime. Electronics Letters, 2003, 39, 681.	1.0	5
156	Thermal stability of ion-irradiated InGaAs with (sub-) picosecond carrier lifetime. Applied Physics Letters, 2003, 82, 856-858.	3.3	28
157	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
158	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
159	System application of 1.5 μm ultrafast saturable absorber in 10 Gbit/s long-haul transmission. Electronics Letters, 2000, 36, 1725.	1.0	11
160	Demonstration of high robustness to SNR impairment in 20 Gbit/s long-haul transmission using 1.5 μm saturable absorber. Electronics Letters, 2000, 36, 1944.	1.0	10
161	All-optical discrimination at 1.5 μm using an ultrafast saturable absorber vertical cavity device. Electronics Letters, 2000, 36, 1486.	1.0	19
162	Subgap optical absorption and recombination center efficiency in bulk GaAs irradiated by light or heavy ions. Applied Physics Letters, 2000, 76, 40-42.	3.3	12

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163	Optical sampling by ultra-fast high-contrast saturable absorber created by heavy ion irradiation. Electronics Letters, 1999, 35, 1667.	1.0	2
164	Intensity-invariant subpicosecond absorption saturation in heavy-ion irradiated bulk GaAs. Applied Physics Letters, 1998, 73, 3715-3717.	3.3	13
165	Ultrafast 1.55 μ m sensitive photoconductor obtained by ion-irradiated InGaAs layer. , 0, , .		0
166	Dynamics of carrier -capture processes in Ga/sub 0.47/In/sub 0.53/As/InP near-surface quantum wells. , 0, , .		0
167	35 GHz bandwidth germanium-on-silicon photodetector. , 0, , .		3
168	Terahertz nonlinear optics with a compact semiconductor device. SPIE Newsroom, 0, , .	0.1	0