

Jean Michel MÃ©nard

List of Publications by Year in descending order

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70
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471509

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1753
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband and High-Sensitivity Time-Resolved THz System Using Grating-Assisted Tilted-Pulse-Front Phase Matching. <i>Advanced Optical Materials</i> , 2022, 10, 2101136.	7.3	8
2	Drone-Mountable Gas Sensing Platform Using Graphene Chemiresistors for Remote In-Field Monitoring. <i>Sensors</i> , 2022, 22, 2383.	3.8	5
3	A Comparative Investigation of Chemically Reduced Graphene Oxide Thin Films Deposited via Spray Pyrolysis. <i>ACS Omega</i> , 2022, 7, 11973-11979.	3.5	9
4	Scalable Fabrication of Nanogratings on GaP for Efficient Diffraction of Near-Infrared Pulses and Enhanced Terahertz Generation by Optical Rectification. <i>Crystals</i> , 2022, 12, 684.	2.2	6
5	Steering the Slipstream: Moving Fronts to Tailor Terahertz Pulses. , 2021, , .		1
6	Ultra-high-Q resonances in plasmonic metasurfaces. <i>Nature Communications</i> , 2021, 12, 974.	12.8	212
7	Polarization-resolved supercontinuum generated in a germania-doped photonic crystal fiber. <i>JPhys Photonics</i> , 2021, 3, 025002.	4.6	4
8	Systematic THz study of the substrate effect in limiting the mobility of graphene. <i>Scientific Reports</i> , 2021, 11, 8729.	3.3	13
9	Terahertz Nonlinear Spectroscopy of Water Vapor. <i>ACS Photonics</i> , 2021, 8, 1683-1688.	6.6	17
10	Front-induced transitions control THz waves. <i>Communications Physics</i> , 2021, 4, .	5.3	2
11	Ultra-High-Q (~ 2400) Lattice Resonances in Plasmonic Metasurface for Flat Optics. , 2021, , .		0
12	Plasmonic Metasurfaces with Ultra-High-Q (~ 2400) Lattice Resonances for Sensing, LiDAR Nanolasing and Imaging. , 2021, , .		0
13	Broadband bandpass THz filters with stacked metasurfaces. , 2021, , .		0
14	Simulation of Linear Depolarization Effects During Supercontinuum Generation in Optical Fiber. , 2021, , .		0
15	UV Illumination as a Method to Improve the Performance of Gas Sensors Based on Graphene Field-Effect Transistors. <i>ACS Sensors</i> , 2021, 6, 4417-4424.	7.8	21
16	Graphene Field Effect Transistors: A Sensitive Platform for Detecting Sarin. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61751-61757.	8.0	9
17	Non-local Field Effects in Nonlinear Plasmonic Metasurfaces. , 2020, , .		1
18	Mechanistic Insight into the Limiting Factors of Graphene-Based Environmental Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39764-39771.	8.0	13

#	ARTICLE	IF	CITATIONS
19	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
20	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		1
21	Propagation of broadband THz pulses: effects of dispersion, diffraction and time-varying nonlinear refraction. Optics Express, 2020, 28, 3237.	3.4	9
22	Ultrafast modulation of the spectral filtering properties of a THz metasurface. Optics Express, 2020, 28, 20296.	3.4	17
23	Ultrafast Optical Control of a Terahertz Metasurface Filter. , 2020, , .		0
24	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		2
25	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.3	0
26	FDTD analysis of a tunable THz plasmonic metasurface. , 2020, , .		0
27	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
28	Tailoring Terahertz Pulses with Moving Fronts: Temporal Stretching and Time-Reversal. , 2020, , .		0
29	Broadband and high-sensitivity time-resolved THz system with gratingassisted noncollinear phase-matching. , 2020, , .		0
30	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	9.1	63
31	Enhanced Terahertz Detection Efficiency via Grating-Assisted Noncollinear Electro-Optic Sampling. Physical Review Applied, 2019, 12, .	3.8	12
32	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
33	Enhanced THz detection efficiency via grating-assisted noncollinear electro-optic sampling. , 2019, , .		0
34	Terahertz Pulse Trapping Beyond the Delay-Bandwidth Limit. , 2019, , .		0
35	High-Q resonance train in a plasmonic metasurface. , 2019, , .		1
36	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

