

Carmen S Menoni

List of Publications by Year in descending order

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73
papers

2,020
citations

331670

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73
all docs

73
docs citations

73
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation and characterization of isolated attosecond pulses at 100â€‰kHz repetition rate. Optica, 2022, 9, 145.	9.3	15
2	Comprehensive study of amorphous metal oxide and Ta_2O_5 -based mixed oxide coatings for gravitational-wave detectors. Physical Review D, 2022, 105, .	4.7	16
3	Extreme Ultraviolet Laser Ablation Mass Spectrometry: A New Tool for Chemical Mapping at the Nanoscale. , 2022, , .		0
4	Isotopic Heterogeneity Imaged in a Uranium Fuel Pellet with Extreme Ultraviolet Laser Ablation and Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2021, 93, 1016-1024.	6.5	8
5	1.1 J Yb:YAG Picosecond Laser at 1 kHz Repetition Rate. , 2021, , .		0
6	Low Mechanical Loss TiO_2 Coatings for Reduced Thermal Noise in Gravitational Wave Interferometers. Physical Review Letters, 2021, 127, 071101.	7.8	27
7	Enhanced medium-range order in vapor-deposited germania glasses at elevated temperatures. Science Advances, 2021, 7, eabh1117.	10.3	14
8	Survey of metal oxides for coatings of ultra-stable optical cavities. , 2021, , .		0
9	Extreme ultraviolet laser ablation mass spectrometry for chemical mapping at the nanoscale. , 2021, , .		0
10	1 kHz Repetition Rate 1.1 J Picosecond Laser. , 2021, , .		0
11	Structural Evolution that Affects the Room-Temperature Internal Friction of Binary Oxide Nanolaminates: Implications for Ultrastable Optical Cavities. ACS Applied Nano Materials, 2020, 3, 12308-12313.	5.0	11
12	Generation and characterisation of few-pulse attosecond pulse trains at 100 kHz repetition rate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 194003.	1.5	14
13	Comparison of damage and ablation dynamics of multilayer dielectric films initiated by few-cycle pulses versus longer femtosecond pulses. Optics Letters, 2020, 45, 2672.	3.3	15
14	Demonstration of a kilowatt average power, 1 J, green laser. Optics Letters, 2020, 45, 6803.	3.3	16
15	1.1â€‰J Yb:YAG picosecond laser at 1â€‰kHz repetition rate. Optics Letters, 2020, 45, 6615.	3.3	57
16	Structure and morphology of low mechanical loss TiO_2 -doped Ta_2O_5 . Optical Materials Express, 2020, 10, 1687.	3.0	24
17	Laser induced damage in coatings for cryogenic Yb:YAG active mirror amplifiers. Optics Letters, 2020, 45, 4476.	3.3	2
18	2D dynamic ionization simulation from ultrashort pulses in multilayer dielectric interference coatings. , 2020, , .		4

