Cristina Consani

List of Publications by Year
in descending order

46 papers	1,059 citations	567281 15 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	1578 citing authors

#	Article	IF	Citations
1	Design of a Slab Tamm Plasmon Resonator Coupled to a Multistrip Array Waveguide for the Mid Infrared. Sensors, 2022, 22, 2968.	3.8	4
2	Design of a Curved Shape Photonic Crystal Taper for Highly Efficient Mode Coupling. Sensors, 2021, 21, 585.	3.8	4
3	Aluminium, gold-tin and titanium-tungsten alloys for mid-infrared plasmonic gratings. Optical Materials Express, 2021, 11, 1058.	3.0	9
4	Figures of merit for mid-IR evanescent-wave absorption sensors and their simulation by FEM methods. Optics Express, 2021, 29, 9723.	3.4	9
5	Towards Integrated Plasmonic Gas Sensors in the MWIR. Engineering Proceedings, 2021, 6, .	0.4	0
6	Engineering mode coupling in a hybrid plasmon-photonic cavity for dual-band infrared spectroscopic gas sensing. OSA Continuum, 2021, 4, 1827.	1.8	1
7	Plasmonic Silver Grating for Mid-Infrared Sensing. , 2021, , .		1
8	Ultra-Narrow SPP Generation from Ag Grating. Sensors, 2021, 21, 6993.	3.8	4
9	Impact of Different Metals on the Performance of Slab Tamm Plasmon Resonators. Sensors, 2020, 20, 6804.	3.8	4
10	Chirped Grating IR-Filter on a Waveguide for Sensing Applications. Proceedings (mdpi), 2020, 42, 81.	0.2	0
11	Multipath Ray-Tracing-Based Modelling of Time-of-Flight Cameras. , 2020, , 93-147.		0
12	A Smartphone-Based Virtual White Cane Prototype Featuring Time-of-Flight 3D Imaging. , 2020, , 179-199.		0
13	Design of a Mid-Infrared Bandpass Filter With Large Rejection Bandwidth for Silicon Photonics. Journal of Lightwave Technology, 2019, 37, 3770-3776.	4.6	3
14	A CMOS Compatible Pyroelectric Mid-Infrared Detector Based on Aluminium Nitride. Sensors, 2019, 19, 2513.	3.8	20
15	Fog Effects on Time-of-Flight Imaging Investigated by Ray-Tracing Simulations. Proceedings (mdpi), 2018, 2, 859.	0.2	3
16	Sensitivity Comparison of Integrated Mid-Infrared Silicon-Based Photonic Detectors. Proceedings (mdpi), 2018, 2, 796.	0.2	0
17	Numerical Investigations of Infrared Slot Waveguides for Gas Sensing. Proceedings (mdpi), 2018, 2, 799.	0.2	6
18	Characterization of Evanescent Field Gas Sensor Structures Based on Silicon Photonics. IEEE Photonics Journal, 2018, 10, 1-14.	2.0	42

#	Article	IF	Citations
19	Virtual White Cane Featuring Time-of-Flight 3D Imaging Supporting Visually Impaired Users. , 2018, , .		2
20	Si-Based Waveguides for Evanescent-Field Sensors. , 2018, , .		0
21	Mid-infrared absorption gas sensing using a silicon strip waveguide. Sensors and Actuators A: Physical, 2018, 277, 117-123.	4.1	67
22	Characterization of a Narrowband Resonant Cavity Enhanced Detector in the Mid-Infrared. , 2018, , .		0
23	Ultrafast isomerization in a difluoroboryl-coordinated molecular switch. Chemical Physics Letters, 2017, 683, 83-90.	2.6	4
24	Characterisation of a resonant-cavity enhanced thermal emitter for the mid-infrared. , 2017, , .		3
25	Safety-critical human detection featuring time-of-flight environment perception. , 2017, , .		0
26	Mapping of excitonâ€“exciton annihilation in MEH-PPV by time-resolved spectroscopy: experiment and microscopic theory. Physical Chemistry Chemical Physics, 2017, 19, 31989-31996.	2.8	13
27	Intrinsic damping in silicon slab waveguides in the mid-infrared. , 2017, , .		0
28	Photonic Gas Sensor Using a Silicon Strip Waveguide. Proceedings (mdpi), 2017, 1, 547.	0.2	2
29	The role of the dipolar neighborhood on the relaxation dynamics of multichromophoric merocyanines. Physical Chemistry Chemical Physics, 2016, 18, 19820-19831.	2.8	3
30	Spectroscopic Gas Sensing Using a Silicon Slab Waveguide. Procedia Engineering, 2016, 168, 1265-1269.	1.2	12
31	Relaxation dynamics and exciton energy transfer in the low-temperature phase of MEH-PPV. Journal of Chemical Physics, 2015, 142, 212429.	3.0	18
32	Ultrafast Energy Transfer between Disordered and Highly Planarized Chains of Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV). ACS Macro Letters, 2015, 4, 412-416.	4.8	24
33	A cascade through spin states in the ultrafast haem relaxation of met-myoglobin. Journal of Chemical Physics, 2014, 140, 025103.	3.0	25
34	Quantum Control Spectroscopy of Competing Reaction Pathways in a Molecular Switch. Journal of Physical Chemistry A, 2014, 118, 11364-11372.	2.5	13
35	Ultrafast Tryptophan-to-Heme Electron Transfer in Myoglobins Revealed by UV 2D Spectroscopy. Science, 2013, 339, 1586-1589.	12.6	122
36	Ultraviolet transient absorption, transient grating and photon echo studies of aqueous tryptophan. Chemical Physics, 2013, 422, 47-52.	1.9	10

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37	UV Two-Dimensional Transient Absorption Spectroscopy. , 2012, , .		1
38	Ultrabroadband femtosecond two-dimensional ultraviolet transient absorption. Optics Letters, 2012, 37, 2337.	3.3	67
39	Energy transfer and relaxation mechanisms in Cytochrome c. Chemical Physics, 2012, 396, 108-115.	1.9	43
40	Femtosecond pump/supercontinuum-probe setup with 20 kHz repetition rate. Review of Scientific Instruments, 2012, 83, 093105.	1.3	54
41	Ultrafast Excited-State Dynamics of Rhenium(I) Photosensitizers [Re(Cl)(CO)₃(N,N)] and [Re(imidazole)(CO)₃(N,N)]⁺: Diimine Effects. Inorganic Chemistry, 2011, 50, 2932-2943.	4.0	171
42	Femtosecond UV Studies of the Electronic Relaxation Processes in Cytochrome c. Journal of Physical Chemistry B, 2011, 115, 13723-13730.	2.6	44
43	Ultrafast (Bio)physical and (Bio)chemical Dynamics. Chimia, 2011, 65, 683.	0.6	4
44	Origin of electronic absorption spectra of MLCT-excited and one-electron reduced 2,2â€²-bipyridine and 1,10-phenanthroline complexes. Inorganica Chimica Acta, 2011, 374, 578-585.	2.4	67
45	Disentangling thermal and nonthermal excited states in a charge-transfer insulator by time- and frequency-resolved pump-probe spectroscopy. Physical Review B, 2009, 80, .	3.2	16
46	Vibrational Coherences and Relaxation in the Highâ€Spin State of Aqueous [Fe^{II}(bpy)₃]²⁺. Angewandte Chemie - International Edition, 2009, 48, 7184-7187.	13.8	164