

# Dusan Pudis

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

328  
citations

933447

10  
h-index

940533

16  
g-index

78  
all docs

78  
docs citations

78  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology for the Preparation of PDMS Optical Fibers and Some Fiber Structures. IEEE Photonics Technology Letters, 2014, 26, 1446-1449.	2.5	44
2	Effect of 2D photonic structure patterned in the LED surface on emission properties. Applied Surface Science, 2013, 269, 161-165.	6.1	27
3	Photonic crystal and photonic quasicrystal patterned in PDMS surfaces and their effect on LED radiation properties. Applied Surface Science, 2017, 395, 220-225.	6.1	23
4	3D Polymer Based 1x4 Beam Splitter. Journal of Lightwave Technology, 2021, 39, 154-161.	4.6	21
5	Fabrication and Optical Characterization of Strain Variable PDMS Biconical Optical Fiber Taper. IEEE Photonics Technology Letters, 2013, 25, 2066-2069.	2.5	20
6	Ultrahigh-sensitive plasmonic sensing of gas using a two-dimensional dielectric grating. Optics Letters, 2019, 44, 5602.	3.3	15
7	Investigation of intermodal interference of LP01 and LP11 modes in the liquid-core optical fiber for temperature measurements. Optik, 2011, 122, 707-710.	2.9	14
8	2D irregular structure in the LED surface patterned by NSOM lithography. Applied Surface Science, 2013, 269, 116-119.	6.1	14
9	Angle- and polarization resolved antireflection properties of black silicon prepared by electrochemical etching supported by external electric field. Applied Surface Science, 2018, 461, 182-189.	6.1	14
10	IP-Dip-based woodpile structures for VIS and NIR spectral range: complex PBG analysis. Optical Materials Express, 2019, 9, 4307.	3.0	12
11	Variable Liquid-Core Fiber Optical Attenuator Based on Thermo-Optical Effect. Journal of Lightwave Technology, 2011, 29, 2647-2650.	4.6	10
12	Surface-relief Bragg grating waveguides based on IP-Dip polymer for photonic applications. Applied Surface Science, 2018, 461, 113-116.	6.1	10
13	IP-Dip photoresist surfaces for photonic applications prepared by laser lithography and studied by AFM. Applied Surface Science, 2018, 461, 108-112.	6.1	10
14	2D Photonic Structures for Optoelectronic Devices Prepared by Interference Lithography. Physics Procedia, 2012, 32, 807-813.	1.2	9
15	Guided-Mode Resonance-Based Relative Humidity Sensing Employing a Planar Waveguide Structure. Sensors, 2020, 20, 6788.	3.8	9
16	2D polymer/metal structures for surface plasmon resonance. Applied Surface Science, 2020, 530, 147279.	6.1	8
17	IP-Dip-Based SPR Structure for Refractive Index Sensing of Liquid Analytes. Nanomaterials, 2021, 11, 1163.	4.1	6
18	Structures patterning by non-contact NSOM lithography. , 2010, , .		5

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19	3D Polymer-Based 1 Å– 4 MMI Splitter. <i>Nanomaterials</i> , 2022, 12, 1749.	4.1	5
20	Intermodal interference of LPO modes in optical fiber with liquid core. <i>Optik</i> , 2010, 121, 1660-1664.	2.9	4
21	2D periodic structures patterned on 3D surfaces by interference lithography for SERS. <i>Applied Surface Science</i> , 2018, 461, 171-174.	6.1	4
22	Temperature effect on optical properties of the cuticle of <i>Lucilia sericata</i> . <i>Optik</i> , 2008, 119, 523-527.	2.9	3
23	Fiber-Optical Power Limiter and Cut-Off Switch Based on Thermo-Optical Effect. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 297-299.	2.5	3
24	Non-Contact NSOM Lithography for 2D Photonic Structure Fabrication. <i>Physics Procedia</i> , 2012, 32, 113-116.	1.2	3
25	Optically controllable variable fiber optical attenuator integrated in conventional optical fiber. <i>Optik</i> , 2014, 125, 7085-7088.	2.9	3
26	Lithographic technologies suitable for PhC patterning and optical properties of patterned LED surfaces. <i>Optik</i> , 2017, 143, 35-41.	2.9	3
27	Optical properties of woodpile structures for application on the surface of photonic devices. <i>Applied Surface Science</i> , 2018, 461, 227-232.	6.1	3
28	Design, simulation and technological realization of polymer based 3D 1x4 splitter. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
29	Advanced optical methods for patterning of photonic structures in photoresist, III-V semiconductors and PMMA. , 2010, , .		2
30	Polydimethylsiloxane fibers for optical fiber sensor of displacement. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
31	Effect of a thin Au and ZnO layer on optical properties of 1D PhC structures patterned in LED surface. <i>Optik</i> , 2019, 199, 163333.	2.9	2
32	Experimental verification of 3D polymer based 1x4 Y-branch splitters. , 2020, , .		2
33	3D Photonic Crystals for Direct Applications in Light Emitting Devices. <i>Advances in Electrical and Electronic Engineering</i> , 2018, 16, .	0.3	2
34	Microring Zone Structure for Near-Field Probes. <i>Coatings</i> , 2021, 11, 1363.	2.6	2
35	Volume Fraction Determination of Binary Liquid Mixtures by Measurement of the Equalization Wavelength. <i>Sensors</i> , 2010, 10, 7082-7088.	3.8	1
36	Fabrication of optical waveguide structures based on PDMS using photoresist fibers. , 2014, , .		1