#	ARTICLE	IF	CITATIONS
37	All-optical phase control of THz waveforms. , 2018, , .		0
38	Broadband and tunable time-resolved THz system using argon-filled hollow-core photonic crystal fiber. APL Photonics, 2018, 3, .	5.7	22
39	Active phase control of terahertz pulses using a dynamic waveguide. Optics Express, 2018, 26, 13876.	3.4	23
40	Frequency-Tunable THz Source Using Ar-Filled HC-PCF Pulse Shaper. , 2018, , .		0
41	Higher-order mode suppression in twisted single-ring hollow-core photonic crystal fibers. Optics Letters, 2017, 42, 2074.	3.3	29
42	Broadband robustly single-mode hollow-core PCF by resonant filtering of higher-order modes. Optics Letters, 2016, 41, 1961.	3.3	222
43	Femtosecond terahertz dynamics of cooperative transitions: from charge density waves to polariton condensates. Proceedings of SPIE, 2016, , .	0.8	0
44	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
45	Quasi-phase-matched electric-field-induced second-harmonic in gas-filled hollow-core PCF. , 2016, , .		0
46	Ultrafast dissection of excitonic and structural orders in a persisting charge density wave. , 2015, , .		0
47	Raman amplification of pure side-seeded higher-order modes in hydrogen-filled hollow-core PCF. Optics Express, 2015, 23, 895.	3.4	3
48	Microcavity design for low threshold polariton condensation with ultrashort optical pulse excitation. Journal of Applied Physics, 2015, 117, 205702.	2.5	1
49	Phase-matched electric-field-induced second-harmonic generation in Xe-filled hollow-core photonic crystal fiber. Optics Letters, 2015, 40, 3679.	3.3	22
50	Fabrication and side-coupling characterization of hexagonal lattice single-ring hollow-core PCFs. , 2015, , .		3
51	Shot noise reduced terahertz detection via spectrally postfiltered electro-optic sampling. Optics Letters, 2014, 39, 2435.	3.3	50
52	Revealing the dark side of a bright excitonâ€“polariton condensate. Nature Communications, 2014, 5, 4648.	12.8	51
53	Non-thermal separation of electronic and structural orders in a persisting charge density wave. Nature Materials, 2014, 13, 857-861.	27.5	181
54	A Multi-Terahertz View of Ultrafast Charge Density Wave Dynamics in TiSe ₂ . , 2013, , .		1

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55	Sub-cycle switching of a photonic bandstructure via ultrastrong light-matter coupling. EPJ Web of Conferences, 2013, 41, 09009.	0.3	0
56	Time-resolved Terahertz Mapping of a Cold Exciton-Polariton Gas. , 2013, , .		0
57	Sub-Cycle Switching of Ultrastrong Light-Matter Interaction in a 1D Photonic Bandstructure. , 2012, , .		0
58	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. Physical Review B, 2012, 85, .	3.2	33
59	Coherent control of electrical currents in semiconductor nanowires/â€tubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1224-1226.	0.8	1
60	Ultrafast optical imaging of the spin Hall effect of light in semiconductors. Physical Review B, 2010, 82, .	3.2	73
61	Spin Hall Effect of Light in GaAs and Silicon Observed via Nonlinear Optics. , 2010, , .		0
62	All-optical coherently controlled terahertz ac charge currents from excitons in semiconductors. Physical Review B, 2009, 79, .	3.2	17
63	All-optical coherently controlled Terahertz AC charge currents from excitons in semiconductors. , 2009, , .		0
64	Imaging the spin Hall effect of light inside semiconductors via absorption. Optics Letters, 2009, 34, 2312.	3.3	67
65	Coherently Controlled Ballistic Charge Currents Injected in Single-Walled Carbon Nanotubes and Graphite. Nano Letters, 2008, 8, 1586-1589.	9.1	33
66	THz Emission from transient electrical currents injected into semiconductors via optical quantum interference. , 2008, , .		0
67	Single-beam differential z-scan technique. Applied Optics, 2007, 46, 2119.	2.1	22
68	Intensity and polarization dependences of the supercontinuum generation in birefringent and highly nonlinear microstructured fibers. Optics Express, 2003, 11, 3338.	3.4	45
69	Refractive index measurements of planar chalcogenide thin film. Journal of Non-Crystalline Solids, 2003, 328, 183-191.	3.1	26
70	Refractive index measurements of planar chalcogenide waveguide. , 2003, , .		0