

# Jean Michel MÃ©nard

## List of Publications by Year in descending order

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70  
papers

1,378  
citations

471509

17  
h-index

330143

37  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband robustly single-mode hollow-core PCF by resonant filtering of higher-order modes. Optics Letters, 2016, 41, 1961.	3.3	222
2	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
3	Non-thermal separation of electronic and structural orders in a persisting charge density wave. Nature Materials, 2014, 13, 857-861.	27.5	181
4	Ultrafast optical imaging of the spin Hall effect of light in semiconductors. Physical Review B, 2010, 82, .	3.2	73
5	Imaging the spin Hall effect of light inside semiconductors via absorption. Optics Letters, 2009, 34, 2312.	3.3	67
6	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	9.1	63
7	Revealing the dark side of a bright exciton-polariton condensate. Nature Communications, 2014, 5, 4648.	12.8	51
8	Shot noise reduced terahertz detection via spectrally postfiltered electro-optic sampling. Optics Letters, 2014, 39, 2435.	3.3	50
9	Intensity and polarization dependences of the supercontinuum generation in birefringent and highly nonlinear microstructured fibers. Optics Express, 2003, 11, 3338.	3.4	45
10	Coherently Controlled Ballistic Charge Currents Injected in Single-Walled Carbon Nanotubes and Graphite. Nano Letters, 2008, 8, 1586-1589.	9.1	33
11	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. Physical Review B, 2012, 85, .	3.2	33
12	Higher-order mode suppression in twisted single-ring hollow-core photonic crystal fibers. Optics Letters, 2017, 42, 2074.	3.3	29
13	Refractive index measurements of planar chalcogenide thin film. Journal of Non-Crystalline Solids, 2003, 328, 183-191.	3.1	26
14	Active phase control of terahertz pulses using a dynamic waveguide. Optics Express, 2018, 26, 13876.	3.4	23
15	Single-beam differential z-scan technique. Applied Optics, 2007, 46, 2119.	2.1	22
16	Phase-matched electric-field-induced second-harmonic generation in Xe-filled hollow-core photonic crystal fiber. Optics Letters, 2015, 40, 3679.	3.3	22
17	Broadband and tunable time-resolved THz system using argon-filled hollow-core photonic crystal fiber. APL Photonics, 2018, 3, .	5.7	22
18	UV Illumination as a Method to Improve the Performance of Gas Sensors Based on Graphene Field-Effect Transistors. ACS Sensors, 2021, 6, 4417-4424.	7.8	21

#	ARTICLE	IF	CITATIONS
19	All-optical coherently controlled terahertz ac charge currents from excitons in semiconductors. Physical Review B, 2009, 79, .	3.2	17
20	Broadband electric-field-induced LP_01 and LP_02 second harmonic generation in Xe-filled hollow-core PCF. Optics Letters, 2016, 41, 3795.	3.3	17
21	Terahertz Nonlinear Spectroscopy of Water Vapor. ACS Photonics, 2021, 8, 1683-1688.	6.6	17
22	Ultrafast modulation of the spectral filtering properties of a THz metasurface. Optics Express, 2020, 28, 20296.	3.4	17
23	Mechanistic Insight into the Limiting Factors of Graphene-Based Environmental Sensors. ACS Applied Materials & Interfaces, 2020, 12, 39764-39771.	8.0	13
24	Systematic THz study of the substrate effect in limiting the mobility of graphene. Scientific Reports, 2021, 11, 8729.	3.3	13
25	Enhanced Terahertz Detection Efficiency via Grating-Assisted Noncollinear Electro-Optic Sampling. Physical Review Applied, 2019, 12, .	3.8	12
26	Propagation of broadband THz pulses: effects of dispersion, diffraction and time-varying nonlinear refraction. Optics Express, 2020, 28, 3237.	3.4	9
27	Optical pulse structuring in gas-filled hollow-core kagomÃ© PCF for generation and detection of phase-locked multi-THz pulses [Invited]. Optical Materials Express, 2019, 9, 3115.	3.0	9
28	A Comparative Investigation of Chemically Reduced Graphene Oxide Thin Films Deposited via Spray Pyrolysis. ACS Omega, 2022, 7, 11973-11979.	3.5	9
29	Graphene Field Effect Transistors: A Sensitive Platform for Detecting Sarin. ACS Applied Materials & Interfaces, 2021, 13, 61751-61757.	8.0	9
30	Broadband and High-Sensitivity Time-Resolved THz System Using Grating-Assisted Tilted-Pulse-Front Phase Matching. Advanced Optical Materials, 2022, 10, 2101136.	7.3	8
31	Scalable Fabrication of Nanogratings on GaP for Efficient Diffraction of Near-Infrared Pulses and Enhanced Terahertz Generation by Optical Rectification. Crystals, 2022, 12, 684.	2.2	6
32	Drone-Mountable Gas Sensing Platform Using Graphene Chemiresistors for Remote In-Field Monitoring. Sensors, 2022, 22, 2383.	3.8	5
33	Polarization-resolved supercontinuum generated in a germania-doped photonic crystal fiber. JPhys Photonics, 2021, 3, 025002.	4.6	4
34	Raman amplification of pure side-seeded higher-order modes in hydrogen-filled hollow-core PCF. Optics Express, 2015, 23, 895.	3.4	3
35	Fabrication and side-coupling characterization of hexagonal lattice single-ring hollow-core PCFs. , 2015, , .		3
36	Front-induced transitions control THz waves. Communications Physics, 2021, 4, .	5.3	2

