Menelaos K Poutous

List of Publications by Year
in descending order

80	415	840776 11	839539 18
papers	citations	h-index	g-index

80	80	80	221
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anti-reflective surface structures for spinel ceramics and fused silica windows, lenses and optical fibers. Optical Materials Express, 2014, 4, 2504.	3.0	60
2	Spectral narrowing and stabilization of thulium fiber lasers using guided-mode resonance filters. Optics Letters, 2011, 36, 737.	3.3	24
3	UV to NIR optical properties of IP-Dip, IP-L, and IP-S after two-photon polymerization determined by spectroscopic ellipsometry. Optical Materials Express, 2019, 9, 4318.	3.0	22
4	Binary-mask generation for diffractive optical elements using microcomputers. Applied Optics, 1993, 32, 2566.	2.1	21
5	Design and fabrication of customized illumination patterns for low-k1 lithography: a diffractive approach. , 2001, , .		18
6	Spatial and spectral beam shaping with space-variant guided mode resonance filters. Optics Express, 2009, 17, 20365.	3.4	18
7	Integrated Tm:fiber MOPA with polarized output and narrow linewidth with 100 W average power. Optics Express, 2012, 20, 20558.	3.4	18
8	Modification of nanostructured fused silica for use as superhydrophobic, IR-transmissive, anti-reflective surfaces. Optical Materials, 2016, 54, 195-199.	3.6	18
9	Polarization insensitive performance of randomly structured antireflecting planar surfaces. Optical Engineering, 2018, 57, 1.	1.0	18
10	Comparative Discrimination Spectral Detection Method for the Identification of Vapors Using Overlapping Broad Spectral Filters. Applied Spectroscopy, 2015, 69, 305-313.	2.2	13
11	Optical Filter Selection for High Confidence Discrimination of Strongly Overlapping Infrared Chemical Spectra. Analytical Chemistry, 2015, 87, 8798-8808.	6.5	13
12	Performance of conformal guided mode resonance filters. Optics Letters, 2011, 36, 1155.	3.3	12
13	Polarization selective, graded-reflectivity resonance filter, using a space-varyingâ€¨guided-mode resonance structure. Optics Express, 2010, 18, 27764.	3.4	10
14	Guided-Mode Resonance Filters for Wavelength Selection in Mid-Infrared Fiber Lasers. IEEE Photonics Technology Letters, 2012, 24, 2300-2302.	2.5	10
15	Biomimetic Optical-Filter Detection System for Discrimination of Infrared Chemical Signatures. Analytical Chemistry, 2016, 88, 11491-11497.	6.5	10
16	Four-plane space-variant Fresnel-transform optical processor with a random phase encoder. Applied Optics, 1996, 35, 3819.	2.1	9
17	Two-dimensional guided mode resonance filters fabricated in a uniform low-index material system. Optics Letters, 2011, 36, 3293.	3.3	7
18	Surface transmission enhancement of ZnS via continuous-wave laser microstructuring. Proceedings of SPIE, 2014, , .	0.8	7

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19	Control of spectral transmission enhancement properties of random anti-reflecting surface structures fabricated using gold masking. Proceedings of SPIE, 2017, , .	0.8	7
20	Diffraction efficiency performance of random anti-reflecting subwavelength surface structures on prefabricated fused silica binary gratings. Applied Optics, 2018, 57, 4421.	1.8	7
21	Narrow linewidth tunable CW thulium fiber lasers with VBG and GMRF stabilization. , 2009, , .		5
22	Azimuthally Varying Guided Mode Resonance Filters. Micromachines, 2012, 3, 180-193.	2.9	5
23	Large area infrared frequency selective surface with dimensions reproducible by optical lithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 051807.	1.2	5
24	Narrow-angle scatter of reflectivity-suppressing nanostructured surfaces. Optical Engineering, 2020, 59, .	1.0	5
25	Correlation of fabrication tolerances with the performance of guided-mode-resonance micro-optical components. , 2009, , .		4
26	Fabrication of Low Contrast Homogenous Guided Mode Resonance Filters. , 2011, , .		4
27	Antireflective surface structures on optics for high energy lasers. , 2014, , .		4
28	Filter-based chemical sensors for hazardous materials. , 2014, , .		4
29	Characterization of random anti-reflecting surface structures and their polarization response at off-normal angles of incidence. Proceedings of SPIE, 2016, , .	0.8	4
30	Fresnel reflection suppression from deterministic illumination diffusers using antireflection random nanostructures. Optical Engineering, 2022, 61, .	1.0	4
31	Photoresist surface roughness characterization in additive lithography processes for fabrication of phase-only optical vortices. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 043009.	0.9	3
32	Harsh Environment Tests of Random Antireflective Surface Structures on Optics. , 2017, , .		3
33	Discrimination Between Explosive Materials and Isomers Using a Human Color Vision-Inspired Sensing Method. Applied Spectroscopy, 2019, 73, 520-528.	2.2	3
34	Arrayed wide-field astronomical camera system for spectroscopic surveys on Extremely Large Telescopes: system architecture, proof-of-concept, and enabling technologies. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	3
35	Laser damage of optical windows with random antireflective surface structures on both interfaces. , 2017, , .		3
36	Near-infrared transmittance enhancement using fully conformal antireflective structured surfaces on microlenses fabricated by direct laser writing. Optical Engineering, 2019, 58, 1.	1.0	3