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19	Single-shot large field of view Fourier transform holography with a picosecond plasma-based soft X-ray laser. <i>Optics Express</i> , 2020, 28, 35898.	3.4	4
20	Optical and structural properties of thin film amorphous oxides for photonic structures. , 2020, , .		0
21	Nanoscale Isotopic Imaging by Extreme Ultraviolet Laser Ablation Mass Spectrometry. , 2019, , .		0
22	Investigation of effects of assisted ion bombardment on mechanical loss of sputtered tantalum thin films for gravitational wave interferometers. <i>Physical Review D</i> , 2019, 100, .	4.7	4
23	Investigation of laser annealing mechanisms in thin film coatings by photothermal microscopy. <i>Optics Express</i> , 2019, 27, 5729.	3.4	6
24	Absorptance homogeneity and its relaxation in thin films by photothermal microscopy. , 2019, , .		1
25	Photothermal microscopy characterization of multiphoton annealing of defects in thin-film coatings for high-power lasers. , 2019, , .		0
26	Characterization of absorptance homogeneity in thin-film coatings for high-power lasers by thermal lensing microscopy. <i>Applied Optics</i> , 2019, 58, 7233.	1.8	4
27	Rapid quasi non-destructive 3D chemical visualization with tabletop x-ray laser mass spectrometry. , 2019, , .		0
28	Extreme ultraviolet laser ablation of solid targets. , 2019, , .		0
29	Scaling diode-pumped, high energy picosecond lasers to kilowatt average powers. <i>High Power Laser Science and Engineering</i> , 2018, 6, .	4.6	29
30	Depth-Profiling Microanalysis of CoNCN Water-Oxidation Catalyst Using a $\lambda = 46.9$ nm Plasma Laser for Nano-Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 9234-9240.	6.5	15
31	Demonstration of a 1 Joule, 500 W average power picosecond laser. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
32	Characterization of extreme ultraviolet laser ablation mass spectrometry for actinide trace analysis and nanoscale isotopic imaging. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1092-1100.	3.0	33
33	Progress in high repetition rate soft x-ray laser development and pump lasers at Colorado State University. , 2017, , .		0
34	Thin film absorption characterization by focus error thermal lensing. <i>Review of Scientific Instruments</i> , 2017, 88, 123104.	1.3	7
35	Strategies to increase laser damage performance of Ta ₂ O ₅ /SiO ₂ mirrors by modifications of the top layer design. <i>Applied Optics</i> , 2017, 56, C136.	2.1	15
36	0.85 μ W laser operation at 33 μ Hz and high-contrast ultrahigh-intensity $\lambda = 400$ nm second-harmonic beamline. <i>Optics Letters</i> , 2017, 42, 3828.	3.3	86

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55	Defect-free periodic structures using extreme ultraviolet Talbot lithography in a table-top system. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 06F604.	1.2	7
56	Hour-long continuous operation of a tabletop soft x-ray laser at 50-100 Hz repetition rate. Optics Express, 2013, 21, 28380.	3.4	16
57	High Average Power, 100 Hz Repetition Rate, Table-top EUV/Soft X-Ray Lasers. , 2013, , .		1
58	Demonstration of a 100ÅHz repetition rate gain-saturated diode-pumped table-top soft x-ray laser. Optics Letters, 2012, 37, 3624.	3.3	63
59	Demonstration of Nanomachining With Focused Extreme Ultraviolet Laser Beams. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 443-448.	2.9	23
60	Imaging at the Nanoscale With Practical Table-Top EUV Laser-Based Full-Field Microscopes. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 434-442.	2.9	11
61	Femtosecond pulse damage thresholds of dielectric coatings in vacuum. Optics Express, 2011, 19, 5690.	3.4	30
62	Ultrahigh 22 nm resolution coherent diffractive imaging using a desktop 13 nm high harmonic source. Optics Express, 2011, 19, 22470.	3.4	164
63	Assessment of illumination characteristics of soft x-ray laser-based full-field microscopes. , 2011, , .		0
64	Transient phenomena in the dielectric breakdown of HfO ₂ optical films probed by ultrafast laser pulse pairs. Applied Physics Letters, 2010, 97, .	3.3	21
65	Extreme ultraviolet laser-based table-top aerial image metrology of lithographic masks. Optics Express, 2010, 18, 14467.	3.4	20
66	Table-top microscope for at-wavelength inspection of extreme ultraviolet lithography mask. , 2009, , .		0
67	Advances in full field microscopy with table-top soft x-ray lasers. Proceedings of SPIE, 2009, , .	0.8	1
68	Single-shot extreme ultraviolet laser imaging of nanostructures with wavelength resolution. Optics Letters, 2008, 33, 518.	3.3	94
69	Warm photoionized plasmas created by soft-x-ray laser irradiation of solid targets. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B32.	2.1	32
70	High numerical aperture tabletop soft x-ray diffraction microscopy with 70-nm resolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 24-27.	7.1	156
71	Equation of state of InP to 19 GPa. Physical Review B, 1987, 35, 7520-7525.	3.2	76
72	Crystal data for high-pressure phases of silicon. Physical Review B, 1986, 34, 4679-4684.	3.2	458

#	ARTICLE	IF	CITATIONS
73	Germanium at high pressures. Physical Review B, 1986, 34, 362-368.	3.2	158