#	ARTICLE	IF	CITATIONS
37	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		2
38	Coherent control of electrical currents in semiconductor nanowires/tubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1224-1226.	0.8	1
39	A Multi-Terahertz View of Ultrafast Charge Density Wave Dynamics in TiSe2. , 2013, , .		1
40	Microcavity design for low threshold polariton condensation with ultrashort optical pulse excitation. Journal of Applied Physics, 2015, 117, 205702.	2.5	1
41	Non-local Field Effects in Nonlinear Plasmonic Metasurfaces. , 2020, , .		1
42	Steering the Slipstream: Moving Fronts to Tailor Terahertz Pulses. , 2021, , .		1
43	High-Q resonance train in a plasmonic metasurface. , 2019, , .		1
44	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		1
45	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
46	Refractive index measurements of planar chalcogenide waveguide. , 2003, , .		0
47	THz Emission from transient electrical currents injected into semiconductors via optical quantum interference. , 2008, , .		0
48	All-optical coherently controlled Terahertz AC charge currents from excitons in semiconductors. , 2009, , .		0
49	Sub-Cycle Switching of Ultrastrong Light-Matter Interaction in a 1D Photonic Bandstructure. , 2012, , .		0
50	Sub-cycle switching of a photonic bandstructure via ultrastrong light-matter coupling. EPJ Web of Conferences, 2013, 41, 09009.	0.3	0
51	Ultrafast dissection of excitonic and structural orders in a persisting charge density wave. , 2015, , .		0
52	Femtosecond terahertz dynamics of cooperative transitions: from charge density waves to polariton condensates. Proceedings of SPIE, 2016, , .	0.8	0
53	All-optical phase control of THz waveforms. , 2018, , .		0
54	Frequency-Tunable THz Source Using Ar-Filled HC-PCF Pulse Shaper. , 2018, , .		0

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55	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
56	Enhanced THz detection efficiency via grating-assisted noncollinear electro-optic sampling. , 2019, , .		0
57	Terahertz Pulse Trapping Beyond the Delay-Bandwidth Limit. , 2019, , .		0
58	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
59	Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances in Plasmonic Metasurface for Flat Optics. , 2021, , .		0
60	Spin Hall Effect of Light in GaAs and Silicon Observed via Nonlinear Optics. , 2010, , .		0
61	Time-resolved Terahertz Mapping of a Cold Exciton-Polariton Gas. , 2013, , .		0
62	Quasi-phase-matched electric-field-induced second-harmonic in gas-filled hollow-core PCF. , 2016, , .		0
63	Ultrafast Optical Control of a Terahertz Metasurface Filter. , 2020, , .		0
64	Plasmonic Metasurfaces with Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances for Sensing, LiDAR Nanolasing and Imaging. , 2021, , .		0
65	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.3	0
66	FDTD analysis of a tunable THz plasmonic metasurface. , 2020, , .		0
67	Broadband bandpass THz filters with stacked metasurfaces. , 2021, , .		0
68	Simulation of Linear Depolarization Effects During Supercontinuum Generation in Optical Fiber. , 2021, , .		0
69	Tailoring Terahertz Pulses with Moving Fronts: Temporal Stretching and Time-Reversal. , 2020, , .		0
70	Broadband and high-sensitivity time-resolved THz system with grating-assisted noncollinear phase-matching. , 2020, , .		0