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37	PDMS membranes with 2D PhC for LEDs far-field pattern modification. , 2014, , .		1
38	Siloxane-based photonic structures and their application in optic and optoelectronic devices. Proceedings of SPIE, 2016, , .	0.8	1
39	PhC and PQC patterned by interference lithography in photoresist surface. , 2016, , .		1
40	New type of VLC communication transmitter based on optical fibres. , 2016, , .		1
41	PDMS microfluidic structures for LOC applications. , 2016, , .		1
42	Far Field Measurements of Phc Led Prepared by Eâ€™Beam Lithography. Journal of Electrical Engineering, 2014, 65, 309-312.	0.7	1
43	PDMS-based waveguides with surface relief Bragg grating. Proceedings of SPIE, 2016, , .	0.8	1
44	Polymer-based 3D microcones for application in SERS. , 2018, , .		1
45	Design and simulation of polymer based 1x4 multimode interference splitter. AIP Conference Proceedings, 2021, , .	0.4	1
46	Properties of Edge-emitting Laser Embedded in AlAs/AlGaAs Vertical Resonant Cavity. AIP Conference Proceedings, 2004, , .	0.4	0
47	Intermodal interference of the lowest-order modes in hollow core optical waveguide with dielectric walls. Central European Journal of Physics, 2010, 8, 760-765.	0.3	0
48	Irregular 2D structure in the light emitting diode surface patterned by NSOM lithography. , 2012, , .		0
49	Emission and absorption properties of patterned LED with 2D PhC. , 2012, , .		0
50	All-optical optofluidic fiber intensity modulator. , 2012, , .		0
51	2D photonic structure with square symmetry in the GaAs/AlGaAs LED surface. , 2012, , .		0
52	Emission properties of surface patterned LEDs. Proceedings of SPIE, 2013, , .	0.8	0
53	Predefined planar structures in semiconductor surfaces patterned by NSOM lithography. Proceedings of SPIE, 2013, , .	0.8	0
54	Far-field pattern modification of LEDs with 2D PhC PDMS membrane. Proceedings of SPIE, 2014, , .	0.8	0

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55	PhC structures for optoelectronics. , 2014, , .		0
56	PDMS-based photonic and quasi-photonic crystal for LED application. , 2016, , .		0
57	Preparation and effect of 2D PhC on the LED. , 2016, , .		0
58	LEDs with photonic crystal and quasicrystal investigated in near and far field. , 2016, , .		0
59	Reflectance measurements of GaP-ZnO core-shell NWs. , 2016, , .		0
60	Polysiloxane optical fibres and fibre structures. , 2016, , .		0
61	Optical properties of GaAs-based LED with Fresnel structure in the surface. , 2016, , .		0
62	Ring resonator and Mach-Zehnder interferometer based on PDMS. , 2016, , .		0
63	Polymer based 3D photonic crystals applied on the surface of LEDs and photodiodes. Proceedings of SPIE, 2017, , .	0.8	0
64	Design of polymer based 8-channel, 100-GHz AWG applying various photonics tools. AIP Conference Proceedings, 2019, , .	0.4	0
65	Complex Analysis of Emission Properties of LEDs with 1D and 2D PhC Patterned by EBL. Coatings, 2020, 10, 748.	2.6	0
66	Polymer lab-on-fiber probe based on Fabry-Perot resonator. , 2020, , .		0
67	Near-field analysis of GaP nanocones. Applied Surface Science, 2021, 539, 148213.	6.1	0
68	Modification of LED radiation pattern by implementation of 1D Fresnel structure in the surface. Proceedings of SPIE, 2017, , .	0.8	0
69	3D polymer-based woodpile structure for application in photonics. , 2018, , .		0
70	3D polymer-based air-bridge waveguides for on chip applications. , 2018, , .		0
71	Polymer-based Mach-Zehnder interferometer for on-chip applications. , 2018, , .		0
72	Design and preparation of polymer-based microspectrometer using laser lithography. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Optical microring structure applied at the end of the optical fiber. , 2018, , .		0
74	Woodpile structure: effective diffractive photonic element. , 2018, , .		0
75	Diffraction Properties and Application of 3D Polymer Woodpile Photonic Crystal Structure. Advances in Electrical and Electronic Engineering, 2019, 17, .	0.3	0
76	Preparation of Fresnel zone plate for LED application using laser lithography. , 2020, , .		0
77	Photonic Devices with Siloxane Membranes. Communications - Scientific Letters of the University of Zilina, 2017, 19, 3-8.	0.6	0
78	Metal-dielectric structure with 2D surface grating for refractive index sensor. , 2022, , .		0