

# Romain Blanchard

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

5,344  
citations

257450

24  
h-index

361022

35  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Gas QEPAS Detection Exploiting a Monolithic DFB-QCL Array. NATO Science for Peace and Security Series B: Physics and Biophysics, 2021, , 61-70.	0.3	0
2	Fluorescence-Detected Mid-Infrared Photothermal Microscopy. Journal of the American Chemical Society, 2021, 143, 10809-10815.	13.7	27
3	Broadband detection of methane and nitrous oxide using a distributed-feedback quantum cascade laser array and quartz-enhanced photoacoustic sensing. Photoacoustics, 2020, 17, 100159.	7.8	47
4	Portable broadband photoacoustic spectroscopy for trace gas detection by quantum cascade laser arrays. Optics Letters, 2020, 45, 3248.	3.3	9
5	Broadband Infrared Gas Spectroscopy Using Quantum Cascade Laser Arrays. , 2019, , .		2
6	Quartz-enhanced photoacoustic spectroscopy employing a distributed feedback-quantum cascade laser array for nitrous oxide and methane broadband detection. , 2019, , .		0
7	Sparse-sampling methods for hyperspectral infrared microscopy. , 2019, , .		0
8	Standoff hyperspectral imaging of CWAs and explosives using eyesafe quantum cascade laser arrays. , 2019, , .		0
9	Nitrous oxide quartz-enhanced photoacoustic detection employing a broadband distributed-feedback quantum cascade laser array. Applied Physics Letters, 2018, 113, .	3.3	34
10	Portable standoff spectrometer for hazard identification using integrated quantum cascade laser arrays from 65 to 11 $\mu\text{m}$ . Optics Express, 2018, 26, 12159.	3.4	25
11	Modeling and design of Al <sub>0.25</sub> Ga <sub>0.75</sub> As/GaAs terahertz quantum cascade lasers with a realistic band structure. , 2017, , .		0
12	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. Nature Nanotechnology, 2015, 10, 804-809.	31.5	119
13	High tuning stability of sampled grating quantum cascade lasers. Optics Express, 2015, 23, 15734.	3.4	21
14	Demonstration of a quick process to achieve buried heterostructure quantum cascade laser leading to high power and wall plug efficiency. Optical Engineering, 2014, 53, 087104.	1.0	11
15	Mode switching in a multi-wavelength distributed feedback quantum cascade laser using an external micro-cavity. Applied Physics Letters, 2014, 104, 051102.	3.3	3
16	Vanadium Dioxide as a Natural Disordered Metamaterial: Perfect Thermal Emission and Large Broadband Negative Differential Thermal Emittance. Physical Review X, 2013, 3, .	8.9	136
17	Nanometre optical coatings based on strong interference effects in highly absorbing media. Nature Materials, 2013, 12, 20-24.	27.5	841
18	Flat Optics: Controlling Wavefronts With Optical Antenna Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4700423-4700423.	2.9	258

#	ARTICLE	IF	CITATIONS
19	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. Applied Physics Letters, 2013, 102, .	3.3	14
20	High-brightness tapered quantum cascade lasers. Applied Physics Letters, 2013, 102, 053503.	3.3	24
21	External ring-cavity quantum cascade lasers. Applied Physics Letters, 2013, 102, .	3.3	21
22	Thermal tuning of mid-infrared plasmonic antenna arrays using a phase change material. Optics Letters, 2013, 38, 368.	3.3	196
23	Generation of two-dimensional plasmonic bottle beams. Optics Express, 2013, 21, 10295.	3.4	37
24	Generation of picosecond pulses and frequency combs in actively mode locked external ring cavity quantum cascade lasers. Applied Physics Letters, 2013, 103, .	3.3	39
25	Enhancement of absorption and color contrast in ultra-thin highly absorbing optical coatings. Applied Physics Letters, 2013, 103, .	3.3	81
26	Negative differential thermal emitter. , 2013, , .		0
27	Widely tunable mid-infrared quantum cascade lasers using sampled grating reflectors. Optics Express, 2012, 20, 23339.	3.4	42
28	Double-waveguide quantum cascade laser. Applied Physics Letters, 2012, 100, 033502.	3.3	6
29	Giant birefringence in optical antenna arrays with widely tailorable optical anisotropy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12364-12368.	7.1	176
30	Phase elements for surface optics. , 2012, , .		0
31	Multi-stack quantum cascade lasers. , 2012, , .		0
32	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. Physical Review B, 2012, 85, .	3.2	96
33	Aberration-Free Ultrathin Flat Lenses and Axicons at Telecom Wavelengths Based on Plasmonic Metasurfaces. Nano Letters, 2012, 12, 4932-4936.	9.1	1,528
34	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. Applied Physics Letters, 2012, 100, .	3.3	451
35	Ultra-thin perfect absorber employing a tunable phase change material. Applied Physics Letters, 2012, 101, .	3.3	519
36	Doubly-corrugated spoof-insulator-spoof waveguides. , 2012, , .		0

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37	Vertical monolithic integration of quantum cascade lasers for high-power broadband applications. , 2012, , .		0
38	Plasmonic-based techniques to generate and detect optical vortex beams. , 2012, , .		0
39	Enhancement of optical processes in coupled plasmonic nanocavities [Invited]. Applied Optics, 2011, 50, C56.	2.1	9
40	Spoof plasmon analogue of metal-insulator-metal waveguides. Optics Express, 2011, 19, 14860.	3.4	145
41	Multi-wavelength mid-infrared plasmonic antennas with single nanoscale focal point. Optics Express, 2011, 19, 22113.	3.4	29
42	Coupled Nanocavity-Grating Resonances: Large Plasmonic Enhancement of Nonlinear Optical Phenomena. , 2011, , .		0
43	Off-axis and multi-directional plasmonic lenses. , 2011, , .		0
44	Dipolar modeling and experimental demonstration of multi-beam plasmonic collimators. New Journal of Physics, 2011, 13, 053057.	2.9	29
45	Gratings with an aperiodic basis: single-mode emission in multi-wavelength lasers. New Journal of Physics, 2011, 13, 113023.	2.9	18
46	Quantum Cascade Lasers with Integrated Multi-Beam Plasmonic Collimators. , 2011, , .		0
47	Plasmonics for Laser Beam Shaping. IEEE Nanotechnology Magazine, 2010, 9, 11-29.	2.0	39
48	Large Enhancement of Nonlinear Optical Phenomena by Plasmonic Nanocavity Gratings. Nano Letters, 2010, 10, 4880-4883.	9.1	207
49	Wavefront engineering of semiconductor lasers using plasmonics. , 2010, , .		0
50	Small divergence edge-emitting semiconductor lasers with two-dimensional plasmonic collimators. Applied Physics Letters, 2008, 93, .	3.3	51
51	Quantum cascade lasers with integrated plasmonic antenna-array collimators. Optics Express, 2008, 16, 19447.	3.4	54