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37	Microfabrication of controlled angle diffusers used for resolution enhancement in microlithography. , 2003, , .		2
38	Filter selection criteria for the discrimination of strongly overlapping chemical spectra. Proceedings of SPIE, 2015, , .	0.8	2
39	Entry and exit facet laser damage of optical windows with random antireflective surface structures. , 2016, , .		2
40	Evaluation of a biomimetic optical-filter based chemical sensor for detection of hazardous chemical vapors in the infrared. Proceedings of SPIE, 2016, , .	0.8	2
41	Bidirectional scattering distribution function of random antireflective nano-roughened surfaces. , 2021, , .		2
42	Analytical procedure to assess the performance characteristics of a non-spectroscopic infrared optical sensor for discrimination of chemical vapors. Applied Optics, 2018, 57, 8903.	1.8	2
43	Guided mode resonance filter as wavelength selecting element in Er:ZBLAN fiber laser. , 2012, , .		2
44	High-confidence discrimination of explosive materials on surfaces using a non-spectroscopic optical biomimetic sensing method. , 2018, , .		2
45	Laser damage of silica optical windows with random antireflective structured surfaces. Optical Engineering, 2018, 57, 1.	1.0	2
46	Optical scattering measurements of random anti-reflective nanostructured surfaces in the mid- and long-wave IR. , 2020, , .		2
47	Dammann gratings as phase diffusers in Fourier holography. Applied Optics, 1994, 33, 6827.	2.1	1
48	Design and fabrication of customized illumination patterns for low-k1 lithography--a diffractive approach: II. Calcium fluoride controlled-angle diffusers. , 2002, 4691, 1556.		1
49	Spectral narrowing and stabilization of thulium fiber lasers using guided-mode resonance filters. Proceedings of SPIE, 2010, , .	0.8	1
50	Spectral beam combining of thulium fiber laser systems. Proceedings of SPIE, 2010, , .	0.8	1
51	Spectral beam combining of 2Î¼m Tm fiber laser systems. Optics Communications, 2011, 284, 1988-1991.	2.1	1
52	Fabrication of singulated micro-retro-reflectors for textured surfaces. Proceedings of SPIE, 2011, , .	0.8	1
53	Photoresist roughness characterization in additive lithography processes for the fabrication of phase-only optical vortices. , 2012, , .		1
54	Antireflective Surface Microstructures on Optics for Laser Applications. , 2016, , .		1

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55	Fabrication of Broadband Anti-reflective Surface on Fused Silica from Visible to SWIR Spectral Band. , 2019, , .		1
56	Surface-relief gratings with anti-reflective nanostructures for panchromatic astronomical low/medium/high resolution spectroscopic surveys. , 2020, , .		1
57	Optical scattering measurements of random anti-reflection subwavelength surface structures on binary gratings. , 2020, , .		1
58	Azimuthally Varying Graded Reflectivity Mirrors. , 2010, , .		0
59	Integrated 100-W polarized narrow linewidth thulium fiber MOPA system. , 2012, , .		0
60	2.78 µm fluoride glass fiber laser using guided mode resonance filter as external cavity mirror. , 2012, , .		0
61	Monolithic fabrication and performance control of multilayered, polarization sensitive, guided-mode resonance filters. Proceedings of SPIE, 2012, , .	0.8	0
62	Fabrication of optically monolithic, low-index guided mode resonance filters. , 2012, , .		0
63	Spatially and spectrally varying guided mode resonant filter by modifying the waveguide layer. , 2012, , .		0
64	Mid-infrared guided-mode resonance reflectors for applications in high power laser systems. , 2012, , .		0
65	Resonant optical devices for IR lasers. Proceedings of SPIE, 2013, , .	0.8	0
66	Determination of Micro-Lens Array-Averaged Spherical Aberrations. , 2019, , .		0
67	Bi-Directional Scatter and Single-Surface Reflectivity of Random Anti-Reflective Nanostructured Surfaces. , 2019, , .		0
68	Optical Scattering of Deterministic Diffractive Elements with Antireflective Structured Surfaces. , 2019, , .		0
69	Random anti-reflection subwavelength surface structures on deterministic illumination diffusers. , 2021, , .		0
70	Optical super-resolving phase filters with random anti-reflection subwavelength surface structures. , 2021, , .		0
71	Implementation of a superresolution far-field spot-generator with 1/5 the diffraction limit. Results in Optics, 2021, 3, 100067.	2.0	0
72	Spectral Beam Combining of 2 Î¼m Tm Fiber Laser Systems. , 2010, , .		0

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73	Analyte detection in complex samples using a biomimetic, non-spectroscopic sensing method. , 2017, , .		0
74	Optical characterization of random anti-reflecting subwavelength surface structures on binary gratings. , 2018, , .		0
75	Infrared reflectance characterization of ammonium nitrate residue on roughened aluminum for potential bioinspired stand-off sensor. , 2019, , .		0
76	Examination of stochastic and ordered methods to select optical filters for discrimination between chemical vibrational absorption bands. , 2019, , .		0
77	Arrayed wide-angle camera system for wide field imaging and spectroscopy on ELTs: proof-of-concept on-sky test results on McDonald Observatory 2.7m telescope. , 2020, , .		0
78	Mid-wave and long-wave IR angular scatter of random anti-reflective nanostructured surfaces on ZnS, ZnSe, and GaAs (Conference Presentation). , 2020, , .		0
79	Optical surface absolute specular reflectance measurement using an infrared etalon and interferometer combination method. , 2022, , .		0
80	MWIR scatter of antireflective nanostructured windows. , 2022, , .		0