Stefano Varas

List of Publications by Year
in descending order

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37	435	687363 13	713466 21
papers	citations	h-index	g-index

37	37	37	428
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High quality factor 1-D Er^3+-activated dielectric microcavity fabricated by RF-sputtering. Optics Express, 2012, 20, 21214.	3.4	64
2	Solâ€“gel-derived photonic structures: fabrication, assessment, and application. Journal of Sol-Gel Science and Technology, 2011, 60, 408-425.	2.4	54
3	Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. Optical Materials, 2015, 50, 229-233.	3.6	45
4	Disorder in Photonic Structures Induced by Random Layer Thickness. Science of Advanced Materials, 2015, 7, 1207-1212.	0.7	42
5	From flexible electronics to flexible photonics: A brief overview. Optical Materials, 2021, 115, 111011.	3.6	34
6	Metal oxide one dimensional photonic crystals made by RF sputtering and spin coating. Ceramics International, 2015, 41, 8655-8659.	4.8	30
7	SiO2-SnO2:Er3+ Glass-Ceramic Monoliths. Applied Sciences (Switzerland), 2018, 8, 1335.	2.5	22
8	Magnetoresistive magnetometer with improved bandwidth and response characteristics. Review of Scientific Instruments, 2005, 76, 065106.	1.3	21
9	Assessment of SnO2-nanocrystal-based luminescent glass-ceramic waveguides for integrated photonics. Ceramics International, 2021, 47, 5534-5541.	4.8	17
10	Fabrication, modelling and assessment of hybrid 1-D elastic Fabry Perot microcavity for mechanical sensing applications. Ceramics International, 2019, 45, 7785-7788.	4.8	16
11	Solâ€“gel-derived photonic structures handling erbium ions luminescence. Optical and Quantum Electronics, 2015, 47, 117-124.	3.3	15
12	Pr3+â€“Yb3+â€codoped lanthanum fluorozirconate glasses and waveguides for visible laser emission. Journal of Non-Crystalline Solids, 2012, 358, 2695-2700.	3.1	13
13	Rare-earth activated SnO2 photoluminescent thin films on flexible glass: Synthesis, deposition and characterization. Optical Materials, 2022, 124, 111978.	3.6	13
14	Determination of reverse cross-relaxation process constant in Tm-doped glass by ^3H_4 fluorescence decay tail fitting. Optical Materials Express, 2017, 7, 3760.	3.0	10
15	Design, fabrication and assessment of an optomechanical sensor for pressure and vibration detection using flexible glass multilayers. Optical Materials, 2021, 115, 111023.	3.6	7
16	Glass-based 1-D dielectric microcavities. Optical Materials, 2016, 61, 11-14.	3.6	5
17	Sol-gel-derived transparent glass-ceramics for photonics. Optical Materials, 2022, 130, 112577.	3.6	5
18	Low-Threshold Coherent Emission at 1.5 Âµm from Fully Er3+ Doped Monolithic 1D Dielectric Microcavity Fabricated Using Radio Frequency Sputtering. Ceramics, 2019, 2, 74-85.	2.6	4

#	Article	IF	Citations
19	Rare-earth-activated glasses for solar energy conversion. , 2011, , .		3
20	Optical properties of one-dimensional disordered multilayer photonic structures. , 2015, , .		3
21	SiO2-SnO2:Er3+ planar waveguides: Highly photorefractive glass-ceramics. Optical Materials: X, 2020, 7, 100056.	0.8	3
22	Down-converter based on rare earth doped fluoride glass to improve Si-based solar cell efficiency. Proceedings of SPIE, 2011, , .	0.8	2
23	Glass and glass-ceramic photonic systems. , 2017, , .		2
24	High quality factor dielectric multilayer structures fabricated by rf-sputtering. Proceedings of SPIE, 2012, , .	0.8	1
25	Spherical resonators coated by glass and glass-ceramic films. Proceedings of SPIE, 2012, , .	0.8	1
26	GeO2glass ceramic planar waveguides fabricated by RF-sputtering. , 2014, , .		1
27	Glass-based confined structures fabricated by sol-gel and radio frequency sputtering. Optical Engineering, 2014, 53, 071804.	1.0	1
28	Glass-ceramics for photonics: Laser material processing. , 2015, , .		1
29	Glass-Based Sub-Wavelength Photonic Structures. , 2013, , .		0
30	Tailored spectroscopic and optical properties in rare earth-activated glass-ceramics planar waveguides. , 2013, , .		0
31	RF-sputtering derived dielectric 1-D photonic crystal activated with Er3+ ions. , 2014, , .		0
32	Glass-Based Photonic Crystals: From Fabrication to Applications. Advances in Science and Technology, 0, , .	0.2	0
33	Tailoring the optical properties of one-dimensional (1D) photonic structures. , 2017, , .		0
34	Tungsten oxide films by radio-frequency magnetron sputtering for near-infrared photonics. Optical Materials: X, 2021, 12, 100093.	0.8	0
35	Nonlinear enhancement in 1-D photonic crystal with ZnO defect fabricated by rf sputtering. , 2012, , .		0
36	One-dimensional disordered photonic structures with two or more materials. , 2018, , .		0

#	Article	IF	Citations
37	Fabrication by rf-sputtering and assessment of dielectric Er3+ doped monolithic 1-D microcavity for coherent emission at 1.5 um. , 2018, , .		0